

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

Section 15. Plain Language Summary (Instructions Page 40)

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

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

DOMESTIC WASTEWATER

The following summary is provided for this pending water quality permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 Texas Administrative Code Chapter 39. The information provided in this summary may change during the technical review of the application and are not federal enforceable representations of the permit application. The City of Tahoka (CN601097934) operates the Tahoka wastewater treatment plant RN103138079. a facultative lagoon system with land application disposal features. The facility is located 1 mile southeast of the city limits, in Tahoka, Lynn County, Texas 79373.

This new application is for land application of 360,000 gallons per day of treated domestic wastewater. This permit will not authorize a discharge of pollutants into water in the state.

Discharges from the facility are expected to contain 5-day Biochemical Oxygen Demand and a limited range of pH.Domestic wastewater will be treated by anaerobic process through a facultative lagoon and multiple holding ponds. Pre-treatment units include a manual bar screen.

SPANISH translation below

La ciudad de Tahoka (CN601097934) opera la planta de tratamiento de aguas residuales de Tahoka RN103138079. un sistema lagunar facultativo con características de disposición de aplicación terrestre. La instalación está ubicada a 1 milla al sureste de los límites de la ciudad, en Tahoka, condado de Lynn, Texas 79373.

Esta nueva solicitud es para la aplicación terrestre de 360,000 galones por día de aguas residuales domésticas tratadas. Este permiso no autorizará una descarga de contaminantes al agua del estado.

Se espera que las descargas de la instalación contengan una demanda bioquímica de oxígeno de 5 días y un rango limitado de pH. Las aguas residuales domésticas serán tratadas mediante un proceso anaeróbico a través de una laguna facultativa y múltiples estanques de retención. Las unidades de pretratamiento incluyen una criba de barras manual.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



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

PROPOSED PERMIT NO. WQ0010298003

APPLICATION. City of Tahoka, P.O. Box 300, Tahoka, Texas 79373, has applied to the Texas Commission on Environmental Quality (TCEQ) for proposed Texas Land Application Permit (TLAP) No. WQ0010298003 to authorize the disposal of treated wastewater at a volume not to exceed a daily average flow of 360,000 gallons per day via surface application on 143 acres of land. The domestic wastewater facility and disposal area are located Approximately 1 mile southeast of the intersection of County Road 24 and Highway 87, near the city of Tahoka, in Lynn County, Texas 79373. Authorization for disposal was previously permitted by expired Permit No. WQ0010298002. TCEQ received this application on March 25, 2024. The permit application will be available for viewing and copying at Tahoka City Hall, Office of the City Secretary, 1807 N. Main Street, Tahoka, in Lynn 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:

<u>https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tlap-applications</u>. 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.

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

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.

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 <u>www.tceq.texas.gov/goto/cid</u>. 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 <u>https://www14.tceq.texas.gov/epic/eComment/</u>, 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 <u>www.tceq.texas.gov/goto/pep</u>. Si desea información en Español, puede llamar al 1-800-687-4040.

Further information may also be obtained from City of Tahoka at the address stated above or by calling Mr. Derek Stephens, City Administrator, at (806) 561-4211.

Issuance Date: June 7, 2024

Comisión de Calidad Ambiental del Estado de Texas



AVISO DE RECIBO DE LA SOLICITUD E INTENCION DE OBTENER PERMISO PARA LA CALIDAD DEL AGUA

PERMISO PROPUESTO NO. WQ0010298003

SOLICITUD. City of Tahoka, P.O. Box 300, Tahoka, TX 79373 ha solicitado a la Comisión de Calidad Ambiental de Texas (TCEQ) para el propuesto Permiso No. WQ0010298003 de disposición de aguas residuales para autorizar la eliminación de aguas residuales tratadas en un volumen que no exceda el diario flujo promedio de 360,000 galones por día mediante aplicación superficial en 143 acres de tierra. lo domestico La instalación de aguas residuales y el área de eliminación están ubicadas aproximadamente 1 milla al sureste de la intersección de County Road 24 y Highway 87, cerca de la ciudad de Tahoka, en el condado de Lynn, Texas 79373. Autorización para su eliminación estaba previamente permitido por el Permiso No. WQ0010298002 vencido. TCEQ recibió esto solicitud el 25 de marzo de 2024. La solicitud de permiso estará disponible para ver y copiar en Ayuntamiento de Tahoka, Oficina del Secretario de la Ciudad, 1807 N. Main Street, Tahoka, en el condado de Lynn, Texas antes de la fecha este aviso se encuentra publicado en el periódico. La aplicación, incluidas las actualizaciones, y Los avisos asociados están disponibles electrónicamente en la siguiente página web:

<u>https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tlap-applications</u>. 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://www.tceq.texas.gov/permitting/wastewater/pending-permits/tlap-applications.

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

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

OPORTUNIDAD DE UNA AUDIENCIA ADMINISTRATIVA DE LO

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

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 <u>www.tceq.texas.gov/about/comments.html</u>. 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: <u>www.tceq.texas.gov</u>.

También se puede obtener información adicional del City of Tahoka a la dirección indicada arriba o llamando a Sr. Derek Stephens al (806) 561-4211.

Fecha de emisión 19 de junio de 2024

Adjacent Landowners List City of Tahoka, Texas WWTP

| Map ID # | Property Owner |
|-------------|---|
| 1 | City of Tahoka PO Box 300 Tahoka, TX 79373 |
| 3 | Leslie & Pamela Paris PO Box 515 Tahoka, TX 79373 |
| 5 | Sybert Montgomery Family Trust 4318 18 th Street Lubbock, Tx 79416 |
| 7 | Willie Edwards c/o Crawford Edwards 4200 South Hulen St. Ft Worth, TX 76109-4913 |
| 9 | Tome Alvarado PO Box 299 Tahoka, TX 79373 |
| 11 | Tahoka Cemetery Assn. c/o City of Tahoka PO Box 300 Tahoka, TX 79373 |
| 13 | Glen & Marci Gandy PO Box 892 Tahoka, TX 79373 |
| 15 | Terri Anderson 1924 CR 280 Floydada, TX 79235 |
| 17 | Doyle Willis PO Box 333 Tahoka, TX 79373 |

| Map ID # | Property Owner |
|-------------|--|
| 2 | Dennis & Mary Belew PO Box 487 Tahoka, TX 79373 |
| 4 | Connie Braddock PO Box 1661 Tahoka, TX 79373 |
| 6 | Howell Lands, LLC 409 E 57 th Street Odessa, TX 79762 |
| 8 | Justin Antu 7822 Ave V Lubbock, TX 79423 |
| 10 | Betty Sue Ehlers 2313 Lockwood Tahoka, TX 79373 |
| 12 | Taylor & Cassidy Allison PO Box 147 Tahoka, TX 79373 |
| 14 | Faustino & Rosa De Leon PO Box 1593 Tahoka, TX 79373 |
| 16 | Raymond & Janet Lara PO Box 463 Tahoka, TX 79373 |
| | |

DENNIS & MARY BELEW PO BOX 487 TAHOKA TX 79373

SYBERT MONTGOMERY FAMILY TRUST 4218 18[™] STREET LUBBOCK TX 79416

JUSIN ANTU 7822 AVE V LUBBOCK TX 79423

TAYLOR & CASSIDY ALLISON PO BOX 147 TAHOKA TX 79373

TERRI ANDERSON 1925 CR 280 FLOYDADA TX 79235 LESLIE & PAMELA PARIS PO BOX 515 TAHOKA TX 79373

HOWELL LANDS, LLC 409 E 57^{TH} STREET ODESSA TX 79762

TOME ALVARADO PO BOX 299 TAHOKA TX 79373

GLEN & MARCI GANDI PO BOX 892 TAHOKA TX 79373

RAYMOND & JANET LARA PO BOX 463 TAHOKA TX 79373 CONNIE BRADDOCK PO BOX 1661 TAHOKA TX 79373

WILLIE EDWARDS C/O CRAWFORD EDWARDS 4200 SOUTH HULEN ST FORT WORTHTX 76109-4913

BETTY SUE EHLERS 2313 LOCKWOOD TAHOKA TX 79373

FAUSTINO & ROSA DE LEON PO BOX 1593 TAHOKA TX 79373

DOYLE WILLIS PO BOX 333 TAHOKA TX 79373



APPLICATION FOR A DOMESTIC WASTEWATER PERMIT

CITY OF TAHOKA

May 2024

City of Tahoka, Texas Permit No. WQ0010298002

PO Box 300 Tahoka, TX 79373 (806) 561-4211 Lynn County

Prepared By:





May 28, 2024

Texas Commission on Environmental Quality **Abesha Michael MC-148** Water Quality Division Applications Review and Processing Team P.O. Box 13087 Austin, TX 78711-3087

Re: City of Tahoka, Texas (CN601097934) Permit No. WQ 0010298003 (RN103138079) Proposed WWTP Permit Renewal Application Administrative & Technical Notice of Deficiency 1

Dear Ms. Michael,

Civil 360 is responding to your correspondence dated April 10, 2024 for items deficient for a complete permit application. The items you requested primarily relate to a 'New' application for permit, however, this treatment facility has been in operation since 2002, and has been previously permitted until March 1, 2024. Unfortunately, the city allowed the facility's permit to expire. Several exceptions have been requested to address the various requirements of the permittee, and we appreciate your consideration in each instance.

Reproduced below are your original comments/questions/requests, and this office's response immediately follows in italics.

 Section 1, on page 2 of the administrative report. Thank you for providing the payment information for the application fee. However, the existing permit has expired, and because of this, we must issue a new permit. The application fee for the new/proposed permit is \$1.250.00. Please submit the remaining \$35.00 to: TCEQ, Revenue Section (MC 214), P.O. Box 13088, Austin, Texas 78711-3088. Also, email a copy of the check or any form of proof of payment along with the response.

An additional check to supplement the original \$1,250.00 already transmitted for the first 'renewal' attempt has been sent to the appropriate Revenue Section of TCEQ. Page 2 of the Administrative Report has been revised accordingly.

2. Section 3, Item C on Page 4 of the Administrative Report: We couldn't locate the Core Data Form (CDF) in the application. The CDF is required. All items on the form must be completed to ensure that we have the most updated information. Please complete and submit a signed CDF.

An updated Core Data Form has been prepared and can be found in Attachment 1.0

3. Section 2, application type on page 2 of the application. Since the existing permit has expired, we must issue a new permit and the whole application has to be for a proposed/new



permit application. Please follow the instructions pages to complete a proposed permit application and submit the missing pages to complete a new permit application.

Please find a fully revised/modified Administrative Report and Technical Report, with applicable sections for a 'New' application enclosed with this letter.

4. Section 8, item F, Public Involvement Plan Form (PIP), on page 8 of the administrative report: Please complete this form which is a requirement for new and major amendment applications.

A Public Involvement Plan Form is included with the updated permit application, however, due to the existing treatment facility and effluent disposal infrastructure, public opposition will be limited or non-existent.

5. Section 15. Plain Language Summary (PLS) on pages 14 and 15. Please complete the English and Spanish language PLS.

Pages 14 and 15 regarding the PLS have been completed and translated to Spanish.

6. Section 8, item F, Public Involvement Plan Form (PIP), on page 8 of the administrative report: Please complete this form which is a requirement for new applications.

See reply from #4 above.

7. Sections 1, 2, and 3. Affected Landowner Information, items A-E on page 16 of the administrative report: These sections have to be completed for a new/proposed permit application. Please follow the instructions page to complete this section.

An affected Landowner's Map and list of corresponding landowner information has been created to comply with Sections 1, 2 and 3 of the Administrative Report.

8. The following is a portion of the NORI which contains information relevant to your application. Please read it carefully and indicate if it contains any errors or omissions. The complete notice will be sent to you once the application is declared administratively complete.

APPLICATION. City of Tahoka, (Mailing address - pending Core Data Form), has applied to the Texas Commission on Environmental Quality (TCEQ) for proposed Texas Land Application Permit (TLAP) No. WQ0010298003 to authorize the disposal of treated wastewater at a volume not to exceed a daily average flow of 360,000 gallons per day via surface application on 209 143 acres of land. The domestic wastewater facility and disposal area are located Approximately 1 mile southeast of the intersection of County Road 24 and Highway 87, near the city of Tahoka, in Lynn County, Texas 79373. Authorization for disposal was previously permitted by expired Permit No. WQ0010298002. TCEQ received this application on March 25, 2024. The permit application will be available for viewing and copying at Tahoka City Hall, Office of the City Secretary, 1807 N. Main Street,



Tahoka, in Lynn County, Texas prior to the date this notice is published in the newspaper. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application.

https://gisweb.tceq.texas.gov/LocationMapper/?marker=-101.7924,33.13845&level=18 Further information may also be obtained from City of Tahoka at the address stated above or by calling Mr. Derek Stephens, City Administrator, at (806) 561-4211.

The above NORI text is accurate with the exception of the acreage of irrigation land available. The revision is made above with a highlight and strikeout notation.

This correspondence also addresses NOD comments prepared by Ms. Julie Rueckheim in a separate email. Those comments included the following,

GEOLOGY

1. Domestic Worksheet 3.0, Section 3. Storage and Evaporation Lagoons/Ponds: Please provide information for the facultative lagoon in the Table 3.0(2).

This requested information has been added to Table 3.0.

2. Worksheet 3.0, Section 7: The Groundwater Quality Technical Report must assess the impact of the wastewater disposal system on the uses of local groundwater resources. In the Groundwater Quality Report found in Attachment G, please provide information on the wastewater pond liners and applying effluent at agronomic rates. An example Groundwater Quality Report can be provided upon request.

The original groundwater quality report has been amended to further elaborate on the groundwater well information discovered in the driller's logs and additional discussion of the liner system for the pond system.

3. Worksheet 3.1 was not identified in the application materials. Please provide a complete and accurate Worksheet 3.1.

Worksheet 3.1 has been completed as requested.

SOILS & AGRONOMY

4. Domestic Worksheet 3.0 - Section 2 - Land Application Site: The submitted information shows only a warm season crop utilized. According to the permit and revisions made in May 29, 2014 (page 32, Special Provision 15), the site is required to grow a cool season crop if effluent will be land applied during the cool season months. Please include the specified cool season crops, such as, Wheat, Ryegrass, and Winter Ryegrass in the Agronomic Management Plan (Section 5) and resubmit the revised permit application pages.



The original cropping plan has been modified significantly to address each item in Section 2 of Domestic Worksheet 3.0. A cool-season grass has been added, and a more detailed explanation of the livestock grazing events for the crops has been included.

5. Domestic Worksheet 3.1, Section A. Irrigation – See 30 TAC § 309.20, Please provide a current water balance with the data sources (e.g. source of evapotranspiration data, CN, EC values, etc..). Follow instructions from form TCEQ-10053 (ins).

A water balance has been prepared as required. Since the cool-season grasses are only proposed to be cultivated between November and February, the water balance does take their evapotranspiration rates into account.

One item of note - the lab results of 2/22/2024 for TKN in the effluent demonstrated a result of 128mg/l, however, Nitrate Nitrogen was 'not detected'. This was unusual, as both constituents should have measured a level of nitrogen with the TKN having a slightly higher concentration over Nitrate-Nitrogen. This is the trend typically seen in these water samples. Therefore, due to the inconsistency and unusually high level of TKN, the tested value from the single grab sample was disregarded, and a concentration of 20mg/l was used to estimate the nitrogen content in the effluent within the water balance.

Since this application is for an existing treatment facility, this office is requesting an exception to the following items within the Administrative Report of the application.

- A. Administrative Report 1.0, Section 13, in lieu of an original, full-size USGS quadrangle map, this office is submitting location maps and other material using only a portion of a digitally sourced USGS quadrangle map.
- B. Administrative Report 1.1, Section 2, this office is including only a few aerial photographs of the facility and effluent irrigation area flown by drone for reference.
- C. Administrative Report 1.1, Section 3, Buffer Zone Map; this exhibit displays compliance of the buffer zone requirement via ownership, with the exception of the east line. In the original permit, a 300-foot easement that once belonged to the BN&S.F. Railroad bordered the east side of the property, however, since that time, the easement has been relinquished to adjoining landowners, and the exhibit now appears to show non-compliance with ownership on this east side by extending into the adjoining landowner by 98'. This cannot be avoided and is a circumstance of the previous easement abandonment, and not a design error or omission.

The following items are being addressed in the Technical Report of the application as well.

- D. Domestic Technical Report 1.1, Section 1, Justification for Permit; this permit application has not been provided with information related to correspondence from the city (and related cost analysis), utility CCN areas, or nearby wastewater treatment facilities since this is an existing facility.
- E. Domestic Technical Report 1.1, Section 2, Proposed Organic Loading; since the previous permit did not require repeated <u>influent</u> BOD sampling, the operator was only able to take one (1) grab sample to comply with this application requirement. It was taken on May 15, 2024 so as to have some data to address this section of the application.

In addition, the proposed organic loading was not broken out into individual sources in Table 1.1.



F. Domestic Technical Report 3.0, Section 2, Land Application Site; in the prior permit and water balance, 208 acres of area was designated for irrigation, utilizing two (2) center pivot systems, both of which were to be mobilized to other pivot risers in order to reach all 208 acres.

In order to remove these mobilization requirements, this office is proposing a reduction in area to 143 acres and relies on the two (2) pivot systems to remain in place. The current water balance with updated evaporation data successfully supports the reduced number of irrigation acreage with a required storage of 20.02 acre-ft, which is less than the provided 35.76 acre-ft.

- G. Design Calculations, TAC §217.205(b)(3); where the remainder of the facultative lagoon (not the deepest end) must have a minimum depth of 8' cannot be met. The depths range from 6' to 9', and therefore request an exception to this design requirement.
- H. According to TAC §217.203(d)(1)(B), Maximum Liner Permeability, this rule requires a 3.0 feet thick soil liner for depths > 8.0 feet. Since this existing plant has only a 2.0 feet thick liner for all ponds and facultative lagoon where the depth reaches 12', this office requests an exception to this requirement.

Pg 32 of the recently expired permit (see below) states that a 2-foot clay soil liner was required.

City of Tahoka

Permit No. WQ0010298002

- 10. Spray fixtures for the irrigation system shall be of such design that they cannot be operated by unauthorized personnel.
- 11. Permanent transmission lines shall be installed from the holding pond to each tract of land to be irrigated utilizing effluent from that pond.
- 12. Facilities for the retention of treated or untreated wastewater shall be adequately lined to control seepage. The following methods of pond lining are acceptable.
 - a. In-situ clay soils or placed and compacted clay soils meeting the following requirements:
 - l) More than 30% passing a No. 200 mesh sieve
 - 2) Liquid limit greater than 30%
 - 3) Plasticity index greater than 15
 - 4) A minimum thickness of 2 feet
 - 5) Permeability equal to or less than 1x10⁻⁷ cm/sec (*)
 - 6) Soil compaction will be 95% standard proctor at optimum moisture content (*)

(*) For new and/or modified ponds only.

- b. Membrane lining with a minimum thickness of 20 mils and an underdrain leak detection system.
- c. An alternate method of pond lining may be utilized with prior approval from the Executive Director.

Record Drawings, signed and sealed by the original engineer responsible for the treatment plant are also included with this application. The drawings verify that a 2-foot thick liner was constructed with the plant.



In addition, this office only has in its possession a draft letter from the original Engineer dated April 17, 2002, certifying completion of the plant on March 29, 2002 and notifying the TNRCC of the official startup. A signed/sealed certification has not been located. This office requests an exception to this current application requirement and would like to avoid field testing to prove the effectiveness of the soil liner.

Please contact this office if you require any additional information or clarification of the application content

Sincerely,

Civil 360, PLLC

.

TX Registered Engineering Firm No. 15119

Mathew Hopper, P.E. mhopper@civil-360.net



CITY OF TAHOKA, TEXAS

WASTEWATER TREATMENT PLANT IMPROVEMENTS

SRF CONTRACT No. 3689-01

CONTRACTOR: RICE CONSTRUTION COMPANY, INC. COMPLETION DATE: SEPTEMBER 2002

OEI Project #2034.97



Oller Engineering, Inc.

WASTEWATER TREATMENT IMPROVEMENTS

CITY

RECORD DRAWING

| SHEET INDEX |
|---|
| TITLE SHEET |
| |
| COVER SHEET |
| GENERAL LOCATION MAP + VICINITY MAP |
| NEW 12" SEWER LINE TO WWTP - PLAN + PROFILE |
| PLANT POND GRADING + PIPING PLAN |
| POND SECTIONS + DETAILS |
| ENTRANCE STRUCTURE |
| TRANSFER STRUCTURE #1 - FACULTATIVE LAGOON |
| TRANSFER STRUCTURE #2 - HOLDING POND #1 |
| IRRIGATION STRUCTURE |
| IRRIGATION LAYOUT PLAN |
| NETTING FENCE LAYOUT + DETAILS |
| OPERATIONS STATION BUILDING |
| FENCING LAYOUT PLAN + DETAILS - WWTP |
| FENCING LAYOUT PLAN + DETAILS - IRRIGATION AREA |
| ELECTRICAL LAYOUT PLAN + DETAILS |
| TAILWATER POND |
| TAILWATER STRUCTURE |
| MISC. SEWER DETAILS |
| |
| |
| |





| R | evision | Notes | |
|----------|---|-------|------|
| | | | |
| | | | GENE |
| : 2034-0 | 34.97 Plot: 1 = 1 1.DWG Drawn by : J.I.R. R.M.O. Scale : AS SHOWN | | |



| | | _ | 0-6' DE | PTH @ 1425' | | | | | | |
|-------------------|-------------------------------------|--|-----------------------------|--|--------------|---------------|---|-------------|--|-------------|
| 54.96 214 5714 | > | | | NAT | RAL-GROUN | ND | | | | |
| | | | | | | | | | | |
| | | 12 | 2" SDR 26 PVC | SEWER @ 48 | 8 LF @ 0.62 | % SLOPE | national et al <u>a constante de la constante de la co</u> nstante de la constante de | | | 12" |
| | | | | | | | | | 0 (12"-N) 90 (12"-OUT | |
| ·EL.= 50.95 | .EL.= 50.64 | .EL.= 50.33 | .EL.= 50.02 | .El. = 49.71 | .El. = 49.40 | .EL.= 49.09 | .EL.= 48.78 | .EL.= 48.47 | EL.= 48.16 H-3 H 5TA. 9+75 LEL.= 3048.1 LEL.= 3048.1 EL.= 47.59 | .EL.= 46.37 |
| ட -00 | Revision | L 6+00 | <u>الت</u> 7 | 一 一 一 一 一 一 一 一 | 8 | +00 No | tes | 9+00 | <u>I</u> ≥ ≥ <u> <u>L</u> <u>L</u> <u>L</u> 10+00</u> | |
| | | | | | | | | | | NEV |
| 2034 | 2034.97 -02.DWG R.M.O. P.S | Plot: Drawn by : Scale : Date : | 1 = 1 J.I.R. AS SHOWN | - | | | | | | |

| i., | | | | | |
|-----|--|--|--|--|--|

OF <u>17</u> SHEETS

W 12" SEWER LINE TO WWTP PLAN & PROFILE

| A 450 LP & UZ1 BLOPE | | WER DETAIL | TO SHEET 5 FOR | | | | |
|--|-----------------------|--|----------------|---|------------------------------------|--|--------------------------------------|
| ACTION TRANSPORT OF LAST ACTION ACTION TRANSPORT OF LAST ACTION AC | @ 450 LF @ 1.22% S | LOPE | | | | | |
| 306 306 306 306 306 306 306 306 | | 3048 WASTEWATE TREATMENT PROPOSED REFER TO FOR DETAIL | PLANT | X X 3045 X 44+00 - | | TOP OF BERM EL = 3039 | |
| 80.0 9 2 9 2 9 2 9 3 9 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 | | | | 11 11, 11111 M 11 | | | |
| R 26 PVC SEWER @ 450 LF @ T.22% SLOPF | | | | | | | 3065 |
| R 26 PVC SEWER @ 450 LF @ 1.22% SLOPF | | | | | | | 3065 |
| 2 26 PVC SEWER | | | | STRUCTURE | | | 3065 60.0 |
| | | | | ENTRANCE STRUCTURE STA. 14+25 FLEL= 304238 (12"-IN) | -ENTRANCE REFER TO FOR DETAI | STRUCTURE, SHEET 5 LS. | 3065 60.0 55.0 |
| | 26 PVC SEWER @ 450 L | NATURAL GROU | | EN IRANCE STRUCTURE STA. 14+25 FL.EL.= 304238 (12"-IN) | ENTRANCE REFER TO FOR DETAI | STRUCTURE, SHEET 5 LS. | 3065 60.0 55.0 50.0 45.0 |
| 12100 17100 11100 | 26 PVC SEWER @ 450 UP | NATURAL GROU | | EL.= 4269 STA. 14+25 STA. 14+25 FLEL= 304238 (12"-N) | ENTRANCE REFER TO FOR DETAI | STRUCTURE, SHEET 5 LS. ATER IT PLANT | 3065 60.00 55.00 55.00 |



| | | ²⁵ ²⁵ ²⁵ ²⁵ ²⁵ ²⁵ ²⁵ ²⁵ | 43" E 0 |
|--|---|--|---|
| 3020_ TOP OF BERM = 3028 TOP OF BERM = 3028 | PVC NE TYP.) | 3035 10 10 10 10 10 10 10 10 10 10 10 10 10 | TOP |
| G +1 -4' DIA. MANHOLE, REFER TO SHEET 17 FOR DETAILS -50 -50 -50 -50 -50 -50 -50 -50 | SVEET 5 FOR DETA | 5030 502 502 502 502 502 502 502 50 | G PIPE |
| 6" SDR 26 PVC RECIRCULATION LINE (4' COVER TYP.) CONCRETE AERATION STRUCTURE, REFER TO SHEET 4 FOR DETAILS STRUCTURE AERATION STRUCTURE AE | | 30 X 30 X 30 30 X 30 30 X 30 30 X 30 30 X 30 30 X 30 X 30 30 X 30 30 X 30 30 X 30 30 X 30 30 X 30 30 X 30 30 X 30 30 X 30 30 X 30 30 X 30 30 X 30 30 30 30 30 30 30 30 30 30 | 12" OUTLET FROM FACULTATIVE LAGOO TRANSFER STRUCTUR (3' COVER TYPICAL) NEW FENC TO SHEET DETAILS |
| Image: Construction of the construction of | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | CONTROL POINT - (NE-HOLDING 1) 120' OFFSET E. CONTROL POINT - (NE-HOLDING 2) 120' OFFSET E. CONTROL POINT - (SE-HOLDING 2) 120' OFFSET S. CONTROL POINT - (SW-HOLDING 2) 120' OFFSET S. CONTROL POINT - (SW-HOLDING 2) 120' OFFSET W. CONTROL POINT - (SW-HOLDING 1) 77' OFFSET W. CONTROL POINT - (NW-HOLDING 1) 85' OFFSET W. CONTROL POINT - (NW-HOLDING 1) 75' OFFSET N. NW COR OF EXTENDED BERM SW COR OF FACLAGOON NE COR OF FAC LAGOON NE COR OF FAC LAGOON BOTTOM - NE COR OF FAC LAGOON BOTTOM - NE COR OF FAC LAGOON BOTTOM - NE COR OF FAC LAGON BOTTOM - NE COR OF FAC LAG - N BOTTOM - NE COR OF FAC LAG - N BOTTOM - NE COR OF FAC LAG - S BOTTOM - NE COR OF FAC LAG - S POND BOTTOM - SW COR OF FAC LAG - S POND SOTTOM - SW COR OF FAC LAG - S POND SOTTOM - SW COR OF FAC LAG - S POND SOTTOM - SW COR OF FAC LAG - S POND SOTTOM - SW COR OF FAC LAG - S POND SOTTOM - SW COR OF FAC LAG - S POND SOTTOM - SW COR OF FAC LAG - S POND SE COR OF FAC LAGOON NE COR OF FAC LAGOON SW COR OF FAC LAGOON SW COR OF FAC LAGOON NE COR OF W DOWN SLOPE (FAC-HOLD 1) NW COR OF POND (HOLD 1) NW COR OF HOLD 1 SW COR OF W DOWN SLOPE (FAC-HOLD 1) NW COR OF HOLD 1 NW COR OF E DOWN SLOPE (FAC-HOLD 1) SE COR OF E DOWN SLOPE (FAC-HOLD 1) SE COR OF E DOWN SLOPE (FAC-HOLD 1) SW COR OF E DOWN SLOPE (FAC-HOLD 1) SUTOM - NW COR OF HOLD 1 BOTTOM - NW COR OF HOLD 1 BOTTOM - SW COR OF HOLD 1 BOTTOM - SW COR OF HOLD 1 BOTTOM - NW COR OF HOLD 1 | 4037 $240'23'52"$ $80.$ 4038 $238'16'40"$ 826 4039 $237'23'50"$ 833 4040 $239'08'08"$ 870 4041 $239'59'17"$ 869 4042 $245'08'55"$ 869 4042 $245'08'55"$ 860 4043 $265'17'18"$ 793 4044 $265'56'43"$ 933 4045 $248'34'21"$ 100 4045 $248'34'21"$ 100 4045 $248'34'21"$ 100 4046 $246'27'38"$ 103 4047 $246'03'11"$ 111 4048 $271'00'30"$ 102 4049 $270'10'35"$ 100 4050 $245'34'13"$ 133 4051 $150'48'25"$ 551 4053 $96'25'45"$ 533 4054 $97'22'23"$ 460 Node # Northing Easting 325 17723.63 7258.64 326 17713.91 7184.28 |
| 4029 4030 4031 4032 WT - (NW) 250' OFFSET W. VT - (NW) 120' OFFSET N. VT - (NE) 120' OFFSET N. MT - (NE) 120' OFFSET E. Revision | 242'00'45" 700.67 237'43'46" 813.55 239'52'18" 795.66 270'27'56" 691.43 271'39'42" 706.82 270'26'45" 706.43 271'37'04" 721.81 270'25'37" 721.42 HORIZONTAL & VERTIC | BOTTOM - SE COR OF HOLD 1 SE COR OF HOLD 1 NW COR OF N DOWN SLOPE (HOLD1-HOLD 2) NW COR OF HOLD1 NW COR OF W DOWN SLOPE (HOLD 1-HOLD 2) NE COR OF W DOWN SLOPE (HOLD 1-HOLD 2) SW COR OF W DOWN SLOPE (HOLD 1-HOLD 2) SE COR OF W DOWN SLOPE (HOLD 1-HOLD 2) Notes AL BASES TAKEN FROM A SURVEY PREPARED | 1000 17721.07 6247.00 1010 17721.07 6247.00 1011 18050.97 6236.80 1012 18127.02 6318.84 4000 18918.74 6398.49 4001 18903.74 6398.44 4002 18903.61 6438.98 4003 18903.80 6453.98 4004 18907.74 6763.95 |
| : 2034.97 Plot: 1 = 1 : 2034-03.DWG Drawn by : J.I.R. R.M.O. Scale : AS SHOWN D S Date : AUCUST 2002 | BY HAGAR AND ASSOC 2000, PLAT # H3463. CITY TO SET CONTROL CONTRACTOR'S RESPON & REPLACEMENT CONT EARTH VOLUME QUANT BE BROUGHT TO THE | POINTS, 1000 THRU 1018 ONE TIME ONLY, ISIBILITY TO MAINTAIN & PROTECT. ADDITIONAL ROL POINTS WILL BE AT CONTRACTOR'S EXPENSE, ITIES ARE ESTIMATED. ANY DISCREPANCY SHOULD ATTENTION OF THE ENGINEER IMMEDIATELY. | PLANT |







| Notes |
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| ALL INTERIORS OF MANHOLES TO BE EPOXY COATED. SPLASH PADS TO EXTEND 2 FEET ONTO THE FLOOR POND. |
| ALL PRECAST STRUCTURES TO BE PLACED ON TOP OF 1' CRUSHED GRAVEL. |
| |
| |
| 1 R |
| |



| | 3037 | | |
|---|---|---|---|
| -12" M.J. 90" BEND 12 - 12" 90" BEND 12 - 12" | " PVC PE | 90' BEND 32.0 -FL.EL.*303150 | ¹² |
| PVC | | FACULTATIVE LAGOON TRANSFER STRUCTURE #1, PEFEP TO THIS SHEET | San an a |
| | | FOR DETAILS. | BI SLOPE |
| CONCRETE SEEPAGE COLLAR (TYPICAL ALL PENETRATIONS) | | CONCRETE SEEPAGE COLLAR (TYPICAL ALL PENETRATIONS) | |
| FL.EL.=3032.0 | | FL.EL.=3032.0 | 70' ELD VERIFY |
| | FACULTATIVE LAGOON | | |
| | | PLAN | |
| | TRANSFE | SCALE I'-10' | |
| | TRANGFE | 10 20 30 | |
| | C GRAP | 10 20 30 PHIC SCALE IN FEET | |
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| | C GRAP | IN SCALE I'-10' | |
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| ELD VERIFY | M WATER LEVEL (MWL) FACULTATIVE POI | ID 20 30 HIC SCALE IN FEET | 6" TO SURFA |
| ELD VERIFY | M WATER LEVEL (MWL) FACULTATIVE POI | ND FLEL-3032.0 | 6" TOI SURFA (TYPIC |
| Image: Second system Image: Second system Image: Second system Ima | MWATER LEVEL (MWL) FACULTATIVE POI | ND FLEL-3032.0 | 6" TOP SURFA (TYPIC) |
| ELD VERIFY | | ND FLEL-30320 | 6" TO SURFA (TYPIC |
| Image: second system | A WATER LEVEL (MWL) FACULTATIVE POINT ATIVE LAGOON ATIVE LAGON ATIVE LAGOON ATIVE | ND FLEL-3032.0 | 6" TOI SURFA (TYPIC |
| Image: Solution of the second state | MWATER LEVEL (MWL) FACULTATIVE POI ATIVE LAGOON 24" POND LINER, AS SPEC. | NO FLEL-3032.0 FLEL-3032.0 | 6" TOI SURFA (TYPIC |

| revision | Notes | |
|---|--|------|
| | MAKE ALL OF THE APPROPRIATE BLOCK OUTS FOR GRATES, GATES AND MISC. ITEMS AS PER MANUFACTURES SPECIFICATIONS. VERIFY CONCRETE OPENING SIZE WITH GATE MANUFACTURER. PRECAST CONCRETE STRUCTURES ARE ACCEPTABLE WITH DESIGN CALCULATIONS. ALL PVC PIPE TO BE SDR 26. ALL FITTINGS TO BE MECHANICAL JOINTS. | |
| | ALL PRECAST STRUCTURES TO BE PLACED ON TOP OF 1' CRUSHED GRAVEL. | TRAN |
| O34.97 Plot: 1 = 1 D6.DWG Drawn by : J.I.R. R.M.O. Scale : AS SHOWN R.S. Date : AUGUST 2002 | | |









| Revision | Notes | |
|------------------------|---|--|
| | FOR WASTEWATER TREATMENT PLANT NODE LIST, REFER TO SHEET 3. FOR TAILWATER POND NODE LIST, REFER TO SHEET 15. | |
| | | |
| 2034.97 2034-09.DWG | Plot: 1 = 1 Drawn by : J.I.R. | |
| R.M.O. R.S. | Scale : AS SHOWN Date : AUGUST 2002 | |





Client Lengineer / IAHOKA / WWIP / 2034.97 / CADD DWGS / 2034-11 Ops building.dwg Jan 21 2004 04: 43p







| | | | PANEL SERVICE: MAINS: 40 MOUNTING: INTERRUPTIN | 2 ************************************ | | | | |
|--|--|------------------|--|--|---|--|---|--|
| CIRCUIT BREAKER | CONDUCTOR | CONDUIT | CIRCUIT | SERVES | LOAD (KVA) | CIRCUIT BREAKER | CONDUCTOR | CONDUIT |
| 20A/1P 20A/1P 20A/1P | 2-#12 + #12 GR. 2-#12 + #12 GR. | 1/2" 1/2" | 1, (3, 5) 2, (4, 6) 7, (9, 11) 8,(10,12) 13,(15) 17 14(16,18) 20(22,24) 19(21,23) PANEL | 50 HP PUMP 50 HP PUMP 20 HP PUMP 20 HP PUMP DTT - PANEL "A" SPARE NEW PIVOT EXISTING PIVOT SPACE | 54 54 22.4 22.4 5.0 10 10 10 | 125A/3P 125A/3P 60A/3P 60A/3P 15A/2P 20A/1P 40A/3P 40A/3P | 3-#4 + #6 GR. 3-#4 + #6 GR. 3-#8 + #10 GR. 3-#8 + #10 GR. 2-#12 + #12 GR. | 1 1/4" 1 1/4" 1" 1" 1/2" |
| CIRCUIT BREAKER | CONDUCTOR 2-#12 + #12 GR. | CONDUIT | CONDUIT SERVICE: 120/240, 1PH, 3W MAINS: 30A/2P MCB | | | | | |
| 20A/1P | | | | NG RATING: 10,000A | 1040 | | | |
| Ween and the sequence of the second | | | CIRCOTI | SERVES | (KVA) | BREAKER | CONDUCTOR | CONDUIT |
| 1 | | | 1 2 3-4 5-8 | TOTALIZER RECEPTACLES SPARES SPACE | .5 1.0 | 20A/1P 20A/1P 20A/1P | 2-#12 + #12 GR. 2-#12 + #12 GR. | 1/2" 1/2" |



SHEETS

| Revision | | Notes | na ann an Malana ann an Ann an Ann an Ann ann an Ann ann a |
|------------------|--|---|--|
| | | ALL ELECTRICAL WORK SHALL COMPLY WITH NEC, NFPA, ALL APPLICABLE CODES AND JURISDICTIONS. | |
| | | ALL ELECTRICAL BOXES TO BE LABELED W/ 2" X 1" BLACK PLASTIC W/ WHITE LETTERING LABELS. | OPERATIONS BUILDING, TAI |
| | | | ELECT |
| 034.97 14.DWG | Plot: 1 = 1 Drawn by : JLR | | |
| R.M.O. R.S. | Scale : AS SHOWN Date : AUGUST 2002 | | |



| GRAPHIC | SCALE | IN | FEET | |
|---------|-------|----|------|--|

| Original Surface Model: IRRIG Final Surface Model: TAIL_5 | GATION_EXISTING _29 |
|---|---|
| CUT: Raw cut volumes include the volume from existing grade to finish grade. | 7,178.00 cu yds. |
| RAW Fill Volume 25% Compaction on Fill | 4,680.26 cu yds. + 1,170.06 cu yds. |
| FILL: Raw fill volumes include the volume from existing grade to finish grade. | 5,850.32 cu yds. |
| CUT – Compacted FILL (7,178.00 – 5,850.32) | 1,327.68 cu yds. ~ EXCESS |
| CLAY LINER: Volume of liner (2' below finish grade extended to maximum water level). | 3,992.91 cu yds. |
| Assume 30% compaction for clay liner (3,992.91 x .30) | 1,197.88 cu yds. ~ DEFICIT |
| CUT – FILL Excess to be used for 30% compaction of clay liner. | 1,327.68 cu yds. ~ EXCESS - 1,197.88 cu yds. ~ DEFICIT |
| | 129.80 cu yds. ~ NET EXCESS |
| UANTITIES ARE ESTIMATED. ANY L NGINEERS ATTENTION IMMEDIATEL | DISCREPANCY SHOULD BE BROUGHT TO THE Y. |
| UANTITIES SHOWN HEREIN DO NO | T INCLUDE VOLUMES FOR CONTAINMENT DIKES. |

| and a second | Revision | | Notes | |
|--|------------------------|---|--|--|
| | | | EXISTING WELL TO BE PLUGGED AS SPECIFIED BY TNRCC. | |
| | | | | |
| | | | | |
| | | | | |
| lo. : No. : | 2034.97 2034-15.DWG | $\begin{array}{c c} Plot: & 1 = 1\\ \hline Drawn by : & J.I.R. \\ \hline \end{array}$ | | |
| | <u> </u> | Date : AUGUST 2002 | | |




April 17, 2002

TNRCC Applications Team Wastewater Permits Section (MC 148) Water Quality Division Building F. Room 2101 12100 Park 35 Circle Austin, Texas 78753

RE: City of Tahoka WWTP, TNRCC WQ Permit No. 10298-002

Dear Applications Team:

Construction of the domestic wastewater treatment facility permitted under WQ Permit No. 10298-002 was completed in March 29, 2002. The treatment facility is scheduled to receive water on April 19, 2002. This serves as the formal notice to the Texas Natural Resource Conservation Commission on the official date of operation of the Tahoka wastewater treatment plant. If you have any questions regarding this matter please feel free to call.

Sincerely,

OLLER ENGINEERING, INC.

David Esquivel, E.I.T. Project Manager

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT: City of Tahoka

PERMIT NUMBER: WQ0010298002

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

| | Y | Ν |
|------------------------------|-------------|-------------|
| Administrative Report 1.0 | \boxtimes | |
| Administrative Report 1.1 | \boxtimes | |
| SPIF | | \boxtimes |
| Core Data Form | \boxtimes | |
| Public Involvement Plan Form | \boxtimes | |
| Technical Report 1.0 | \boxtimes | |
| Technical Report 1.1 | \boxtimes | |
| Worksheet 2.0 | | \boxtimes |
| Worksheet 2.1 | | \boxtimes |
| Worksheet 3.0 | \boxtimes | |
| Worksheet 3.1 | \boxtimes | |
| Worksheet 3.2 | | \boxtimes |
| Worksheet 3.3 | | \boxtimes |
| Worksheet 4.0 | | \boxtimes |
| Worksheet 5.0 | | \boxtimes |
| Worksheet 6.0 | \boxtimes | |
| Worksheet 7.0 | | \boxtimes |
| | | |

| | Y | Ν |
|--------------------------|-------------|-------------|
| Original USGS Map | \boxtimes | |
| Affected Landowners Map | \boxtimes | |
| Landowner Disk or Labels | \boxtimes | |
| Buffer Zone Map | \boxtimes | |
| Flow Diagram | \boxtimes | |
| Site Drawing | \boxtimes | |
| Original Photographs | | \boxtimes |
| Design Calculations | \boxtimes | |
| Solids Management Plan | | \boxtimes |
| Water Balance | \boxtimes | |

For TCEQ Use Only

| Segment Number | County |
|-----------------|--------|
| Expiration Date | Region |
| Permit Number | |



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

APPLICATION FOR A DOMESTIC WASTEWATER PERMIT ADMINISTRATIVE REPORT 1.0

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

Section 1. Application Fees (Instructions Page 29)

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

| Flow | New/Major Am | endr | nent Renewal | | | |
|---|---------------------------------------|---------------|--|--|--|--|
| <0.05 MGD | \$350.00 🗆 | | \$315.00 🗆 | | | |
| ≥0.05 but <0.10 MGI | D \$550.00 🗆 | | \$515.00 | | | |
| ≥0.10 but <0.25 MGI | D \$850.00 □ | | \$815.00 | | | |
| ≥ 0.25 but < 0.50 MGI | D \$1,250.00 ⊠ | | \$1,215.00 | | | |
| ≥0.50 DUL <1.0 MGD | \$1,650.00 | | | | | |
| 21.0 MGD | \$2,050.00 | | \$2,015.00 | | | |
| Minor Amendment (for any flow) \$150.00 □ | | | | | | |
| Payment Information | n: | | | | | |
| Mailed C | Check/Money Order Number: | 10 | <u>62</u> | | | |
| C | Check/Money Order Amount: | : <u>\$35</u> | <u>.00 balance due</u> | | | |
| Ν | Name Printed on Check: <u>Civ</u> | vil 36 | <u>0, PLLC</u> | | | |
| EPAY V | oucher Number: | | ter text. | | | |
| Copy of Payme | ent Voucher enclosed? | | Yes 🖂 | | | |
| Section 2. Type | of Application (Instru | ctio | ns Page 29) | | | |
| □ New TPDES | | \boxtimes | New TLAP | | | |
| Major Amendme | nt <u>with</u> Renewal | | Minor Amendment <u>with</u> Renewal | | | |
| □ Major Amendme | nt <u>without</u> Renewal | | Minor Amendment <u>without</u> Renewal | | | |
| □ Renewal without | t changes | | Minor Modification of permit | | | |
| For amendments or modifications, describe the proposed changes: | | | | | | |
| For existing permits | | | | | | |
| Permit Number: WQ0 | 0 <u>00102</u> | | | | | |
| EPA I.D. (TPDES only) | : TX Click here to enter text. | | | | | |
| Expiration Date: | ck here to enter text. | | | | | |
| | | | | | | |

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

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

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

City of Tahoka

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

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

CN: <u>601097934</u>

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

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

First and Last Name: <u>Ronny Jolly</u>

Credential (P.E, P.G., Ph.D., etc.):

Title: <u>Mayor</u>

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

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

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

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

CN:

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

| Prefix (Mr., Ms., Miss): | |
|--------------------------------------|--|
| First and Last Name: | |
| Credential (P.E, P.G., Ph.D., etc.): | |
| Title: Click here to enter text | |

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

C. Core Data Form

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

Attachment: <u>1.0</u>

Section 4. Application Contact Information (Instructions Page 30)

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

| A. | Prefix (Mr., Ms., Miss): <u>Mr.</u> |
|----|--|
| | First and Last Name: <u>Matt Hopper</u> |
| | Credential (P.E, P.G., Ph.D., etc.): <u>P.E.</u> |
| | Title: <u>Consultant</u> |
| | Organization Name: <u>Civil 360, PLLC</u> |
| | Mailing Address: <u>8553 N. Beach Street, Suite 186</u> |
| | City, State, Zip Code: <u>Keller, TX 76244</u> |
| | Phone No.: <u>(214)</u> 773-2966 Ext.: Fax No.: <u>n/a</u> |
| | E-mail Address: <u>mhopper@civil-360.net</u> |
| | Check one or both: Administrative Contact Technical Contact |
| B. | Prefix (Mr., Ms., Miss): <u>Mr.</u> |
| | First and Last Name: <u>Derek Stephens</u> |
| | Credential (P.E, P.G., Ph.D., etc.): |
| | Title: <u>City Administrator</u> |
| | Organization Name: <u>City of Tahoka</u> |
| | Mailing Address: <u>PO Box 300</u> |
| | City, State, Zip Code: <u>Tahoka, TX 79373</u> |
| | Phone No.: <u>(806) 561</u> -4211 Ext.: Fax No.: <u>(806) 561-4444</u> |
| | E-mail Address: <u>dstephens@tahoka.org</u> |
| | Check one or both: 🛛 Administrative Contact 🗖 Technical Contact |
| | |

Section 5. Permit Contact Information (Instructions Page 30)

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

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

| | First and Last Name: <u>Matt Hopper</u> | |
|----|---|--------------------------------|
| | Credential (P.E, P.G., Ph.D., etc.): <u>P.E.</u> | |
| | Title: <u>Consultant</u> | |
| | Organization Name: <u>Civil 360, PLLC</u> | |
| | Mailing Address: <u>8553 N. Beach Street, Suite 186</u> | |
| | City, State, Zip Code: <u>Keller, TX 76244</u> | |
| | Phone No.: <u>(214) 773-2966</u> Ext.: | Fax No.: <u>n/a</u> |
| | E-mail Address: <u>mhopper@civil-360.net</u> | |
| B. | Prefix (Mr., Ms., Miss): <u>Mr.</u> | |
| | First and Last Name: <u>Ronny Jolly</u> | |
| | Credential (P.E, P.G., Ph.D., etc.): | |
| | Title: <u>Mayor</u> | |
| | Organization Name: <u>City of Tahoka</u> | |
| | Mailing Address: <u>PO Box 300</u> | |
| | City, State, Zip Code: <u>Tahoka, TX 79373</u> | |
| | Phone No.: <u>(806) 561-4211</u> Ext.: | Fax No.: <u>(806) 561-4444</u> |
| | F-mail Address: riollv@tahoka.orσ | |

Section 6. Billing Information (Instructions Page 30)

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

| Prefix (Mr., Ms., Miss): <u>Mr.</u> |
|---|
| First and Last Name: <u>Derek Stephens</u> |
| Credential (P.E, P.G., Ph.D., etc.): |
| Title: <u>City Administrator</u> |
| Organization Name: <u>City of Tahoka</u> |
| Mailing Address: <u>PO Box 300</u> |
| City, State, Zip Code: <u>Tahoka, TX 79373</u> |
| Phone No.: (806) 561-4211 Ext.: Fax No.: (806) 561-4444 |
| E-mail Address: <u>dstephens@tahoka.org</u> |

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

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

| Prefix (Mr., Ms., Miss): <u>Mr.</u> |
|---|
| First and Last Name: <u>Raymond Vega</u> |
| Credential (P.E, P.G., Ph.D., etc.): |
| Title: <u>Public Works Director</u> |
| Organization Name: <u>City of Tahoka</u> |
| Mailing Address: <u>PO Box 300</u> |
| City, State, Zip Code: <u>Tahoka, TX 79373</u> |
| Phone No.: (806) 759-1222 Ext.: Fax No.: (806) 561-4444 |
| E-mail Address: <u>rvega@tahoka.org</u> |

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

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

Section 8. Public Notice Information (Instructions Page 31)

A. Individual Publishing the Notices

| Prefix (Mr., Ms., Miss): <u>Ms.</u> |
|---|
| First and Last Name: <u>Nacona Martinez</u> |
| Credential (P.E, P.G., Ph.D., etc.): |
| Title: <u>City Secretary</u> |
| Organization Name: <u>City of Tahoka</u> |
| Mailing Address: <u>PO Box 300</u> |
| City, State, Zip Code: <u>Tahoka, TX 79373</u> |
| Phone No.: <u>(806)</u> 561-4211 Ext.: Fax No.: <u>(806)</u> 561-4444 |
| E-mail Address: nmartinez@tahoka.org |

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

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

- ⊠ E-mail Address
- □ Fax
- □ Regular Mail

C. Contact person to be listed in the Notices

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

First and Last Name: <u>Derek Stephens</u>

Credential (P.E, P.G., Ph.D., etc.):

Title: City Administrator

Organization Name: <u>City of Tahoka</u>

Phone No.: (806) 561-4211 Ext.:

E-mail: <u>dstephens@tahoka.org</u>

D. Public Viewing Information

If the facility or outfall is located in more than one county, a public viewing place for each county must be provided.

Public building name: <u>Tahoka City Hall</u>

Location within the building: Office of the City Secretary

Physical Address of Building: <u>1807 N. Main Street</u>

City: <u>Tahoka</u>

County: <u>Lynn</u>

Contact Name: <u>Nacona Martinez</u>

Phone No.: <u>(806) 561-4211</u> Ext.:

E. Bilingual Notice Requirements:

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

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

Please call the bilingual/ESL coordinator at the nearest elementary and middle schools and obtain the following information to determine whether an alternative language notices are required.

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

🖾 Yes 🖾 No

If **no**, publication of an alternative language notice is not required; **skip to** Section 9 below.

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

🖾 Yes 🗆 No

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

🗆 Yes 🖾 No

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

□ Yes ⊠ No

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

F. Public Involvement Plan Form

Complete the Public Involvement Plan Form (TCEQ Form 20960) for each application for a **new permit or major amendment to a permit** and include as an attachment.

Attachment: 2.0

Section 9. Regulated Entity and Permitted Site Information (Instructions Page 33)

A. If the site is currently regulated by TCEQ, provide the Regulated Entity Number (RN) issued to this site. **RN**<u>103138079</u>

Search the TCEQ's Central Registry at <u>http://www15.tceq.texas.gov/crpub/</u> to determine if the site is currently regulated by TCEQ.

B. Name of project or site (the name known by the community where located):

City of Tahoka Wastewater Treatment Plant

C. Owner of treatment facility: <u>City of Tahoka</u>

| | Ownership of Facility: 🛛 Public | | Private | Both | Federal |
|----|--|----------|-------------------------------------|------|---------|
| D. | Owner of land where treatment facility | ty is or | will be: | | |
| | Prefix (Mr., Ms., Miss): | | <t.< th=""><th></th><th></th></t.<> | | |
| | First and Last Name: <u>City of Tahoka</u> | | | | |
| | Mailing Address: | ext. | | | |
| | City, State, Zip Code: | | | | |
| | Phone No.: The here to enter text | E-mail | Address: | | |

If the landowner is not the same person as the facility owner or co-applicant, attach a lease agreement or deed recorded easement. See instructions.

Attachment:

E. Owner of effluent disposal site:

Prefix (Mr., Ms., Miss): First and Last Name: <u>City of Tahoka</u> Mailing Address: City, State, Zip Code: Phone No.:

E-mail Address:

If the landowner is not the same person as the facility owner or co-applicant, attach a lease agreement or deed recorded easement. See instructions.

Attachment:

F. Owner of sewage sludge disposal site (if authorization is requested for sludge disposal on property owned or controlled by the applicant):

Prefix (Mr., Ms., Miss):

First and Last Name:

Mailing Address:

City, State, Zip Code:

Phone No.:

E-mail Address:

If the landowner is not the same person as the facility owner or co-applicant, attach a lease agreement or deed recorded easement. See instructions.

Attachment:

Section 10. TPDES Discharge Information (Instructions Page 34)

A. Is the wastewater treatment facility location in the existing permit accurate?

🗆 Yes 🗆 No

If **no**, **or a new permit application**, please give an accurate description:

Not applicable for this site

B. Are the point(s) of discharge and the discharge route(s) in the existing permit correct?

| Yes | No |
|-----|----|
| | |

If **no**, **or a new or amendment permit application**, provide an accurate description of the point of discharge and the discharge route to the nearest classified segment as defined in 30 TAC Chapter 307:

Not applicable for this site

City nearest the outfall(s):

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

Outfall Latitude:

Longitude:

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



If **yes**, indicate by a check mark if:

□ Authorization granted

Authorization pending

For **new and amendment** applications, provide copies of letters that show proof of contact and the approval letter upon receipt.

Attachment:

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

Not applicable for this site

Section 11. TLAP Disposal Information (Instructions Page 36)

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

🖾 Yes 🗆 No

If **no, or a new or amendment permit application**, provide an accurate description of the disposal site location:

<u>0.3 miles east of the intersection of US Highway 87 and County Road 24, then 0.7 miles</u> south on unpaved private access road

- **B.** City nearest the disposal site: <u>City of Tahoka, TX</u>
- C. County in which the disposal site is located: Lynn
- **D.** Disposal Site Latitude: <u>33.136819</u> Longitude: <u>101.795119</u>
- E. For TLAPs, describe the routing of effluent from the treatment facility to the disposal site:

The effluent is contained in the holding pond prior to irrigation. The effluent is pumped to a center pivot for surface irrigation on non-public accessible grassland

F. For **TLAPs**, please identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained:

Double Mountain Fork Brazos River

Section 12. Miscellaneous Information (Instructions Page 37)

A. Is the facility located on or does the treated effluent cross American Indian Land?

| | Yes | \boxtimes | No |
|---|-----|-------------|-----|
| _ | 100 | | 110 |

- **B.** If the existing permit contains an onsite sludge disposal authorization, is the location of the sewage sludge disposal site in the existing permit accurate?
 - \Box Yes \Box No \boxtimes Not Applicable

If No, or if a new onsite sludge disposal authorization is being requested in this permit application, provide an accurate location description of the sewage sludge disposal site.

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

| Yes | \boxtimes | No |
|---------|-------------|-----|
| 100 | 2 | 110 |

If yes, list each person formerly employed by the TCEQ who represented your company and was paid for service regarding the application:

| D. | Do you | owe any | fees | to | the | TCEQ? |
|----|--------|---------|------|----|-----|-------|
|----|--------|---------|------|----|-----|-------|

| υ. | bo you owe any rees to the relige |
|----|---|
| | \Box Yes \boxtimes No |
| | If yes , provide the following information: |
| | Account number: Amount past due: |
| | |
| E. | Do you owe any penalties to the TCEQ? |
| | \Box Yes \boxtimes No |
| | If yes , please provide the following information: |
| | Enforcement order number: Amount past due: |
| | |

Section 13. Attachments (Instructions Page 38)

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

- □ Lease agreement or deed recorded easement, if the land where the treatment facility is located or the effluent disposal site are not owned by the applicant or co-applicant.
- Original full-size USGS Topographic Map with the following information:
 - Applicant's property boundary

- Treatment facility boundary
- Labeled point of discharge for each discharge point (TPDES only)
- Highlighted discharge route for each discharge point (TPDES only)
- Onsite sewage sludge disposal site (if applicable)
- Effluent disposal site boundaries (TLAP only)
- New and future construction (if applicable)
- 1 mile radius information
- 3 miles downstream information (TPDES only)
- All ponds.

- Attachment 1 for Individuals as co-applicants
- Other Attachments. Please specify: <u>See Attachment A for USGS Map</u>

Attachment A for USGS Map

Attachment B for Affected Landowners Map w/ Table

Attachment C for Original Photographs of irrigation area and treatment plant

Attachment D for Buffer Zone Map

Section 14. Signature Page (Instructions Page 39)

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

Permit Number: WQ0010298002

Applicant: City of Tahoka, Texas

Certification:

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

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

Signatory name (typed or printed): <u>Ronny Jolly</u>

Signatory title: Mayor

| Signature: <u>Formy g</u> (Use blue ink) | Joly D | ate: <u>5.30.3034</u> |
|---|--|--|
| Subscribed and Sworn to before on this | ore me by the said <u>May</u> day of <u>May</u> ne <u>13</u> day of <u>Jul</u> | 100, 20, 20, 20, 20, 20, 20, 20, 20, 20, |
| Notary Public Lynn County, Texas | NACONA MARTINEZ NOTARY PUBLIC STATE OF TEXAS ID # 13439883-7 My Comm. Expires 06-08-2027 | A RUNS |

Section 15. Plain Language Summary (Instructions Page 40)

If you are subject to the alternative language notice requirements in <u>30 Texas Administrative Code</u> <u>\$39,426</u>, you must provide a translated copy of the completed plain language summary in the appropriate alternative language as part of your application package</u>. For your convenience, a Spanish template has been provided below.

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

DOMESTIC WASTEWATER

The following summary is provided for this pending water quality permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 Texas Administrative Code Chapter 39. The information provided in this summary may change during the technical review of the application and are not federal enforceable representations of the permit application. The City of Tahoka (CN601097934) operates the Tahoka wastewater treatment plant RN103138079. a facultative lagoon system with land application disposal features. The facility is located 1 mile southeast of the city limits, in Tahoka, Lynn County, Texas 79373.

This new application is for land application of 360,000 gallons per day of treated domestic wastewater. This permit will not authorize a discharge of pollutants into water in the state.

Discharges from the facility are expected to contain 5-day Biochemical Oxygen Demand and a limited range of pH.Domestic wastewater will be treated by anaerobic process through a facultative lagoon and multiple holding ponds. Pre-treatment units include a manual bar screen.

SPANISH translation below

La ciudad de Tahoka (CN601097934) opera la planta de tratamiento de aguas residuales de Tahoka RN103138079. un sistema lagunar facultativo con características de disposición de aplicación terrestre. La instalación está ubicada a 1 milla al sureste de los límites de la ciudad, en Tahoka, condado de Lynn, Texas 79373.

Esta nueva solicitud es para la aplicación terrestre de 360,000 galones por día de aguas residuales domésticas tratadas. Este permiso no autorizará una descarga de contaminantes al agua del estado.

Se espera que las descargas de la instalación contengan una demanda bioquímica de oxígeno de 5 días y un rango limitado de pH. Las aguas residuales domésticas serán tratadas mediante un proceso anaeróbico a través de una laguna facultativa y múltiples estanques de retención. Las unidades de pretratamiento incluyen una criba de barras manual.

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

AGUAS RESIDUALES DOMÉSTICAS

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

Introduzca el nombre del solicitante aquí. (2. Introduzca el número de cliente aquí (es decir, CN6 ##########).)
 Elija del menú desplegable. 4. Introduzca el nombre de la instalación aquí. 5. Introduzca el número de entidad regulada aquí (es decir, RN1 #########).
 Elija del menú desplegable. 7. Introduzca la descripción de la instalación aquí. . La instalación 8. Elija del menú desplegable. ubicado 9. Introduzca la ubicación aquí. , en 10. Introduzca el nombre de la ciudad aquí. , Condado de 11. Introduzca el nombre del condado aquí. , Texas 12. Introduzca el código postal aquí. .
 Introduzca el resumen de la solicitud de solicitud aquí. <<
 Para las aplicaciones de TLAP incluya la siguiente oración, de lo contrario, elimine:>> Este permiso no autorizará una descarga de contaminantes en el agua en el estado.

Se espera que las descargas de la instalación contengan14. Liste todos los contaminantes esperados aquí. 15. Introduzca los tipos de aguas residuales descargadas aquí. 16. Elija del menú desplegable. tratado por 17. Introduzca una descripción del tratamiento de aguas residuales utilizado en la instalación aquí.

DOMESTIC ADMINISTRATIVE REPORT 1.1

The following information is required for new and amendment applications.

Section 1. Affected Landowner Information (Instructions Page 41)

- **A.** Indicate by a check mark that the landowners map or drawing, with scale, includes the following information, as applicable:
 - ☑ The applicant's property boundaries
 - The facility site boundaries within the applicant's property boundaries
 - The distance the buffer zone falls into adjacent properties and the property boundaries of the landowners located within the buffer zone
 - The property boundaries of all landowners surrounding the applicant's property (Note: if the application is a major amendment for a lignite mine, the map must include the property boundaries of all landowners adjacent to the new facility (ponds).)
 - □ The point(s) of discharge and highlighted discharge route(s) clearly shown for one mile downstream
 - The property boundaries of the landowners located on both sides of the discharge route for one full stream mile downstream of the point of discharge
 - The property boundaries of the landowners along the watercourse for a one-half mile radius from the point of discharge if the point of discharge is into a lake, bay, estuary, or affected by tides
 - The boundaries of the effluent disposal site (for example, irrigation area or subsurface drainfield site) and all evaporation/holding ponds within the applicant's property
 - The property boundaries of all landowners surrounding the effluent disposal site
 - □ The boundaries of the sludge land application site (for land application of sewage sludge for beneficial use) and the property boundaries of landowners surrounding the applicant's property boundaries where the sewage sludge land application site is located
 - □ The property boundaries of landowners within one-half mile in all directions from the applicant's property boundaries where the sewage sludge disposal site (for example, sludge surface disposal site or sludge monofill) is located
- **B.** Indicate by a check mark that a separate list with the landowners' names and mailing addresses cross-referenced to the landowner's map has been provided.
- C. Indicate by a check mark in which format the landowners list is submitted:
 - \boxtimes USB Drive \square Four sets of labels
- **D.** Provide the source of the landowners' names and mailing addresses: <u>Lynn County Appraisal</u> <u>District, 1615 Main St, Tahoka TX, 79373, data compiled 5/20/2024</u>
- **E.** As required by *Texas Water Code § 5.115*, is any permanent school fund land affected by this application?
 - 🗆 Yes 🖾 No

If **yes**, provide the location and foreseeable impacts and effects this application has on the land(s):

Section 2. Original Photographs (Instructions Page 44)

Provide original ground level photographs. Indicate with checkmarks that the following information is provided.

- At least one original photograph of the new or expanded treatment unit location
- At least two photographs of the existing/proposed point of discharge and as much area downstream (photo 1) and upstream (photo 2) as can be captured. If the discharge is to an open water body (e.g., lake, bay), the point of discharge should be in the right or left edge of each photograph showing the open water and with as much area on each respective side of the discharge as can be captured.
- At least one photograph of the existing/proposed effluent disposal site
- □ A plot plan or map showing the location and direction of each photograph

Section 3. Buffer Zone Map (Instructions Page 44)

- **A.** Buffer zone map. Provide a buffer zone map on 8.5 x 11-inch paper with all of the following information. The applicant's property line and the buffer zone line may be distinguished by using dashes or symbols and appropriate labels.
 - The applicant's property boundary;
 - The required buffer zone; and
 - Each treatment unit; and
 - The distance from each treatment unit to the property boundaries.
- **B.** Buffer zone compliance method. Indicate how the buffer zone requirements will be met. Check all that apply.
 - ⊠ Ownership
 - □ Restrictive easement
 - □ Nuisance odor control
 - □ Variance
- **C.** Unsuitable site characteristics. Does the facility comply with the requirements regarding unsuitable site characteristic found in 30 TAC § 309.13(a) through (d)?



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

FOR AGENCIES REVIEWING DOMESTIC TPDES WASTEWATER PERMIT APPLICATIONS

| TCEQ USE ONLY: | |
|-------------------------------------|------------------------------|
| Application type:RenewalMajor A | mendmentMinor AmendmentNew |
| 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)

The SPIF must be completed as a separate document. The TCEQ will mail a copy of the SPIF to each agency as required by the TCEQ agreement with EPA. If any of the items are not completely addressed or further information is needed, you will be contacted to provide the information before the permit is issued. Each item must be completely addressed.

Do not refer to a response of any item in the permit application form. Each attachment must be provided with this form separately from the administrative report of the application. The application will not be declared administratively complete without this form being completed in its entirety including all attachments.

The following applies to all applications:

1. Permittee:

Permit No. WQ00

EPA ID No. TX

Address of the project (or a location description that includes street/highway, city/vicinity, and 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): |
|--------------------------------------|
| First and Last Name: |
| Credential (P.E, P.G., Ph.D., etc.): |
| Title: Click here to enter text |
| Mailing Address: |
| City, State, Zip Code: |
| Phone No.: Ext.: Fax No.: |
| E-mail Address: |
| |

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

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

7. <u>Describe existing disturbances, vegetation, and land use:</u>

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

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

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

WATER QUALITY PERMIT

PAYMENT SUBMITTAL FORM

Use this form to submit the Application Fee, if the mailing the payment.

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

BY OVERNIGHT/EXPRESS MAIL

Mail this form and the check or money order to:

BY REGULAR U.S. MAIL

| Texas Commission on Environmental Quality | Texas Commission on Environmental Quality |
|---|---|
| Financial Administration Division | Financial Administration Division |
| Cashier's Office, MC-214 | Cashier's Office, MC-214 |
| P.O. Box 13088 | 12100 Park 35 Circle |
| Austin, Texas 78711-3088 | Austin, Texas 78753 |

Fee Code: WQPWaste Permit No: WQ 0010298002

- 1. Check or Money Order Number: <u>1062</u>
- 2. Check or Money Order Amount: <u>\$ 35.00</u>
- 3. Date of Check or Money Order: <u>5/24/2024</u>
- 4. Name on Check or Money Order: <u>TCEO</u>
- 5. APPLICATION INFORMATION

Name of Project or Site: City of Tahoka Wastewater Treatment Plant

Physical Address of Project or Site: n/a

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

Staple Check or Money Order in This Space

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ATTACHMENT 1

INDIVIDUAL INFORMATION

Section 1. Individual Information (Instructions Page 50)

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

| Prefix (Mr., Ms., Miss): |
|--|
| Full legal name (first, middle, last): |
| Driver's License or State Identification Number: |
| Date of Birth: |
| Mailing Address: |
| City, State, and Zip Code: |
| Phone Number: Fax Number: |
| E-mail Address: |
| CN: Click here to enter text |
| For Commission Use Only: |
| Customer Number: |
| Regulated Entity Number: |
| Permit Number: |

CHECKLIST OF COMMON DEFICIENCIES

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

| Core Data Form (TCEQ Form No. 10400) (Paguired for all applications types. Must be completed in its antiraty and signed | Yes |
|--|-----|
| Note: Form may be signed by applicant representative.) | |
| Correct and Current Industrial Wastewater Permit Application Forms (TCEQ Form Nos. 10053 and 10054. Version dated 6/25/2018 or later.) | Yes |
| Water Quality Permit Payment Submittal Form (Page 19) (Original payment sent to TCEQ Revenue Section. See instructions for mailing address.) | Yes |
| 7.5 Minute USGS Quadrangle Topographic Map Attached (Full-size map if seeking "New" permit. 8 ½ x 11 acceptable for Renewals and Amendments) | Yes |
| Current/Non-Expired, Executed Lease Agreement or Easement Attached 🔲 N/A | Yes |
| Landowners Map \square N/A (See instructions for landowner requirements) | Yes |

Things to Know:

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

| Landowners Cross Reference List (See instructions for landowner requirements) | | N/A | Yes |
|--|---------|-----|-----|
| Landowners Labels or USB Drive attached (See instructions for landowner requirements) | | N/A | Yes |
| Original signature per 30 TAC § 305.44 – Blue Ink Preferred (If signature page is not signed by an elected official or principle executive a copy of signature authority/delegation letter must be attached) | officer | 3 | Yes |



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

DOMESTIC TECHNICAL REPORT 1.0

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

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

A. Existing/Interim I Phase

Design Flow (MGD): <u>0.36</u> 2-Hr Peak Flow (MGD): <u>0.50</u> Estimated construction start date: <u>n/a</u> Estimated waste disposal start date: <u>n/a</u>

B. Interim II Phase

Design Flow (MGD): <u>n/a</u> 2-Hr Peak Flow (MGD): Estimated construction start date: Estimated waste disposal start date:

C. Final Phase

Design Flow (MGD): <u>n/a</u> 2-Hr Peak Flow (MGD): Estimated construction start date: Estimated waste disposal start date:

D. Current operating phase: Existing

Provide the startup date of the facility:

Section 2. Treatment Process (Instructions Page 51)

A. Treatment process description

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 in the permit, a description of** *each phase* **must be provided**. Process description:

The treatment plant is a pond system. The City's wastewater is treated by a facultative lagoon. Effluent is stored in two holding ponds prior to irrigation of grassland.

Port or pipe diameter at the discharge point, in inches: n/a

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**.

| Treatment Unit Type | Number of | Dimensions (L x W x D) | | | |
|---------------------------------------|-----------|----------------------------------|--|--|--|
| | Units | | | | |
| Facultative Lagoon (aerobic end) | 1 | 270' x 810' x 6'-9' @ freeboard | | | |
| Facultative Lagoon (anaerobic end) | 1 | 12' deep @ freeboard | | | |
| Holding Pond #1 | 1 | 385' x 225' x 12' @ 2' freeboard | | | |
| Holding Pond #2 | 1 | 420' x 265' x 12' @ 2' freeboard | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Table 1.0(1) – Treatment Units

C. Process flow diagrams

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

Attachment: <u>See Attachment E</u>

Section 3. Site Drawing (Instructions Page 52)

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

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

Attachment: <u>See Attachment F</u>

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

The area served by the treatment facility is the City Limits of the City of Tahoka and its extra-territorial jurisdiction.

Section 4. Unbuilt Phases (Instructions Page 52)

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.

| Click here to enter text. | |
|---------------------------|--|
| | |
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Section 5. Closure Plans (Instructions Page 53)

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

Yes \Box No \boxtimes

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

Yes □ No □

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

Section 6. Permit Specific Requirements (Instructions Page 53)

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 \boxtimes No \square

If yes, provide the date(s) of approval for each phase: June 21, 2001

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.

B. Buffer zones

Have the buffer zone requirements been met?

Yes \boxtimes No \square

Provide information below, including dates, on any actions taken to meet the conditions of the buffer zone. If available, provide any new documentation relevant to maintaining the buffer zones.

The east buffer zone encroaches on adjoining property after a 150' railroad easement was abandoned and one-half of the easement transferred to each adjoining landowner. The original permit issuance satisfied the buffer zone requirements with the easement in place.

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*.

Annual soil monitoring from representative samples – last sample collection taken 3/23/2023 and results are provided with this application.

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 \Box No \boxtimes

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.

3. Grit disposal

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

Yes □ No ⊠

If No, contact the TCEQ Municipal Solid Waste team at 512-239-0000. Note: A registration or permit is required for grit disposal. Grit shall not be combined with treatment plant sludge. See the instruction booklet for additional information on grit disposal requirements and restrictions.

Describe the method of grit disposal.

4. Grease and decanted liquid disposal

Note: A registration or permit is required for grease disposal. Grease shall not be combined with treatment plant sludge. For more information, contact the TCEQ Municipal Solid Waste team at 512-239-0000.

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

E. Stormwater management

1. Applicability

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

Yes \Box No \boxtimes

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

Yes \Box No \boxtimes

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 or TXRNE

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

Yes \Box No \Box

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:

here to enter tex

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.

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.

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.

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 \Box No \Box

If yes, a Sewage Sludge Solids Management Plan is required. See Example 5 in the instructions.

G. Other wastes received including sludge from other WWTPs and septic waste

1. Acceptance of sludge from other WWTPs

Does the facility accept or will it accept sludge from other treatment plants at the facility site?

Yes □ No □

If yes, attach sewage sludge solids management plan. See Example 5 of the instructions.

In addition, provide the date that the plant started accepting sludge or is anticipated to start accepting sludge, an estimate of monthly sludge acceptance (gallons or millions of gallons), an estimate of the BOD₅

concentration of the sludge, and the design BOD₅ concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.

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

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 \Box No \Box

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

Yes □ No □

If yes to any of the above, provide a the date that the plant started accepting septic waste, or is anticipated to start accepting septic waste, an estimate of monthly septic waste acceptance (gallons or millions of gallons), an estimate of the BOD₅ concentration of the septic waste, and the design BOD₅ concentration of the influent from the collection system. Also note if

this information has or has not changed since the last permit action.

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

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

Is the facility accepting or will it accept wastes that are not domestic in nature excluding the categories listed above?

 $Yes \Box \qquad No \boxtimes$

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.

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

Is the facility in operation? Yes \boxtimes No \square

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

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

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

| Pollutant | Average | Max | No. of | Sample | Sample |
|--------------------------------------|---------|-------|---------|--------|-----------|
| | Conc. | Conc. | Samples | Туре | Date/Time |
| CBOD ₅ , mg/l | 22.3 | 22.3 | 1 | Grab | 2/22/24 |
| | | | | | 8:51 am |
| Total Suspended Solids, mg/l | 46.7 | 46.7 | 1 | Grab | same |
| Ammonia Nitrogen, mg/l | 9.65 | 9.65 | 1 | Grab | same |
| Nitrate Nitrogen, mg/l | <1.0 | <1.0 | 1 | Grab | same |
| Total Kjeldahl Nitrogen, mg/l | 128 | 128 | 1 | Grab | same |
| Sulfate, mg/l | 150 | 150 | 1 | Grab | same |
| Chloride, mg/l | 430 | 430 | 1 | Grab | same |
| Total Phosphorus, mg/l | 4.92 | 4.92 | 1 | Grab | same |
| pH, standard units | 7.70 | 7.70 | 1 | Grab | same |
| Dissolved Oxygen*, mg/l | | | | | |
| Chlorine Residual, mg/l | N/D | N/D | 1 | Grab | same |
| <i>E.coli</i> (CFU/100ml) freshwater | | | | | |

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

Page 11 of 79
| Dollutant | Average | Max | No. of | Sample | Sample |
|--|---------|-------|---------|--------|-----------|
| ronutant | Conc. | Conc. | Samples | Туре | Date/Time |
| Entercocci (CFU/100ml) | | | | | |
| saltwater | | | | | |
| Total Dissolved Solids, mg/l | 1240 | 1240 | 1 | Grab | same |
| Electrical Conductivity, | 2300 | 2300 | 1 | Grab | same |
| µmohs/cm, † | | | | | |
| Oil & Grease, mg/l | | | | | |
| Alkalinity (CaCO ₃)*, mg/l | | | | | |

*TPDES permits only

†TLAP permits only

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

| Dollutant | Average | Max | No. of | Sample | Sample |
|---------------------------------------|---------|-------|---------|--------|-----------|
| Pollulalli | Conc. | Conc. | Samples | Туре | Date/Time |
| Total Suspended Solids, mg/l | N/A | | | | |
| Total Dissolved Solids, mg/l | N/A | | | | |
| pH, standard units | N/A | | | | |
| Fluoride, mg/l | N/A | | | | |
| Aluminum, mg/l | N/A | | | | |
| Alkalinity (CaCO ₃), mg/l | N/A | | | | |

Section 8. Facility Operator (Instructions Page 60)

Facility Operator Name: <u>Raymond Vega</u>

Facility Operator's License Classification and Level: <u>Wastewater Operator D</u>

Facility Operator's License Number: <u>WW0002567</u>

Section 9. Sewage Sludge Management and Disposal (Instructions

Page 60)

A. Sludge disposal method

Identify the current or anticipated sludge disposal method or methods from the following list. Check all that apply.

- □ Permitted landfill
- □ Permitted or Registered land application site for beneficial use
- □ Land application for beneficial use authorized in the wastewater permit
- □ Permitted sludge processing facility
- □ Marketing and distribution as authorized in the wastewater permit
- □ Composting as authorized in the wastewater permit
- □ Permitted surface disposal site (sludge monofill)
- Surface disposal site (sludge monofill) authorized in the wastewater permit
- □ Transported to another permitted wastewater treatment plant or permitted sludge processing facility. If you selected this method, a written statement or contractual agreement from the wastewater treatment plant or permitted sludge processing facility accepting the sludge must be included with this application.
- Other: <u>Not applicable due to a facultative lagoon treatment system</u>

B. Sludge disposal site

| Disposal site name: | text. |
|--|---------------------------|
| TCEQ permit or registration number: | lick here to enter text. |
| County where disposal site is located: | Click here to enter text. |

C. Sludge transportation method

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

Name of the hauler:

Hauler registration number:

Sludge is transported as a:

Liquid \Box semi-liquid \Box semi-solid \Box solid \Box

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

A. Beneficial use authorization

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

Yes \Box No \boxtimes

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 61)

Does this facility include sewage sludge lagoons?

Yes \Box No \boxtimes

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:

• USDA Natural Resources Conservation Service Soil Map:

Attachment:

• Federal Emergency Management Map:

Attachment:

• Site map:

| Attachmont | | | |
|------------|--|--|--|
| Анасишени | | | |
| | | | |

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
- $\hfill\square$ Soils with flooding classification
- □ Overlap an unstable area
- □ Wetlands
- \Box Located less than 60 meters from a fault
- \Box None of the above

Attachment:

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:

B. Temporary storage information

Provide the results for the pollutant screening of sludge lagoons. These results are in addition to pollutant results in Section 7 of Technical Report 1.0.

Nitrate Nitrogen, mg/kg:

| Total Kjeldahl Nitrogen, mg/kg: |
|--|
| Total Nitrogen (=nitrate nitrogen + TKN), mg/kg: |
| Phosphorus, mg/kg: |
| Potassium, mg/kg: |
| pH, standard units: |
| Ammonia Nitrogen mg/kg: |
| Arsenic: lick here to enter text |
| Cadmium: Citch here to enter text |
| Chromium: |
| Copper: Content of the second se |
| Lead: Click here to enter text |
| Mercury: Click here to enter fext |
| Molybdenum: |
| Nickel: Click here to enter text |
| Selenium: Click here to enter text |
| Zinc: Click here to enter text |
| Total PCBs: Click here to enter text |
| Provide the following information: Volume and frequency of sludge to the lagoon(s): |
| Total dry tons stored in the lagoons(s) per 365-day period: |
| Total dry tons stored in the lagoons(s) over the life of the unit: |
| C. Liner information |
| Does the active/proposed sludge lagoon(s) have a liner with a maximum hydraulic conductivity of 1×10^{-7} cm/sec? Yes \Box No \Box |

If yes, describe the liner below. Please note that a liner is required.

D. Site development plan

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

Attach the following documents to the application.

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

Attachment:

• Copy of the closure plan

Attachment:

• Copy of deed recordation for the site

Attachment:

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

Attachment:

• Description of the method of controlling infiltration of groundwater and surface water from entering the site

Attachment:

• Procedures to prevent the occurrence of nuisance conditions

Attachment:

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:

Section 12. Authorizations/Compliance/Enforcement (Instructions Page 63)

A. Additional authorizations

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

Yes □ No ⊠

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

B. Permittee enforcement status

Is the permittee currently under enforcement for this facility?

Yes \Box No \boxtimes

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

 $Yes \Box \quad No \boxtimes$

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

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

A. RCRA hazardous wastes

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

Yes \Box No \boxtimes

B. Remediation activity wastewater

Has the facility received in the past three years, does it currently receive, or will

Page 18 of 79

it receive CERCLA wastewater, RCRA remediation/corrective action wastewater or other remediation activity wastewater?

Yes \Box No \boxtimes

C. Details about wastes received

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

Attachment:

Section 14. Laboratory Accreditation (Instructions Page 64)

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

- The laboratory is an in-house laboratory and is:
 - 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: <u>Ronny Jolly</u>

Title: <u>Mayor</u>

Signature: Kom Q. Date:

DOMESTIC TECHNICAL REPORT 1.1

The following is required for new and amendment applications

Section 1. Justification for Permit (Instructions Page 66)

A. Justification of permit need

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

The proposed permit will serve the entire city limits of the City of Tahoka. This 'new' permit is being requested due to the expiration of the original permit.

B. Regionalization of facilities

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

1. Municipally incorporated areas

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

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

Yes ■ No □ Not Applicable □

If yes, within the city limits of: <u>Tahoka</u>

If yes, attach correspondence from the city.

Attachment: <u>See exception request in cover letter</u>

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

Attachment:

2. Utility CCN areas

Page 21 of 79

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

Yes □ No ■

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

Attachment:

3. Nearby WWTPs or collection systems

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

Yes 🗆 🛛 No 🗖

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

Attachment:

If yes, attach copies of your certified letters to these facilities **and** their response letters concerning connection with their system.

Attachment:

Does a permitted domestic wastewater treatment facility or a collection system located within three (3) miles of the proposed facility currently have the capacity to accept or is willing to expand to accept the volume of wastewater proposed in this application?

Yes 🗆 🛛 No 🗖

If yes, attach an analysis of expenditures required to connect to a permitted wastewater treatment facility or collection system located within 3 miles versus the cost of the proposed facility or expansion.

Attachment:

Section 2. Organic Loading (Instructions Page 67)

Is this facility in operation?

Yes 🗖 No 🗆

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

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

A. Current organic loading

Facility Design Flow (flow being requested in application): <u>0.360 MGD</u>

Average Influent Organic Strength or BOD_5 Concentration in mg/l: <u>80.1</u>

Average Influent Loading (lbs/day = total average flow X average BOD₅ conc. X 8.34): 240

Provide the source of the average organic strength or BOD₅ concentration. Single grab sample taken May 15 2024. See Attachment S.

B. Proposed organic loading

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

| Source | Total Average Flow (MGD) | Influent BOD ₅ Concentration (mg/l) |
|--------------------------------------|-----------------------------|---|
| Municipality | See exception request | in cover letter |
| Subdivision | | |
| Trailer park - transient | | |
| Mobile home park | | |
| School with cafeteria and showers | | |
| School with cafeteria, no showers | | |
| Recreational park, | | |

Table 1.1(1) – Design Organic Loading

| Source | Total Average Flow | Influent BOD ₅ |
|-----------------------------------|--------------------|---------------------------|
| | (MGD) | Concentration (mg/l) |
| overnight use | | |
| Recreational park, day | | |
| use | | |
| Office building or | | |
| factory | | |
| Motel | | |
| Restaurant | | |
| Hospital | | |
| Nursing home | | |
| Other | | |
| TOTAL FLOW from all | 0.360 MGD | |
| sources | | |
| AVERAGE BOD ₅ from all | | 80.1 mg/l |
| sources | | |

Section 3. Proposed Effluent Quality and Disinfection (Instructions Page 68)

A. Existing/Interim I Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: <u>100</u>

Total Suspended Solids, mg/l: <u>n/a</u>

Ammonia Nitrogen, mg/l: <u>n/a</u>

Total Phosphorus, mg/l: <u>n/a</u>

Dissolved Oxygen, mg/l: <u>n/a</u>

Other: <u>pH 6.0-9.0</u>

| B. Interim II Phase Design Effluent Quality |
|---|
| Biochemical Oxygen Demand (5-day), mg/l: |
| Total Suspended Solids, mg/l: |
| Ammonia Nitrogen, mg/l: |
| Total Phosphorus, mg/l: |
| Dissolved Oxygen, mg/l: |
| Other: Click here to enter text |
| C. Final Phase Design Effluent Quality Biochemical Oxygen Demand (5-day), mg/l: |
| Total Suspended Solids, mg/l: |
| Ammonia Nitrogen, mg/l: |
| Total Phosphorus, mg/l: |
| Dissolved Oxygen, mg/l: |
| Other: |

D. Disinfection Method

Identify the proposed method of disinfection.

- Chlorine: mg/l after
 minutes detention time at peak flow
 Dechlorination process:
- Ultraviolet Light: seconds contact time at peak flow
- □ Other:

Section 4. Design Calculations (Instructions Page 68)

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

Attachment: See Attachment G

Section 5. Facility Site (Instructions Page 68)

A. 100-year floodplain

Will the proposed facilities be located <u>above</u> the 100-year frequency flood level?

Yes 📕 No 🗆

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

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

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

Yes \Box No \Box

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

Yes □ No □

If yes, provide the permit number:

If no, provide the approximate date you anticipate submitting your application to the Corps:

B. Wind rose

Attach a wind rose. Attachment: See Attachment H

Section 6. Permit Authorization for Sewage Sludge Disposal (Instructions Page 69)

A. Beneficial use authorization

Are you requesting to include authorization to land apply sewage sludge for beneficial use on property located adjacent to the wastewater treatment facility under the wastewater permit? Yes 🗆 🛛 No 🗖

If yes, attach the completed Application for Permit for Beneficial Land Use of Sewage Sludge (TCEQ Form No. 10451)

Attachment:

B. Sludge processing authorization

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

- □ Sludge Composting
- □ Marketing and Distribution of sludge
- □ Sludge Surface Disposal or Sludge Monofill

If any of the above sludge options are selected, attach a completed DOMESTIC WASTEWATER PERMIT APPLICATION: SEWAGE SLUDGE TECHNICAL REPORT (TCEQ Form No. 10056).

Attachment:

Section 7. Sewage Sludge Solids Management Plan (Instructions Page 69)

Attach a solids management plan to the application. Attachment:

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

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

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

DOMESTIC WORKSHEET 3.0

LAND DISPOSAL OF EFFLUENT

The following is required for all permit applications

Renewal, New, and Amendments

Section 1. Type of Disposal System (Instructions Page 77)

Identify the method of land disposal:

| \boxtimes | Surface application | | Subsurface application | | |
|-------------|---|--|---------------------------------------|--|--|
| | Irrigation | | Subsurface soils absorption | | |
| | Drip irrigation system | | Subsurface area drip dispersal system | | |
| | Evaporation | | | | |
| | Evapotranspiration beds | | | | |
| | Other (describe in detail): | | ere to enter text. | | |
| NOT subs | NOTE: All applicants without authorization or proposing new/amended subsurface disposal MUST complete and submit Worksheet 7.0. | | | | |

For existing authorizations, provide Registration Number:

Section 2. Land Application Site(s) (Instructions Page 77)

In table 3.0(1), provide the requested information for the land application sites. Include the agricultural or cover crop type (wheat, cotton, alfalfa, bermuda grass, native grasses, etc.), land use (golf course, hayland, pastureland, park, row crop, etc.), irrigation area, amount of effluent applied, and whether or not the public has access to the area. Specify the amount of land area and the amount of effluent that will be allotted to each agricultural or cover crop, if more than one crop will be used.

| | Irrigation | Effluent | Public |
|--------------------------------------|------------|-------------|---------|
| Crop Type & Land Use | Area | Application | Access? |
| | (acres) | (GPD) | Y/N |
| Bermuda grass, pastureland (Mar-Oct) | 143 | 360,000 | Ν |

Table 3.0(1) - Land Application Site Crops

| | Irrigation | Effluent | Public |
|---------------------------------------|------------|-------------|---------|
| Crop Type & Land Use | Area | Application | Access? |
| | (acres) | (GPD) | Y/N |
| Bermuda grass, pastureland (Nov-Feb) | 123.7 | 306,000 | Ν |
| Winer ryegrass, pastureland (Nov-Feb) | 19.3 | 54,000 | Ν |
| | | | |

Section 3. Storage and Evaporation Lagoons/Ponds (Instructions Page 77)

Table 3.0(2) - Storage and Evaporation Ponds

| Pond Number | Surface Area (acres) | Storage Volume (acre-feet) | Dimensions | Liner Type |
|----------------|----------------------------|----------------------------------|----------------|---------------|
| | | | | |
| Facultative | 6.049 | 32.83 | 270' x 810' | 24" Soil/Clay |
| Lagoon | | | 6' – 12' depth | |
| Holding #1 | 1.989 | 15.10 | 385'x225'x12' | 24" Soil/Clay |
| Holding #2 | 2.555 | 20.66 | 420'x265'x12' | 24" Soil/Clay |

Attach a copy of a liner certification that was prepared, signed, and sealed by a Texas licensed professional engineer for each pond.

Attachment: Not available; presumed April 2002 based on records. See

exception request in cover letter.

Section 4. Flood and Runoff Protection (Instructions Page 77)

Is the land application site within the 100-year frequency flood level?

Yes □ No □ **<u>Unknown</u>

If yes, describe how the site will be protected from inundation.

The walls of the facultative pond and holding ponds are earthen berms that are at least two (2) feet above natural grade.

Provide the source used to determine the 100-year frequency flood level:

Unknown, the subject area remains unmapped by FEMA

Provide a description of tailwater controls and rainfall run-on controls used for the land application site.

Runoff from the irrigation site will be contained in a tailwater pond. A pump is used to return excessive stormwater to the holding ponds upon reaching a certain level in this tailwater pond. Stormwater runon is diverted away from the irrigation site by a small diversion berm.

Section 5. Annual Cropping Plan (Instructions Page 77)

Attach an Annual Cropping Plan which includes a discussion of each of the following items. If not applicable, provide a detailed explanation indicating why.

Attachment: See Attachment I

- Soils map with crops
- Cool and warm season plant species
- Crop yield goals
- Crop growing season
- Crop nutrient requirements
- Additional fertilizer requirements
- Minimum/maximum harvest height (for grass crops)
- Supplemental watering requirements
- Crop salt tolerances
- Harvesting method/number of harvests
- Justification for not removing existing vegetation to be irrigated

Section 6. Well and Map Information (Instructions Page 78)

Attach a USGS map with the following information shown and labeled. If not applicable, provide a detailed explanation (on a separate page) indicating why.

Attachment: See Attachment J

- The boundaries of the land application site(s)
- Waste disposal or treatment facility site(s)
- On-site buildings
- Buffer zones
- Effluent storage and tailwater control facilities
- All water wells within 1 mile of the disposal site or property boundaries
- All springs and seeps onsite and within 500 feet of the property boundaries
- All surface waters in the state onsite and within 500 feet of the property boundaries
- All faults and sinkholes onsite and within 500 feet of the property

List and cross reference all water wells shown on the USGS map in the following table. Attach additional pages as necessary to include all of the wells.

| Table | 3.0(3) - | Water | Well Data |
|-------|----------|---------|-----------|
| INDIC | 510(5) | " viter | n ch Dutu |

| Well ID | Well Use | Producing? Y/N | Open, cased, capped, or plugged? | Proposed Best Management Practice |
|---------|----------|-------------------|--|-----------------------------------|
| | | | | |
| | | | | |

If water quality data or well log information is available please include the information in an attachment listed by Well ID.

Attachment: See Attachment K for all well ID information

Section 7. Groundwater Quality (Instructions Page 79)

Attach a Groundwater Quality Technical Report which assesses the impact of the wastewater disposal system on groundwater. This report shall include an evaluation of the water wells (including the information in the well table provided in Item 6. above), the wastewater application rate, and pond liners. Indicate by a check mark that this report is provided.

Attachment: <u>See Attachment L</u>

Are groundwater monitoring wells available onsite? Yes \Box No \boxtimes

Do you plan to install ground water monitoring wells or lysimeters around the land application site? Yes \Box No \boxtimes

If yes, then provide the proposed location of the monitoring wells or lysimeters on a site map.

Attachment:

Section 8. Soil Map and Soil Analyses (Instructions Page 79)

A. Soil map

Attach a USDA Soil Survey map that shows the area to be used for effluent disposal.

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

B. Soil analyses

Attach the laboratory results sheets from the soil analyses. **Note**: for renewal applications, the current annual soil analyses required by the permit are acceptable as long as the test date is less than one year prior to the submission of the application.

Attachment: \underline{N}

List all USDA designated soil series on the proposed land application site. Attach additional pages as necessary.

| | Depth | | Available | Curve |
|-------------------------|---------|--------------|-----------|--------|
| Soil Series | from | Permeability | Water | Number |
| | Surface | | Capacity | |
| Acuff loam | 0-18 in | 1.276 in/hr | 0.17 | B 61 |
| | | | | |
| Estacado loam | 0-18 in | 0.959 in/hr | 0.15 | B 61 |
| Lenorah-Hindman complex | 0-18 in | 2.446 in/hr | 0.11 | C 74 |
| Potter soils | 0-18 in | 1.069 in/hr | 0.12 | C 74 |
| Portales loam | 0-18 in | 1.276 in/hr | 0.15 | B 61 |
| | | | | |

Table 3.0(4) – Soil Data

Section 9. Effluent Monitoring Data (Instructions Page 80)

Is the facility in operation? Yes \boxtimes No \square

If no, this section is not applicable and the worksheet is complete.

If yes, provide the effluent monitoring data for the parameters regulated in the existing permit. If a parameter is not regulated in the existing permit, enter N/A.

| Date | 30 Day Avg Flow MGD | BOD5 mg/l | TSS mg/l | рН | Chlorine Residual mg/l | Acres irrigated |
|-----------|------------------------------|--------------|-------------|------|------------------------------|--------------------|
| Jan 2022 | - | 21 | 52 | 7.81 | n/a | 129.75 |
| Feb 2022 | - | 34 | 51 | 8.32 | n/a | 129.75 |
| Mar 2022 | - | 33 | 66 | 8.6 | n/a | 129.75 |
| Apr 2022 | - | 20 | 72 | 7.89 | n/a | 129.75 |
| May 2022 | - | 77 | 64 | 8.84 | n/a | 129.75 |
| June 2022 | - | 42 | 88 | 9.1 | n/a | 129.75 |
| July 2022 | 0.124 | 51 | 67 | 9.0 | n/a | 129.75 |
| Aug 2022 | 0.214 | 60.8 | 53 | 8.3 | n/a | 129.75 |
| Sept 2022 | 0.117 | 64.8 | 79 | 8.8 | n/a | 129.75 |
| Oct 2022 | 0.125 | 58.2 | 62 | 8.0 | n/a | 129.75 |
| Nov 2022 | 0.119 | 62.5 | 82 | 7.4 | n/a | 129.75 |
| Dec 2022 | 0.104 | 63.6 | 86 | 8.0 | n/a | 129.75 |
| Jan 2023 | 0.106 | < 2.0 | 86 | 8.3 | n/a | 129.75 |
| Feb 2023 | 0.094 | 31.2 | 64 | 7.5 | n/a | 129.75 |
| Mar 2023 | 0.089 | 31.6 | 40 | 7.5 | n/a | 129.75 |
| Apr 2023 | 0.101 | 52.0 | 159 | 8.8 | n/a | 129.75 |
| May 2023 | 0.109 | 38.5 | 121 | 9.0 | n/a | 129.75 |

Table 3.0(5) - Effluent Monitoring Data

| Date | 30 Day Avg Flow MGD | BOD5 mg/l | TSS mg/l | рН | Chlorine Residual mg/l | Acres irrigated |
|-----------|------------------------------|--------------|-------------|-----|------------------------------|--------------------|
| June 2023 | 0.130 | 21.7 | 76.0 | 9.1 | n/a | 129.75 |
| July 2023 | 0.160 | 34.0 | 96.7 | 9.0 | n/a | 129.75 |
| Aug 2023 | 0.134 | 20.9 | 82.7 | 8.9 | n/a | 129.75 |
| Sep 2023 | 0.129 | 23.7 | 76.0 | 8.8 | n/a | 129.75 |
| Oct 2023 | 0.118 | 31.5 | 82.0 | 8.5 | n/a | 129.75 |
| Nov 2023 | 0.110 | 36.7 | 69.0 | 7.8 | n/a | 129.75 |
| Dec 2023 | 0.101 | 26.2 | 80.0 | 7.5 | n/a | 129.75 |

Provide a discussion of all persistent excursions above the permitted limits and any corrective actions taken.

See Attachment O for monthly records of daily meter logs. See Attachment P for chain of custody and original laboratory results.

DOMESTIC WORKSHEET 3.1

SURFACE LAND DISPOSAL OF EFFLUENT

The following is required for new and major amendment applications. Renewal and minor amendments applicants may be asked for the worksheet on a case by case basis.

Section 1. Surface Disposal (Instructions Page 81)

Complete the item that applies for the method of disposal being used.

A. Irrigation

Area under irrigation, in acres: <u>143</u>

Design application frequency:

hours/day 24.0 And days/week Four (4)

Land grade (slope):

average percent (%):<u>2%</u>

maximum percent (%):<u>3%</u>

Design application rate in acre-feet/acre/year: <u>5.76</u>

Design total nitrogen loading rate, in lbs N/acre/year: <u>313.2</u>

Soil conductivity (mmhos/cm): <u>1.05 (max from samples)</u>

Method of application: <u>Center Pivot Irrigation</u>

Attach a separate engineering report with the water balance and storage volume calculations, method of application, irrigation efficiency, and nitrogen balance.

Attachment: See Attachment Q

B. Evaporation ponds

Daily average effluent flow into ponds, in gallons per day:

enter text

Attach a separate engineering report with the water balance and storage volume calculations.

Attachment:

C. Evapotranspiration beds

| Number of beds: |
|---|
| Area of bed(s), in acres: |
| Depth of bed(s), in feet: |
| Void ratio of soil in the beds: |
| Storage volume within the beds, in acre-feet: |
| Attach a separate engineering report with the water balance and storage volume calculations, and a description of the lining. |
| Attachment: |
| D. Overland flow |
| Area used for application, in acres: |
| Slopes for application area, percent (%): |
| Design application rate, in gpm/foot of slope width: |
| Slope length, in feet: |
| Design BOD ₅ loading rate, in lbs BOD ₅ /acre/day: |
| Design application frequency: |
| hours/day: And days/week: |
| enter text |

Attach a separate engineering report with the method of application and design requirements according to *30 TAC Chapter 217*.

Attachment:

Section 2. Edwards Aquifer (Instructions Page 82)

Is the facility subject to 30 TAC Chapter 213, Edwards Aquifer Rules?

Yes □ No ■

If yes, attach a report concerning the recharge zone.

Attachment:

DOMESTIC WORKSHEET 6.0

INDUSTRIAL WASTE CONTRIBUTION

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

Section 1. All POTWs (Instructions Page 99)

A. Industrial users

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

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

Categorical IUs:

Number of IUs: <u>zero (0)</u>

Average Daily Flows, in MGD:

Significant IUs - non-categorical:

Number of IUs: zero (0)

Average Daily Flows, in MGD:

Other IUs:

Number of IUs: zero (0)

Average Daily Flows, in MGD:

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.

C. Treatment plant pass through

In the past three years, has your POTW experienced pass through (see instructions)?

Yes \Box No \boxtimes

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.

D. Pretreatment program

Does your POTW have an approved pretreatment program?

Yes \Box No \boxtimes

If yes, complete Section 2 only of this Worksheet.

Is your POTW required to develop an approved pretreatment program? Yes \Box No \Box

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

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

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

A. Substantial modifications

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

Yes □ No □

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

| Click here 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 \Box No \Box

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

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.

| Pollutant | Concentration | MAL | Units | Date |
|-----------|---------------|-----|-------|------|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Table 6.0(1) - Parameters Above the MAL

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.

Section 3. Significant Industrial User (SIU) Information and Categorical Industrial User (CIU) (Instructions Page 100)

A. General information

| Company Name: | | |
|----------------------------|-------------|----------------------------|
| SIC Code: | | |
| Telephone number: | Fax number: | <u>Click here to enter</u> |
| | | |
| Contact name: | | |
| Address: | | |
| City, State, and Zip Code: | er 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).

C. Product and service information

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

| | enter text. | Click here to e |
|--|-------------|-----------------|
| | | |
| | | |
| | | |
| | | |

D. Flow rate information

See the Instructions for definitions of "process" and "non-process wastewater." Process Wastewater:

| Discharge, in gallons | s/day: | to enter text. | |
|-------------------------|--------------|----------------|--------------|
| Discharge Type: 🗆 | Continuous 🗆 | Batch | Intermittent |
| Non-Process Wastewater: | | | |
| Discharge, in gallons | s/day: | 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 instructions?

Yes \Box No \Box

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: |
|-----------------------------|
| Category: Subcategories: |
| Category: Subcategories: |
| Category: Subcategories: |
| Category: Subcategories: |

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.

ATTACHMENT 1

Core Data Form



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) | | | | | | | | |
| 2. | Customer Reference Number (if issued) | 3. Regulated Entity Reference Number (if issued) | | | | | | | |
| | CN 601097934 | for CN or RN numbers in Central Registry** | RN 103138079 | | | | | | |
| | | | | | | | | | |

SECTION II: Customer Information

| 4. General Customer Information 5. Effective Date for Customer Information Updates (mm/dd/yyyy) | | | | | | | | | | | | |
|--|---|------------------|-------------------|---------------|-----------------|-----------------|-----------|--------------|----------|--------------|-------|----------------|
| 🗌 New | □ New Customer □ Change in Regulated Entity Ownership | | | | | | | wnership | | | | |
| □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) <u>If new Customer, enter previous Customer below:</u> | | | | | | | | | | | | |
| | | Citv of Tal | noka. Texas | | | | | | | | | |
| 7. TX SO | S/CPA Fili | ng Number | 8. TX 9 | State Tax | ID (11 d | ligits) | 9. F | ederal Ta | IX ID | 10. DU | INS | Number (if |
| | | - | | | · | - / | | (9 digits) | | é | appli | cable) |
| | | | | | | | | | | | | |
| 11. Type o | of Custome | r: | Corpora | ition | | | Individ | ual | Part | nership: 🗌 🤇 | Gene | eral 🗌 Limited |
| Governme | nt: 🔀 City 🗌 |] County 🗌 Fede | ral 🗌 Local 🗌 |] State 🔲 0 | Other | Sole | Proprie | etorship | | 🗌 Othe | er: | |
| | | 12. Number | of Employee | s | and being | | 1: | 3. Indepe | ndentl | y Owned a | nd (| Operated? |
| 0-2 | 20 🛛 21-1 | 00 101-250 | | 0 0 501 | and higi | ner | | | L Yes | K |] NO | |
| 14. C | ustomer R | ole (Proposed or | Actual) – as it i | relates to th | e Regula | ated Entity lis | sted on | this form. I | Please d | check one of | the | following |
| ⊠Owr | ner | 🛛 Ope | rator | | Owner & | Operator | | | г | 7 Other | | |
| □Occu | pational Lice | ensee 🗌 Resp | onsible Party | | VCP/BS | A Applicant | | | L | | | |
| | | | | | | | | | | | | |
| 15. | 15. DO Box 200 | | | | | | | | | | | |
| Address: | | | | | | | | | | | | |
| /14410001 | City | Tahok | a | State | ТΧ | ZIP | | 79373 | | ZIP + 4 | | |
| 16. Country Mailing Information (if outside USA) 17. E-Mail Address (if applicable) | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| 18. Telephone Number 19. Extension or Code 20. Fax Number (if applicable) | | | | | | | olicable) | | | | | |
| | (806) 561-4211 (806) 561-4222 | | | | | | | | | | | |

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.)

Tahoka Wastewater Treatment Plant

| 23. Street Address | | | | | | | | | | |
|---|--|---|--|--|---|--|---|--|--|--|
| Entity: | | | | | | | | | | |
| (No PO Boxes) | City | | State | | ZIP | | | ZIP + 4 | | |
| 24. County | | | | | | | | | | |
| | | f no Street Ac | ldress is provid | ded, fields 2 | 5-28 are | required. | | | | |
| 25. Description to Physical Location: | 0.3 miles E | ast of US Highw | vay 87 on State Hi | ghway 24, ther | n South 0. | 75 miles or | n unpaved | d farm road | to plant entrance | |
| 26. N | earest City | | | | | S | tate | Ne | arest ZIP Code | |
| | | Tahoka | | | | - | ТХ | | 79373 | |
| Latitude/Longitude ard Address | e required a may be use | nd may be ad d to supply co | Ided/updated to pordinates whe | meet TCEQ | Core Da e been p | ata Stand provided o | lards. (C or to gai | Geocoding in accurac | of the Physica y). | |
| 27. Latitude (N) In De | ecimal: | | | 28. Lo | ngitude | (W) In De | cimal: | 0 | | |
| Degrees | Minu | ites | Seconds | D | egrees | | Minut | tes | Seconds | |
| 33 | 8 | | 26 | | 101 | | 47 | | 29 | |
| 29. Primary SIC Cod | de 3 | 30. Secondary SIC Co (4 digits) | | 31. Primar (5 o | Primary NAICS Code (5 or 6 digits) | | 32. Seconda (5 or | | ry NAICS Code 6 digits) | |
| (4 digits) | | (4 digits | | | to digito/ | | | | | |
| (4 digits) 4952 33 . 1 | What is the | (4 digits Primary Busii Tre | ness of this ent | 2 :i ty? (Do no e and land appl | 21320 t repeat th lication | e SIC or N | AICS des | scription.) | | |
| (4 digits) 4952 33. 1 34. Mailing | What is the | (4 digits Primary Busii Tre | ness of this ent | 2 i ity? (Do no e and land appl | 21320 t repeat th lication | e SIC or N | AICS des | scription.) | | |
| (4 digits) 4952 33. 1 34. Mailing Address: | What is the | (4 digits Primary Busin Tre | ness of this ent | 2 ity? (Do no e and land app PO Bo | 21320 t repeat th lication | e SIC or N | AICS des | scription.) | | |
| (4 digits) 4952 33. 1 34. Mailing Address: | What is the City | (4 digits Primary Busii Tre Tahoka | ness of this ent eatment of sewage State | 2 e and land appl PO Be TX | 21320 t repeat th lication ox 300 ZIP | e SIC or N. 793 | AICS des | ziP + 4 | | |
| (4 digits) 4952 33. 1 34. Mailing Address: 35. E-Mail Address | What is the City | (4 digits Primary Busin Tre Tahoka | ness of this ent eatment of sewage State | 2 and land appl PO Ba | 21320 t repeat th lication ox 300 ZIP | e SIC or N. 793 | AICS des | zeription.) | | |
| (4 digits) 4952 33. 1 34. Mailing Address: 35. E-Mail Address 36. Telepho | What is the City | (4 digits Primary Busin Tre Tahoka | ness of this ent eatment of sewage State 37. Extensio | 2 ity? (Do no e and land appl PO Bo TX n or Code | 21320 t repeat th lication ox 300 ZIP | re SIC or N. 793 38. F | AICS des 73 Fax Num | ZIP + 4 | licable) | |
| (4 digits) 4952 33. 1 34. Mailing Address: 35. E-Mail Address 36. Telepho (806) 5 | What is the City :: one Number 161-4211 | (4 digits Primary Busin Tre Tahoka | ness of this ent eatment of sewage State 37. Extensio | 2 e and land appl PO Ba TX | 21320 t repeat th lication ox 300 ZIP | re SIC or N. 793 38. F | AICS des 73 Fax Num (806) | ZIP + 4 ber (if appl) 561-4222 | licable) | |
| (4 digits) 4952 33. N 34. Mailing Address: 35. E-Mail Address 36. Telepho (806) 5 39. TCEQ Programs a | What is the City :: :61-4211 and ID Number submitted | (4 digits Primary Busin Tre Tahoka Ders Check all F d on this form. S | ness of this ent eatment of sewage State 37. Extensio Programs and write ee the Core Data I | 2 ity? (Do no. e and land appl PO Ba TX n or Code e in the permits Form instructio | 21320 t repeat th lication ox 300 ZIP s/registrations for addo | re SIC or N. 793 38. F on number litional guid | AICS des 73 Fax Num (806) s that will lance. | ZIP + 4 Diber (if appr) 561-4222 | <i>licable)</i> by the updates | |
| (4 digits) 4952 33. 1 34. Mailing Address: 35. E-Mail Address 36. Telepho (806) 5 39. TCEQ Programs a ☐ Dam Safety | City City :: 61-4211 and ID Number submitted | (4 digits Primary Busin Tre Tahoka Ders Check all F d on this form. S istricts | State State State Crograms and write Ee the Core Data I Edwards Aqu | 2 ity? (Do no. a and land appl PO Bo TX n or Code a in the permits Form instruction uifer [| 21320 t repeat th lication ox 300 ZIP S/registrations for ado | re SIC or N 793 38. F on number litional guid | AICS des 73 Fax Num (806) s that will lance. ry Air | ZIP + 4 Definition.) ZIP + 4 Definition Definion Definition Definition Definition | <i>licable)</i> by the updates strial Hazardous Waste | |
| (4 digits) 4952 33. N 34. Mailing Address: 35. E-Mail Address 36. Telepho (806) 5 39. TCEQ Programs a Dam Safety Municipal Solid Waste | What is the City City :: : : : : : : : : : : : : : : : : : | (4 digits Primary Busin Tre Tahoka Ders Check all F d on this form. S istricts v Source ew Air | Programs and write ee the Core Data I Edwards Aqu OSSF | 2 ity? (Do noise and land apple PO Bo TX n or Code e in the permits Form instruction uifer [| 21320 <i>t repeat th</i> lication bx 300 ZIP s/registrations for add Emission Petroleu | re SIC or N 793 38. F 38. F itional guid on number itional guid ons Invento | AICS des 73 Fax Num (806) s that will lance. ry Air ry Air | ZIP + 4 Der (if appr) 561-4222 I be affected I indus | <i>licable)</i> by the updates strial Hazardous Waste | |
| (4 digits) 4952 33. N 34. Mailing Address: 35. E-Mail Address 36. Telepho (806) 5 39. TCEQ Programs a Dam Safety Municipal Solid Waste | What is the City :: :: :: :: :: :: :: :: :: : : : : : | (4 digits Primary Busin Tre Tahoka Tahoka Ders Check all F d on this form. S istricts v Source ew Air m Water | | 2 ity? (Do no. a and land appl PO Ba TX n or Code a in the permits Form instruction uifer [L L L L L L L L L L L L L | 21320 t repeat th lication ox 300 ZIP s/registrations for addo Emission Petroleu | re SIC or N. 793 38. F on number- litional guic ons Invento um Storage | AICS des 73 Fax Num (806) s that will lance. ry Air ry Air | Scription.) ZIP + 4 nber (if approximation of the second | licable) by the updates strial Hazardous Waste | |
| (4 digits) 4952 33. N 34. Mailing Address: 35. E-Mail Address 36. Telepho (806) 5 39. TCEQ Programs a Dam Safety Municipal Solid Waster Sludge | What is the City City :: : : : : : : : : : : : : : : : : : | (4 digits Primary Busin Tre Tahoka Tahoka Ders Check all F d on this form. S istricts v Source ew Air m Water | | 2 ity? (Do no e and land appl PO Bo TX n or Code e in the permits Form instruction uifer [C r | 21320 t repeat th lication bx 300 ZIP s/registrations for add Emission Petroleu | re SIC or N 793 38. F 38. F 38. F itional guid ons Invento um Storage | AICS des 73 Fax Num (806) s that will lance. ry Air Tank | Scription.) ZIP + 4 Der (if app) 561-4222 I be affected | licable) by the updates strial Hazardous Waste | |

SECTION IV: Preparer Information

| 40. Name: | | Mathew Hopper, | P.E. | 41. Title: | Principle | |
|----------------|----------|----------------|----------------|------------|-----------------------|--|
| 42. Telephon | e Number | 43. Ext./Code | 44. Fax Number | | 45. E-Mail Address | |
| (214) 773-2966 | | | () - | | mhopper@civil-360.net | |

SECTION V: Authorized Signature

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

| Company: | City of Tahoka | Job Title: | | Mayor | |
|------------------|----------------|------------|--------|--------------------------|--|
| Name (In Print): | Ronny Jolly | | Phone: | (806) 561- 4211 | |
| Signature: | Rom a. beh | | Date: | 5.30.3024 | |
| | 1 - Ja perg | | | D | |

ATTACHMENT 2

Public Involvement Plan Form



⁷ Texas Commission on Environmental Quality

Public Involvement Plan Form for Permit and Registration Applications

The Public Involvement Plan is intended to provide applicants and the agency with information about how public outreach will be accomplished for certain types of applications in certain geographical areas of the state. It is intended to apply to new activities; major changes at existing plants, facilities, and processes; and to activities which are likely to have significant interest from the public. This preliminary screening is designed to identify applications that will benefit from an initial assessment of the need for enhanced public outreach.

All applicable sections of this form should be completed and submitted with the permit or registration application. For instructions on how to complete this form, see TCEQ-20960-inst.

Section 1. Preliminary Screening

New Permit or Registration Application New Activity – modification, registration, amendment, facility, etc. (see instructions)

If neither of the above boxes are checked, completion of the form is not required and does not

need to be submitted.

Section 2. Secondary Screening

Requires public notice,

Considered to have significant public interest, and

Located within any of the following geographical locations:

- Austin
- Dallas
- Fort Worth
- Houston
- San Antonio
- West Texas
- Texas Panhandle
- Along the Texas/Mexico Border
- Other geographical locations should be decided on a case-by-case basis

If all the above boxes are not checked, a Public Involvement Plan is not necessary. Stop after Section 2 and submit the form.

Public Involvement Plan not applicable to this application. Provide **brief** explanation.
| Section 3. | Section 3. Application Information | | | | |
|--|--|---------------|--------------------|------------------------|---------|
| Type of Ap | pplication | (check all th | at apply): | | |
| Air | Initial | Federal | Amendment | Standard Permit | Title V |
| Waste | aste Municipal Solid Waste Industrial and Hazardous Waste Scrap Tire Radioactive Material Licensing Underground Injection Control | | | | |
| Water Qual | lity | | | | |
| Texas P | ollutant Di | ischarge Elin | nination System (| TPDES) | |
| Tex | as Land Ap | pplication Pe | ermit (TLAP) | | |
| Stat | te Only Coi | ncentrated A | nimal Feeding Op | oeration (CAFO) | |
| Wat | ter Treatm | ent Plant Res | siduals Disposal F | Permit | |
| Class B | Biosolids I | Land Applica | ation Permit | | |
| Domestic Septage Land Application Registration | | | | | |
| | | | | | |
| Water Righ | Water Rights New Permit | | | | |
| New Ap | New Appropriation of Water | | | | |
| New or | existing re | eservoir | | | |
| | | | | | |
| Amendment to an Existing Water Right | | | | | |
| Add a N | Add a New Appropriation of Water | | | | |
| Add a N | Add a New or Existing Reservoir | | | | |
| Major A | mendmen | t that could | affect other wate | r rights or the enviro | nment |

Section 4. Plain Language Summary

Provide a brief description of planned activities.

| Section 5. Community and Demographic Information |
|---|
| Community information can be found using EPA's EJ Screen, U.S. Census Bureau information, or generally available demographic tools. |
| Information gathered in this section can assist with the determination of whether alternative language notice is necessary. Please provide the following information. |
| |
| (City) |
| (Country) |
| (County) |
| |
| (Census Tract) |
| Please indicate which of these three is the level used for gathering the following information. |
| City County Census Tract |
| (a) Percent of people over 25 years of age who at least graduated from high school |
| |
| (b) Per capita income for population near the specified location |
| |
| |
| (c) Percent of minority population and percent of population by race within the specified location |
| |
| (d) Percent of Linguistically Isolated Households by language within the specified location |
| (a) referre of Emigatorically footated from the operation of the operation |
| |
| (e) Languages commonly spoken in area by percentage |
| |
| (f) Community and (an Staliahaldan Crauna |
| (1) Community and/or Stakeholder Groups |
| |
| (g) Historic public interest or involvement |
| |
| |

| Section 6. Planned Public Outreach Activities | | | | |
|---|--|--|--|--|
| (a) Is this application subject to the public participation requirements of Title 30 Texas Administrative Code (30 TAC) Chapter 39? | | | | |
| Yes No | | | | |
| (b) If yes, do you intend at this time to provide public outreach other than what is required by rule? | | | | |
| Yes No | | | | |
| If Yes, please describe. | | | | |
| If you answered "yes" that this application is subject to 30 TAC Chapter 39, | | | | |
| (c) Will you provide notice of this application in alternative languages? | | | | |
| Yes No | | | | |
| Please refer to Section 5. If more than 5% of the population potentially affected by your application is Limited English Proficient, then you are required to provide notice in the alternative language. | | | | |
| If yes, how will you provide notice in alternative languages? | | | | |
| Publish in alternative language newspaper | | | | |
| Posted on Commissioner's Integrated Database Website | | | | |
| Mailed by TCEQ's Office of the Chief Clerk | | | | |
| Other (specify) | | | | |
| (d) Is there an opportunity for some type of public meeting, including after notice? | | | | |
| Yes No | | | | |
| (e) If a public meeting is held, will a translator be provided if requested? | | | | |
| Yes No | | | | |
| (f) Hard copies of the application will be available at the following (check all that apply): | | | | |
| TCEQ Regional Office TCEQ Central Office | | | | |
| Public Place (specify) | | | | |
| | | | | |

Section 7. Voluntary Submittal

For applicants voluntarily providing this Public Involvement Plan, who are not subject to formal public participation requirements.

Will you provide notice of this application, including notice in alternative languages?

Yes No

What types of notice will be provided?

Publish in alternative language newspaper

Posted on Commissioner's Integrated Database Website

Mailed by TCEQ's Office of the Chief Clerk

Other (specify)

ATTACHMENT A

USGS Map



ATTACHMENT B

Affected Landowners Map



Adjacent Landowners List City of Tahoka, Texas WWTP

| Map ID # | Property Owner | Assessor's No. | Map ID # | Property Owner | Assessor's No. |
|-------------|---|----------------------|-------------|--|-------------------|
| 1 | City of Tahoka PO Box 300 Tahoka, TX 79373 | 6285, 8599, 11076 | 2 | Dennis & Mary Belew PO Box 487 Tahoka, TX 79373 | 12365 |
| 3 | Leslie & Pamela Paris PO Box 515 Tahoka, TX 79373 | 8650 | 4 | Connie Braddock PO Box 1661 Tahoka, TX 79373 | 3196, 3197 |
| 5 | Sybert Montgomery Family Trust 4318 18 th Street Lubbock, Tx 79416 | 12795 | 6 | Howell Lands, LLC 409 E 57 th Street Odessa, TX 79762 | 5869 |
| 7 | Willie Edwards c/o Crawford Edwards 4200 South Hulen St. Ft Worth, TX 76109-4913 | 3926 | | | |

ATTACHMENT C

Photographs of Irrigation Site and Treatment Plant



Small Center Pivot



Large Center Pivot



Treatment Plant Aerial

ATTACHMENT D

Buffer Zone Map



ATTACHMENT E

Process Flow Diagram



ATTACHMENT F

Site Drawing



ATTACHMENT G

Design Calculations

DESIGN CALCULATIONS (Tahoka's Existing Treatment Plant)

Design Flow 0.36 MGD

Area under Irrigation: 143 acres

Influent BOD tested: 80.1 mg/l or 240 lbs/day

Facultative Pond Dimensions: 270 feet wide 810 feet long (at surface water level)

§217.205(a)(1) Length to Width Ratio must be 3:1

Width @ water level = 270' Length @ water level = 810

Ratio =
$$\frac{810}{270} = 3:1$$

§217.205(b)(1) Deeper portion of facultative lagoon minimum depth of 12'

Existing pond depth of facultative end is 12' \checkmark

§217.205(b)(2) Deeper portion of the facultative lagoon must cover at least 25% of the area of the lagoon bottom.

The area of the facultative lagoon floor = 129,517 ft²

The area of the deep (anaerobic end) of the facultative lagoon = 32,364 ft²

Percentage of anaerobic area of entire lagoon = 25% \checkmark

§217.205(b)(3) Remainder of facultative lagoon must have minimum depth of 8'

Existing pond depth of non-facultative end ranges from 6' to 9'. X (See exception request in cover letter)

| §217.205(c) | Organic loading of must not exceed 150 lbs/acre/day based on |
|-------------|--|
| | surface area of lagoon |

Surface area of facultative lagoon = 218,700 ft² (5.02 acres)

Actual organic loading = $\frac{80.1 \, mg/l \, X \, 0.360 \, MGD \, X \, 8.34}{2.97 \, acres}$ = 81 lbs/acre/day \checkmark

| Total Volume of Facultative Lagoon: | 1,429,992 feet ³ (32.82 acre-ft, or 10,969,340 gallons) |
|-------------------------------------|---|
| Detention Time thru Facultative: | 10,696,340 gal / 360,000 gal/day = 29.7 days |

Holding Pond Volume(s):Pond #1 - 657,900 ft^3Pond #2 - 900,000 ft^3Total:1,557,900 ft^3 or 35.76 acre-ft

217.205(d)(1) Facultative lagoon inlet must be ≥ 24 inches below water surface

Existing 12" diameter pipe inlet flow lines are exactly 4' below surface

§217.205(d)(2) Outlets must be at least 12 inches below water surface, but not further below the water surface than a distance equal to one-half the dept of the lagoon at the outlet

Existing pond depth at outlet = 6', therefore, 1/2 the depth = 3'

Existing 12" dia. pipe outlet flow lines are exactly 3' below the water surface \checkmark

§217.205(d)(3) Recirculation of at least 50% of the design flow, but not more than 100%.

Existing pipe and value infrastructure is in place from the outlet structure to recirculate all or a portion of the effluent leaving the lagoon back to the entrance of the facultative end of the lagoon via gravity. \checkmark

§217.205(d)(4) Design must prevent siphoning of lagoon contents through a submerged inlet

Siphoning is prevented by the submerged inlet by manhole structures upstream of the inlets. \checkmark

§217.205(e) Removal efficiency must not be based on more than 50% BOD₅ remove of the influent

BOD₅ estimated in effluent = $80.1 \text{ mg/l} \times 50\%$ = 40 mg/l

Disposal of effluent shall be by land application by surface irrigation. No disinfection measures are proposed.

Water balance demonstrates a minimum storage capacity required = 20.02 acre-feet, or greater in the holding ponds. With 35.76 acre-feet available, this requirement has been met.



ATTACHMENT H

Wind Rose



ATTACHMENT I

Cropping Plan and Detailed Plan for Management of Saline and Sodic Soil Conditions

CROPPING PLAN

The following is a cropping plan for the City of Tahoka Sewer Treatment Plant land disposal area.

(1) <u>Soils Map w/</u>Crops

A soils map depicting the location of the crops is attached (NRCS Soil map of Lynn County, Texas) along with a snippet from the Record Drawings from the original construction which displays the irrigation infrastructure installed.

(2) Plant Species

Crops to be used for disposal of effluent is Bermuda Grass across the entirety of the irrigation area.

In the prepared water balance, the Kcb coefficient used for Bermuda grass with average maintenance is 0.80.

In order to comply with former permit conditions, the Permittee shall establish a 'cool season' grass, either winter ryegrass, bluegrass or fescue under the 19.3 acres of the small pivot system during the months of November through February.

The water balance data does not take into account the addition of a part-time, coolseason grass during these months.

(3) <u>Crop Yield Goals or Estimates</u>

Crop yields are inconsequential as all grasses are grazed throughout the year by cattle.

(4) Crop Growing Season

The growing season for the bermuda will be year-round based on the quantity of effluent available. Although Bermuda grasses are classified as a 'warm season' crop, evapotranspiration (ET) still occurs as long as there is significant moisture in the soil. (Borrelli and Feddler, Mean Crop Consumptive Use and Free Water Evaporation for Texas, February 1, 1998).

Winter grasses such as ryegrass, bluegrass or fescue are typically seeded in September, October and November. Planting in October, in this particular case, should result in a cool season crop capable of effectively utilizing the effluent over the months of November, December, January, and February.

(5) <u>Crop Nutrient Requirements</u>

The nutrient requirement for Bermuda grass is up to 6 lbs/1000 ft²/year according to Duble, MCafee and Novosad's publication "Lawn Fertilization in Texas". This equates to 261 lbs/ac/year.

Winter ryegrass range from 1 to 3 lbs/1000 ft2year according to AggieTurf at Texas A&M University. This equates to a maximum of 131 lbs/ac/year.

(6) Additional Fertilizer Requirements

No supplemental fertilizer is anticipated.

(7) <u>Minimum/Maximum Harvest Height of Grass Crops</u>

Bermuda grass has a typical harvest height of 6-10 inches, however, what utilized in grazing operations, this height becomes moot, as the initial grazing height tops out at between 4-5 inches, and should be prevented from being reduced below 2 inches.

Winter ryegrass follows the same harvest height as the crop being overseeded, therefore, the maximum crop height will rarely reach 5 inches.

(8) <u>Supplemental Watering Requirements</u>

No supplemental watering is anticipated or planned.

(9) <u>Crop Salt Tolerances</u>

Bermuda grass and perennial ryegrass are classified as 'Highly Salt-Tolerant' and 'Relatively Salt-Tolerant', respectively, according to Table 3 of TAC 309.20.

Bermuda grass has a range between 8.0-12.0 mmhos/cm and ryegrass has a range between 6.0 - 8.0 mmhos/cm.

(10) Harvesting Method and Number of Harvests

The harvesting method for the crop grass will normally be by grazing of cattle. However, on occasion the grass may be cut and baled if the height exceeds 10 inches.

From the Oklahoma State University Extension article published Feb. 2017 entitled Bermudagrass Pasture Management, "A general rule of thumb for estimating cattle rotation based on forage growth potential is to move the cattle before the residue height is less than 2 inches with 4 inches of growth being more preferable. Cattle should not be rotated into a pasture until the bermudagrass forage height reaches at least 6 inches with 10 inches of growth being more preferable Pasture rotations should not be based on calendar date alone. Movement between pastures should be based on current environmental conditions as well as forage growth rate. This means that grazing time may vary from as few as 1 day to 2 days up to 7 to 10 days per pasture.

(11) <u>Removal of Existing Vegetation</u>

Since this site is pre-existing and has been grazed/irrigated for over 20 years, this item is not applicable.



ATTACHMENT TO CROPPING PLAN

SOILS MAP W/ CROPS



ATTACHMENT J

USGS Map w/ Wells



ATTACHMENT K

Water Well Data w/ Applicable Well Logs

Section 6. WELL AND MAP INFORMATION (within 1/2 mile of property boundaries and/or disposal area only) continued from Page 39 of 80

| Source Well ID | State Well Log ID | Well Use | Producing? | Open, cased, capped or plugged? | Proposed Best Management Practice | Source |
|-------------------|---------------------------------|-------------|--------------------|---------------------------------------|---|---------------|
| 70000 | n/a | Private | - | - | - | HPWD; no logs |
| 72930 | Yield: unknown Drilled: unknown | | Water Depth: unkno | Nater Depth: unknown | | |
| 72024 | n/a | Private | - | - | - | HPWD; no logs |
| 72931 | Yield: unknow | wn Drille | ed: unknown | Water Depth: unkno | own | |
| 70020 | 295225 | Private | Yes | Cased (5" PVC) | Surface sleeve | HPWD |
| 72932 | Yield: unknow | wn Drille | ed: 6/12/2012 | Water Depth: 15ft | Domestic use | |
| 70000 | 295228 | Private | Yes | Cased (5" PVC) | Surface sleeve | HPWD |
| 72930 | Yield: unknow | wn Drille | ed: 6/13/2012 | Water Depth: 15ft | Domestic use | |
| 72072 | 295227 | Private | Yes | Cased (5" PVC) | Surface sleeve | HPWD |
| 12912 | Yield: unknow | wn Drille | ed: 6/13/2012 | Water Depth: 15ft | Domestic use | |
| 72022 | 295224 | Private | Yes | Cased (5" PVC) | Surface sleeve | HPWD |
| 72933 | Yield: unknow | wn Drille | ed: 6/12/2012 | Water Depth: 15ft | Domestic use | |
| 70025 | 295230 | Private | Yes | Cased (5" PVC) | Surface sleeve | HPWD |
| 72935 | Yield: unknow | wn Drille | ed: 6/13/2012 | Water Depth: 15ft | Domestic use | |
| 70024 | 295222 | Private | Yes | Cased (5" PVC) | Surface sleeve | HPWD |
| 72934 | Yield: unknow | wn Drille | ed: 6/12/2012 | Water Depth: 15ft | Domestic use | |
| 05402 | 366718 | Private | Yes | Cased (12" PVC) | unknown | HPWD |
| 95492 | Yield: unknow | wn Drille | ed: 6/10/2022 | Water Depth: 20ft | Assumed Irrigation | I |
| 0050004 | 2350801 | Private | No | Cased (12" Galv) | unknown | TWDB |
| 2350801 | Yield: none | Drilled: | 2/1978 Wate | r Depth: 25ft | Assumed Irrigation | |

| | STATE OF TEXAS WELL REP | ORT for Trac | king #295225 |
|----------------|-------------------------------|---------------|----------------|
| Owner: | Guy Witt | Owner Well #: | 3 |
| Address: | PO Box 790 Taboka TX 79373 | Grid #: | 23-50-8 |
| Well Location: | No Data | Latitude: | 33° 08' 24" N |
| | No Dula | Longitude: | 101° 48' 08" W |
| Well County: | Lynn | Elevation: | No Data |
| | | | |
| Type of Work: | New Well | Proposed Use: | Domestic |

Drilling Start Date: 6/12/2012 Drilling B

Drilling End Date: 6/12/2012

| | Diameter (| in.) | Top Depth (ft.) | Bottom Dept | th (ft.) |
|-------------------------|-----------------|--------------------|-----------------------------------|--|------------------|
| Borehole: 8.75 | | | 0 | | |
| Drilling Method: | Air Rotary | | | | |
| Borehole Completion: | Filter Packed | | | | |
| | Top Depth (ft.) | Bottom Depth (ft.) | Filter | Material | Size |
| Filter Pack Intervals: | 15 | 55 | Gravel | | 3/8 |
| | Top Depth (ft.) | Bottom Depth | (ft.) D | escription (number of sa | acks & material) |
| Annular Seal Data: | 0 | 15 | | 8 sacks cement | |
| Seal Method: m i | ixed with water | | Distance to F | Property Line (ft.): N | lo Data |
| Sealed By: R. | Blake Moore | | Distance to Sep concentrated c | tic Field or other ontamination (ft.): | No Data |
| | | | Distance to | Septic Tank (ft.): N | lo Data |
| | | | Meth | od of Verification: N | lo Data |
| Surface Completion: | Surface Sleeve | Installed | | | |
| Water Level: | No Data | | | | |
| Packers: | No Data | | | | |
| Type of Pump: | No Data | | | | |
| Well Tests: | No Test Data | Specified | | | |

| | Strata Depth (ft.) | Water Type | | |
|----------------------|--|---|---|--|
| Water Quality: | No Data | No Data | | |
| | | Chemical Analysis | Made: Unknov | vn |
| | Did the driller | knowingly penetrate any strata contained injurious constitu | which lents?: Unknov | vn |
| Certification Data: | The driller certified th driller's direct supervi correct. The driller u the report(s) being re | at the driller drilled this well (or sion) and that each and all of th nderstood that failure to comple turned for completion and result | the well was drille the statements here te the required ite bmittal. | ed under the ein are true and ems will result in |
| Company Information: | Monte Moore Drill | ing | | |
| | 1313 N Hwy 137 Lamesa, TX 7933 ⁷ | 1 | | |
| Driller Name: | Monte Moore | Lic | cense Number: | 3289 |
| Apprentice Name: | R. Blake Moore | Ap | prentice Number: | 56975 |
| Comments: | No Data | | | |
| | | | | |

Lithology: DESCRIPTION & COLOR OF FORMATION MATERIAL

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|----------------------------|
| 0 | 4 | Top soil |
| 4 | 25 | Caliche |
| 25 | 32 | Rock |
| 32 | 40 | Gravel and white clay |
| 40 | 44 | Brown sand and Broken rock |
| 44 | 50 | Gravel and clay mix |
| 50 | 55 | Blue clay |

| Casing: |
|-------------------------------|
| BLANK PIPE & WELL SCREEN DATA |

| Dia. (in.) New/Us | ed Type | Setting From/To (ft.) | | | |
|----------------------------------|---------|-----------------------|--|--|--|
| 5 in New Plastic Perf 55-35 .035 | | | | | |
| 5 in New Plastic Solid 35-0 | | | | | |

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation P.O. Box 12157 Austin, TX 78711 (512) 334-5540

| STATE OF TEXAS WELL REPORT for Tracking #295228 | | | |
|---|-------------------------------|---------------|----------------|
| Owner: | Guy Witt | Owner Well #: | 5 |
| Address: | PO Box 790 Taboka TX 79373 | Grid #: | 23-50-8 |
| Well Location: | No Data | Latitude: | 33° 08' 25" N |
| | | Longitude: | 101° 48' 13" W |
| Well County: | Lynn | Elevation: | No Data |
| | | | |
| Type of Work: | New Well | Proposed Use: | Domestic |

Drilling Start Date: 6/13/2012 Drilling

Drilling End Date: 6/13/2012

| | Diameter (| in.) | Top Depth (ft.) | Bottom Dept | th (ft.) | |
|---------------------------|-----------------|--|---------------------------------|--|--|--|
| Borehole: | 8.75 | | 0 | 52 | | |
| Drilling Method: | Air Rotary | | | | | |
| Borehole Completion: | Filter Packed | | | | | |
| | Top Depth (ft.) | Bottom Depth (ft.) | Filter | Material | Size | |
| Filter Pack Intervals: | 15 | 52 | Gravel | | 3/8 | |
| | Top Depth (ft.) | Bottom Depth | Bottom Depth (ft.) Des | | scription (number of sacks & material) | |
| Annular Seal Data: | 0 | | | 9 sacks cem | ent | |
| Seal Method: m i | ixed with water | | Distance to F | Property Line (ft.): N | lo Data | |
| Sealed By: R. Blake Moore | | | Distance to Sep concentrated co | tic Field or other ontamination (ft.): | No Data | |
| | | Distance to Septic Tank (ft.): No Data | | | | |
| | | | Metho | od of Verification: N | lo Data | |
| Surface Completion: | Surface Sleeve | Installed | | | | |
| Water Level: | No Data | | | | | |
| Packers: | No Data | | | | | |
| Type of Pump: | No Data | | | | | |
| Well Tests: | No Test Data | Specified | | | | |

| | | Strata Depth (ft.) | Water Type | | |
|---------------|--------------------------|--|--|--|--|
| Water Qual | lity: | No Data | No Data | | |
| | | | Chemical Analysis | Made: Unknow | /n |
| | | Did the driller | knowingly penetrate any strata contained injurious constitu | which Jents?: Unknow | vn |
| Certification | n Data: T c c t | The driller certified th Iriller's direct superv correct. The driller u he report(s) being re | at the driller drilled this well (or ision) and that each and all of th nderstood that failure to comple iturned for completion and resul | the well was drillen ne statements here ate the required ite bmittal. | d under the ein are true and ms will result in |
| Company li | nformation: | Monte Moore Drill | ing | | |
| | | 1313 N Hwy 137 Lamesa, TX 7933 | 1 | | |
| Driller Nam | e: | Monte Moore | Lic | cense Number: | 3289 |
| Apprentice | Name: | R. Blake Moore | Aŗ | pprentice Number: | 56975 |
| Comments | : | No Data | | | |
| | | | | | |

Lithology: DESCRIPTION & COLOR OF FORMATION MATERIAL

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|----------------------------|
| 0 | 4 | Top soil |
| 4 | 24 | Caliche |
| 24 | 31 | Rock |
| 31 | 40 | Gravel and white clay |
| 40 | 44 | Brown sand and Broken rock |
| 44 | 48 | Gravel and clay mix |
| 48 | 52 | Blue clay |

Casing: BLANK PIPE & WELL SCREEN DATA

| Dia. (in.) New/Used | Туре | Setting From/To (ft.) | | |
|-----------------------------|---------|-----------------------|--|--|
| 5 in New Plastic | Perf 52 | -32 .035 | | |
| 5 in New Plastic Solid 32-0 | | | | |
| | | | | |

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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Texas Department of Licensing and Regulation P.O. Box 12157 Austin, TX 78711 (512) 334-5540
| | STATE OF TEXAS WELL REPORT for Tracking #295227 | | | | |
|----------------|---|---------------|----------------|--|--|
| Owner: | Guy Witt | Owner Well #: | 4 | | |
| Address: | PO Box 790 Taboka TX 79373 | Grid #: | 23-50-8 | | |
| Well Location: | No Data | Latitude: | 33° 08' 25" N | | |
| | No Data | Longitude: | 101° 48' 15" W | | |
| Well County: | Lynn | Elevation: | No Data | | |
| | | | | | |
| Type of Work: | New Well | Proposed Use: | Domestic | | |

Drilling Start Date: 6/13/2012 Drilling

Drilling End Date: 6/13/2012

| | Diameter (in.) | | Top Depth (ft.) | Bottom Dept | h (ft.) |
|---------------------------|-----------------|--------------------|------------------------------------|--|------------------|
| Borehole: | 8.75 | | 0 | 53 | |
| Drilling Method: | Air Rotary | | | | |
| Borehole Completion: | Filter Packed | | | | |
| | Top Depth (ft.) | Bottom Depth (ft.) | Filter | Material | Size |
| Filter Pack Intervals: | 15 | 53 | Gi | avel | 3/8 |
| | Top Depth (ft.) | Bottom Depth | (ft.) D | escription (number of sa | icks & material) |
| Annular Seal Data: | 0 | 15 | | 9 sacks cem | ent |
| Seal Method: m i | ixed with water | | Distance to F | Property Line (ft.): N | lo Data |
| Sealed By: R. Blake Moore | | | Distance to Sep concentrated co | tic Field or other ontamination (ft.): | lo Data |
| | | | Distance to | Septic Tank (ft.): N | lo Data |
| | | | Meth | od of Verification: N | lo Data |
| Surface Completion: | Surface Sleeve | Installed | | | |
| Water Level: | No Data | | | | |
| Packers: | No Data | | | | |
| Type of Pump: | No Data | | | | |
| Well Tests: | No Test Data | Specified | | | |

| | Strata Depth (ft.) | Water Type | | |
|----------------------|--|---|---|--|
| Water Quality: | No Data | No Data | | |
| | | Chemical Analysis | Made: Unknov | vn |
| | Did the driller | knowingly penetrate any strata contained injurious constitu | which lents?: Unknov | vn |
| Certification Data: | The driller certified th driller's direct supervi correct. The driller u the report(s) being re | at the driller drilled this well (or sion) and that each and all of th nderstood that failure to comple turned for completion and result | the well was drille the statements here te the required ite bmittal. | ed under the ein are true and ems will result in |
| Company Information: | Monte Moore Drill | ing | | |
| | 1313 N Hwy 137 Lamesa, TX 7933 ⁷ | 1 | | |
| Driller Name: | Monte Moore | Lic | cense Number: | 3289 |
| Apprentice Name: | R. Blake Moore | Ap | prentice Number: | 56975 |
| Comments: | No Data | | | |
| | | | | |

Lithology: DESCRIPTION & COLOR OF FORMATION MATERIAL

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|----------------------------|
| 0 | 4 | Top soil |
| 4 | 23 | Caliche |
| 23 | 30 | Rock |
| 30 | 38 | Gravel and white clay |
| 38 | 41 | Brown sand and Broken rock |
| 41 | 47 | Gravel and clay mix |
| 47 | 53 | Blue clay |

| Casing: | |
|-------------------------------|--|
| BLANK PIPE & WELL SCREEN DATA | |

| Dia. (in.) | New/Used | Туре | Setting From/To (ft.) | |
|------------|-----------|----------|-----------------------|--|
| 5 in Ne | w Plastic | Perf 53- | -33 .035 | |
| 5 in Ne | w Plastic | Solid 33 | 3-0 | |

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Texas Department of Licensing and Regulation P.O. Box 12157 Austin, TX 78711 (512) 334-5540

| | STATE OF TEXAS WELL REPORT for Tracking #295224 | | | | |
|----------------|---|---------------|----------------|--|--|
| Owner: | Guy Witt | Owner Well #: | 2 | | |
| Address: | PO Box 790 Taboka TX 79373 | Grid #: | 23-50-8 | | |
| Well Location: | No Data | Latitude: | 33° 08' 25" N | | |
| | | Longitude: | 101° 48' 09" W | | |
| Well County: | Lynn | Elevation: | No Data | | |
| | | | | | |
| Type of Work: | New Well | Proposed Use: | Domestic | | |

Drilling Start Date: 6/12/2012 Drilling E

Drilling End Date: 6/12/2012

| | Diameter (| in.) | Top Depth (ft.) | Bottom Dept | h (ft.) | |
|---------------------------|-----------------|--------------------|---------------------------------|--|---------|--|
| Borehole: | 8.75 | | 0 | 56 | | |
| Drilling Method: | Air Rotary | | | | | |
| Borehole Completion: | Filter Packed | | | | | |
| | Top Depth (ft.) | Bottom Depth (ft.) | Filter | Material | Size | |
| Filter Pack Intervals: | 15 | 56 | Gr | avel | 3/8 | |
| | Top Depth (ft.) | Bottom Depth | (ft.) D | Description (number of sack | | |
| Annular Seal Data: | 0 | 15 | 15 8 sacks of | | cement | |
| Seal Method: mi | ixed with water | | Distance to F | Property Line (ft.): N | lo Data | |
| Sealed By: R. Blake Moore | | | Distance to Sep concentrated co | tic Field or other ontamination (ft.): | lo Data | |
| | | | Distance to | Septic Tank (ft.): N | lo Data | |
| | | | Metho | od of Verification: N | lo Data | |
| Surface Completion: | Surface Sleeve | Installed | | | | |
| Water Level: | No Data | | | | | |
| Packers: | No Data | | | | | |
| Type of Pump: | No Data | | | | | |
| Well Tests: | No Test Data S | Specified | | | | |

| | Strata Depth (ft.) | Water Type | | |
|----------------------|--|--|--|--|
| Water Quality: | No Data | No Data | | |
| | | Chemical Analysis | Made: Unknow | 'n |
| | Did the driller | knowingly penetrate any strata v contained injurious constitue | which ents?: Unknow | vn |
| Certification Data: | The driller certified th driller's direct superv correct. The driller u he report(s) being re | at the driller drilled this well (or t ision) and that each and all of th nderstood that failure to complet turned for completion and resub | the well was drillen the statements here te the required iter portal. | d under the ein are true and ms will result in |
| Company Information: | Monte Moore Drill | ing | | |
| | 1313 N Hwy 137 Lamesa, TX 7933 | 1 | | |
| Driller Name: | Monte Moore | Lic | ense Number: | 3289 |
| Apprentice Name: | R. Blake Moore | Ар | prentice Number: | 56975 |
| Comments: | No Data | | | |
| | | | | |

Lithology: DESCRIPTION & COLOR OF FORMATION MATERIAL

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|----------------------------|
| 0 | 4 | Top soil |
| 4 | 24 | Caliche |
| 24 | 33 | Rock |
| 33 | 41 | Gravel and white clay |
| 41 | 45 | Brown sand and Broken rock |
| 45 | 51 | Gravel and clay mix |
| 51 | 56 | Blue clay |

Casing: BLANK PIPE & WELL SCREEN DATA

| Dia. (in.) | New/Used | Туре | Setting From/To (ft.) | | | |
|------------|-----------------------------|----------|-----------------------|--|--|--|
| 5 in Ne | w Plastic F | Perf 56- | 36 .035 | | | |
| 5 in Nev | 5 in New Plastic Solid 36-0 | | | | | |
| | | | | | | |

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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Texas Department of Licensing and Regulation P.O. Box 12157 Austin, TX 78711 (512) 334-5540

| | STATE OF TEXAS WELL REPORT for Tracking #295230 | | | | |
|----------------|---|---------------|----------------|--|--|
| Owner: | Guy Witt | Owner Well #: | 6 | | |
| Address: | PO Box 790 Taboka TX 79373 | Grid #: | 23-50-8 | | |
| Well Location: | No Data | Latitude: | 33° 08' 25" N | | |
| | No Data | Longitude: | 101° 48' 12" W | | |
| Well County: | Lynn | Elevation: | No Data | | |
| | | | | | |
| Type of Work: | New Well | Proposed Use: | Domestic | | |

Drilling Start Date: 6/13/2012 Drilling

Drilling End Date: 6/13/2012

| | Diameter (| (in.) | Top Depth (ft.) | Bottom Dept | th (ft.) | |
|---------------------------|-----------------|--------------------|---|------------------------------|------------------|--|
| Borehole: | 8.75 | | 0 | 52 | | |
| Drilling Method: | Air Rotary | | | | | |
| Borehole Completion: | Filter Packed | | | | | |
| | Top Depth (ft.) | Bottom Depth (ft.) | Filter | Material | Size | |
| Filter Pack Intervals: | 15 | 52 | Gravel | | 3/8 | |
| | Top Depth (ft.) | Bottom Depth | (ft.) D | escription (number of sa | acks & material) | |
| Annular Seal Data: | 0 | 15 | | 8 sacks cem | cement | |
| Seal Method: m i | ixed with water | | Distance to F | Property Line (ft.): N | lo Data | |
| Sealed By: R. Blake Moore | | | Distance to Septic Field or other concentrated contamination (ft.): No Data | | | |
| | | | Distance to | Septic Tank (ft.): N | lo Data | |
| | | | Meth | od of Verification: N | lo Data | |
| Surface Completion: | Surface Sleeve | Installed | | | | |
| Water Level: | No Data | | | | | |
| Packers: | No Data | | | | | |
| Type of Pump: | No Data | | | | | |
| Well Tests: | No Test Data | Specified | | | | |

| | | Strata Depth (ft.) | Water Type | | |
|---------------|---------------------------|--|---|---|--|
| Water Qual | ity: | No Data | No Data | | |
| | | | Chemical Analysis | Made: Unknow | 'n |
| | | Did the driller | knowingly penetrate any strata contained injurious constitu | which Jents?: Unknow | 'n |
| Certification | n Data: T d c tl | The driller certified th Iriller's direct superv Forrect. The driller un The report(s) being re | at the driller drilled this well (or ision) and that each and all of th nderstood that failure to comple uturned for completion and resu | the well was drille he statements here ate the required ite bmittal. | d under the ain are true and ms will result in |
| Company li | nformation: | Monte Moore Drill | ing | | |
| | | 1313 N Hwy 137 Lamesa, TX 7933 | 1 | | |
| Driller Nam | e: | Monte Moore | Li | cense Number: | 3289 |
| Apprentice | Name: | R. Blake Moore | Aŗ | pprentice Number: | 56975 |
| Comments: | | No Data | | | |
| | | | | | |

Lithology: DESCRIPTION & COLOR OF FORMATION MATERIAL

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|----------------------------|
| 0 | 4 | Top soil |
| 4 | 24 | Caliche |
| 24 | 31 | Rock |
| 31 | 40 | Gravel and white clay |
| 40 | 44 | Brown sand and Broken rock |
| 44 | 48 | Gravel and clay mix |
| 48 | 52 | Blue clay |

Casing: BLANK PIPE & WELL SCREEN DATA

| Dia. (in.) New/Used | Туре | Setting From/To (ft.) | |
|---------------------|---------|-----------------------|--|
| 5 in New Plastic | Perf 52 | -32 .035 | |
| 5 in New Plastic | Solid 3 | 2-0 | |
| | | | |

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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Texas Department of Licensing and Regulation P.O. Box 12157 Austin, TX 78711 (512) 334-5540

| STATE OF TEXAS WELL REPORT for Tracking #295222 | | | | |
|---|-------------------------------|---------------|----------------|--|
| Owner: | Guy Witt | Owner Well #: | 1 | |
| Address: | PO Box 790 Taboka TX 79373 | Grid #: | 23-50-8 | |
| Well Location: | No Data | Latitude: | 33° 08' 25" N | |
| | No Dula | Longitude: | 101° 48' 11" W | |
| Well County: | Lynn | Elevation: | No Data | |
| | | | | |
| Type of Work: | New Well | Proposed Use: | Domestic | |

Drilling Start Date: 6/12/2012

Drilling End Date: 6/12/2012

| | Diameter (in.) | | Top Depth (ft.) | Bottom Depth | ה (ft.) |
|---------------------------|-----------------|--------------------|---------------------------------|---|---------|
| Borehole: | 8.75 | | 0 | 55 | |
| Drilling Method: | Mud (Hydraulio | c) Rotary | | | |
| Borehole Completion: | Filter Packed | | | | |
| | Top Depth (ft.) | Bottom Depth (ft.) | Filter | Material | Size |
| Filter Pack Intervals: | 15 | 55 | Gr | avel | 3/8 |
| | Top Depth (ft.) | Bottom Depth | (ft.) D | escription (number of sacks & material) | |
| Annular Seal Data: | 0 | 15 | | 8 sacks cement | |
| Seal Method: m i | ixed with water | | Distance to F | Property Line (ft.): N | o Data |
| Sealed By: R. Blake Moore | | | Distance to Sep concentrated co | tic Field or other ontamination (ft.): N | lo Data |
| | | | Distance to | Septic Tank (ft.): N | o Data |
| | | | Metho | od of Verification: N | o Data |
| Surface Completion: | Surface Sleeve | Installed | | | |
| Water Level: | No Data | | | | |
| Packers: | No Data | | | | |
| Type of Pump: | No Data | | | | |
| Well Tests: | No Test Data | Specified | | | |

| | | Strata Depth (ft.) | Water Type | | |
|---------------|---------------------------|--|---|---|--|
| Water Qual | ity: | No Data | No Data | | |
| | | | Chemical Analysis | Made: Unknow | 'n |
| | | Did the driller | knowingly penetrate any strata contained injurious constitu | which Jents?: Unknow | 'n |
| Certification | n Data: T d c tl | The driller certified th Iriller's direct superv Forrect. The driller un The report(s) being re | at the driller drilled this well (or ision) and that each and all of th nderstood that failure to comple uturned for completion and resu | the well was drille he statements here ate the required ite bmittal. | d under the ain are true and ms will result in |
| Company li | nformation: | Monte Moore Drill | ing | | |
| | | 1313 N Hwy 137 Lamesa, TX 7933 | 1 | | |
| Driller Nam | e: | Monte Moore | Li | cense Number: | 3289 |
| Apprentice | Name: | R. Blake Moore | Aŗ | pprentice Number: | 56975 |
| Comments: | | No Data | | | |
| | | | | | |

Lithology: DESCRIPTION & COLOR OF FORMATION MATERIAL

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|----------------------------|
| 0 | 4 | Top soil |
| 4 | 25 | Caliche |
| 25 | 33 | Rock |
| 33 | 40 | Gravel and white clay |
| 40 | 44 | Brown sand and Broken rock |
| 44 | 50 | Gravel and clay mix |
| 50 | 55 | Blue clay |

Casing: BLANK PIPE & WELL SCREEN DATA

| Dia. (in.) | New/Used | Туре | Setting From/To (ft.) | | | |
|------------|-----------------------------|---------|-----------------------|--|--|--|
| 5 in Ne | w Plastic I | Perf 55 | -35 .035 | | | |
| 5 in Ne | 5 in New Plastic Solid 35-0 | | | | | |

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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Texas Department of Licensing and Regulation P.O. Box 12157 Austin, TX 78711 (512) 334-5540

| STATE OF TEXAS WELL REPORT for Tracking #366718 | | | | |
|---|----------------------------------|---------------|----------------|--|
| Owner: | Vicki Sybert | Owner Well #: | No Data | |
| Address: | 4513 18th St Lubbock TX 79416 | Grid #: | 23-50-9 | |
| Well Location: | No Data | Latitude: | 33° 08' 03" N | |
| | | Longitude: | 101° 47' 04" W | |
| Well County: | Lynn | Elevation: | No Data | |
| | | | | |
| Type of Work: | New Well | Proposed Use: | Stock | |

Drilling Start Date: 6/16/2014

Drilling End Date: 6/16/2014

| | Diameter (| Diameter (in.) | | Top Depth (ft.) | | Bottom Depth (ft.) | |
|------------------------|-----------------|---------------------|---|-----------------|---------------------|-------------------------|---|
| Borehole: | 8.75 | | 0 | | 71 | | |
| Drilling Method: | Mud (Hydraulio | c) Rotary | | | | | |
| Borehole Completion: | Filter Packed; | cked; Straight Wall | | | | | |
| | Top Depth (ft.) | Bottom Dep | th (ft.) | Filter M | aterial | Size | |
| Filter Pack Intervals: | 20 | 71 | | Gra | vel | #12/20 |) |
| | Top Depth (ft.) | Botton | n Depth (ft.) | Des | cription (number of | of sacks & material) | |
| Annular Seal Data: | 1 | | 3 | | Cemen | ent | |
| | 3 | | 20 | 8 - Holep | | lug | |
| Seal Method: Po | ured | | Di | stance to Pro | operty Line (ft.): | >200 | |
| Sealed By: Driller | | | Distance to Septic Field or other concentrated contamination (ft.): >1000 | | | | |
| | | | [| Distance to S | Septic Tank (ft.): | No Data | |
| | | | | Method | of Verification: | GPS & Visua Estimate | I |
| Surface Completion: | Unknown | | | | | | |
| Water Level: | No Data | | | | | | |
| Packers: | No Data | | | | | | |
| Type of Pump: | No Data | | | | | | |
| Well Tests: | Bailer | Yiel | d: 1 GPM w | ith 15 ft. dra | wdown after .2 | 5 hours | |

| | Strata Depth (ft.) | Water Type | | |
|----------------------|---|---|---|---|
| Water Quality: | No Data | Fresh | | |
| | | Chemical Analysis Made: | No | |
| | Did the driller | knowingly penetrate any strata which contained injurious constituents?: | No | |
| Certification Data: | The driller certified th driller's direct superv correct. The driller u the report(s) being re | hat the driller drilled this well (or the we ision) and that each and all of the state nderstood that failure to complete the neturned for completion and resubmittal. | ll was drille ments her equired ite | ed under the rein are true and ems will result in |
| Company Information: | Carter Drilling Co. | ., Inc. | | |
| | 3301 - 56St Lubbock, TX 7941 | 13 | | |
| Driller Name: | Bruce Carter | License | Number: | 2320 |
| Comments: | No Data | | | |

Lithology: **DESCRIPTION & COLOR OF FORMATION MATERIAL**

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|-------------|
| 0 | 1 | Top Soil |
| 1 | 5 | Rock |
| 5 | 22 | Sandstone |
| 22 | 33 | Rock |
| 33 | 47 | Sandstone |
| 47 | 50 | Sand |
| 50 | 61 | Yellow Clay |
| 61 | 70 | Blue Clay |

Casing:

Setting From/To (ft.)

BLANK PIPE & WELL SCREEN DATA

5" PVC 0-71

Slotted 31-71 .020"

Dia. (in.) New/Used Type

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation P.O. Box 12157 Austin, TX 78711 (512) 334-5540

WELL SCHEDULE

| Aquifer(s) Project No | State We | 11 No. 23 | 3-50 | 80 |
|---|-----------------|-----------------|--------------------|-----------|
| Field No./Owner's Well No | _ County_ | LYN | ~ | |
| . Location:‡,Section,Block,Survey | , Lat. 3 | 3-0 8-3 | Long. | 1-17-5 |
| | | | ······· | |
| . Owner: ElMer GUNNels Address: Tak | oka | Texa | 5 | |
| Tenant (other):Address:Address: | | | | |
| Driller:Address: | | | | |
| 3. Land Surface Elevation: 3050 ft. above ms1 determined by _ To P | <u>o</u> | | | |
| . <u>Drilled: FC6; Oug</u> , Cable Tool, Rotary, Air, | - | | | |
| 5. <u>Depth</u> : Reptft. Measft. | CA Carto | SING, BLANK | PIPE & WEI | L SCREEN |
| . Borehole Completion: Open Hole, Straight Wall, Underreamed, Gravel Packed | Diam. | Type | TL. to Setting | TL. |
| · <u>Pump</u> : MfrTypeType | <u>(in.)</u> | | from | to |
| No. Stages, Bowls Diamin., Settingft. | 12 | GAIV | 0 | 44 |
| Column Diamin., Length Tai?pipeft. | <u> </u> | | | <u> </u> |
| B. Motor: MfrFuelHPHP | | | | · |
|). <u>Yield</u> : Flowgpm, Pumpgpm, Meas., Rept., EstDate | | | | <u> </u> |
| . <u>Performance Test</u> : DateLength of TestMade by | | ļ | | <u> </u> |
| Static Levelft. Pumping Levelft. Drawdownft. | | <u> </u> | | <u> </u> |
| Productiongpm Specific Capacitygpm/ft. | | | | <u> </u> |
| . Quality: (Remarks on taste, odor, color, etc.) | _ | | | <u> </u> |
| Analyses | | | | + |
| DateLaboratoryTDSSp Cond | | | | ┼─── |
| DateLaboratoryTDSSp Cond | | | | <u> </u> |
| . Other data available (as circled): Pumping Test, Power & Yield Test, Drillers Log, | | | | |
| Formation Samples, Geophysical Log(s) | _ L | L | AT | 1 |
| . Water Level (s): 27.20 ft. rept. 10-19 1979above | which | 150,00ft | abeve below Lar | d Surface |
| ft. rept. 19 above | which | isft | above La | d Surface |
| . <u>Use</u> : Dom., Stock, Public Supply, Ind., <u>Irr</u> ., Observation, Other (Test Hole, | Oil Test, e | tc.) <u>NOT</u> | Use | |
| . Recorded by: G ADAIN Source of data: OBS OWNEN | | Date: | | |
| . Remarks: IRR WELLS NEZV by PUMPS MOST C | oF T. r | 1e | | |
| Location or Sketch: | | MP | LIFT I | Bucke |
| | | | 0.0 | 0 |
| | | | TO P | Casm |
| | | | | |

W/L Obs. Well _______ W/Q Obs. Well _______ State Well No. _________



SR 23-50-801

ATTACHMENT L

Groundwater Quality Report

Section 7. Groundwater Quality

For this short report, water quality will pertain to the most shallow, yet most substantial aquifer in the region, the Ogallala. Water quality in this aquifer is good; however, it is considered 'hard' due to higher concentrations of calcium and magnesium. In addition, high levels of nitrates, fluoride and arsenic have been observed in the historical well sampling within and around the City of Tahoka in concentrations exceeding the MCL for primary and secondary water quality standards.

Two minor aquifers, the Edwards-Trinity (High Plains) and Dockum aquifers underly the Ogallala, yet water quality declines to slightly saline to brackish, TDS concentrations typically corresponding to the depth of the aquifer being tested. Due to the relative depth to the water table, the generous saturated thickness that averages 54 feet, and the good water quality found throughout the region and at all depths, most municipal, private domestic, and irrigation wells are developed in the Ogallala aquifer. See Figure 1 below for a representation of the various aquifers in Lynn County and their respective base, water table and surface elevations.



Figure 1 – Cross Section of Local Aquifers¹

Ogallala aquifer, recharge occurs primarily through percolation of precipitation through the soils and underlying sediments. Playa lakes are primary points for most natural recharge, contributing 10-100 times more recharge than surrounding lands.¹



North-South regional cross section

Referencing the USGS – Water Well Map, the depth to the Ogallala water table in Well 75956, located 1.2 miles north of the effluent disposal site was 40.36' from the surface (2023). The depth to the water table decreases rapidly as one moves south. The next closest well to the effluent disposal site is located 3.5 miles southeast and only has a depth to the water table of 14.96 feet (2023). Based on the driller's logs found for the wells identified within ½-mile from the irrigation site boundary, eight of the ten logs documented a depth to groundwater at between 15' and 25' from the surface.

Groundwater movement in the Ogallala aquifer generally flows from the NW to the SE at variable rates but approximating 150 feet per year. No monitoring of the groundwater quality below the effluent disposal site has been performed in the past. No dedicated monitoring wells have been constructed. According to online water records from High Plains Underground Water Conservation District (HPWD) and the Texas Water Development Board, there are ten (10) wells located within a ½-mile of the application site boundary. All are drilled to access water in the Ogallala. Six (6) have the characteristics of a domestic, residential supply, two (2) are most likely irrigation wells, and two (2) are unknown.

The HPWD records indicate that only two wells are located downgradient of the irrigation area, both located approximately 0.85 miles to the SE identified as 635734 and 635735 on the USGS – Water Well Map. Both wells were drilled/developed in March 2023. At the approximated groundwater flowrate provided by HPWD, this would calculate out to 29.9 years of background data before any influence of the effluent could be observed.

The wastewater effluent is disposed of by surface irrigation utilizing center pivot systems that contain drop lines with spray nozzles that efficiently distribute the effluent across the entire range of the pivot structure.

The maximum effluent application rate is determined by the water balance, based upon evapotranspiration rates and required leaching. However, the nitrogen balance limits this application rate a bit further, reducing it to 69.12 acre-in per acre per year, or 5.76 acre-ft per acre per year.

To protect the underlying aquifer from wastewater contamination, the facultative lagoon and both holding ponds are constructed with compacted clay liners. Originally constructed in 2002, these liners were specified for 24-inch compacted thickness with a maximum permeability of $1.0 \times 10-7$ cm/sec, compliant with TAC requirements at that time.

In accordance with TAC §309.13(c)(1) and (2), the facility maintains an appropriate buffer from nearby wells. The treatment pond(s) maintain at least a 500-foot buffer from any public water well, and the ponds and land where effluent is applied is located at least 150 feet from a private water well, whether it is domestic, stock, or irrigation.

This office successfully located sealed RECORD DRAWINGS for the wastewater treatment plant constructed in 2002, including details of the irrigation area and the tailwater pond. Not only did these drawings confirm the above specifications for the liner installation, the drawings indicate the exact location of the tailwater berms, which effectively contain all runoff from the irrigation area before it can pond within the existing playa lake. See Exhibit 1 at the end of this report for a reproduction of Sheet 9 from the RECORD set that defines the extent of the effluent disposal site and the runoff control measures constructed.

Note that although this Exhibit 1 displays multiple large center pivot systems and two (2) small pivot systems to encompass a once-designated 208 acre irrigation area, this permit application proposes to reduce the area to 143 acres as to remove the

requirement for frequent re-mobilization of the center pivot infrastructure to other irrigation risers. The water balance confirms this reduction can be safely achieved while maintaining enough storage for periods of reduced application rates. Figure 2 below represents the tailwater return structure with pump that prevents runoff and limits the amount of effluent that is capable of being ponded in this playa basin.



Figure 2 – Tailwater Pond Pump Detail



ATTACHMENT M

USDA Soil Survey Map and Reports

- Hydrologic Soil GroupEngineering PropertiesSaturated Hydraulic Conductivity



USDA Natural Resources Conservation Service Web Soil Survey National Cooperative Soil Survey



USDA

Map Unit Legend

| Map Unit Symbol | Map Unit Name | Acres in AOI | Percent of AOI |
|-----------------------------|---|--------------|----------------|
| AcB | Acuff loam, 1 to 3 percent slopes | 13.9 | 6.2% |
| EsA | Estacado loam, 0 to 1 percent slopes | 66.3 | 29.6% |
| LhA | Lenorah-Hindman complex, 0 to 2 percent slopes, very rarely flooded | 11.4 | 5.1% |
| PGE | Potter soils, 3 to 20 percent slopes | 0.5 | 0.2% |
| РоА | Portales loam, 0 to 1 percent slopes | 102.9 | 45.9% |
| РоВ | Portales loam, 1 to 3 percent slopes | 29.2 | 13.0% |
| Totals for Area of Interest | | 224.2 | 100.0% |



USDA Natural Resources

Conservation Service

Web Soil Survey National Cooperative Soil Survey 3/4/2024 Page 1 of 4





Hydrologic Soil Group

| Map unit symbol | Map unit name | Rating | Acres in AOI | Percent of AOI |
|---------------------------|--|--------|--------------|----------------|
| AcB | Acuff loam, 1 to 3 percent slopes | В | 13.9 | 6.2% |
| EsA | Estacado loam, 0 to 1 percent slopes | В | 66.3 | 29.6% |
| LhA | Lenorah-Hindman complex, 0 to 2 percent slopes, very rarely flooded | С | 11.4 | 5.1% |
| PGE | Potter soils, 3 to 20 percent slopes | С | 0.5 | 0.2% |
| РоА | Portales loam, 0 to 1 percent slopes | В | 102.9 | 45.9% |
| РоВ | Portales loam, 1 to 3 percent slopes | В | 29.2 | 13.0% |
| Totals for Area of Intere | est | | 224.2 | 100.0% |

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition Component Percent Cutoff: None Specified Tie-break Rule: Higher



Engineering Properties

This table gives the engineering classifications and the range of engineering properties for the layers of each soil in the survey area.

Hydrologic soil group is a group of soils having similar runoff potential under similar storm and cover conditions. The criteria for determining Hydrologic soil group is found in the National Engineering Handbook, Chapter 7 issued May 2007(http://directives.sc.egov.usda.gov/OpenNonWebContent.aspx? content=17757.wba). Listing HSGs by soil map unit component and not by soil series is a new concept for the engineers. Past engineering references contained lists of HSGs by soil series. Soil series are continually being defined and redefined, and the list of soil series names changes so frequently as to make the task of maintaining a single national list virtually impossible. Therefore, the criteria is now used to calculate the HSG using the component soil properties and no such national series lists will be maintained. All such references are obsolete and their use should be discontinued. Soil properties that influence runoff potential are those that influence the minimum rate of infiltration for a bare soil after prolonged wetting and when not frozen. These properties are depth to a seasonal high water table, saturated hydraulic conductivity after prolonged wetting, and depth to a layer with a very slow water transmission rate. Changes in soil properties caused by land management or climate changes also cause the hydrologic soil group to change. The influence of ground cover is treated independently. There are four hydrologic soil groups, A, B, C, and D, and three dual groups, A/D, B/D, and C/D. In the dual groups, the first letter is for drained areas and the second letter is for undrained areas.

The four hydrologic soil groups are described in the following paragraphs:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

Depth to the upper and lower boundaries of each layer is indicated.

Texture is given in the standard terms used by the U.S. Department of Agriculture. These terms are defined according to percentages of sand, silt, and clay in the fraction of the soil that is less than 2 millimeters in diameter. "Loam," for example, is soil that is 7 to 27 percent clay, 28 to 50 percent silt, and less than 52 percent sand. If the content of particles coarser than sand is 15 percent or more, an appropriate modifier is added, for example, "gravelly."

Classification of the soils is determined according to the Unified soil classification system (ASTM, 2005) and the system adopted by the American Association of State Highway and Transportation Officials (AASHTO, 2004).

The Unified system classifies soils according to properties that affect their use as construction material. Soils are classified according to particle-size distribution of the fraction less than 3 inches in diameter and according to plasticity index, liquid limit, and organic matter content. Sandy and gravelly soils are identified as GW, GP, GM, GC, SW, SP, SM, and SC; silty and clayey soils as ML, CL, OL, MH, CH, and OH; and highly organic soils as PT. Soils exhibiting engineering properties of two groups can have a dual classification, for example, CL-ML.

The AASHTO system classifies soils according to those properties that affect roadway construction and maintenance. In this system, the fraction of a mineral soil that is less than 3 inches in diameter is classified in one of seven groups from A-1 through A-7 on the basis of particle-size distribution, liquid limit, and plasticity index. Soils in group A-1 are coarse grained and low in content of fines (silt and clay). At the other extreme, soils in group A-7 are fine grained. Highly organic soils are classified in group A-8 on the basis of visual inspection.

If laboratory data are available, the A-1, A-2, and A-7 groups are further classified as A-1-a, A-1-b, A-2-4, A-2-5, A-2-6, A-2-7, A-7-5, or A-7-6. As an additional refinement, the suitability of a soil as subgrade material can be indicated by a group index number. Group index numbers range from 0 for the best subgrade material to 20 or higher for the poorest.

Percentage of rock fragments larger than 10 inches in diameter and 3 to 10 inches in diameter are indicated as a percentage of the total soil on a dry-weight basis. The percentages are estimates determined mainly by converting volume percentage in the field to weight percentage. Three values are provided to identify the expected Low (L), Representative Value (R), and High (H).

Percentage (of soil particles) passing designated sieves is the percentage of the soil fraction less than 3 inches in diameter based on an ovendry weight. The sieves, numbers 4, 10, 40, and 200 (USA Standard Series), have openings of 4.76, 2.00, 0.420, and 0.074 millimeters, respectively. Estimates are based on laboratory tests of soils sampled in the survey area and in nearby areas and on estimates made in the field. Three values are provided to identify the expected Low (L), Representative Value (R), and High (H).

Liquid limit and *plasticity index* (Atterberg limits) indicate the plasticity characteristics of a soil. The estimates are based on test data from the survey area or from nearby areas and on field examination. Three values are provided to identify the expected Low (L), Representative Value (R), and High (H).

References:

American Association of State Highway and Transportation Officials (AASHTO). 2004. Standard specifications for transportation materials and methods of sampling and testing. 24th edition.

American Society for Testing and Materials (ASTM). 2005. Standard classification of soils for engineering purposes. ASTM Standard D2487-00.

Report—Engineering Properties

Absence of an entry indicates that the data were not estimated. The asterisk '*' denotes the representative texture; other possible textures follow the dash. The criteria for determining the hydrologic soil group for individual soil components is found in the National Engineering Handbook, Chapter 7 issued May 2007(http://directives.sc.egov.usda.gov/ OpenNonWebContent.aspx?content=17757.wba). Three values are provided to identify the expected Low (L), Representative Value (R), and High (H).

| | Engineering Properties–Lynn County, Texas | | | | | | | | | | | | | |
|--|--|---------|---------|-------------------------------------|---------------|--------------------|---------------|---------|----------------------------------|-----------------|---------------|--------------|--------------|--------------|
| Map unit symbol and | nd Pct. of Hydrolo Depth USDA textu map gic unit group | Hydrolo | Depth | USDA texture | Classi | fication | Pct Fragments | | Percentage passing sieve number— | | | | Liquid | Plasticit |
| son name | | | Unified | AASHTO | >10 inches | 3-10 inches | 4 | 10 | 40 | 200 | | y index | | |
| | | | In | | | | L-R-H | L-R-H | L-R-H | L-R-H | L-R-H | L-R-H | L-R-H | L-R-H |
| AcB—Acuff loam, 1 to 3 percent slopes | | | | | | | | | | | | | | |
| Acuff | 85 | В | 0-12 | Loam | CL | A-4, A-6, A-7-6 | 0- 0- 0 | 0- 0- 0 | 100-100 -100 | 100-100 -100 | 90-98-1 00 | 60-67- 74 | 27-36 -43 | 8-13-19 |
| | | | 12-38 | Clay loam, loam, sandy clay loam | CL | A-6, A-7-6 | 0- 0- 0 | 0- 0- 0 | 100-100 -100 | 100-100 -100 | 91-98-1 00 | 55-63- 67 | 31-40 -45 | 13-19-2 2 |
| | | | 38-58 | Clay loam, sandy clay loam | CL, SM | A-4, A-6, A-7-6 | 0- 0- 0 | 0- 0- 0 | 90-93- 97 | 80-87- 95 | 73-85- 95 | 45-54- 67 | 27-35 -45 | 5-14-24 |
| | | | 58-80 | Clay loam, loam, sandy clay loam | CL, SC | A-4, A-6, A-7-6 | 0- 0- 0 | 0- 0- 0 | 93-96- 99 | 86-91- 98 | 78-89- 98 | 45-55- 69 | 27-37 -48 | 8-17-27 |



| Engineering Properties–Lynn County, Texas | | | | | | | | | | | | | | |
|--|---------|---------|---------|-------------------------------|---------------|------------|---------------|----------------|----------------------------------|----------------|---------------|--------------|--------------|--------------|
| Map unit symbol and | Pct. of | Hydrolo | o Depth | USDA texture | Classi | fication | Pct Fragments | | Percentage passing sieve number— | | | | Liquid | Plasticit |
| son name | unit | group | | | Unified | AASHTO | >10 inches | 3-10 inches | 4 | 10 | 40 | 200 | | y index |
| | | | In | | | | L-R-H | L-R-H | L-R-H | L-R-H | L-R-H | L-R-H | L-R-H | L-R-H |
| EsA—Estacado loam, 0 to 1 percent slopes | | | | | | | | | | | | | | |
| Estacado | 85 | В | 0-6 | Loam | CL | A-6, A-7-6 | 0- 0- 0 | 0- 0- 0 | 99-100- 100 | 98-100- 100 | 90-98-1 00 | 55-63- 70 | 26-35 -45 | 8-13-19 |
| | | | 6-19 | Clay loam, sandy clay loam | CL, CH | A-7-6 | 0- 0- 0 | 0- 0- 0 | 100-100 -100 | 98-100- 100 | 85-99-1 00 | 62-75- 81 | 34-46 -53 | 15-22-2 9 |
| | | | 19-38 | Clay loam, sandy clay loam | CL, CH | A-7-6 | 0- 0- 0 | 0- 0- 0 | 100-100 -100 | 98-100- 100 | 85-99-1 00 | 62-75- 81 | 34-46 -53 | 15-22-2 9 |
| | | | 38-50 | Clay loam, sandy clay loam | CL, CH, SC | A-7-6 | 0- 0- 0 | 0- 0- 0 | 90-92-1 00 | 87-90-1 00 | 72-88-1 00 | 48-64- 73 | 32-45 -51 | 15-23-2 9 |
| | | | 50-80 | Clay loam, sandy clay loam | CL, CH, SC | A-7-6 | 0- 0- 0 | 0- 0- 0 | 88-94- 99 | 84-91- 98 | 67-89- 98 | 41-61- 76 | 32-44 -59 | 15-21-3 6 |



| | Engineering Properties–Lynn County, Texas | | | | | | | | | | | | | |
|--|---|--------------|-------|--|------------------------|-----------------------------------|---------------|----------------|----------------|----------------|---------------|--------------|--------------|--------------|
| Map unit symbol and | Pct. of | Hydrolo | Depth | USDA texture | Classi | fication | Pct Fra | gments | Percent | age passi | ng sieve r | number— | Liquid | Plasticit |
| Son name | map unit | gic group | group | | Unified | AASHTO | >10 inches | 3-10 inches | 4 | 10 | 40 | 200 | - limit | y index |
| | | | In | | | | L-R-H | L-R-H | L-R-H | L-R-H | L-R-H | L-R-H | L-R-H | L-R-H |
| LhA—Lenorah- Hindman complex, 0 to 2 percent slopes, very rarely flooded | | | | | | | | | | | | | | |
| Lenorah | 50 | С | 0-8 | Fine sandy loam | SC-SM, SC | A-2-4, A-4 | 0- 0- 0 | 0- 0- 0 | 98-100- 100 | 98-100- 100 | 87-97-1 00 | 32-39- 47 | 20-26 -33 | 4-7 -12 |
| | | | 8-22 | Loam, fine sandy Ioam, sandy clay Ioam | CL, SC | A-6, A-7-6 | 0- 0- 0 | 0- 0- 0 | 98-100- 100 | 98-100- 100 | 88-97-1 00 | 43-50- 58 | 29-35 -46 | 12-15-2 3 |
| | | | 22-47 | Loam, fine sandy Ioam, sandy clay Ioam | CL, SC | A-2-4, A-2-5, A-6, A-7-6 | 0- 0- 0 | 0- 0- 0 | 82-88- 97 | 78-85- 96 | 70-82- 96 | 32-39- 53 | 28-31 -43 | 10-12-1 9 |
| | | | 47-65 | Fine sandy loam, loamy fine sand | SC-SM, SC, SM | A-2-4 | 0- 0- 0 | 0- 0- 0 | 98-99-1 00 | 96-98-1 00 | 81-91-1 00 | 21-28- 38 | 16-20 -30 | 1-4 -11 |
| | | | 65-80 | Loamy fine sand, sand | SC-SM, SP-SM, SM | A-2-4 | 0- 0- 0 | 0- 0- 0 | 98-99-1 00 | 97-98-1 00 | 68-76- 86 | 11-14- 21 | 0-18 -21 | NP-3 -4 |
| Hindman | 30 | A | 0-23 | Fine sand | SC, SM | A-2-4 | 0- 0- 0 | 0- 0- 0 | 99-100- 100 | 98-100- 100 | 96-98-1 00 | 20-22- 34 | 0-16 -28 | NP-1 -10 |
| | | | 23-38 | Fine sandy loam, loamy fine sand | SC-SM, SC, SM | A-2-4, A-2-5, A-7-6 | 0- 0- 0 | 0- 0- 0 | 99-100- 100 | 98-100- 100 | 92-96-1 00 | 21-24- 47 | 16-20 -41 | 2-4 -21 |
| | | | 38-46 | Fine sandy loam | CL, SC, SM | A-2-4, A-2-5, A-4, A-7-6 | 0- 0- 0 | 0- 0- 0 | 98-100- 100 | 98-100- 100 | 88-97-1 00 | 34-42- 55 | 19-27 -41 | 3-9 -20 |
| | | | 46-60 | Fine sandy loam, loam, sandy clay loam | CL, SM | A-6 | 0- 0- 0 | 0- 0- 0 | 96-98-1 00 | 95-98-1 00 | 84-97-1 00 | 39-51- 61 | 18-30 -40 | 1-11-20 |
| | | | 60-80 | Loamy fine sand, fine sand | SC, SM | A-2-4 | 0- 0- 0 | 0- 0- 0 | 99-100- 100 | 98-100- 100 | 96-98-1 00 | 19-21- 31 | 0-16 -26 | NP-1 -9 |



| Engineering Properties–Lynn County, Texas | | | | | | | | | | | | | | |
|--|------------|---------|-------|--|------------------------|--------------------|----------------|---------|-----------------|-----------------|---------------|--------------|--------------|-----------|
| Map unit symbol and | Pct. of | Hydrolo | Depth | USDA texture | Classi | fication | Pct Fra | agments | Percenta | age passi | ng sieve r | number— | Liquid | Plasticit |
| soli name | unit group | | | Unified | AASHTO | >10 inches | 3-10 inches | 4 | 10 | 40 | 200 | | y index | |
| | | | In | | | | L-R-H | L-R-H | L-R-H | L-R-H | L-R-H | L-R-H | L-R-H | L-R-H |
| PGE—Potter soils, 3 to 20 percent slopes | | | | | | | | | | | | | | |
| Potter | 85 | С | 0-6 | Gravelly loam | MH, ML, GC | A-4, A-6, A-7-5 | 0- 0- 0 | 0- 0- 0 | 68-81- 88 | 64-78- 87 | 58-75- 87 | 40-53- 70 | 30-39 -54 | 9-13-24 |
| | | | 6-15 | Very gravelly loam, very gravelly sandy loam | GC-GM, GC | A-2-4, A-7-6 | 0- 0- 0 | 0- 0- 0 | 46-61- 63 | 39-47- 58 | 27-35- 53 | 18-23- 39 | 25-27 -45 | 7-8 -25 |
| | | | 15-29 | Very gravelly loam, extremely gravelly sandy loam, extremely gravelly loam, very gravelly sandy loam | GP-GC, GC | A-2-4, A-7-6 | 0- 0- 0 | 0- 0- 0 | 19-41- 64 | 13-32- 60 | 9-23- 54 | 6-15- 39 | 25-27 -44 | 7-9 -25 |
| | | | 29-80 | Extremely gravelly loam, very gravelly fine sandy loam, very gravelly loam, extremely gravelly fine sandy loam | GP-GC, GC | A-2-4, A-7-6 | 0- 0- 0 | 0- 0- 0 | 19-35- 64 | 13-26- 60 | 11-21- 59 | 6-11- 37 | 25-25 -44 | 7-8 -25 |
| PoA—Portales loam, 0 to 1 percent slopes | | | | | | | | | | | | | | |
| Portales | 85 | В | 0-15 | Loam | CL | A-6 | 0- 0- 0 | 0- 0- 0 | 100-100 -100 | 100-100 -100 | 94-99-1 00 | 60-64- 70 | 26-33 -40 | 7-12-17 |
| | | | 15-35 | Sandy clay loam, loam, clay loam | CL | A-6 | 0- 0- 0 | 0- 0- 0 | 100-100 -100 | 100-100 -100 | 91-99-1 00 | 64-73- 84 | 28-39 -52 | 8-16-27 |
| | | | 35-43 | Clay loam, sandy clay loam, loam | CL | A-6 | 0- 0- 0 | 0- 0- 0 | 86-92- 99 | 83-90- 98 | 77-89- 98 | 53-63- 82 | 24-33 -47 | 4-13-26 |
| | | | 43-80 | Loam, sandy clay Ioam, clay loam | SC-SM, CL-ML, CL | A-6 | 0- 0- 0 | 0- 0- 0 | 81-89- 97 | 77-86- 96 | 62-85- 96 | 41-62- 71 | 24-39 -45 | 4-16-23 |



| | Engineering Properties–Lynn County, Texas | | | | | | | | | | | | | |
|--|---|---------|-------|-------------------------------------|-------------------------|----------|---------------|----------------|----------------------------------|-----------------|---------------|--------------|--------------|-----------|
| Map unit symbol and | Pct. of | Hydrolo | Depth | oth USDA texture | Classi | fication | Pct Fragments | | Percentage passing sieve number— | | | | Liquid | Plasticit |
| soil name | map unit | group | | | Unified | AASHTO | >10 inches | 3-10 inches | 4 | 10 | 40 | 200 | limit | y index |
| | | | In | | | | L-R-H | L-R-H | L-R-H | L-R-H | L-R-H | L-R-H | L-R-H | L-R-H |
| PoB—Portales loam, 1 to 3 percent slopes | | | | | | | | | | | | | | |
| Portales | 85 | В | 0-14 | Loam | CL | A-6 | 0- 0- 0 | 0- 0- 0 | 100-100 -100 | 100-100 -100 | 94-99-1 00 | 60-64- 70 | 26-33 -40 | 7-12-17 |
| | | | 14-35 | Sandy clay loam, loam, clay loam | CL | A-6 | 0- 0- 0 | 0- 0- 0 | 100-100 -100 | 100-100 -100 | 91-99-1 00 | 64-73- 84 | 28-39 -52 | 8-16-27 |
| | | | 35-43 | Clay loam, sandy clay loam, loam | CL | A-6 | 0- 0- 0 | 0- 0- 0 | 86-92- 99 | 83-90- 98 | 77-89- 98 | 53-63- 82 | 24-33 -47 | 4-13-26 |
| | | | 43-80 | Loam, sandy clay loam, clay loam | CL-ML, CL, SC- SM | A-6 | 0- 0- 0 | 0- 0- 0 | 81-89- 97 | 77-86- 96 | 62-85- 96 | 41-62- 71 | 24-39 -45 | 4-16-23 |

Data Source Information

Soil Survey Area: Lynn County, Texas Survey Area Data: Version 20, Sep 5, 2023





USDA Natural Resources Conservation Service Web Soil Survey National Cooperative Soil Survey



| Map unit symbol | Map unit name | Rating (micrometers per second) | Acres in AOI | Percent of AOI |
|--------------------------|--|---------------------------------|--------------|----------------|
| АсВ | Acuff loam, 1 to 3 percent slopes | 9.0000 | 13.9 | 6.2% |
| EsA | Estacado loam, 0 to 1 percent slopes | 6.7761 | 66.3 | 29.6% |
| LhA | Lenorah-Hindman complex, 0 to 2 percent slopes, very rarely flooded | 17.2609 | 11.4 | 5.1% |
| PGE | Potter soils, 3 to 20 percent slopes | 7.5391 | 0.5 | 0.2% |
| РоА | Portales loam, 0 to 1 percent slopes | 9.0000 | 102.9 | 45.9% |
| РоВ | Portales loam, 1 to 3 percent slopes | 9.0000 | 29.2 | 13.0% |
| Totals for Area of Inter | rest | | 224.2 | 100.0% |

Saturated Hydraulic Conductivity (Ksat)

Description

Saturated hydraulic conductivity (Ksat) refers to the ease with which pores in a saturated soil transmit water. The estimates are expressed in terms of micrometers per second. They are based on soil characteristics observed in the field, particularly structure, porosity, and texture. Saturated hydraulic conductivity is considered in the design of soil drainage systems and septic tank absorption fields.

For each soil layer, this attribute is actually recorded as three separate values in the database. A low value and a high value indicate the range of this attribute for the soil component. A "representative" value indicates the expected value of this attribute for the component. For this soil property, only the representative value is used.

The numeric Ksat values have been grouped according to standard Ksat class limits.

Rating Options

Units of Measure: micrometers per second Aggregation Method: Dominant Component Component Percent Cutoff: None Specified Tie-break Rule: Fastest Interpret Nulls as Zero: No
Layer Options (Horizon Aggregation Method): Depth Range (Weighted Average) Top Depth: 0 Bottom Depth: 18 Units of Measure: Inches

ATTACHMENT N

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Soil Analysis for Effluent Disposal Site

| CLII 4 | CLIENT: PKCC 41493 PAUL REYNOLDS PO BOX 778 CLARENDON, TX 79226 SOIL ANALYSIS PESULTS EOP: CITY OF TAHOKA | | | | servi tech www.servitech.com | | | | 6 E. W Box 1 dge C .557.75 .227.7 620.22 | LAB NO: 1397 LAB NO: 1397 LAB NO: INVOICE NO: 509 123 27.2047 DATE RECEIVED: DATE REPORTED: EIEL D IDENTIFICATION: 8 INCH PIVO: | | | | 8741 8986 03/2 04/1 | 87413 - 87415 898654 03/23/2023 04/14/2023 | | | | | | | |
|----------------------|---|-----------------|-------------------|----------------------|------------------------------------|---------------------|------------------------|---|---|--|---------------------|----------------------|--|------------------------------|---|---------------------|------------------|----------------|----------------|---------------------|------------------|----------------|
| SOIL | ANALYSI | S RESUL | TS FOF | R: CITY | OF TAH | IOKA | | | | | | | | | FIELD I | DENTIF | ICATIO | N: 8 IN | CH PIV | OT | | |
| METH | HOD USEI | D: | 1:2 Soil-Water | | 1:2 Soil-Water | XSL(i) | LOI(r) | C | d Reductior | ı | | | | Mehlich 3 | ICP | | | | | | | |
| Lab Number | Sample ID | Sample Depth | Soil pH | Buffer pH | Sol. Salts mmho/cm | Excess Lime | % Organi Matter | c Ni pp | trate-Nitroge m lb. N | en F I/A | Phosphorus ppm P | Potassium ppm K | S ppm | ulfur Ib. S/A | Calcium ppm Ca | Magnesium ppm Mg | Sodium ppm Na | Zinc ppm Zn | Iron ppm Fe | Manganese ppm Mn | Copper ppm Cu | Boron ppm B |
| 87413 | | 0 - 6 | 8.7 | | 0.29 | Hi | 1.0 | 2. | 4 | 4 | 46 | 570 | 23 | 41 | 5500 | 514 | 275 | | | | | |
| 87414 | | 6 - 18 | 8.6 | | 0.54 | Hi | 0.7 | 1. | 6 | 6 | 9 | 424 | 85 | 306 | 7820 | 524 | 444 | | | | | |
| 87415 | | 18 - 30 | 8.2 | | 1.15 | Hi | 0.6 | <1 | .0 | <4 | 7 | 306 | 142 | 511 | 14400 | 686 | 645 | | | | | |
| METH | | D: | KCI | Extr. | TKN | | | | Sat. Paste | | | | | | | | | | | | | |
| Lab Number | Sample ID | Sample Depth | Ammoniu ppm | m Nitrogen Ib. /A | TKN ppm | Saturation % Sat | Electrica Conductiv | l Calci ity mg/L | um Magi Ca mg | nesium /L Mg | Sodium mg/L Na | Sodium Adsorption | | | | | | | | | | |
| 87413 | | 0 - 6 | 3 | 5 | 953 | 43 | 1.05 | 36 | 6 1 | 4.4 | 165 | 5.9 | | | | | | | | | | |
| 87414 | | 6 - 18 | 4 | 14 | 620 | 46 | 1.61 | 63 | 3 2 | 3.3 | 357 | 9.8 | | | | | | | | | | |
| 87415 | | 18 - 30 | 3 | 11 | 404 | 49 | 2.52 | 10 | 5 3 | 4.4 | 398 | 8.6 | | | | | | | | | | |
| FERT | | ECOMME | NDATIO | ONS: | | | - | | | | | POUN | DS AC | TUAL | NUTRIE | NT PEF | ACRE | | | Catio | n Excha | ange |
| Lab Number | Sample | | Crop T Be Grov | o wn | Yi | ield L | Lime, ECC To | ons/A to rai | se pH to: | N | P2O | 5 K2O | Zn | s | Mn (| Cu MaQ | в | Ca | CI | С | apacity | , 3 |
| 97/12 | | | | | | | 6.0 | 6.5 | 7.0 | | | | | | | | _ | | | CEC %H | %K %Ca | %Mg %Na |
| 87414 | | | | | | | | | | | | | | | | | | | | 32 0 | 3 77 | 13 6 |
| 87415 | | | | | | | | | | | | | | | | | | | | 34 0 | 2 73 | 17 8 |
| SPE | | | | IGGEST | | | | | | | | | | | | | | | | | | - |
| Lab I Se Lab I | SPECIAL COMMENTS AND SUGGESTIONS: Lab Number(s):87413 Servi-Tech Laboratory fertilizer recommendations were not requested. Lab Number(s):87413, 87414 SODIUM - CAUTION (4% to 7% Na): The exchangeable soil sodium (as % Na) is moderately high for <u>fine-textured soils</u> and may indicate a developing problem. | | | | | | | | | | | | | | | | | | | | | |
| Lab | Number(s) |):87413.8 | - 7414. 8 | 7415 | - | | | | | | | | | | | | | | | | | |
| Th | e CEC va | lue calcula | ted by | cation s | ummati | on has | been a | adjuste | ed to c | ompe | ensate | for the | oresen | ce of e | xcess lir | ne (reac | tive car | bonates | 6). | | | |
| Analy | ses are rep | resentative | of the s | amples s | ubmitte | d s | Sample | s are r | etained | 1 30 d | lavs aft | er report | of analy | /sis | Explan | ations of | soil ana | llvsis ter | ms are | available | upon re | quest |
| | Revie Appr | | | | | | /iewed | ewed and Michele Lawson proved By: Data Review Coordinator | | | | | Michele Lawson Page 1 (04/14/2023 2: | | | | of 2 48 pm | | | | | |

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| CLIENT: 41493 | PKCC PAUL REYNOLDS PO BOX 778 | servi | 1816 E. Wyatt Earp PO Box 1397 Dodge City, KS 67801 800 557 7509 | LAB NO: INVOICE NO: | 87413 - 87415 898654 |
|------------------|-------------------------------------|--------------------|---|------------------------|-------------------------|
| | CLARENDON, TX 79226 | tech | 620.227.7123 | DATE RECEIVED: | 03/23/2023 |
| | | www.servilecii.com | FUX 020.227,2047 | DATE REPORTED: | 04/14/2023 |

SOIL ANALYSIS RESULTS FOR: CITY OF TAHOKA

FIELD IDENTIFICATION: 8 INCH PIVOT

Lab Number(s):87415

SODIUM - WARNING (7% to 10% Na): The exchangeable soil sodium (as % Na) is high for <u>fine-textured soils</u>. Typical symptoms of a sodium problem are soil sealing, crusting, and poor water penetration. Applying gypsum may be beneficial, but additional soil analysis may be required to determine the rate. If irrigated, water analysis can help identify the sodium source. Contact the laboratory for more information.

 Analyses are representative of the samples submitted
 Samples are retained 30 days after report of analysis
 Explanations of soil analysis terms are available upon request

 Reviewed and Approved By:
 Michele Lawson Data Review Coordinator
 Michele Jawson 04/14/2023 2:48 pm
 Page 2 of 2 04/14/2023 2:48 pm

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Your opinion is valuable to us. Please let us know what you think about our services! Send an email to feedback@servitech.com.

| CLII 4 | E NT: 1493 | PKCC PAUL F PO BO CLARE | EYNOL (778 NDON, ⁻ | DS TX 792: | 26 | | | ser | vi ch | w.servite | ch.com | 1810 PO Doc 800. 620. Fax | 6 E. Wy Box 13 dge Cit 557.750 .227.712 620.227 | att Ear 97 9, KS 67 9 3 2047 | р 7801 | LAB N INVOIO DATE DATE | O: CE NO: RECEIN REPOR | VED: RTED: | 8741 8986 03/23 04/14 | 6 - 874 54 3/2023 1/2023 | 18 | | | | | | | |
|------------------|--|----------------------------------|--------------------------------------|-----------------------|--------------------|---------------------|---------------------------------------|--------------------|----------------------|---------------------|-------------------------------|--|--|---|---------------------|---------------------------------|---------------------------------|----------------|--------------------------------|-----------------------------------|----------------|--|--|--|--|--|--|--|
| SOIL | SOIL ANALYSIS RESULTS FOR: CITY OF TAHOKA FIELD IDENTIFICATION: 6 INCH PIVOT | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| METH | HOD USE | D: | 1:2 Soil-Wate | r | 1:2 Soil-Water | XSL(i) | LOI(r) | Cd Red | duction | | | | Mehlich 3 IC | C | | | | | | | | | | | | | | |
| Lab Number | Sample ID | Samp Dept | e Soil n pH | Buffer pH | Sol. Salts mmho/cm | Excess Lime | % Organic Matter | Nitrate- ppm | Nitrogen Ib. N/A | Phosphorus ppm P | Potassium ppm K | Su ppm | ılfur Ib. S/A | Calcium ppm Ca | Magnesium ppm Mg | Sodium ppm Na | Zinc ppm Zn | Iron ppm Fe | Manganese ppm Mn | Copper ppm Cu | Boron ppm B | | | | | | | |
| 87416 | | 0 - | 8.6 | | 0.41 | Lo | 2.0 | 1.6 | 3 | 48 | 1040 | 24 | 43 | 5540 | 977 | 435 | | | | | | | | | | | | |
| 87417 | | 6 - 1 | 8 8.3 | | 0.73 | Hi | 1.3 | <1.0 | <4 | 11 | 555 | 49 | 176 | 5610 | 862 | 547 | | | | | | | | | | | | |
| 87418 | | 18 - | 30 8.1 | | 1.65 | Hi | 1.0 | <1.0 | <4 | 10 | 338 | 152 | 547 | 7590 | 755 | 942 | | | | | | | | | | | | |
| METH | | D: | К | CI Extr. | TKN | | | Sat. | Paste | | | | | | | | | | | | | | | | | | | |
| Lab Number | Sample ID | Samp Dept | e Ammoni n ppm | um Nitrogen Ib. /A | TKN ppm | Saturation % Sat | Electrical Conductivity mmho/cm | Calcium mg/L Ca | Magnesium mg/L Mg | Sodium mg/L Na | Sodium Adsorption Ratio | | | | | | | | | | | | | | | | | |
| 87416 | | 0 - | 6 3 | 5 | 1777 | 54 | 0.91 | 23 | 9.9 | 139 | 6.1 | | | | | | | | | | | | | | | | | |
| 87417 | | 6 - 1 | 8 4 | 14 | 720 | 54 | 1.46 | 43 | 18.1 | 207 | 6.7 | | | | | | | | | | | | | | | | | |
| 87418 | | 18 - | 30 3 | 11 | 534 | 55 | 3.48 | 155 | 46.6 | 470 | 8.5 | | | | | | | | | | | | | | | | | |
| FERT | | FCOMM | | ONS | | | | | | | | | τι αι Ν | | | | | | | | | | | | | | | |

| FERTILIZER RECOMMENDATIONS: POUNDS ACTUAL NUTRIENT PER ACRE | | | | | | | | | | Cation Exchange | | | | | | | | | | | | | |
|---|--------|---------------------|-------|-----------|---------------|-------------|---|------|-----|-----------------|---|------|----|------|---|----|----|-----|----|------|-------|-----|-----|
| Lab | Sample | Crop To Be Grown | Yield | Lime, ECO | C Tons/A to r | aise pH to: | N | D-O- | K-0 | 7. | | | 0 | 14-0 | | 0- | 0 | | C | Capa | icity | / | |
| Number | IJ | Be Grown | Goal | 6.0 | 6.5 | 7.0 | N | P205 | K2U | Zn | 5 | IVIN | Cu | MgO | в | Ca | CI | CEC | %Н | %K | %Ca | %Mg | %Na |
| 87416 | | | | | | | | | | | | | | | | | | 38 | 0 | 7 | 66 | 22 | 5 |
| 87417 | | | | | | | | | | | | | | | | | | 36 | 0 | 4 | 69 | 20 | 7 |
| 87418 | | | | | | | | | | | | | | | | | | 36 | 0 | 2 | 69 | 17 | 11 |
| SPECIAL COMMENTS AND SUGGESTIONS: | | | | | | | | | | 2 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |

Lab Number(s):87416

Servi-Tech Laboratory fertilizer recommendations were not requested.

Lab Number(s): 87416, 87417

SODIUM - CAUTION (4% to 7% Na): The exchangeable soil sodium (as % Na) is moderately high for <u>fine-textured soils</u> and may indicate a developing problem. If irrigated, an irrigation water analysis can help identify the sodium source. Contact the laboratory for details.

| Analyses are representative of the samples submitted | Samples are ret | ained 30 days after report of analysis | Explanations of soil analysis | Explanations of soil analysis terms are available upon request | | | | |
|--|------------------------------|---|----------------------------------|--|--|--|--|--|
| | Reviewed and Approved By: | Michele Lawson Data Review Coordinator | Michele Lawson | Page 1 of 2 04/14/2023 2:48 pm | | | | |
| The reported analytical results apply only to the | ne sample as it was | s supplied. The report may not be r | reproduced, except in full, with | out permission of ServiTech. | | | | |
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| CLIENT: 41493 | PKCC PAUL REYNOLDS PO BOX 778 | servi | 1816 E. Wyatt Earp PO Box 1397 Dodge City, KS 67801 800 557 7509 | LAB NO: INVOICE NO: | 87416 - 87418 898654 |
|----------------------|-------------------------------------|-------------------|---|------------------------|-------------------------|
| | CLARENDON, TX 79226 | tech | 620.227.7123 | DATE RECEIVED: | 03/23/2023 |
| | | www.servirech.com | Fax 620.227.2047 | DATE REPORTED: | 04/14/2023 |

SOIL ANALYSIS RESULTS FOR: CITY OF TAHOKA

FIELD IDENTIFICATION: 6 INCH PIVOT

Lab Number(s):87417

SODIUM - WARNING (7% to 10% Na): The exchangeable soil sodium (as % Na) is high for <u>fine-textured soils</u>. Typical symptoms of a sodium problem are soil sealing, crusting, and poor water penetration. Applying gypsum may be beneficial, but additional soil analysis may be required to determine the rate. If irrigated, water analysis can help identify the sodium source. Contact the laboratory for more information.

Lab Number(s): 87417, 87418

The CEC value calculated by cation summation has been adjusted to compensate for the presence of excess lime (reactive carbonates).

Lab Number(s):87418

SODIUM - VERY HIGH (over 10% Na): The exchangeable soil sodium (as % Na) is very high for <u>fine-textured soils</u>. Typical symptoms of a sodic soil are surface crusting, soil sealing, and poor water penetration. Additional soil analysis can determine the proper rate of gypsum or other soil amendment. If irrigated, water analysis can help identify the sodium source. Contact the laboratory for more information.

 Analyses are representative of the samples submitted
 Samples are retained 30 days after report of analysis
 Explanations of soil analysis terms are available upon request

 Reviewed and Approved By:
 Michele Lawson Data Review Coordinator
 Michele Jawson 04/14/2023 2:48 pm

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| 61 | |
|------------|--------------|
| Servi-Tech | Laboratories |
| 1 | |

SOIL SAMPLE INFORMATION SHEET

1602 Park West Drive • P.O. Box 169 • Hastings, NE 68902 1816 East Wyatt Earp Blvd. • P.O. Box 1397 • Dodge City, KS 67801 6921 S. Bell • Amarillo, TX 79109

800-557-7509

Date sampled

PKCC

Address

Name

City/St/Zip

Date sent

Fax/email results

| Lab Use Only | Producer / | Field I.D. | Sample I.D. | Depth | Test | Crop | YG |
|-------------------|-------------------|------------|-------------|----------|--------|------|----|
| 087413 | 1. Tahoka, City 2 | 8" Pivot | | O top | PKCC-4 | | |
| 87414 | 2. | | | 6 to 18 | | | |
| 187415 | 3. | | | 18 to 30 | | [| |
| 187416 | 4. | 6" Rivot | | O top | | | |
| 087417 | 5. | | | 10 to 18 | | | |
| 87418 | 6. | | | 181030 | | | |
| and of the second | 7. | | | to | | | |
| | 8, | | | to | | | |
| | 9. | | | to | | | |
| | 10. | | | to | | | |
| | 11 | | | to | | | |
| | 12. | | | to | | | |
| | 13. | | | to | | | |
| | 14. | | | to | | | |
| | 15. | | | to | | | |
| | 16. | | | to | | | _ |
| | 17. | | | to | | | _ |
| | 18. | | | to | | | |
| | 19. | | | to | | _ | |
| | 20. | | | to | | | _ |
| | 21. | | | to | | | |
| | 22. | | | to | | | |
| | 23. | | | to | | | |
| | 24. | | | to | | | _ |
| | 25. | | | to | | | |
| | 26. | | | to | | | |
| | 27. | | | to | | | |
| | 28. | | | to | | | |
| | 29. | | | to | | | |
| | 30. | | | to | | | |

Comments

ATTACHMENT O

2022 - 2023 Monthly Flow Record Data

| Date | Meter Reading | Daily Usage | Excep | tion | Reason for Exception |
|---------|-----------------|-------------|----------|--------|--|
| | (gallons) | (gallons) | | | |
| July | | | | _ | |
| 7/1/22 | 507,106.3 | 122,700 | | | |
| 7/2/22 | 507,229.0 | 95,200 | | | |
| 7/3/22 | 507,324.2 | 127,200 | | | |
| 7/4/22 | 507,451.4 | 120,400 | | | |
| 7/5/22 | 507,571.8 | 133,300 | | | |
| 7/6/22 | 507,705.1 | 138,800 | | | |
| 7/7/22 | 507,843.9 | 122,000 | | | |
| 7/8/22 | 507,965.9 | 132,400 | | | |
| 7/9/22 | 508,098.3 | 131,300 | | | |
| 7/10/22 | 508,229.6 | 110,900 | | | |
| 7/11/22 | 508,340.5 | 110,700 | | | |
| 7/12/22 | 508,451.2 | 127,300 | | | |
| 7/13/22 | 508,578.5 | 127,300 | | | |
| 7/14/22 | 508,705.8 | 113,200 | | | |
| 7/15/22 | 508,819.0 | 113,100 | | | |
| 7/16/22 | 508,932.1 | 120,400 | | | |
| 7/17/22 | 509,052.5 | 131,100 | | | |
| 7/18/22 | 509,183.6 | 122,500 | | | |
| 7/19/22 | 509,306.1 | 141,500 | | | |
| 7/20/22 | 509,447.6 | 141,600 | | | |
| 7/21/22 | 509,589.2 | 126,600 | | | |
| 7/22/22 | 509,715.8 | 112,800 | | | |
| 7/23/22 | 509,828.6 | 112,700 | | | |
| 7/24/22 | 509,941.3 | 130,900 | | | |
| 7/25/22 | 510,072.2 | 128,100 | | | |
| 7/26/22 | 510,200.3 | 130,100 | | | |
| 7/27/22 | 510,330.4 | 124,400 | | | |
| 7/28/22 | 510,454.8 | 124,400 | | | |
| 7/29/22 | 510,579.2 | 123,500 | | | |
| 7/30/22 | 510,702.7 | 133,000 | | | |
| 7/31/22 | 510,835.7 | 128,900 | | | |
| 8/1/22 | 510,964.6 | | | | |
| | | | | | |
| | Monthly Total: | 3,858,300 | gallons | | If Exception is noted, the 'Daily Average', MAX and MIN Day |
| | Daily Average: | 124,461 | gpd | | totals <u>do not</u> include the daily usage in these calculations. 'Monthly Total', however, is unaffected by the Exceptions. |
| | Maximum Day: | 141,600 | gallons | on | 7/20/22 |
| | Minimum Day: | 95,200 | gallons | on | 7/2/22 |
| | Permitted Flow: | 360.000 | gpd | | |
| | | 35% | Averag | e Flov | w as a Percent of Permitted Flow |
| | | (TCEQ s | tipulate | s plai | nning/design for 3 consecutive months of >75% of permit) |

| Date | Meter Reading | Daily Usage | Exception | Reason for Exception |
|---------|-----------------|----------------|---------------|--|
| | (gallons) | (gallons) | | |
| August | | | | |
| 8/1/22 | 510,964.6 | 142,000 | | |
| 8/2/22 | 511,106.6 | 120,700 | | |
| 8/3/22 | 511,227.3 | 158,500 | | |
| 8/4/22 | 511,385.8 | 491,500 | Ш | |
| 8/5/22 | 511,877.3 | 402,900 | Ш | |
| 8/6/22 | 512,280.2 | 199,600 | Ш | |
| 8/7/22 | 512,479.8 | 952,500 | | |
| 8/8/22 | 513,432.3 | 382,200 | | |
| 8/9/22 | 513,814.5 | 356,800 | | |
| 8/10/22 | 514,171.3 | 361,100 | | |
| 8/11/22 | 514,532.4 | 158,300 | | |
| 8/12/22 | 514,690.7 | 121,600 | | |
| 8/13/22 | 514,812.3 | 133,300 | | |
| 8/14/22 | 514,945.6 | 117,600 | | |
| 8/15/22 | 515,063.2 | 130,800 | | |
| 8/16/22 | 515,194.0 | 137,600 | | |
| 8/17/22 | 515,331.6 | 238,800 | | |
| 8/18/22 | 515,570.4 | 106,400 | | |
| 8/19/22 | 515,676.8 | 84,200 | | |
| 8/20/22 | 515,761.0 | -213,900 | X | Erroneous reading documented |
| 8/21/22 | 515,547.1 | 389,000 | X | Erroneous reading documented |
| 8/22/22 | 515,936.1 | 114,200 | | |
| 8/23/22 | 516,050.3 | 338,800 | | |
| 8/24/22 | 516,389.1 | 117,400 | | |
| 8/25/22 | 516,506.5 | 120,300 | | |
| 8/26/22 | 516,626.8 | 100,000 | | |
| 8/27/22 | 516,726.8 | 118,100 | | |
| 8/28/22 | 516,844.9 | 124,500 | | |
| 8/29/22 | 516,969.4 | 131,600 | | |
| 8/30/22 | 517,101.0 | 95,000 | | |
| 8/31/22 | 517,196.0 | 144,600 | | |
| 9/1/22 | 517,340.6 | | | |
| | Monthly Total: | 6 376 000 | gallons | |
| | Daily Average: | 213,824 | gpd | totals <u>do not</u> include the daily usage in these calculations. 'Monthly |
| | | | | I otal', however, is unaffected by the Exceptions. |
| | Maximum Day: | 952,500 | gallons on | 8///22 |
| | Minimum Day: | 84,200 | galions on | 8/19/22 |
| | Permitted Flow: | 360,000 | gpd | |
| | | 59% | Average Flo | w as a Percent of Permitted Flow |
| | | (TCEQ s | tipulates pla | inning/design for 3 consecutive months of >75% of permit) |

| Date | Meter Reading | Daily Usage | Exception | Reason for Exception |
|-----------|-----------------|-------------|---------------|---|
| | (gallons) | (gallons) | | |
| September | | | | |
| 9/1/22 | 517,340.6 | 106,600 | | |
| 9/2/22 | 517,447.2 | 114,900 | | |
| 9/3/22 | 517,562.1 | 118,200 | | |
| 9/4/22 | 517,680.3 | 98,500 | | |
| 9/5/22 | 517,778.8 | 98,400 | | |
| 9/6/22 | 517,877.2 | 92,500 | | |
| 9/7/22 | 517,969.7 | 110,800 | | |
| 9/8/22 | 518,080.5 | 102,200 | | |
| 9/9/22 | 518,182.7 | 95,100 | | |
| 9/10/22 | 518,277.8 | 110,300 | | |
| 9/11/22 | 518,388.1 | 117,100 | | |
| 9/12/22 | 518,505.2 | 108,500 | | |
| 9/13/22 | 518,613.7 | 118,000 | | |
| 9/14/22 | 518,731.7 | 117,900 | | |
| 9/15/22 | 518,849.6 | 113,500 | | |
| 9/16/22 | 518,963.1 | 115,600 | | |
| 9/17/22 | 519,078.7 | 129,500 | | |
| 9/18/22 | 519,208.2 | 129,500 | | |
| 9/19/22 | 519,337.7 | 131,600 | | |
| 9/20/22 | 519,469.3 | 126,200 | | |
| 9/21/22 | 519,595.5 | 126,100 | | |
| 9/22/22 | 519,721.6 | 130,100 | | |
| 9/23/22 | 519,851.7 | 114,800 | | |
| 9/24/22 | 519,966.5 | 125,000 | | |
| 9/25/22 | 520,091.5 | 139,800 | | |
| 9/26/22 | 520,231.3 | 128,800 | | |
| 9/27/22 | 520,360.1 | 122,500 | | |
| 9/28/22 | 520,482.6 | 122,500 | | |
| 9/29/22 | 520,605.1 | 117,900 | | |
| 9/30/22 | 520,723.0 | 123,000 | | |
| 10/1/22 | 520,846.0 | | | |
| | | | | |
| | | | | |
| | Monthly Total: | 3,505,400 | gallons | If Exception is noted, the 'Daily Average', MAX and MIN Day |
| | Daily Average: | 116,847 | gpd | totals <u>do not</u> include the daily usage in these calculations. 'Monthly Total', however, is unaffected by the Exceptions. |
| | Maximum Day: | 139,800 | gallons on | 9/25/22 |
| | Minimum Day: | 92,500 | gallons on | 9/6/22 |
| | Permitted Flow: | 360,000 | gpd | |
| | | 32% | Average Flo | w as a Percent of Permitted Flow |
| | | (TCEQ s | tipulates pla | nning/design for 3 consecutive months of >75% of permit) |

| Date | Meter Reading | Daily Usage | Exception | Reason for Exception |
|----------|----------------------|---------------------------------------|---------------|---|
| | (gallons) | (gallons) | | |
| October | | | | |
| 10/1/22 | 520,846.0 | 119,600 | | |
| 10/2/22 | 520,965.6 | 127,500 | | |
| 10/3/22 | 521,093.1 | 127,600 | | |
| 10/4/22 | 521,220.7 | 123,200 | | |
| 10/5/22 | 521,343.9 | 127,500 | | |
| 10/6/22 | 521,471.4 | 120,000 | | |
| 10/7/22 | 521,591.4 | 120,000 | Ш | |
| 10/8/22 | 521,711.4 | 133,700 | | |
| 10/9/22 | 521,845.1 | 141,900 | | |
| 10/10/22 | 521,987.0 | 135,100 | | |
| 10/11/22 | 522,122.1 | 118,700 | | |
| 10/12/22 | 522,240.8 | 124,700 | | |
| 10/13/22 | 522,365.5 | 123,300 | | |
| 10/14/22 | 522,488.8 | 131,400 | | |
| 10/15/22 | 522,620.2 | 132,100 | | |
| 10/16/22 | 522,752.3 | 132,100 | | |
| 10/17/22 | 522,884.4 | 133,800 | | |
| 10/18/22 | 523,018.2 | 124,300 | | |
| 10/19/22 | 523,142.5 | 124,200 | | |
| 10/20/22 | 523,266.7 | 119,900 | | |
| 10/21/22 | 523,386.6 | 119,900 | | |
| 10/22/22 | 523,506.5 | 127,200 | | |
| 10/23/22 | 523,633.7 | 127,100 | | |
| 10/24/22 | 523,760.8 | 133,000 | | |
| 10/25/22 | 523,893.8 | 117,800 | | |
| 10/26/22 | 524,011.6 | 116,800 | | |
| 10/27/22 | 524,128.4 | 115,300 | | |
| 10/28/22 | 524,243.7 | 388,400 | X | Erroneous reading documented |
| 10/29/22 | 524,632.1 | -141,700 | X | Erroneous reading documented |
| 10/30/22 | 524,490.4 | 128,200 | | - |
| 10/31/22 | 524,618.6 | 113,400 | | |
| 11/1/22 | 524,732.0 | , , , , , , , , , , , , , , , , , , , | | |
| | Nd a webble . Takalı | 2 886 999 | | |
| | | 3,880,000 | galions | If Exception is noted, the 'Daily Average', MAX and MIN Day |
| | Dally Average. | 125,495 | gha | Total', however, is unaffected by the Exceptions. |
| | Maximum Day: | 141,900 | gallons on | 10/9/22 |
| | Minimum Day: | 113,400 | gallons on | 10/31/22 |
| | Permitted Flow: | 360,000 | gpd | |
| | | 35% | Average Flo | ow as a Percent of Permitted Flow |
| | | (TCEQ s | tipulates pla | anning/design for 3 consecutive months of >75% of permit) |

| Date | Meter Reading | Daily Usage | Excep | tion | Reason for Exception |
|----------|-----------------|-------------|--------------------|--------|---|
| | (gallons) | (gallons) | | | |
| November | | | | - | |
| 11/1/22 | 524,732.0 | 118,100 | | 4 | |
| 11/2/22 | 524,850.1 | 128,400 | | 4 | |
| 11/3/22 | 524,978.5 | 113,300 | | 1 | |
| 11/4/22 | 525,091.8 | 115,500 | | 1 | |
| 11/5/22 | 525,207.3 | 113,900 | | | |
| 11/6/22 | 525,321.2 | 113,200 | | | |
| 11/7/22 | 525,434.4 | 115,300 | | | |
| 11/8/22 | 525,549.7 | 118,200 | | | |
| 11/9/22 | 525,667.9 | 111,100 | | | |
| 11/10/22 | 525,779.0 | 113,200 | | | |
| 11/11/22 | 525,892.2 | 110,300 | | | |
| 11/12/22 | 526,002.5 | 113,000 | | | |
| 11/13/22 | 526,115.5 | 113,600 | | 1 | |
| 11/14/22 | 526,229.1 | 118,200 | | 1 | |
| 11/15/22 | 526,347.3 | 104,100 | | 1 | |
| 11/16/22 | 526,451.4 | 114,800 | | 1 | |
| 11/17/22 | 526,566.2 | 114,800 | | 1 | |
| 11/18/22 | 526,681.0 | 113,200 | | 1 | |
| 11/19/22 | 526,794.2 | 115,400 | | 1 | |
| 11/20/22 | 526,909.6 | 118,000 | | 1 | |
| 11/21/22 | 527,027.6 | 114,500 | | 1 | |
| 11/22/22 | 527,142.1 | 111,400 | | 1 | |
| 11/23/22 | 527,253.5 | 131,300 | | 1 | |
| 11/24/22 | 527,384.8 | 135,600 | | 1 | |
| 11/25/22 | 527,520.4 | 132,200 | | 1 | |
| 11/26/22 | 527,652.6 | 134,300 | | 1 | |
| 11/27/22 | 527,786.9 | 135,400 | | 1 | |
| 11/28/22 | 527,922.3 | 131,400 | | 1 | |
| 11/29/22 | 528,053.7 | 118,500 | | 1 | |
| 11/30/22 | 528,172.2 | 0 | X | 1 | Duplicate readings |
| 12/1/22 | 528,172.2 | | | 1 | |
| | | | | | |
| | Monthly Total: | 3.440.200 | gallons | | If Exception is noted the 'Daily Average' MAX and MIN Day |
| | Daily Average: | 118,628 | 118,628 gpd | | totals <u>do not</u> include the daily usage in these calculations. 'Monthly Total', however, is unaffected by the Exceptions. |
| | Maximum Day: | 135,600 | gallons | on | 11/24/22 |
| | Minimum Day: | 104,100 | gallons | on | 11/15/22 |
| | Permitted Flow: | 360,000 | gpd | | |
| | | 33% | Average | e Flov | w as a Percent of Permitted Flow |
| | | (TCEQ s | tipulate | s plar | nning/design for 3 consecutive months of >75% of permit) |

| Date | Meter Reading | Daily Usage | Exce | eption | Reason for Exception |
|----------|-----------------|-------------|--------|---------|--|
| | (gallons) | (gallons) | | | |
| December | | | _ | | |
| 12/1/22 | 528,172.2 | 107,100 | | | |
| 12/2/22 | 528,279.3 | 100,600 | | | |
| 12/3/22 | 528,379.9 | 96,800 | | | |
| 12/4/22 | 528,476.7 | 101,500 | | | |
| 12/5/22 | 528,578.2 | 94,300 | | | |
| 12/6/22 | 528,672.5 | 95,800 | | | |
| 12/7/22 | 528,768.3 | 122,500 | | | |
| 12/8/22 | 528,890.8 | 70,600 | | | |
| 12/9/22 | 528,961.4 | 93,200 | Γ | | |
| 12/10/22 | 529,054.6 | 105,600 | | | |
| 12/11/22 | 529,160.2 | 105,700 | Γ | | |
| 12/12/22 | 529,265.9 | 73,700 | Γ | | |
| 12/13/22 | 529,339.6 | 73,700 | Γ | | |
| 12/14/22 | 529,413.3 | 113,400 | Γ | | |
| 12/15/22 | 529,526.7 | 110,300 | | | |
| 12/16/22 | 529,637.0 | 110,900 | | | |
| 12/17/22 | 529,747.9 | 110,900 | F | | |
| 12/18/22 | 529,858.8 | 129,100 | F | | |
| 12/19/22 | 529,987.9 | 97,000 | F | | |
| 12/20/22 | 530,084.9 | 102,400 | F | | |
| 12/21/22 | 530,187.3 | 109,700 | F | | |
| 12/22/22 | 530,297.0 | 131,400 | F | | |
| 12/23/22 | 530,428.4 | 106,400 | F | | |
| 12/24/22 | 530,534.8 | 125,500 | F | | |
| 12/25/22 | 530,660.3 | 114,900 | F | | |
| 12/26/22 | 530,775.2 | 94,100 | F | | |
| 12/27/22 | 530,869.3 | 99,800 | F | | |
| 12/28/22 | 530,969.1 | 98,500 | | | |
| 12/29/22 | 531,067.6 | 532,400 | | X | Erroneous reading documented |
| 12/30/22 | 531,600.0 | -347,600 | F | X | Erroneous reading documented |
| 12/31/22 | 531,252.4 | 112,800 | F | | |
| 1/1/23 | 531,365.2 | | | | |
| | | | | | |
| | Monthly Total: | 3,427,800 | gallo | ns | If Exception is noted, the 'Daily Average', MAX and MIN Day |
| | Daily Average: | 103,731 | gpd | | Total's do not include the daily usage in these calculations. 'Monthly Total', however, is unaffected by the Exceptions. |
| | Maximum Day: | 131,400 | gallo | ns on | 12/22/22 |
| | Minimum Day: | 70,600 | gallo | ns on | 12/8/22 |
| | Permitted Flow: | 360,000 | gpd | | |
| | | 29% | Avera | age Flo | w as a Percent of Permitted Flow |
| | | (TCEQ s | tipula | tes pla | nning/design for 3 consecutive months of >75% of permit) |

| Date | Meter Reading | Daily Usage | Exc | eption | Reason for Exception |
|---------|-----------------|-------------|--------|----------|---|
| | (gallons) | (gallons) | | | |
| January | | | _ | | |
| 1/1/23 | 531,365.2 | 83,000 | | | |
| 1/2/23 | 531,448.2 | 104,800 | | | |
| 1/3/23 | 531,553.0 | 116,000 | | | |
| 1/4/23 | 531,669.0 | 124,700 | | | |
| 1/5/23 | 531,793.7 | 122,700 | | | |
| 1/6/23 | 531,916.4 | 113,000 | | | |
| 1/7/23 | 532,029.4 | 101,200 | | | |
| 1/8/23 | 532,130.6 | 106,500 | | | |
| 1/9/23 | 532,237.1 | 95,800 | | | |
| 1/10/23 | 532,332.9 | 103,200 | | | |
| 1/11/23 | 532,436.1 | 97,600 | | | |
| 1/12/23 | 532,533.7 | 72,700 | | | |
| 1/13/23 | 532,606.4 | 90,000 | | | |
| 1/14/23 | 532,696.4 | 101,500 | | | |
| 1/15/23 | 532,797.9 | 86,800 | | | |
| 1/16/23 | 532,884.7 | 105,400 | | | |
| 1/17/23 | 532,990.1 | 104,800 | | | |
| 1/18/23 | 533,094.9 | 100,400 | | | |
| 1/19/23 | 533,195.3 | 97,400 | | | |
| 1/20/23 | 533,292.7 | 98,000 | | | |
| 1/21/23 | 533,390.7 | 204,200 | | | |
| 1/22/23 | 533,594.9 | 104,000 | | | |
| 1/23/23 | 533,698.9 | 100,200 | | | |
| 1/24/23 | 533,799.1 | 108,800 | | | |
| 1/25/23 | 533,907.9 | 110,300 | | | |
| 1/26/23 | 534,018.2 | 97,100 | | | |
| 1/27/23 | 534,115.3 | 94,500 | | | |
| 1/28/23 | 534,209.8 | 109,300 | | | |
| 1/29/23 | 534,319.1 | 105,300 | | | |
| 1/30/23 | 534,424.4 | 119,600 | | | |
| 1/31/23 | 534,544.0 | 114,400 | | | |
| 2/1/23 | 534,658.4 | | | | |
| | | | | | |
| | Monthly Total: | 3,293,200 | gallo | ns | If Exception is noted, the 'Daily Average', MAX and MIN Day |
| | Daily Average: | 106,232 | 2 gpd | | totals <u>do not</u> include the daily usage in these calculations. 'Monthly Total', however, is unaffected by the Exceptions. |
| | Maximum Day: | 204,200 | gallo | ns on | 1/21/23 |
| | Minimum Day: | 72,700 | gallo | ns on | 1/12/23 |
| | Permitted Flow: | 360,000 | gpd | | |
| | | 30% | Aver | age Flo | ow as a Percent of Permitted Flow |
| | | (TCEQ s | tipula | ates pla | anning/design for 3 consecutive months of >75% of permit) |

| Date | Meter Reading | Daily Usage | Exception | Reason for Exception | | |
|---|-----------------|-------------|-------------|---|--|--|
| | (gallons) | (gallons) | | | | |
| February | | | | | | |
| 2/1/23 | 534,658.4 | 123,500 | | | | |
| 2/2/23 | 534,781.9 | 106,100 | | | | |
| 2/3/23 | 534,888.0 | 95,900 | | | | |
| 2/4/23 | 534,983.9 | 112,300 | | | | |
| 2/5/23 | 535,096.2 | 79,100 | | | | |
| 2/6/23 | 535,175.3 | 95,500 | | | | |
| 2/7/23 | 535,270.8 | 100,500 | | | | |
| 2/8/23 | 535,371.3 | 100,400 | | | | |
| 2/9/23 | 535,471.7 | 96,200 | | | | |
| 2/10/23 | 535,567.9 | 83,100 | | | | |
| 2/11/23 | 535,651.0 | 87,600 | | | | |
| 2/12/23 | 535,738.6 | 93,000 | | | | |
| 2/13/23 | 535,831.6 | 93,300 | | | | |
| 2/14/23 | 535,924.9 | 124,800 | | | | |
| 2/15/23 | 536,049.7 | 98,000 | | | | |
| 2/16/23 | 536,147.7 | 99,400 | | | | |
| 2/17/23 | 536,247.1 | 101,200 | | | | |
| 2/18/23 | 536,348.3 | 94,100 | | | | |
| 2/19/23 | 536,442.4 | 94,200 | | | | |
| 2/20/23 | 536,536.6 | 102,500 | | | | |
| 2/21/23 | 536,639.1 | 97,700 | | | | |
| 2/22/23 | 536,736.8 | 80,400 | | | | |
| 2/23/23 | 536,817.2 | 80,300 | | | | |
| 2/24/23 | 536,897.5 | 81,000 | | | | |
| 2/25/23 | 536,978.5 | 70,300 | | | | |
| 2/26/23 | 537,048.8 | 103,100 | | | | |
| 2/27/23 | 537,151.9 | 69,600 | | | | |
| 2/28/23 | 537,221.5 | 58,400 | | | | |
| 3/1/23 | 537,279.9 | | | | | |
| | | | | | | |
| | | | | | | |
| | Monthly Total: | 2,621,500 | gallons | If Exception is noted, the 'Daily Average', MAX and MIN Day | | |
| | Daily Average: | 93,625 | gpd | totals <u>do not</u> include the daily usage in these calculations. 'Monthly Total', however, is unaffected by the Exceptions. | | |
| | Maximum Day: | 124,800 | gallons on | 2/14/23 | | |
| | Minimum Day: | 58,400 | gallons on | 2/28/23 | | |
| | Permitted Flow: | 360,000 | gpd | | | |
| | | 26 <u>%</u> | Average Flo | w as a Percent of Permitted Flow | | |
| (TCEQ stipulates planning/design for 3 consecutive months of >75% of perm | | | | | | |

| Date | Meter Reading | Daily Usage | Exc | eption | Reason for Exception |
|--------------------------|-----------------|-------------|-------|---|--|
| | (gallons) | (gallons) | | | |
| March | | | | | |
| 3/1/23 | 537,279.9 | 73,100 | | | |
| 3/2/23 | 537,353.0 | 70,500 | | | |
| 3/3/23 | 537,423.5 | 70,500 | | | |
| 3/4/23 | 537,494.0 | 98,600 | | | |
| 3/5/23 | 537,592.6 | 81,400 | | | |
| 3/6/23 | 537,674.0 | 90,500 | | | |
| 3/7/23 | 537,764.5 | 90,400 | | | |
| 3/8/23 | 537,854.9 | 91,400 | | | |
| 3/9/23 | 537,946.3 | 90,000 | | | |
| 3/10/23 | 538,036.3 | 90,000 | | | |
| 3/11/23 | 538,126.3 | 88,500 | | | |
| 3/12/23 | 538,214.8 | 86,400 | | | |
| 3/13/23 | 538,301.2 | 89,900 | | | |
| 3/14/23 | 538,391.1 | 87,600 | | | |
| 3/15/23 | 538,478.7 | 88,300 | | | |
| 3/16/23 | 538,567.0 | 90,200 | | | |
| 3/17/23 | 538,657.2 | 87,800 | | | |
| 3/18/23 | 538,745.0 | 83,700 | | | |
| 3/19/23 | 538,828.7 | 83,600 | | | |
| 3/20/23 | 538,912.3 | 96,700 | | | |
| 3/21/23 | 539,009.0 | 92,200 | | | |
| 3/22/23 | 539,101.2 | 92,200 | | | |
| 3/23/23 | 539,193.4 | 89,200 | | | |
| 3/24/23 | 539,282.6 | 89,200 | | | |
| 3/25/23 | 539,371.8 | 86,500 | | | |
| 3/26/23 | 539,458.3 | 95,400 | | | |
| 3/27/23 | 539,553.7 | 79,600 | | | |
| 3/28/23 | 539,633.3 | 79,600 | | | |
| 3/29/23 | 539,712.9 | 112,900 | | | |
| 3/30/23 | 539,825.8 | 119,200 | | | |
| 3/31/23 | 539,945.0 | 106,700 | | | |
| 4/1/23 | 540,051.7 | | | | |
| | | | | | |
| Monthly Total: 2,771,800 | | gallo | ons | If Exception is noted, the 'Daily Average', MAX and MIN Day | |
| | Daily Average: | 89,413 | gpd | | totals <u>do not</u> include the daily usage in these calculations. 'Monthly Total', however, is unaffected by the Exceptions. |
| | Maximum Day: | 119,200 | gallo | ons on | 3/30/23 |
| | Minimum Day: | 70,500 | gallo | ons on | 3/2/23 |
| | Permitted Flow: | 360,000 | gpd | | |
| | | 25% | Avei | rage Flo | ow as a Percent of Permitted Flow |
| | | (TCEQ s | tipul | ates pla | anning/design for 3 consecutive months of >75% of permit) |

| Date | Meter Reading | Daily Usage | Exc | eption | Reason for Exception |
|---------|-----------------|-------------|--------------------|----------|---|
| | (gallons) | (gallons) | | | |
| April | | | | | |
| 4/1/23 | 540,051.7 | 106,300 | ŀ | | |
| 4/2/23 | 540,158.0 | 91,800 | ŀ | | |
| 4/3/23 | 540,249.8 | 91,700 | | | |
| 4/4/23 | 540,341.5 | 96,200 | | | |
| 4/5/23 | 540,437.7 | 81,900 | | | |
| 4/6/23 | 540,519.6 | 98,900 | | | |
| 4/7/23 | 540,618.5 | 89,900 | | | |
| 4/8/23 | 540,708.4 | 95,000 | | | |
| 4/9/23 | 540,803.4 | 102,400 | | | |
| 4/10/23 | 540,905.8 | 102,300 | | | |
| 4/11/23 | 541,008.1 | 97,600 | | | |
| 4/12/23 | 541,105.7 | 97,500 | | | |
| 4/13/23 | 541,203.2 | 97,600 | | | |
| 4/14/23 | 541,300.8 | 105,800 | | | |
| 4/15/23 | 541,406.6 | 98,400 | | | |
| 4/16/23 | 541,505.0 | 92,800 | | | |
| 4/17/23 | 541,597.8 | 92,800 | | | |
| 4/18/23 | 541,690.6 | 105,400 | | | |
| 4/19/23 | 541,796.0 | 86,300 | Γ | | |
| 4/20/23 | 541,882.3 | 107,300 | Ī | | |
| 4/21/23 | 541,989.6 | 100,800 | Γ | | |
| 4/22/23 | 542,090.4 | 125,000 | ľ | | |
| 4/23/23 | 542,215.4 | 116,500 | ľ | | |
| 4/24/23 | 542,331.9 | 113,200 | ľ | | |
| 4/25/23 | 542,445.1 | 102,900 | Ī | | |
| 4/26/23 | 542,548.0 | 116,600 | ľ | | |
| 4/27/23 | 542,664.6 | 105,200 | Ī | | |
| 4/28/23 | 542,769.8 | 107,200 | Ī | | |
| 4/29/23 | 542,877.0 | 106,300 | ľ | | |
| 4/30/23 | 542,983.3 | 106,800 | Ī | | |
| 5/1/23 | 543,090.1 | | Ē | | |
| | | | | | |
| | Monthly Total: | 3,038,400 | gallo | ns | If Exception is noted, the 'Daily Average', MAX and MIN Day |
| | Daily Average: | 101,280 | 101,280 gpd | | totals <u>do not</u> include the daily usage in these calculations. 'Monthly Total', however, is unaffected by the Exceptions. |
| | Maximum Day: | 125,000 | gallo | ns on | 4/22/23 |
| | Minimum Day: | 81,900 | gallo | ns on | 4/5/23 |
| | Permitted Flow: | 360,000 | gpd | | |
| | | 28% | Avera | age Flo | w as a Percent of Permitted Flow |
| | | TUEUS | upuid | ires hig | ming/design for 5 consecutive months of 275% of permit |

| Date | Meter Reading | Daily Usage | Exce | otion | Reason for Exception |
|---------|-----------------|-------------|---------|--------|---|
| | (gallons) | (gallons) | | | |
| May | | | | _ | |
| 5/1/23 | 543,090.1 | 102,500 | | | |
| 5/2/23 | 543,192.6 | 108,600 | | | |
| 5/3/23 | 543,301.2 | 88,300 | | | |
| 5/4/23 | 543,389.5 | 78,700 | | | |
| 5/5/23 | 543,468.2 | 78,700 | | | |
| 5/6/23 | 543,546.9 | 104,500 | | | |
| 5/7/23 | 543,651.4 | 116,800 | | | |
| 5/8/23 | 543,768.2 | 115,200 | | | |
| 5/9/23 | 543,883.4 | 105,500 | | | |
| 5/10/23 | 543,988.9 | 118,500 | | | |
| 5/11/23 | 544,107.4 | 81,000 | | | |
| 5/12/23 | 544,188.4 | 111,900 | | | |
| 5/13/23 | 544,300.3 | 106,200 | | | |
| 5/14/23 | 544,406.5 | 109,700 | | | |
| 5/15/23 | 544,516.2 | 109,700 | | | |
| 5/16/23 | 544,625.9 | 106,100 | | | |
| 5/17/23 | 544,732.0 | 103,200 | | | |
| 5/18/23 | 544,835.2 | 103,200 | | | |
| 5/19/23 | 544,938.4 | 103,200 | | | |
| 5/20/23 | 545,041.6 | 124,300 | | | |
| 5/21/23 | 545,165.9 | 124,200 | | | |
| 5/22/23 | 545,290.1 | 118,700 | | | |
| 5/23/23 | 545,408.8 | 118,600 | | | |
| 5/24/23 | 545,527.4 | 123,800 | | | |
| 5/25/23 | 545,651.2 | 123,800 | | | |
| 5/26/23 | 545,775.0 | 118,700 | | | |
| 5/27/23 | 545,893.7 | 118,700 | | | |
| 5/28/23 | 546,012.4 | 118,600 | | | |
| 5/29/23 | 546,131.0 | 102,200 | | | |
| 5/30/23 | 546,233.2 | 110,300 | | | |
| 5/31/23 | 546,343.5 | 115,700 | | | |
| 6/1/23 | 546,459.2 | | | | |
| | | | | | |
| | Monthly Total: | 3,369,100 | gallon | 5 | If Exception is noted, the 'Daily Average', MAX and MIN Day |
| | Daily Average: | 108,681 | gpd | | totals <u>do not</u> include the daily usage in these calculations. 'Monthly Total', however, is unaffected by the Exceptions. |
| | Maximum Day: | 124,300 | gallon | s on | 5/20/23 |
| | Minimum Day: | 78,700 | gallon | s on | 5/4/23 |
| | Permitted Flow: | 360,000 | gpd | | |
| | | 30% | Avera | ge Flo | w as a Percent of Permitted Flow |
| | | (TCEQ s | tipulat | es pla | nning/design for 3 consecutive months of >75% of permit) |

| Date | Meter Reading | Daily Usage | Excep | otion | Reason for Exception |
|---------|-----------------|-------------|---------------------------|---------|---|
| | (gallons) | (gallons) | | | |
| June | | | _ | - | |
| 6/1/23 | 546,459.2 | 151,200 | | _ | |
| 6/2/23 | 546,610.4 | 130,700 | | _ | |
| 6/3/23 | 546,741.1 | 116,100 | | | |
| 6/4/23 | 546,857.2 | 114,800 | | | |
| 6/5/23 | 546,972.0 | 122,600 | | | |
| 6/6/23 | 547,094.6 | 106,200 | | | |
| 6/7/23 | 547,200.8 | 137,000 | | | |
| 6/8/23 | 547,337.8 | 120,900 | | | |
| 6/9/23 | 547,458.7 | 158,100 | | | |
| 6/10/23 | 547,616.8 | 148,400 | | | |
| 6/11/23 | 547,765.2 | 149,500 | | | |
| 6/12/23 | 547,914.7 | 61,600 | | | |
| 6/13/23 | 547,976.3 | 138,100 | | | |
| 6/14/23 | 548,114.4 | 138,000 | | | |
| 6/15/23 | 548,252.4 | 103,200 | | | |
| 6/16/23 | 548,355.6 | 119,200 | | | |
| 6/17/23 | 548,474.8 | 115,000 | | | |
| 6/18/23 | 548,589.8 | 127,000 | | | |
| 6/19/23 | 548,716.8 | 124,900 | | | |
| 6/20/23 | 548,841.7 | 136,400 | | | |
| 6/21/23 | 548,978.1 | 124,900 | | | |
| 6/22/23 | 549,103.0 | 124,800 | | | |
| 6/23/23 | 549,227.8 | 142,400 | | | |
| 6/24/23 | 549,370.2 | 127,100 | | | |
| 6/25/23 | 549,497.3 | 137,500 | | | |
| 6/26/23 | 549,634.8 | 142,000 | | | |
| 6/27/23 | 549,776.8 | 142,000 | | | |
| 6/28/23 | 549,918.8 | 145,900 | | | |
| 6/29/23 | 550,064.7 | 153,000 | | | |
| 6/30/23 | 550,217.7 | 152,800 | | | |
| 7/1/23 | 550,370.5 | | | | |
| | | | | | |
| | Monthly Total: | 3.911.300 | gallon | 5 | If Exception is noted, the 'Daily Average', MAX and MIN Day |
| | Daily Average: | 130,377 | ,300 gallolis ,377 gpd | | totals <u>do not</u> include the daily usage in these calculations. 'Monthly Total', however, is unaffected by the Exceptions. |
| | Maximum Day: | 158,100 | gallons | on | 6/9/23 |
| | Minimum Day: | 61,600 | gallons | on | 6/12/23 |
| | Permitted Flow: | 360,000 | gpd | | |
| | | 36% | Averag | ge Flov | w as a Percent of Permitted Flow |
| | | (TCEQ s | tipulate | es plai | nning/design for 3 consecutive months of >75% of permit) |

| Date | Meter Reading | Daily Usage | Exceptio | on | Reason for Exception |
|---------|-----------------|-------------|-------------|------------|--|
| | (gallons) | (gallons) | | | |
| July | | | | | |
| 7/1/23 | 550,370.5 | 149,200 | | | |
| 7/2/23 | 550,519.7 | 146,700 | | | |
| 7/3/23 | 550,666.4 | 154,600 | | | |
| 7/4/23 | 550,821.0 | 145,000 | | | |
| 7/5/23 | 550,966.0 | 170,300 | | | |
| 7/6/23 | 551,136.3 | 162,300 | | | |
| 7/7/23 | 551,298.6 | 167,800 | | | |
| 7/8/23 | 551,466.4 | 155,200 | | | |
| 7/9/23 | 551,621.6 | 167,700 | | | |
| 7/10/23 | 551,789.3 | 158,400 | | | |
| 7/11/23 | 551,947.7 | 170,700 | | | |
| 7/12/23 | 552,118.4 | 156,600 | | | |
| 7/13/23 | 552,275.0 | 146,000 | | | |
| 7/14/23 | 552,421.0 | 175,200 | | | |
| 7/15/23 | 552,596.2 | 169,000 | | | |
| 7/16/23 | 552,765.2 | 139,300 | | | |
| 7/17/23 | 552,904.5 | 151,800 | | | |
| 7/18/23 | 553,056.3 | 172,600 | | | |
| 7/19/23 | 553,228.9 | 162,500 | | | |
| 7/20/23 | 553,391.4 | 165,900 | | | |
| 7/21/23 | 553,557.3 | 152,900 | | | |
| 7/22/23 | 553,710.2 | 150,300 | | | |
| 7/23/23 | 553,860.5 | 159,500 | | | |
| 7/24/23 | 554,020.0 | 166,400 | | | |
| 7/25/23 | 554,186.4 | 165,800 | | | |
| 7/26/23 | 554,352.2 | 163,200 | | | |
| 7/27/23 | 554,515.4 | 165,100 | | | |
| 7/28/23 | 554,680.5 | 158,400 | | | |
| 7/29/23 | 554,838.9 | 160,400 | | | |
| 7/30/23 | 554,999.3 | 160,400 | | | |
| 7/31/23 | 555,159.7 | 174,000 | | | |
| 8/1/23 | 555,333.7 | | | | |
| | | | | _ | |
| | Monthly Total: | 4,963,200 | gallons | lf | Exception is noted, the 'Daily Average', MAX and MIN Day |
| | Daily Average: | 160,103 | gpd | to T | otals <u>do not</u> include the daily usage in these calculations. 'Monthly otal', however, is unaffected by the Exceptions. |
| | Maximum Day: | 175,200 | gallons or | n 7 | /14/23 |
| | Minimum Day: | 139,300 | gallons or | n 7 | /16/23 |
| | Permitted Flow: | 360.000 | gpd | | |
| | | 44% | Average I | Flow | as a Percent of Permitted Flow |
| | | (TCEQ s | tipulates p | plann | ing/design for 3 consecutive months of >75% of permit) |

| Date | Meter Reading | Daily Usage | Exc | eption | Reason for Exception |
|--------------------------|-----------------|-------------|--------|---|---|
| | (gallons) | (gallons) | | | |
| August | | | Г | | |
| 8/1/23 | 555,333.7 | 130,200 | ŀ | | |
| 8/2/23 | 555,463.9 | 142,200 | Ļ | | |
| 8/3/23 | 555,606.1 | 160,900 | ŀ | | |
| 8/4/23 | 555,767.0 | 138,600 | | | |
| 8/5/23 | 555,905.6 | 122,400 | | | |
| 8/6/23 | 556,028.0 | 130,800 | | | |
| 8/7/23 | 556,158.8 | 135,300 | | | |
| 8/8/23 | 556,294.1 | 138,500 | | | |
| 8/9/23 | 556,432.6 | 122,400 | | | |
| 8/10/23 | 556,555.0 | 134,700 | | | |
| 8/11/23 | 556,689.7 | 114,900 | | | |
| 8/12/23 | 556,804.6 | 130,400 | | | |
| 8/13/23 | 556,935.0 | 140,300 | | | |
| 8/14/23 | 557,075.3 | 142,300 | | | |
| 8/15/23 | 557,217.6 | 131,900 | | | |
| 8/16/23 | 557,349.5 | 131,400 | ľ | | |
| 8/17/23 | 557,480.9 | 137,300 | ľ | | |
| 8/18/23 | 557,618.2 | 127,900 | ľ | | |
| 8/19/23 | 557,746.1 | 130,600 | Ī | | |
| 8/20/23 | 557,876.7 | 155,700 | F | | |
| 8/21/23 | 558,032.4 | 134,100 | F | | |
| 8/22/23 | 558,166.5 | 137,200 | F | | |
| 8/23/23 | 558,303.7 | 135,700 | ŀ | | |
| 8/24/23 | 558,439.4 | 125,700 | ŀ | | |
| 8/25/23 | 558,565.1 | 138,600 | F | | |
| 8/26/23 | 558,703.7 | 128,400 | ŀ | | |
| 8/27/23 | 558,832.1 | 170,900 | F | | |
| 8/28/23 | 559,003.0 | 120,100 | F | | |
| 8/29/23 | 559,123.1 | 108,200 | F | | |
| 8/30/23 | 559.231.3 | 118.400 | ŀ | | |
| 8/31/23 | 559.349.7 | 123.000 | ŀ | | |
| 9/1/23 | 559,472.7 | -, | - | | |
| | | | | | |
| Monthly Total: 4,139,000 | | gallo | ns | If Exception is noted, the 'Daily Average', MAX and MIN Day | |
| | Dally Average: | 133,516 | gpa | | Total's do not include the daily usage in these calculations. Monthly Total', however, is unaffected by the Exceptions. |
| | Maximum Day: | 170,900 | gallo | ns on | 8/27/23 |
| | Minimum Day: | 108,200 | gallo | ns on | 8/29/23 |
| | Permitted Flow: | 360,000 | gpd | | |
| | | 37% | Aver | age Flo | w as a Percent of Permitted Flow |
| | | (TCEQ s | tipula | ites pla | nning/design for 3 consecutive months of >75% of permit) |

| Date | Meter Reading | Daily Usage | Exce | ption | Reason for Exception |
|-----------|-----------------|-------------|-------------|--------|---|
| | (gallons) | (gallons) | | | |
| September | | | _ | _ | |
| 9/1/23 | 559,472.7 | 112,400 | _ | _ | |
| 9/2/23 | 559,585.1 | 132,400 | _ | | |
| 9/3/23 | 559,717.5 | 154,900 | _ | | |
| 9/4/23 | 559,872.4 | 159,700 | _ | | |
| 9/5/23 | 560,032.1 | 125,600 | _ | | |
| 9/6/23 | 560,157.7 | 121,200 | _ | | |
| 9/7/23 | 560,278.9 | 118,800 | _ | | |
| 9/8/23 | 560,397.7 | 126,300 | | | |
| 9/9/23 | 560,524.0 | 132,200 | | | |
| 9/10/23 | 560,656.2 | 124,800 | | | |
| 9/11/23 | 560,781.0 | 126,800 | | | |
| 9/12/23 | 560,907.8 | 141,000 | | | |
| 9/13/23 | 561,048.8 | 132,100 | | | |
| 9/14/23 | 561,180.9 | 134,500 | | | |
| 9/15/23 | 561,315.4 | 155,600 | | | |
| 9/16/23 | 561,471.0 | 124,200 | | | |
| 9/17/23 | 561,595.2 | 132,200 | | | |
| 9/18/23 | 561,727.4 | 125,200 | | | |
| 9/19/23 | 561,852.6 | 131,400 | | | |
| 9/20/23 | 561,984.0 | 131,700 | | | |
| 9/21/23 | 562,115.7 | 128,600 | | | |
| 9/22/23 | 562,244.3 | 134,400 | | | |
| 9/23/23 | 562,378.7 | 120,000 | | | |
| 9/24/23 | 562,498.7 | 124,300 | | | |
| 9/25/23 | 562,623.0 | 121,600 | | | |
| 9/26/23 | 562,744.6 | 118,500 | | | |
| 9/27/23 | 562,863.1 | 124,800 | _ | | |
| 9/28/23 | 562,987.9 | 126,400 | | | |
| 9/29/23 | 563,114.3 | 121,900 | | | |
| 9/30/23 | 563,236.2 | 116,300 | _ | | |
| 10/1/23 | 563,352.5 | | _ | | |
| | | | | | |
| | Monthly Total | 3.879 800 | gallon | S | If Exception is noted, the 'Daily Average', MAX and MIN Day |
| | Daily Average: | 129,327 | 129,327 gpd | | totals <u>do not</u> include the daily usage in these calculations. 'Monthly Total', however, is unaffected by the Exceptions. |
| | Maximum Day: | 159,700 | gallon | s on | 9/4/23 |
| | Minimum Day: | 112,400 | gallon | s on | 9/1/23 |
| | Permitted Flow: | 360,000 | gpd | | |
| | | 36% | Avera | ge Flo | w as a Percent of Permitted Flow |
| | | (TCEQ s | tipulat | es pla | nning/design for 3 consecutive months of >75% of permit) |

| Date | Meter Reading | Daily Usage | Exception | Reason for Exception |
|----------|-----------------|-------------|---------------|--|
| | (gallons) | (gallons) | | |
| October | | | | |
| 10/1/23 | 563,352.5 | 201,600 | X | Extra reading taken on '9/31' |
| 10/2/23 | 563,554.1 | 103,500 | | |
| 10/3/23 | 563,657.6 | 108,200 | | |
| 10/4/23 | 563,765.8 | 103,700 | | |
| 10/5/23 | 563,869.5 | 106,200 | Ш | |
| 10/6/23 | 563,975.7 | 113,400 | Ш | |
| 10/7/23 | 564,089.1 | 110,600 | Ш | |
| 10/8/23 | 564,199.7 | 110,400 | | |
| 10/9/23 | 564,310.1 | 114,300 | | |
| 10/10/23 | 564,424.4 | 111,400 | | |
| 10/11/23 | 564,535.8 | 112,900 | | |
| 10/12/23 | 564,648.7 | 120,900 | | |
| 10/13/23 | 564,769.6 | 100,900 | | |
| 10/14/23 | 564,870.5 | 105,600 | | |
| 10/15/23 | 564,976.1 | 116,000 | | |
| 10/16/23 | 565,092.1 | 118,100 | | |
| 10/17/23 | 565,210.2 | 104,400 | | |
| 10/18/23 | 565,314.6 | 122,500 | | |
| 10/19/23 | 565,437.1 | 123,600 | | |
| 10/20/23 | 565,560.7 | 128,200 | | |
| 10/21/23 | 565,688.9 | 124,800 | | |
| 10/22/23 | 565,813.7 | 127,600 | | |
| 10/23/23 | 565,941.3 | 130,900 | H | |
| 10/24/23 | 566,072.2 | 129,500 | H | |
| 10/25/23 | 566,201.7 | 128,900 | H | |
| 10/26/23 | 566,330.6 | 123,500 | H | |
| 10/27/23 | 566,454.1 | 126,800 | H | |
| 10/28/23 | 566,580.9 | 118,700 | H | |
| 10/29/23 | 566.699.6 | 129.900 | | |
| 10/30/23 | 566.829.5 | 151.400 | | |
| 10/31/23 | 566,980,9 | 111.100 | | |
| 11/1/23 | 567,092.0 | , | | |
| | - | | | - |
| | Monthly Total: | 3,739,500 | gallons | If Exception is noted, the 'Daily Average', MAX and MIN Day |
| | Daily Average: | 117,930 | gpd | totals <u>do not</u> include the daily usage in these calculations. 'Monthly Total', however, is unaffected by the Exceptions. |
| | Maximum Day: | 151,400 | gallons on | 10/30/23 |
| | Minimum Day: | 100,900 | gallons on | 10/13/23 |
| | Permitted Flow: | 360,000 | gpd | |
| | | 33 <u>%</u> | Average Flov | w as a Percent of Permitted Flow |
| | | (TCEQ s | tipulates pla | nning/design for 3 consecutive months of >75% of permit) |

| Date | Meter Reading | Daily Usage | Exce | ption | Reason for Exception |
|----------|---------------------|-------------|---------|--------|---|
| | (gallons) | (gallons) | | | |
| November | | | _ | _ | |
| 11/1/23 | 567,092.0 | 118,500 | | | |
| 11/2/23 | 567,210.5 | 116,400 | | | |
| 11/3/23 | 567,326.9 | 120,600 | | | |
| 11/4/23 | 567,447.5 | 118,700 | | | |
| 11/5/23 | 567,566.2 | 121,200 | | | |
| 11/6/23 | 567,687.4 | 117,700 | | | |
| 11/7/23 | 567,805.1 | 123,200 | | | |
| 11/8/23 | 567,928.3 | 112,500 | | | |
| 11/9/23 | 568,040.8 | 136,300 | | | |
| 11/10/23 | 568,177.1 | 109,400 | | | |
| 11/11/23 | 568,286.5 | 99,200 | | | |
| 11/12/23 | 568,385.7 | 108,200 | | | |
| 11/13/23 | 568,493.9 | 112,200 | | | |
| 11/14/23 | 568,606.1 | 106,000 | | | |
| 11/15/23 | 568,712.1 | 103,600 | | | |
| 11/16/23 | 568,815.7 | 100,800 | | | |
| 11/17/23 | 568,916.5 | 106,500 | | | |
| 11/18/23 | 569,023.0 | 109,500 | | | |
| 11/19/23 | 569,132.5 | 107,600 | | | |
| 11/20/23 | 569,240.1 | 103,000 | | | |
| 11/21/23 | 569,343.1 | 103,100 | | | |
| 11/22/23 | 569,446.2 | 105,400 | F | | |
| 11/23/23 | 569,551.6 | 97,800 | | | |
| 11/24/23 | 569,649.4 | 102,200 | | | |
| 11/25/23 | 569,751.6 | 105,900 | | | |
| 11/26/23 | 569.857.5 | 106.500 | | | |
| 11/27/23 | 569,964.0 | 103,600 | | | |
| 11/28/23 | 570.067.6 | 107.100 | | | |
| 11/29/23 | 570.174.7 | 109.800 | F | | |
| 11/30/23 | 570.284.5 | 101.300 | F | - | |
| 12/1/23 | 570.385.8 | , | F | | |
| | 0,00000 | | | | |
| | Monthly Total: | 3,293,800 | gallon | s | If Exception is noted, the 'Daily Average', MAX and MIN Day |
| | , Daily Average: | 109,793 | gpd | | totals <u>do not</u> include the daily usage in these calculations. 'Monthly Total', however, is unaffected by the Exceptions. |
| | Maximum Day: | 136,300 | gallon | s on | 11/9/23 |
| | Minimum Day: | 97,800 | gallon | s on | 11/23/23 |
| | Permitted Flow: | 360,000 | gpd | | |
| | | <u> </u> | Avera | ge Flo | w as a Percent of Permitted Flow |
| | | (TCEQ s | tipulat | es pla | nning/design for 3 consecutive months of >75% of permit) |

| Date | Meter Reading | Daily Usage | Exception | | Reason for Exception |
|----------|-----------------|-------------|-----------|---------|---|
| | (gallons) | (gallons) | | | |
| December | | | | | |
| 12/1/23 | 570,385.8 | 102,600 | | | |
| 12/2/23 | 570,488.4 | 98,400 | | | |
| 12/3/23 | 570,586.8 | 101,600 | | | |
| 12/4/23 | 570,688.4 | 96,900 | | | |
| 12/5/23 | 570,785.3 | 107,700 | | | |
| 12/6/23 | 570,893.0 | 105,200 | | | |
| 12/7/23 | 570,998.2 | 106,900 | | | |
| 12/8/23 | 571,105.1 | 101,000 | | | |
| 12/9/23 | 571,206.1 | 105,000 | | | |
| 12/10/23 | 571,311.1 | 116,000 | | | |
| 12/11/23 | 571,427.1 | 102,500 | | | |
| 12/12/23 | 571,529.6 | 110,300 | | | |
| 12/13/23 | 571,639.9 | 110,000 | | | |
| 12/14/23 | 571,749.9 | 120,300 | | | |
| 12/15/23 | 571,870.2 | 108,600 | | | |
| 12/16/23 | 571,978.8 | 101,200 | | | |
| 12/17/23 | 572,080.0 | 100,800 | | | |
| 12/18/23 | 572,180.8 | 107,400 | | | |
| 12/19/23 | 572,288.2 | 111,600 | | | |
| 12/20/23 | 572,399.8 | 109,200 | | | |
| 12/21/23 | 572,509.0 | 111,700 | | | |
| 12/22/23 | 572,620.7 | 88,300 | | | |
| 12/23/23 | 572,709.0 | 95,700 | | | |
| 12/24/23 | 572,804.7 | 78,400 | | | |
| 12/25/23 | 572,883.1 | 100,500 | | | |
| 12/26/23 | 572,983.6 | 86,400 | | | |
| 12/27/23 | 573,070.0 | 88,100 | | | |
| 12/28/23 | 573,158.1 | 83,900 | | | |
| 12/29/23 | 573,242.0 | 87,300 | | | |
| 12/30/23 | 573,329.3 | 90,400 | | | |
| 12/31/23 | 573,419.7 | | | | |
| 1/1/24 | | | | | |
| | | | | | |
| | Monthly Total: | 3,033,900 | gallo | ons | If Exception is noted, the 'Daily Average', MAX and MIN Day |
| | Daily Average: | 101,130 | gpd | | totals do not include the daily usage in these calculations. 'Monthly Total', however, is unaffected by the Exceptions. |
| | Maximum Day: | 120,300 | gallo | ons on | 12/14/23 |
| | Minimum Day: | 78,400 | gallo | ons on | 12/24/23 |
| | Permitted Flow: | 360,000 | gpd | | |
| | | 28% | Avei | rage Fl | ow as a Percent of Permitted Flow |
| | | (TCEQ s | tipul | ates pl | anning/design for 3 consecutive months of >75% of permit) |

ATTACHMENT P

2022 – 2023 Laboratory Test Results

Monthly Effluent Samples for pH, TSS and BOD_5



3407 Clovid Rd. Lubbock, Texas 79415 P.O. Box 16652 Lubbock, Texas Tel: (806) 796-2805 Fax : (806) 796-2825

ANALYTICAL RESULTS FOR CITY OF TAHOKA P. O. BOX 300 TAHOKA, TX 79373 PHONE: (806) 561-4211 EMAIL ADDRESS: jamesdelson43@gmail.com

Receiving Date: 01/24/22 @ 6 "C Reporting Date: 02/03/22 Project Number: NOT GIVEN Project Name: MONTHLY BOD Project Location: CENTER LAGOON Sampling Date: 01/24/22 @ 10:00 Sample Type: WASTEWATER Sample Condition: COOL & INTACT Sample Received By: MR Analyzed By: MR, JL

| | | BOD ₅ | TSS | pH* |
|----------------------------|-------------|------------------|----------|--------------|
| LAB NUMBER | SAMPLE ID | (mg/L) | (mg/L) | (s.u.) |
| Date Analysis Batch St | arted: | 01/26/22 | 01/28/22 | 01/26/22 |
| Time Analysis Batch SI | arted: | 8:50 | 9.15 | 9:10 |
| AA29505-1 | C. LAGOON | 21 | 52 | 7.81 @ 19 °C |
| Date Analysis Batch Fit | nisheđ: | 01/31/22 | 01/28/22 | 01/26/22 |
| Time Analysis Batch Fi | nished. | 10:00 | 13:00 | 10.00 |
| Blank | | 0.04 | < 3 | N/A |
| Quality Control | | 201 | N/A | 7.00 |
| True Value QC | | 198 | N/A | 7.00 |
| % Instrument Accuracy | | 102 | N/A | 100 |
| Hi - Low Limits | | 85 - 115 | N/A | 95 - 105 |
| Relative Percent Different | ence (≤ 15) | 6 | 4 | 0 |

METHODS: STD METHODS

2540 D 4500-H^{*} B

This report meets NELAC T104704437-21-20.

The analysis contained in this report applies only to the samples tested and for the exclusive use of the addressed client. Reproduction of this report wholly or in part requires written permission of the client. *15 min shelf-life expired. Reported value is for client information only.

5210 B

Land Addrig Val

Mario Rodriguez, Director.

02/03/22 Date



3407 Clovid Rd. Lubbock, Texas 79415 P.O. Box 16652 Lubbock, Texas Tel: (806) 796-2805 Fax : (806) 796-2825

ANALYTICAL RESULTS FOR CITY OF TAHOKA P. O. BOX 300 TAHOKA, TX 79373 PHONE: (806) 561-4211 EMAIL ADDRESS: jamesdeleon43@gmail.com

Receiving Date: 02/24/22 @ 6 "C Reporting Date: 03/06/22 Project Number: NOT GIVEN Project Name: MONTHLY BOD Project Location: CENTER LAGOON Sampling Date: 02/24/22 @ 10:00 Sample Type: WASTEWATER Sample Condition: COOL & INTACT Sample Received By: MR Analyzed By: MR, JL

| | | BOD ₅ | TSS | pH* |
|----------------------|----------------|------------------|----------|--------------|
| LAB NUMBER | SAMPLE ID | (ma/L) | (mg/L) | (s.u.) |
| Date Analysis Batch | Started: | 02/25/22 | 02/25/22 | 02/25/22 |
| Time Analysis Batch | Started: | 9:20 | 14:55 | 9:40 |
| AA29560-1 | C. LAGOON | 34 | 51 | 8.32 🥸 19 °C |
| Date Analysis Batch | Finished: | 03/02/22 | 02/25/22 | 02/25/22 |
| Time Analysis Batch | Finished: | 12:00 | 17:10 | 10.15 |
| Blank | | 0.15 | < 3 | N/A |
| Quality Control | | 211 | N/A | 7.00 |
| True Value QC | | 198 | N/A | 7.00 |
| % Instrument Accur | асу | 107 | N/A | 100 |
| Hi - Low Limits | | 85 - 115 | N/A | 95 - 105 |
| Relative Percent Dif | ference (s 15) | 3 | 8 | 0 |

METHODS: STD METHODS

5210 B 2540 D 4500-H* B

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Mario Rodriguez, Director.

03/06/22 Date



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ANALYTICAL RESULTS FOR CITY OF TAHOKA P. O. BOX 300 TAHOKA, TX 79373 PHONE: (806) 561-4211 EMAIL ADDRESS: jamesdelson43@gmail.com

Receiving Date: 03/23/22 @ 6 °C Reporting Date: 03/28/22 Project Number: NOT GIVEN Project Name: MONTHLY BOD Project Location: CENTER LAGOON Sampling Date: 03/23/22 @ 10:00 Sample Type: WASTEWATER Sample Condition: COOL & INTACT Sample Received By: MR Analyzed By: MR, JL

| | | BOD ₅ | TSS | pH* |
|--|----------------------|------------------|-------------------|------------------|
| LAB NUMBER | SAMPLE ID | (mo4.) | (mg/L) | (s.u.) |
| Date Analysis Batch Time Analysis Batch | Started: Started: | 03/23/22 9:35 | 03/25/22 14:45 | 03/23/22 9:56 |
| AA29617-1 | C. LAGOON | 33 | 66 | 8.6 @ 19 °C |
| Date Analysis Batch | Finished: | 03/28/22 | 03/25/22 | 03/23/22 |
| Time Analysis Batch | Finished: | 11:51 | 17:59 | 10.20 |
| Blank | | 0.02 | < 3 | N/A |
| Quality Control | | 202 | N/A | 7.00 |
| True Value QC | | 198 | N/A | 7.00 |
| % Instrument Accura | су | 102 | N/A | 100 |
| Hi - Low Limits | | 85 - 115 | N/A | 95 - 105 |
| Relative Percent Diff | erence (≤ 15) | 2 | 2 | 0 |

METHODS: STD METHODS

ETHODS 5210 B 2540 D

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'15 min shelf-life expired. Reported value is for client information only.

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Mario Rodriguez, Director.

03/28/22 Date

4500-H* B



3407 Clovid Rd. Lubbock, Texas 79415 P.O. Box 16652 Lubbock, Texas Tel: (806) 796-2805 Fax: (806) 796-2825

ANALYTICAL RESULTS FOR CITY OF TAHOKA P. O. BOX 300 TAHOKA, TX 79373 PHONE: (606) 561-4211 EMAIL ADDRESS: jamesdeleon43@gmail.com

Receiving Date: 04/26/22 @ 11 "C Reporting Date: 05/02/22 Project Number: NOT GIVEN Project Name: MONTHLY BOD Project Location: CENTER LAGOON Sampling Date: 04/26/22 @ 10:00 Sample Type: WASTEWATER Sample Condition: COOL & INTACT Sample Received By: MR Analyzed By: MR, JL

| | | BOD, | TSS | pH* |
|------------------------|--------------|----------|----------|--------------|
| LAB NUMBER | SAMPLE ID | (mg/L) | (mg/L) | (S.U.) |
| Date Analysis Batch S | tarted: | 04/27/22 | 04/29/22 | 04/27/22 |
| Time Analysis Batch S | Started: | 9:40 | 11:20 | 10:00 |
| AA29685-1 | C. LAGOON | 20 | 72 | 7.89 @ 22 °C |
| Date Analysis Batch F | inisheđ: | 05/02/22 | 04/29/22 | 04/27/22 |
| Time Analysis Batch F | inished: | 15:15 | 14:20 | 10:30 |
| Blank | | 0.10 | < 3 | N/A |
| Quality Control | | 196 | N/A | 7.00 |
| True Value QC | | 198 | N/A | 7.00 |
| % Instrument Accurac | y . | 99 | N/A | 100 |
| Hi - Low Limits | | 85 - 115 | N/A | 95 - 105 |
| Relative Percent Diffe | rence (≤ 15) | 4 | 0 | 0 |

METHODS: STD METHODS

This report meets NELAC T104704437-21-20. The analysis contained in this report applies only to the samples tested and for the exclusive use of the addressed client. Reproduction of this report

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Mario Roomava

05/02/22 Date

4500-H B

2540 D

Mario Rodriguez, Director.



3407 Clovid Rd. Lubbock, Texas 79415 P.O. Box 16652 Lubbock, Texas Tel: (806) 796-2805 Fax : (806) 796-2825 ANALYTICAL RESULTS FOR CITY OF TAHOKA P. O. BOX 300 **TAHOKA, TX 79373** PHONE: (806) 561-4211 EMAIL ADDRESS: jamesdeleon43@gmail.com

Receiving Date: 05/25/22 @ 13 *C Reporting Date: 05/30/22 Project Number: NOT GIVEN Project Name: MONTHLY BOD Project Location: CENTER LAGOON

Sampling Date: 05/25/22 @ 10:00 Sample Type: WASTEWATER Sample Condition: COOL & INTACT Sample Received By: MR Analyzed By: MR, JL

| | | 80Ds | TSS | pH* |
|------------------------|--------------|----------|----------|--------------|
| LAB NUMBER | SAMPLE ID | (mg/L) | (mg/L) | (s.u.) |
| Date Analysis Batch S | tarted: | 05/25/22 | 05/27/22 | 05/25/22 |
| Time Analysis Batch 5 | Started: | 10:10 | 15:21 | 10:30 |
| AA29757-1 | C. LAGOON | 77 | 64 | 8.84 @ 22 °C |
| Date Analysis Batch P | inished: | 05/30/22 | 05/27/22 | 05/25/22 |
| Time Analysis Batch F | inished: | 12:05 | 17:30 | 11.00 |
| Blank | | 0.03 | < 3 | N/A |
| Quality Control | | 209 | N/A | 6.98 |
| True Value QC | | 198 | N/A | 7.00 |
| % Instrument Accurac | z y | 106 | N/A | 100 |
| Hi - Low Limits | | 85 - 115 | N/A | 95 - 105 |
| Relative Percent Diffe | rence (≤ 15) | 1 | 3 | 0 |

2540 D METHODS: STD METHODS 5210 B This report meets NELAC T104704437-21-20.

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Mario Rodriguez, Director.

05/30/22 Date

4500-H^{*} B

dvanced *Inalysis, Inc.*

3407 Clovid Rd. Lubbock, Texas 79415 P.O. Box 16652 Lubbock, Texas Tel: (806) 796-2805 Fax : (806) 796-2825

ANALYTICAL RESULTS FOR CITY OF TAHOKA P. O. BOX 300 TAHOKA, TX 79373 PHONE: (806) 561-4211 EMAIL ADDRESS: jamesdeleon43@gmail.com

Receiving Date: 06/24/22 @ 9 °C Reporting Date: 06/29/22 Project Number: NOT GIVEN Project Name: MONTHLY BOD Project Location: CENTER LAGOON Sampling Date: 06/24/22 @ 10:00 Sample Type: WASTEWATER Sample Condition: COOL & INTACT Sample Received By: MR Analyzed By: MR, JL

| | | BOD_5 | TSS | pH* |
|---------------------|-----------------|----------|----------|-------------|
| LAB NUMBER | SAMPLE ID | (mg/L) | (mg/L) | (s.u.) |
| Date Analysis Batcl | h Started: | 06/24/22 | 06/24/22 | 06/24/22 |
| Time Analysis Batc | h Started: | 9:00 | 11:00 | 10:00 |
| | | | | |
| AA29822-1 | C. LAGOON | 42 | 88 | 9.1 @ 22 °C |
| | | | | |
| | | | | |
| Date Analysis Batcl | h Finished: | 06/29/22 | 06/24/22 | 06/24/22 |
| Time Analysis Batc | h Finished: | 13:45 | 15:15 | 10:30 |
| | | | | |
| Blank | | 0.12 | < 3 | N/A |
| Quality Control | | 186 | N/A | 7.00 |
| True Value QC | | 198 | N/A | 7.00 |
| % Instrument Accu | racy | 94 | N/A | 100 |
| Hi - Low Limits | | 85 - 115 | N/A | 95 - 105 |
| Relative Percent Di | fference (≤ 15) | 2 | 4 | 0 |
| | | | | |

 METHODS:
 STD METHODS
 5210 B
 2540 D
 4500-H⁺ B

 This report meets NELAC T104704437-21-20.
 4500-H⁺ B
 4500-H⁺ B</td

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0219122

06/29/22 Date

Mario Rodriguez, Director.

dvanced *Inalysis, Inc.*

3407 Clovid Rd. Lubbock, Texas 79415 P.O. Box 16652 Lubbock, Texas Tel: (806) 796-2805 Fax : (806) 796-2825

ANALYTICAL RESULTS FOR CITY OF TAHOKA P. O. BOX 300 TAHOKA, TX 79373 PHONE: (806) 561-4211 EMAIL ADDRESS: jamesdeleon43@gmail.com

Receiving Date: 07/19/22 @ 9 °C Reporting Date: 07/24/22 Project Number: NOT GIVEN Project Name: MONTHLY BOD Project Location: CENTER LAGOON Sampling Date: 07/19/22 @ 11:00 Sample Type: WASTEWATER Sample Condition: COOL & INTACT Sample Received By: MR Analyzed By: MR, JL

| | | BOD_5 | TSS | pH* |
|---------------------|-----------------|----------|----------|-------------|
| LAB NUMBER | SAMPLE ID | (mg/L) | (mg/L) | (s.u.) |
| Date Analysis Batcl | h Started: | 07/20/22 | 07/22/22 | 07/20/22 |
| Time Analysis Batc | h Started: | 9:30 | 10:50 | 10:00 |
| | | | | |
| AA29875-1 | C. LAGOON | 51 | 67 | 9.0 @ 25 °C |
| | | | | |
| | | | | |
| Date Analysis Batcl | h Finished: | 07/24/22 | 07/19/22 | 07/19/22 |
| Time Analysis Batc | h Finished: | 13:15 | 15:45 | 10:30 |
| | | | | |
| Blank | | 0.07 | < 3 | N/A |
| Quality Control | | 176 | N/A | 7.00 |
| True Value QC | | 198 | N/A | 7.00 |
| % Instrument Accu | racy | 89 | N/A | 100 |
| Hi - Low Limits | | 85 - 115 | N/A | 95 - 105 |
| Relative Percent Di | fference (≤ 15) | 7 | 5 | 0 |
| | | | | |

 METHODS:
 STD METHODS
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 4500-H⁺ B

 This report meets NELAC T104704437-21-20.
 4500-H⁺ B
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0219122

07/24/22 Date

Mario Rodriguez, Director.

ALAMO ANALYTICAL LABORATORIES, LTD.

REPORT NARRATIVE



Main: 10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121 . Fax. (210) 340-8123

| Mario Rodriguez | |
|-------------------------|-------------------------------------|
| Advanced Analysis Inc. | |
| P.O Box 16652 | |
| Lubbock , Texas - 79490 | |
| TEL: (806) 796-2805 | Email: <u>rodriguezaa@yahoo.com</u> |
| FAX: (806) 796-2825 | |
| | |

RE: City of Tohoka Dear Mario Rodriguez:

Order No.: 2208092

9/2/2022

Enclosed please find the analytical report for the sample/s received on 8/25/2022.

SAMPLE RECEIPT: Samples were received intact and with chain of custody documentation. HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the Sample Acceptance Policy unless otherwise noted in the report.

COMMENTS: No significant observations were made.

If you have any questions regarding these test results call (210) 340-8121.

Thank you,

Reddy Gosala, Ph.D Laboratory Director

Report of Laboratory Analysis

Note: The analysis contained in this report applies only to the samples tested and for the exclusive use of the addressed client. Reproduction of this report wholly or in part requires written permission of the client.



Date: 02-Sep-22

Analytical Results Report

| CLIENT: | Advanced Analysis Inc. | Project: | City of Tohoka |
|------------|------------------------|----------|----------------|
| Lab Order: | 2208092 | | - |

| Alamo Lab ID Client ID | Collection Date | Analyses | Matrix | Result | MDL | PQL | Units | DF Qua |
|----------------------------------|------------------------|-------------------|-------------------------|------------|------|-------|----------|--------|
| TestName: pH | TestNo: | SM4500-H+B | Date Analyzed 8/25/2022 | 9:45:00 AM | | Initi | als: YK | |
| 2208092-01A Center Lagoon | 8/23/2022 10:00:00 AM | pH at 25 o C | Liquid | 8.3 | 0.04 | 0.1 | pH units | 1 |
| TestName: BOD, 5 Day, 20°C | TestNo: | SM5210B | Date Analyzed 8/29/2022 | 3:45:00 PM | | Initi | als: AM | |
| 2208092-01A Center Lagoon | 8/23/2022 10:00:00 AM | Biochemical Oxyge | en Demand Liquid | 60.8 | 0.65 | 2 | mg/L | 1 |
| TestName: TOTAL SUSPENDED SOLIDS | TestNo: | SM2540D | Date Analyzed 8/29/2022 | 4:35:00 PM | | Initi | als: SM | |
| 2208092-01A Center Lagoon | 8/23/2022 10:00:00 AM | Suspended Solids | (Residue, No Liquid | 53 | 2.11 | 5 | mg/L | 1 |

beredy

H Holding times for preparation or analysis exceeded; J - Analyte detected below quantitation limits * Non-NELAP Standards ** Sub Contracted

Approved by: Reddy Gosala, Laboratory Direc Report of Laboratory Analysis
Note: The analysis contained in this report applies only to the samples tested and for the exclusive use of the addressed client. Reproduction of this report wholly or in part requires written permission of the client.
| CLIENT: Work Order: | Advanced Analysis Inc 2208092 | 2. | | Project | t : | City | of Tohoka | | | | QC S | SUMM | [ARY | REP | ORT |
|------------------------|----------------------------------|---------|------------|---------|------------|--------|-----------|-----|----------------|---------------|------------|---------|-----------------|------------|-------|
| | | | | %R | REC | | | %RI | EC | | Low - Hiah | | | F | ۱PD |
| Analyte | | BLK | SPK value | LCS | LCSD | RPD % | RPD Limit | MS | | | Limit | Parent | DUP | % | Limi |
| Batch ID: BOD5- | 8/24/2022 | TestNa | ame: BOI | D, 5 Da | y, 20°C | | | | | | | | | | |
| Run ID: INCUB | _220824B | Test Co | de: SM52 | 10B | | Units: | mg/L | | Analysis Date: | 8/29/2022 3:4 | 45:00 PM | Prep Da | t e: 8/2 | 4/2022 9:0 | 00:00 |
| Biochemical Oxyger | Demand | <2 | 198 | 90.9% | | | | | | | 69 - 227 | 177.0 | 175.0 | 1.000 | 20.0 |
| Batch ID: PH_W | W-8/25/2022 | TestNa | ame: pH | | | | | | | | | | | | |
| Run ID: PH_W | _220825B | Test Co | ode: SM450 | 00-H+B | | Units: | pH units | | Analysis Date: | 8/25/2022 9:4 | 45:00 AM | Prep Da | t e: 8/2 | 5/2022 9:4 | 10:00 |
| pH at 25 o C | | | 7 | 100.4% | | | | | | | 95 - 105 | 8.3 | 8.4 | 1.000 | 5.0 |

Analysis Date: 8/29/2022 4:35:00 PM

Suspended Solids (Residue, Non-Filterable) <5

Batch ID: TSS_W-8/29/2022

TSS_220829A

Approved by:

Run ID:

Laboratory QC Report Note: The analysis contained in this report applies only to the samples tested and for the exclusive use of the addressed client. Reproduction of this report wholly or in part requires written permission of the client.

Units: mg/L

TestName: TOTAL SUSPENDED SOLIDS

Test Code: SM2540D

Prep Date: 8/29/2022 8:40:00

3.000

20.0

62.0

64.0

| ADVANCED A | NALYSIS, | INC. |
|------------|----------|------|
|------------|----------|------|

3407 Clovis Rd. Lubbock, Texas 79415 P.O. Box 16652 Lubbock, Texas 79490 Tel: (806) 796-2805 Fax : (806) 796-2825

CHAIN OF CUSTODY Page (of)

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| Project Manager: R | AYMOND VEGA | | | | | | | BILL | . TC |) | | P | 0#: | | - | TCLP | : | | | | | diampin a | | | | | | - Shorthurst |
| Address: 1807 MAIN | N BOX 300 | | | | | | | Con | npa | ny: | | | | | Ţ | OTA | L: | | | | | čeoren | | | and the second se | | - | |
| CITY: TAHOKA | Stat | te: TX | Zł | p: 79 | 373 | | | Atti | 1: | | | | | | - | | | | | | | | | | Party and a second s | | | Common of |
| Phone #: 806-561-4 | 211 Fax | 样: | | | | | | Add | ires | s:SA | AME | | | | Æ | | | | | | | | | 1 | a. | | | |
| <u>E-mail: TAHOKA</u> | 1915@POKA.COM | **** | | | | | conneuco | City | : | | | | | | N | | ğl | | š | | | | | | B.2 | | | And a second sec |
| Project #: | | | | | | | | Stat | le: | | | 2 | Zip: | | SS / | | \leq | | Ī | | | | | | 223 | | | |
| Project Name: | | | | | | | anana | Pho | ne | 样: | | | | | 2 | | 51 | | | 1 | | | | | 192 | | | |
| Project Location: | | | | | | | ACTINGUES OF | Fax | 群: | | | | | | ß | 3 | Ψ. | ц Ц | ŭļ | Ē | | | | | (SN | . | | |
| | | E E | | | | M | ATR | IX | 5 | AMP | 1 .8 C | HECKS | SAM | PLING | IJ | | 2 | Ð | o o | | | | | | 6 | | | |
| A A # (Lab Use) 2-2080 92-01 | Sample Source Id | GRAB / COMPOSi | BOTTLE SIZE | # CONTAINERS | GROUNDWATER | WASTEWATER | SOIL | SLUDGE | OTHER: AUTHINGTON AND AND AND AND AND AND AND AND AND AN | PRESERVATIVE T YPE: | рН | ACTUAL TEMP FROM SAMPLE [°] C | DATE | TIME | CBOD / BOD/ | TDS / CI / SO4 | TKN / NO ₃ / NO | Alkalinity / Ha | Metals: As Ag B | Volatiles | Semivolatiles | TPH | PCB's | BTEX/MTBE | E.coli enumerati | | ta a a mu du aguna y na na an | EN KAN DAN DAN DAN DAN DAN DAN DAN DAN DAN D |
| AA29928-1 | CENTER LAGOON | 610 | 000 | 11 | > | V | | Τ | | X | [| 4 | 8-23-22 | 10.00 AM | ∇ | Π | 1 | T | Τ | Т | | П | | Т | | | T | |
| , | | 112 | m | | | Ť | iii | Ť | | · | | | 1 | | - | | | ╋ | ╈ | 1 | ╫┤ | H | rth | - | | 1-1 | ╈ | ┱ |
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| ana ana amin'ny soratra amin'ny soratra polaina amin'ny soratra amin'ny soratra amin'ny soratra amin'ny soratra | <u></u> | | | | | ┢ | | | ╋ | | - | | | <u> </u> | <u> </u> | | | 4 | ╝ | | ╇┙ | ĻЦ | ┢╾┥ | | _ | <u>n 1</u> | _₽ | ╧┻╡ |
| | | <u> </u> | | | | ╇ | | | _ | | ļ | | | <u> </u> | | Цļ | _ | | ┛ | _ | ╨ | Щ | ┉╟ | | | | ┻ | |
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| | | | | And a | - | | | | | | | | - | Hard Color | SW2 | | | | Т | I SALARA | | Π | | | | | | |
| | | | | | NICE OF STREET, STREET | 1 | | T | ٦ | | | | | 1 | | Π | T | T | | Т | Π | П | T | Т | | | Т | |
| Container type: P-Polyethy | lene G-Glass V-VOA Z-Ziplor | ck Bag | | internetingen / | | | 5 | 1.4 | All sa | imple p | pH's, a | and Tem | peratures are ta | ken at the time | they | are r | eceiv | ed in | ∟the I | abora | itory t | Jy Lat | o Staf | ff | | <u>n</u> A | | |
| Received on Ice | V Yes | N | 0 | | | | | P | rese | rvative | Tvoe: | HNO, = | (N) H ₂ S0, = (| 'S) NaOH = (O |) HC | L = (1 | | CE = | $\widehat{\mathbf{x}}$ | Na-S | | = (ST) |) | Prese | rved i | inon a | | |
| pH paper Lot #: Q/GHSC154 | 4 Thermometer ID: AA-T- | -03 CF= | - 1.0 | \checkmark | | | | P | rese | rvative | Lot N | umber/s |); | | | | - Casero | | | | 2 - J #2992693 | | mannin | | | | | |
| Relinguined B | 8/23/22 | Time: /2<i>02</i> | ז ק | 2 R | eteive | ed By | י: ג≁ | is | R | 25d | ٢Ĩ | çuq | 3 | Notes: | inionene | | | | | | Shior Traci | aining I king Nu | inform umber: | ation | | | 200 ⁰⁰ 00000000000000000000000000000000 | |
| Selinquished By Rom | drigrez 8/23 | m | 172 | 7) R | eceivo A | ed By | Y: | | | | (| 0 | 0 | PLEASE NOTE claim arasing | : Liai whet | oilities her ba | and ised i | Dama in cor | iges. tract | AA's li or tor | ability | and c I be lir | :lients mited | s exclu to the | sive re amou | medy Int pai | for an d by t ł | γ he |
| Relinquished By: | Date: 1 | rime: | | Ć | edeive A | ed By | · | < q | 3\7 | v5(| $\overline{\mathbb{Q}}$ | 9:10 |) | client for ana shall be deen completion o | iysis. hed w f the | All cla vy S spplici | abig : | nclud is ma servic | ing th de in v Tra | ose fo writin y o eve | r negl Dank ant shi | igence seeeiv all AA | and و ed by be lia | any ol AA wi ble fo | ther ca ithin 3 r incidi | iuse w 0 days ental o | hatsoe lafter ir | :ver |
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| UPS - Fed Ex - Bus - U | SPS - Lone Star Overnight | t - Othe | -Self | | $\overline{\mathbf{v}}$ | Ye | Inta | ct No | 0 | | m | | tials) | related to the based upon a | ncur perf ny of | nan The at | Ore ice of nove | nt, it's Eservi stateo | suas ices hi d reas | idiarie ereuni ons oi | s, attil der by r othe | rrates i r AA, n r wise. | or suc egard | less of | rs aris Fwhet | ng out her su | ot or th clair | m is |

10526 Gulfdale San Antonio, TX – 78216;

| | | , | |
|-----------|-------------|------------|----------|
| Ph. (210) |) 340-8121; | Fax: (210) | 340-8123 |

Document Control No.: SOP-SAMP-REC Ver.13.1

| | | <u>Sam</u> | ple Lo | og-In Ch | ecklist | t | | | |
|---------------|---|-------------------------|-------------------------|----------------------------|------------------------|-----------------------|-----------------|----------|---|
| DATE | : 08,25,2022 | - - | ГІМЕ: | _09:4 | t0 | _ | INITIALS:_ | <u></u> | |
| CLIEN 1. | NT: Adv. Analysis Is a Chain of Custody present | <u>s</u> 1 ?? | PROJE | CT: W.O#_ | 220 | 8092 (Yes) | No | | |
| 2. | Is a Chain of Custody proper | y compl | eted? | | | Yes | No | | |
| 3. | Are custody seals present? If yes, are they intact? Are they on: Sample | e | C | or o n | Shippi | Yes Yes ng Cont | No No | | |
| 4. | Are all samples tagged or lab <i>If yes</i> , do the labels match the | eled? Chain o | f Custoo | iy? | , | Yes Yes | No No | | |
| 5. | Do all shipping documents ag <i>If not</i> , describe below. | gree (i.e., | number | r of coolers a | arrived ve | s. on ticl Yes | kets) No | N/A | |
| 6. | Are samples preserved proper | ly? If no | ot, descr | ibe below. | (| Yes | No | | |
| 7. 8. | Are all samples within holdin If not, describe below. Condition of shipping contair | g times o her: Intac | on arriva | 11? or | | Yes | No | | and and the second s Second second s Second second s |
| 9. | Condition of samples: | Intac | t | or | | | | | · · · · |
| 10. | Temperature of samples: Tem | up. (⁰ C):_ | <u>38</u> c | orrected Ter | mp. (⁰ C): | <u>3·8</u> | Thermometer | ID : | Dor L2 |
| 11. | pH strip lot#: | San | nples ou | t of pH rang | ge: | | | | |
| 12. | Delivery agent: Client Ul | PS | Fed-Ex_ | Lone S | star | Alamo F | P/U Oth | er | |
| 13. | Sample disposal: Return | to client | | Alaı | no A n aly | tical Di | sposal | | |
| 14. | Location. WI Walk-In Cooler)/ | F2 (Freez | zer 2 for] | ГРН 1005 Soil | s))/ R1 (R | efrigerato | r 1 for TPH & V | OC water | r) |
| <u>Comn</u> (| nents: (Reference checklist | item nu | mber fi | rom above, | or for co | ommen | ts on resolut | ion belo | w): |
| | Record of contacting clie | nt for re | solution <u>Cont</u> | of sample di acted How? | iscrepanc | ies (first | and retry con | itact) | |
| Name: | | Phone | Fax | Date: | | Time | 2. | | |
| Name: | | Phone | Han Fax | Date: | | Time | ·· | | |

REPORT NARRATIVE



Main: 10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121 . Fax. (210) 340-8123

| Mario Rodriguez | |
|-------------------------|-------------------------------------|
| Advanced Analysis Inc. | |
| P.O Box 16652 | |
| Lubbock , Texas - 79490 | |
| TEL: (806) 796-2805 | Email: <u>rodriguezaa@yahoo.com</u> |
| FAX: (806) 796-2825 | |
| FAA. (806) 796-2825 | |

RE: City of Tahoka Dear Mario Rodriguez:

Order No.: 2209095

9/30/2022

Enclosed please find the analytical report for the sample/s received on 9/23/2022.

SAMPLE RECEIPT: Samples were received intact and with chain of custody documentation. HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the Sample Acceptance Policy unless otherwise noted in the report.

COMMENTS: No significant observations were made.

If you have any questions regarding these test results call (210) 340-8121.

Thank you,

Reddy Gosala, Ph.D Laboratory Director

Report of Laboratory Analysis

Note: The analysis contained in this report applies only to the samples tested and for the exclusive use of the addressed client. Reproduction of this report wholly or in part requires written permission of the client.

| ALAMO ANALYTICA | L LABORATORIES, | LTD. |
|-----------------|-----------------|------|
|-----------------|-----------------|------|



| | | A | nalytical Resu | ılts Report | | | |
|--------------------------------------|------------------------------|--------|---------------------|--|-----------------------|---------------------------|----------------|
| Client: Lab Order: Project ID: | Advanced Analysis 2209095 | s Inc. | | Collection Date: Matrix: Lab ID: | 9/22/2 WAT 2209 | 2022 10 ÈER 095-01A | :00:00 AM |
| Project Name: | City of Tahoka | | | | | | |
| <u>Client Sample I</u> | D: Center Lagoon | | | | | | |
| Analyses | | Result | Report Limit | Units | Dil | ution | Date Analyzed |
| TOTAL SUSPEN | IDED SOLIDS | | | SM2540D | | Anal | yst: SM |
| Suspended S Filterable) | olids (Residue, Non- | 79 | 5 | mg/L | 1 | 26- | Sep-22 |
| PH | | | | SM4500-H+B | | Anal | yst: YK |
| pH at 25 o C | | 8.8 | 0.1 | pH units | 1 | 22- | Sep-22 |
| BOD, 5 DAY, 20 | °C | | | SM5210B | | Anal | yst: AM |
| Biochemical (| Oxygen Demand | 64.8 | 2 | mg/L | 1 | 28- | Sep-22 |

beredity

Approved by: Reddy Gosala, Laboratory Direc

Report of Laboratory Analysis

| CLIEN Work O | T: Drder: | Advanced Analysis In 2209095 | IC. | Project: | City | y of Tahoka | | | QC | SUMN | IAR | Y REP | ORT |
|-----------------|--------------|------------------------------|------------|-----------------|----------|-------------|-----|----------------|----------------------|---------|----------------|--------------|--------|
| | | | | %REC | | | %RE | C | Low - High | | | F | RPD |
| Analyte | | | BLK SPI | Value LCS | | | MS | | Limit | Parent | DUP | % | Limi |
| Batch ID: | BOD5-9 | /23/2022 | TestName | : BOD, 5 Day, 2 | 20°C | | | | | | | | |
| Run ID: | INCUB_ | 220923B | Test Code: | SM5210B | Units: | mg/L | | Analysis Date: | 9/28/2022 3:20:00 PM | Prep Da | a te: 9 | /23/2022 10 | :00:00 |
| Biochemica | al Oxygen | Demand | <2 19 | 90.9% | | | | | 69 - 227 | 64.8 | 65.2 | 1.000 | 20.0 |
| Batch ID: | PH_WW | /-9/23/2022 | TestName | : pH | | | | | | | | | |
| Run ID: | PH_W_ | 220923A | Test Code: | SM4500-H+B | Units: | pH units | | Analysis Date: | 9/22/2022 9:35:00 AM | Prep Da | ate: 9 | /23/2022 9:3 | 35:00 |
| pH at 25 o | С | | 7 | 7 100.1% | | | | | 95 - 105 | 8.8 | 8.8 | 0.000 | 5.0 |
| Batch ID: | TSS_W | -9/26/2022 | TestName | : TOTAL SUSP | ENDED SC | DLIDS | | | | | | | |
| Run ID: | TSS_22 | 0926A | Test Code: | SM2540D | Units: | mg/L | | Analysis Date: | 9/26/2022 3:55:00 PM | Prep Da | ate: 9 | /26/2022 9:0 | 00:00 |
| Suspended | d Solids (R | esidue, Non-Filterable) | <5 | | | | | | | 79.0 | 78.0 | 1.000 | 20.0 |

peredity

Approved by: Note: The analysis contained in this report applies only to the samples tested and for the exclusive use of the addressed client. Reproduction of this report wholly or in part requires written permission of the client.

| 3407 Clovis Rd 794 | ADVANCED ANALYSI . Lubbock, Texas 79415 P.O. Bo 190 Tel: (806) 796-2805 Fax : (80 | S, II >x 166 06) 79 | NC. 552 Lubbo 96-2825 | ock, | Теха | S | | | | | | | | | , | (| CHA | IN | OF | CL | IST | OD | Y | Pag | ;e | 1 | <u> </u> | of | :] | |
|--------------------------------|--|---------------------------|-----------------------------|------------|----------------|--|-----------|------|------------|-----------|-----------------------|--------|-------------------------|---|--|---------------------------|---------------------------|-------------------------|---------------------------|--|-------------------------|---------------------------|--------------------------|---------------------------|-----------------|-----------------------------------|----------------------------|-----------------------------|----------------------|--------------|
| Company Name: Cl | TY OF TAHOKA | | | | | | | | | agest via | | | | | et son the part of the state of the state of the | | | **** | | | | | | | Difference and | 5. 5x53r/8-4 | | | | Noncontracem |
| Project Manager: R | AYMOND VEGA | | | | | | | | 811 | | 0 | | PC |)#: | | | CLP | _ | | | | | | | | | | | | |
| Address: 1807 MAIN | 1 BOX 300 | | | | | | | | Co | mp | any: | : | | | | T(| OTAL | | | | | | | | | | | | | |
| Dhana # 906 561 4 | | <u>e: </u> | <u>X 41</u> | p: | <u>793</u> | 73 | | | At | tn: | | | | | | | | | | | | | | | | 1 | | | | |
| Phone #: 000-301-44 | | ₩: | | | | | | | Ad | dre | ess: SA | ME | | | | Þ | | اہ | | | | | | | | | 19. | | | |
| Project # | 1915(QPUKA.CUM | | | | | | | | Cit | <u> </u> | | | | | | R | | 8 | | 8 S | | | | | | 1 | 8 | | | |
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| Project Indine: | ······································ | | | | | | | | ۳n | one | e #: | | | | | 5 | | 2 | <u>س</u> ا | | 2 | | | | | | Σ | | | |
| Tioject Location: | | | l. | 1 | 1 | | 0.67 | | 1-3) | K #: | CALAR | | | 5 6 80.0 | | 3 | Ĕ | Ξ | \sim | 5 | S | | | | | | 15 | | | |
| | | SITE | | | | ~ | IVIA | 418 | | _ | SAIVIP | LEL | MECKS | SAIVI | PLING | Z | 4 | 2 | ard | Ba | | | | | | | ē | | | |
| A A # (Lab Use) | Sample Source Id | AB / COMPO | UTTLE SIZE | CONTAINERS | ITTLE TYPE | OUNDWATEF | ASTEWATER | I. | JDGE | HER: | ESERVATIVE E: | | iual temp M sample°c | | | op (Bob) | is / ci / sc | N / NO ₃ / N | calinity / H | etals: As Ag | / Ca / Mg | latiles minalatilor | MIVOIAUICS | B's | EX/MTBE | U | oli enumera | | | |
| 220404501 | | ō | BC | # | B | 5 | ≷∣ | ŝ | SLI | 5 | PRI TYP | рН | ACI | DATE | TIME | 8 | Æ | Ě | ₹ | Σİ | ž : | \$ 3 | 86 | : 6 | B I | 6 | ы Ш | | | |
| AA29972-) | CENTER LAGOON | 6 | 1000 | 11 | 19 | | ィ | | | | $\boldsymbol{\times}$ | | 4 | 9/22/22 | 10;00 am | Μ | | | | Т | T | T | Т | Τ | Т | Π | Π | П | I | Т |
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| | | | | Ī | Π | | | | | | | ! | | | | | | | Î | | | T | T | | 1 | ĺ. | H | | T | |
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| | | | | ┢── | \square | \vdash | | | | | | | | l | 1 | ⊢ | | _ | | ╉ | ╉ | ╉ | ╇ | ╇ | ╋ | | H | ╤╋ | | ╇ |
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| Container type: P-Polyethy | lene G-Glass /V-VOA Z-Ziploc | k Bag |] | finance of | and the second | | | | | *Ali | sample r | H's. a | ind Tem | eratures are ta | ken at the time | thev | are re | eceiv | ved in | the | labo | raton | v bv i | ab S | taff | <u>11</u> | <u>H</u> | | | |
| Received on Ice | TYes T | | No | | / | 2 (a - a - a - a - a - a - a - a - a - a | | | | Pres | Servative | Type | HNO ₂ = | (N) H ₂ S0, = (| (S) NaOH = (O |) HC | | -1)(1 | EE = | (X)_ | Na. | -5.0 | . = (< | (T) | 1 Pr | 2500 | and u | | rrival | |
| pH paper Lot #: Q/GHSC1544 | 4 Thermometer ID: AA-T-(|)3 C | CF = 1.0 | 7 | lauros | 1440) (March | | | | Pres | ervative | Lot N | umber/e | ···/ ··2004 (| | | | | | می می می می اور این اور اور اور اور اور اور اور اور اور اور | | 5200 | | - / | L | | | | | |
| Relingy shed By: | Date: T 9/22/22 | ime: | 00 | r | Rec | eived | By: | いて | ـــــ ک | 6 | Ro | 3 | | · | Notes: | ang daab maay | a hada a jiba | 32607 E 36 | and a financial | | | Sh Tra | ippinir acking | ig Info Numb | rmatic ier: | on | | | | |
| Relinquished By: MAVID Rody | ·iqviz g/22/22 | ime: (` | 7:0 |) | Rec | eived { | By: | | | | | | 0 | in the second second second second second second second second second second second second second second second | PLEASE NOTE claim arasing | : Liat whet | ilities her ba | and ised | Dami in coi | ages. htract | AA's t or to | liabili ort, sh | ity an Iall be | d clier Iimit | nts ex | clusi the a | ve rer amour | nedy f nt paid | or any I by the | e |
| Relinquished By: | 0 Z _{Date:} T | ime: | | | Rec | eived | ₿y: | ~ | • ८ | 71 | 231 | 22 | 6 | 8:55 | client for ana shall be deen completion o | iysis. hed w fthe j | All cla aived | unle aprio | incluc ss ma servic | de in de in | hose | tor ne ng an vent s | s altr | nce a sived A be | gd an gy A | y oth <u>A with</u> e for i | er cau nin 30 incide | ise wh days a ntal or | atsoev after r | /er |
| Delivered by: (Circle (| Dne) | | | 7 | 7 | - 6 | imp | le C | ondi | ition | | | Checl | ed By: | consequentia | Hapit | aget, l | ineru | iding | withc | out lir | nitatio | on, bi | Isines | is inte | rrupt | ions, | loss of | f use, c | or |
| UPS - Fed Ex - Bus - US | iPS - Lone Star Overnight | - Ot | her-Sel | e) | | 1 | Yes | | ct | No | | m | ∕ (Ini | tials) | related to the based upon a | ncur perfo | red by orman the at | y clie ice o pove | f serv state | s sub ices l d rea | sidiai hereu sons | ies, a nder or oth | hinate by AA herwi | ±s or : 1, rega se. | succe ardles | ssors s of v | wheth | g out er suci | or or h clain | n is |

WHITE - AA COPY YELLOW - CUSTOMER

10526 Gulfdale San Antonio, TX – 78216; Ph. (210) 340-8121; Fax: (210) 340-8123

Document Control No.: SOP-SAMP-REC Ver.13.1

| | <u> </u> | Sample Log | g-In Checkli | <u>st</u> | | |
|--------------------------|---|-----------------------------|-------------------------------|------------------------------|----------------------|---|
| DATE | : 09 1731 2022 | TIME: | 09:15 | | IALS: | YK |
| CLIEN 1. | NT: Adv. Analysiss Is a Chain of Custody present? | PROJEC | г: W.O# <u>220</u> | 9093 to 2 | <u>.20</u> 90' No | 75 |
| 2. | Is a Chain of Custody properly c | ompleted? | | Yes | No | |
| 3. | Are custody seals present? If yes, are they intact? Are they on: Sample | or | on Shipj | Yes Yes ping Container | No | |
| 4. | Are all samples tagged or labeled <i>If yes</i> , do the labels match the Ch | 1? ain of Custody | ? | (Ves) (Yes) | No No | |
| 5. | Do all shipping documents agree <i>If not</i> , describe below. | (i.e., number o | f coolers arrived | vs. on tickets) Yes | No | N/A |
| 6. | Are samples preserved properly? | If not, describ | e below. | Yes | No | |
| 7. | Are all samples within holding ti If not, describe below. | mes on arrival? | 9 | Yes | No | |
| 8. | Condition of snipping container: | Intact or | | | | · · · · · · · · · · · · · · · · · · · |
| 9. | Condition of samples: | Intact or | | | | |
| 10. | Temperature of samples: Temp. (| (°C): <u>38</u> Cor | rected Temp. (⁰ C |): <u>3·8</u> Therm | ometer I | $D: \underbrace{\mathbf{DT1}}_{\text{or } \mathbf{L2}}$ |
| 11. | pH strip lot#: <u>B0759</u> | Samples out o | of pH range: | y | | |
| 12. | Delivery agent: Client UPS | Fed-Ex_ | /Lone Star | _Alamo P/U | _ Other | • |
| 13. | Sample disposal: Return to c | elient | Alamo Ana | lytical Disposal | \checkmark | |
| 14. | Location: WI Walk-In Cooler)/ F2 | (Freezer 2 for TP | H 1005 Soils))/ R1 (| Refrigerator 1 for | TPH & VO | DC water) |
| <u>Comn</u> (iq 22 | nents: (Reference checklist ite Jid 19093 DI NO Sam | m number fro Ple. Rocei | m above, or for | comments on i | resolutio | on below): |
| | Record of contacting client f | for resolution of Contac | sample discrepar ted How? | ncies (first and re | etry cont | act) |

| Name: | Phone | Fax | Date: | 1 | 1 | Time: | |
|-------|-------|------|-------|----------|---|-------|--|
| Name: | Phone | _Fax | Date: | <u> </u> | / | Time: | |



Main: 10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121 . Fax. (210) 340-8123

REPORT NARRATIVE

| Mario Rodriguez | |
|-------------------------|------------------------------|
| Advanced Analysis Inc. | |
| P.O Box 16652 | |
| ∟ubbock , Texas - 79490 | |
| TEL: (806) 796-2805 | Email: rodriguezaa@yahoo.com |
| FAX: (806) 796-2825 | |
| | |

RE: City of Tahoka Dear Mario Rodriguez:

Order No.: 2210096

11/2/2022

Enclosed please find the analytical report for the sample/s received on 10/21/2022.

SAMPLE RECEIPT: Samples were received intact and with chain of custody documentation. HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the Sample Acceptance Policy unless otherwise noted in the report.

If you have any questions regarding these test results call (210) 340-8121.

Thank you,

Reddy Gosala, Ph.D Laboratory Director

Report of Laboratory Analysis

Note: The analysis contained in this report applies only to the samples tested and for the exclusive use of the addressed client. Reproduction of this report wholly or in part requires written permission of the client.



Analytical Results Report

| CLIENT: | Advanced Analysis Inc. | Project: | City of Tahoka |
|------------|------------------------|----------|----------------|
| Lab Order: | 2210096 | | |

| Alamo Lab ID Client ID | Collection Date | Analyses | Matrix | Result | MDL | PQL | Units | DF Qua |
|----------------------------------|------------------------|------------------|-------------------------|---------------|-----|-------|----------|--------|
| TestName: pH | TestNo: | SM4500-H+B | Date Analyzed 10/21/202 | 22 10:20:00 A | | Initi | als: YK | |
| 2210096-01A Center Lagoon | 10/19/2022 10:00:00 AM | pH at 25 o C | Water | 8 0. | .04 | 0.1 | pH units | 1 |
| TestName: TOTAL SUSPENDED SOLIDS | TestNo: | SM2540D | Date Analyzed 10/24/202 | 22 3:55:00 PM | | Initi | als: SM | |
| 2210096-01A Center Lagoon | 10/19/2022 10:00:00 AM | Suspended Solids | s (Residue, No Water | 62 2. | .11 | 5 | mg/L | 1 |
| TestName: BOD, 5 Day, 20°C | TestNo: | SM5210B | Date Analyzed 10/26/202 | 22 3:55:00 PM | | Initi | als: AM | |
| 2210096-01A Center Lagoon | 10/19/2022 10:00:00 AM | Biochemical Oxyg | en Demand Water | 58.2 0. | .65 | 2 | mg/L | 1 |

beredy

H Holding times for preparation or analysis exceeded; J - Analyte detected below quantitation limits * Non-NELAP Standards ** Sub Contracted

Approved by: Reddy Gosala, Laboratory Direc Report of Laboratory Analysis
Note: The analysis contained in this report applies only to the samples tested and for the exclusive use of the addressed client. Reproduction of this report wholly or in part requires written permission of the client.

| CLIEN | F: Advanced Ana | lysis Inc. | | ~ | | | | QC S | SUMM | [AR] | Y REP | ORT |
|------------|---------------------------------|----------------|-----------|-----------|--------------|-----|----------------|------------------------|---------|----------------|-------------|--------|
| Work () | Order: 2210096 | | Project: | Ci | ty of Tahoka | | | | | | | |
| | | | %RI | EC | | %RE | EC | Low - High | | | F | ۲PD |
| Analyte | | BLK SPK valu | e LCS | LCSD RPD | % RPD Limit | MS | | Limit | Parent | DUP | % | Limi |
| Batch ID: | BOD5-10/21/2022 | TestName: B | DD, 5 Day | , 20°C | | | | | | | | |
| Run ID: | INCUB_221021A | Test Code: SM5 | 210B | Units | : mg/L | | Analysis Date: | 10/26/2022 3:55:00 PM | Prep Da | i te: 1 | 0/21/2022 9 | :55:00 |
| Biochemica | al Oxygen Demand | <2 198 | 89.9% | | | | | 69 - 227 | 58.2 | 56.4 | 3.000 | 20.0 |
| Batch ID: | PH_WW-10/21/2022 | TestName: pH | [| | | | | | | | | |
| Run ID: | PH_W_221021A | Test Code: SM4 | 500-H+B | Units | : pH units | | Analysis Date: | 10/21/2022 10:20:00 AM | Prep Da | i te: 1 | 0/21/2022 1 | 0:20:0 |
| pH at 25 o | С | 7 | 100.4% | | | | | 95 - 105 | 8.0 | 8.1 | 1.000 | 5.0 |
| Batch ID: | TSS_W-10/24/2022 | TestName: T(| DTAL SUS | SPENDED S | OLIDS | | | | | | | |
| Run ID: | TSS_221024A | Test Code: SM2 | 540D | Units | : mg/L | | Analysis Date: | 10/24/2022 3:55:00 PM | Prep Da | i te: 1 | 0/24/2022 8 | :35:00 |
| Suspended | d Solids (Residue, Non-Filterat | ble) <5 | | | | | | | 226.0 | 222.0 | 2.000 | 20.0 |

peredity

Approved by: Note: The analysis contained in this report applies only to the samples tested and for the exclusive use of the addressed client. Reproduction of this report wholly or in part requires written permission of the client.

| 3407 Clovis Ro 794 | ADVANCED ANALYSI 1. Lubbock, Texas 79415 P.O. Bo 490 Tel: (806) 796-2805 Fax : (8 | IS, II 0x 166 06) 79 | NC. 52 Lubb 6-2825 | ock, | Теха | IS | | | | | | | | | | C | CHA | NN 1 | OF | CL | JST | OD | Y | Pa | ge | | (| of | _1 | ł . |
|---|---|----------------------------|--------------------------|--------------|-------------|-------------------------|-------------|---------------|------------|----------------------|---------------------|---------|------------------------------|----------------------|---|-------------------------|------------------------------|-------------------------------|------------------|--------------------------|--------------------------|---------------------------|---------------------------|--------------------------|-----------------------------|----------------------------|--------------------------|---------------------------------|----------------------------|-----------------|
| Company Name: Cl | TY OF TAHOKA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Manager: R | AYMOND VEGA | | | | | | | T | BIL | LT | 0 | | P |) #: | | Т | CLP | : [| T | T | | | | Т | Т | Т | Τ | | T | \Box |
| Address: 1807 MAIN | N BOX 300 | | | | | | | T | Col | mp | any: | | | | | T | DTA | L: | | | | | | | | | | | | |
| City: TAHOKA | Stat | e: T | X Zi | ip: | 793 | 73 | | Т | Att | :n: | | 1 | | | | Π | | | Т | Γ | Т | Τ | | | | | | | | |
| Phone #: 806-561-4 | 211 Fax | 荐: | | | | | | T | Ad | dre | ess: SA | ١ME | | | | F | | | | | | | | | | | 9 | | | |
| E - mail : TAHOKA | 1915@POKA.COM | | | | | | | City: | | | | | | | Ē | / | ğ | | Š | | | | | | | 6 | | | | |
| Project #: | | | | | | | | | Sta | te: | ; | | 4 | Zip: | | છે | | 2 | | Ī | | | | | | | 23 | | | |
| Project Name: | | | | | | | | | Phe | one | e #: | | | | | 2 | | 5 | | | ₹ | | | | | | 65 | | | |
| Project Location: | | | | | | | | | Fax | (#: | | | | | | ŝ | 8 | E. | 1 | <u>s</u> | ¥. | | | | | | 5 | | | |
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| A A # (Lab Use) 2-2-1 () へ96-7 | Sample Source Id | GRAB / COMPOSI | 30TTLE SIZE | # CONTAINERS | ΒΟΤΤΙΕ ΤΥΡΕ | BROUNDWATER | NASTEWATER | 011 | ILUDGE | DTHER: | reservative YPe: | ¥ | ACTUAL TEMP ROM SAMPLE °C | DATE | TIME | cBOD / (BOD) | TDS / CI 7 SO4 | TKN / NO ₃ / NO | Alkalinity / Ha | Metals: As Ag B | Na / Ca / Mg | Volatiles | Semivolatiles | IPH Drb1- | RTEX/MTRF | FOG | E.coli enumerat | | | |
| 1498-200019 | | F | | t- | 5 | H | Ś | | <u> </u> | Ť | | | a | 10/10/22 | 10.00am | 17 | \leftarrow | T | Ì | + | T | T | T | 1 | ╈ | ╈ | Ť | T | Ť | T |
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| Container type: P-Polyethy | lene G-Glass V-VOA Z-Ziploc | :k Bag | 1 | | | | | | J | *All | sample p | oH's, a | and Tem | peratures are ta | ken at the time | they | are r | eceiv | ed ir | the | labo | rator | y by | Lab | Staff | | | | | Contractor Pro- |
| Received on Ice | Yes | | No | | | | _ | | | Pres | servative | Туре | HNO3 = | $= (N) H_2 SO_4 = ($ | S) NaOH = (O |) HC | _ = (l | HYIC | Έ= | QR) | Na ₂ | -S ₂ O | 3 = (| ST) | Pr | eserv | ved u | pon ar | rival | M |
| pH paper Lot #: Q/GHSC154 | 4 Thermometer ID: AA-T- | 03 C | :F = 1.0 | | | $\overline{\mathbf{v}}$ | | | | Pres | servative | Lot N | umber(s | ;); | | | | | | | | | | | | | | | | |
| Relinguished Br. | Date: T | ime: / ' :9 | p an | | Rec | eivec | i By: | ım | ų | G | D G | 10 |).19- | 22 11:00 | Notes: | | | | | | | St Tr | nippin ackinį | ing Inf g Nurr | ormati ber: | on | | | | 1 |
| Relinquished BA: | pate: T 10/19/22 | ime: /(: 3 | 7om | | Rec | eivec | l By: | | | | | į | | | PLEASE NOTE claim arasing client for ana | : Liab whet Ivsis | ilities her ba All cla | i and I ased ii aims ii | Dama n cor | iges. Itraci | AA's | art, si | ity an al to eglige | ndeij e limi ence | ted to and a | clusi the the the | ive re amou her ca | medy f nt paid use wh | or any by the atsoev | er |
| Relinquished By: Maria Ra | Stigues 1/15 | ime: | יברו. יירו | 30 (| Rec | aivec | i By: | Z | <u>_</u> | 4 | 2/2/ | V | Q | 0950 | shall be deen completion o | ned wa | | unles able s | ervic | àe R. In Withr | writi no e out lir | ing ar vent nitati | id ree shall on h | eive AA b usine | l by A e liabl ss int | A witi e for i errun | hin 30 incide |) days a intal or loss of | fter use. o | r |
| Delivered by: (Circle UPS - Fed Ex - Bus - U | One) () Ø SPS - Lone Star Overnight | - Ot | her-gel | F | | 5 | ampl Yes | le Co Inta | ondi ct | iti d a No | - | | | ked By: itials) | loss of profits related to the based upon a | incun perfo | red b irmar the al | y clier nce of bove s | it, it's serv | s sub ices l d rea | sidiai iereu sons | ries, a inder or ot | ffilia by A herw | tes oi A, reg ise. | succi ardle | essors ss of v | s arisi wheti | ng out Ier sucl | of or n claim | is |

WHITE - AA COPY YELLOW - CUSTOMER

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10526 Gulfdale San Antonio, TX – 78216; Ph. (210) 340-8121; Fax: (210) 340-8123

Document Control No.: SOP-SAMP-REC Ver.13.1

| | Sample Log-In Checklist | |
|-------------|--|-----------|
| DATE | : 10/21/2022 TIME: 10:05 INITIALS: V/k | |
| CLIEN 1. | Is a Chain of Custody present? PROJECT: W.O# 2210096 & 2210097 No | |
| 2. | Is a Chain of Custody properly completed? (Yes) No | |
| 3. | Are custody seals present? Yes If yes, are they intact? Yes Are they on: Sample or on Shipping Container | |
| 4. | Are all samples tagged or labeled?YesNoIf yes, do the labels match the Chain of Custody?YesNo | |
| 5. | Do all shipping documents agree (i.e., number of coolers arrived vs. on tickets) If not, describe below. Yes No N/A | |
| 6. | Are samples preserved properly? If not, describe below. (Yes) No | |
| 7. 8. | Are all samples within holding times on arrival?YesNoIf not, describe below.Or | |
| 9. | Condition of samples: Intact or | |
| 10. | Temperature of samples: Temp. (°C): $4^{\circ}6$ Corrected Temp. (°C): $4^{\circ}6$ Thermometer ID (DT1) or | <u>L2</u> |
| 11. | pH strip lot#: <u>B0756</u> Samples out of pH range: | |
| 12. | Delivery agent: Client UPS Fed-Ex Lone Star Alamo P/U Other | |
| 13. | Sample disposal: Return to client Alamo Analytical Disposal | <u> </u> |
| 14. | Location: WI (Walk-In Cooler)/ F2 (Freezer 2 for TPH 1005 Soils))/ R1(Refrigerator 1 for TPH & VOC water) | |
| <u>Comr</u> | nents: (Reference checklist item number from above, or for comments on resolution below): | |
| | <u>Record of contacting client for resolution of sample discrepancies (first and retry contact)</u> <u>Contacted How?</u> | |

| Name: | Phone _ | Fax | Date: | //Time: |
|-------|---------|-----|-------|----------|
| Name: | Phone _ | Fax | Date: | / /Time: |

| Q | | | AL LAB | ORATORIES | , LTD. | Date: | 05-Dec-22 |
|-----------------------|--|-----------------------------------|--------|---------------------|--|---------------------------------------|---------------------------|
| Y | | | А | nalytical Resu | ilts Report | | |
| Clier Lab Proje | nt: Order: ect ID: | Advanced Analysis 2211125 | s Inc. | | Collection Date: Matrix: Lab ID: | 11/22/2022 1 LIQUID 2211125-01A | 0:00:00 AM |
| Proje <u>Clier</u> | ect Name: 1t Sample ID | City of Tahoka Center Lagoon | | | | | |
| Ana | lyses | | Result | Report Limit | Units | Dilution | Date Analyzed |
| тот/ | AL SUSPEND Suspended Sol Filterable) | DED SOLIDS lids (Residue, Non- | 82 | 5 | SM2540D mg/L | Anal 1 28-1 | yst: Y K Nov-22 |
| PH | pH at 25 o C | | 7.4 | 0.1 | SM4500-H+B pH units | Anal 1 23-l | yst: YK Nov-22 |
| BOD | , 5 DAY, 20°(Biochemical O | C Aygen Demand | 62.5 | 2 | SM5210B mg/L | Anal 1 28-1 | yst: AM Nov-22 |

Date: 05-Dec-22



Main: 10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121 . Fax. (210) 340-8123

REPORT NARRATIVE

| Mario Rodriguez | |
|-------------------------|-------------------------------------|
| Advanced Analysis Inc. | |
| P.O Box 16652 | |
| Lubbock , Texas - 79490 | |
| TEL: (806) 796-2805 | Email: <u>rodriguezaa@yahoo.com</u> |
| FAX: (806) 796-2825 | |
| | |

RE: City of Tehoka Dear Mario Rodriguez:

Order No.: 2212092

1/3/2023

Enclosed please find the analytical report for the sample/s received on 12/21/2022.

SAMPLE RECEIPT: Samples were received intact and with chain of custody documentation. HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the Sample Acceptance Policy unless otherwise noted in the report.

If you have any questions regarding these test results call (210) 340-8121.

Thank you,

Reddy Gosala, Ph.D Laboratory Director

Report of Laboratory Analysis

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Analytical Results Report

| CLIENT: | Advanced Analysis Inc. | Project: | City of Tehoka |
|------------|------------------------|----------|----------------|
| Lab Order: | 2212092 | | - |

| Alamo Lab ID Client ID | Collection Date | Analyses | Matrix | Result | MDL | PQL | Units | DF Qua |
|----------------------------------|------------------------|------------------|-------------------------|---------------|------|-------|----------|--------|
| TestName: pH | TestNo: | SM4500-H+B | Date Analyzed 12/21/202 | 22 10:00:00 A | | Initi | als: YK | |
| 2212092-01A Center Lagoon | 12/19/2022 10:00:00 AM | pH at 25 o C | Water | 8 (| 0.04 | 0.1 | pH units | 1 |
| TestName: TOTAL SUSPENDED SOLIDS | TestNo: | SM2540D | Date Analyzed 12/23/202 | 2 4:00:00 PM | | Initi | als: YK | |
| 2212092-01A Center Lagoon | 12/19/2022 10:00:00 AM | Suspended Solids | (Residue, No Water | 86 2 | 2.11 | 5 | mg/L | 1 |
| TestName: BOD, 5 Day, 20°C | TestNo: | SM5210B | Date Analyzed 12/26/202 | 2 3:10:00 PM | | Initi | als: AM | |
| 2212092-01A Center Lagoon | 12/19/2022 10:00:00 AM | Biochemical Oxyg | en Demand Water | 63.6 (|).65 | 2 | mg/L | 1 |

beredy

H Holding times for preparation or analysis exceeded; J - Analyte detected below quantitation limits * Non-NELAP Standards ** Sub Contracted

Approved by: Reddy Gosala, Laboratory Direc Report of Laboratory Analysis
Note: The analysis contained in this report applies only to the samples tested and for the exclusive use of the addressed client. Reproduction of this report wholly or in part requires written permission of the client.

CLIENT: Advanced Analysis Inc. **QC SUMMARY REPORT** Work Order: 2212092 **Project:** City of Tehoka %REC %REC RPD Low - High Limit Limi SPK value LCS MS Parent DUP % Analyte BLK BOD5-12/21/2022 Batch ID: **TestName:** BOD, 5 Day, 20°C INCUB_221221A Test Code: SM5210B Units: mg/L Analysis Date: 12/26/2022 3:10:00 PM Prep Date: 12/21/2022 9:30:00 Run ID: **Biochemical Oxygen Demand** 198 90.4% <2 69 - 227 60.4 61.6 2.000 20.0 Batch ID: PH_WW-12/21/2022 TestName: pH Run ID: PH_W_221221A Test Code: SM4500-H+B Units: pH units Analysis Date: 12/21/2022 10:00:00 AM Prep Date: 12/21/2022 10:00:0 pH at 25 o C 7 99.9% 95 - 105 8.0 8.0 0.000 5.0 Batch ID: TSS_W-12/23/2022 TestName: TOTAL SUSPENDED SOLIDS Run ID: TSS_221223A Test Code: SM2540D Units: mg/L Analysis Date: 12/23/2022 4:00:00 PM Prep Date: 12/23/2022 9:30:00 Suspended Solids (Residue, Non-Filterable) <5 30.0 29.0 3.000 20.0

Laboratory QC Report Note: The analysis contained in this report applies only to the samples tested and for the exclusive use of the addressed client. Reproduction of this report wholly or in part requires written permission of the client.

| 3407 Clovis Ro 794 | ADVANCED ANALYSI d. Lubbock, Texas 79415 P.O. Bo 490 Tel: (806) 796-2805 Fax : (80 | S, I x 166 06) 79 | NC. 552 Lubb 96-2825 | ock, | Texa | IS | | | | | | | | | | C | НA | IN | OF | cu | ST | OD' | Y | Pag | ;e | | 1 | 0 | f | 1 |
|---|--|--------------------------------|----------------------------|------------|-------------|--|-------------|----------|------------|-----------|---------------------|---------------------------------------|--|-------------------|---|-----------------|-----------------------------|---------------------------|---|--------------------------------------|---|----------------------------------|---------------------------|-------------------|--------------------------|----------------------------|--|--------------------------|---|---|
| Company Name: Cl | TY OF TAHOKA | | | | | | | | | 1997 a.e. | No. of the Party of | the proceeding of | | | ármanga saga danig di gala antar Cirine Cirine Cirine Cirine Cirine Cirine Cirine Cirine Cirine Cirine Cirine C | | | | ana ang ang ang ang ang ang ang ang ang | | | | anaiseana Marina | | | nonen nyininin | | | and the second second | anicana Matana |
| Project Manager: R | AYMOND VEGA | | | | | | | | BILI | . T(| 0 | | PC |)#: | | T | CLP: | 4 | | _ | ╇ | ╇ | _ | | | | | | | |
| Address: 1807 MAI | N BOX 300 | | | | | | | | Con | npa | any: | | | | | T | DTAL | | | _ | | | 1 | | | | | | | |
| City: TAHOKA | Stat | e: T | <u>X Zi</u> | ip: | 7 <u>93</u> | 73 | | | Atti | 1: | | · · · · · · · · · · · · · · · · · · · | <u> </u> | <u></u> | | | | | | | | | | | | | | | | |
| Phone #: 806-561-4 | 211 Fax | <u>#:</u> | | | | | | | Adc | ire | SS: | | ×14 | $\eta \psi$ | | E | | | | | | | | | | | 9.2 | | | |
| E - mail : TAHOKA | 1915@POKA.COM | | | | | | | | City | r:S | AME | | μ_{1} | | | R | | 8 | | 20 | | | | | | | 8 | | | |
| Project #: | | | | | | | | | Stat | e: | | | Z | lip: | | ŝ | ľ | à | | 5. | | | | | | | 52 | | | |
| Project Name: | ······ | | | | | | | | Pho | ne | 谷: | , í | | | | Ľ | ŀ | 51 | | 515 | 5 | | | | | | 1 2 | | | |
| Project Location: | | | | | | | | | Fax | ₩: | 1 | | | | | 3 | ы Ш | Ξŀ | 213 | :13 | | | | | | | S | | | |
| | | ΤE | | | | | MA | ١TR | IX | | SAMP | LE CI | HECKS | SAM | PLING | M | | 2 | 2 | | | | | | | | Ö | | | |
| A A # (Lab Use) フク 1 フ <i>ロ</i> ヨフ - | Sample Source Id | SRAB / COMPOSI | ottle size | CONTAINERS | OTTLE TYPE | ROUNDWATER | ASTEWATER | 01. | LUDGE | THER: | RESERVATIVE 'PE: | H | ctual temp Iom Sample°C | DATE | тіме | BOD (BOD) | DS / CI / SO | KN / NO ₃ / NO | Vikalinity / Ha | Netals. As AS | va / va / ivig Valatilae | /Uldlics Amivolatijes | effit/Ulduics | cB's | STEX/MTBE | .90 | .coli enumerat | | | |
| | | | <u> </u> | # | - | 9 | 5 | <u>s</u> | <u> </u> | 익 | Ē | / <u>a</u> | l ₹ ∰ | DATE | | H | | | | | | 4 | ᆣ | | ╞ | ╞ | ┟╨┥ | | - | ┢ |
| +A-20685-1 | CENTER LAGOON | 6 | (810 | μ | 2 | | <u> </u> | | _ | Ļ | $X \downarrow$ | | 2 | 12/19/22 | 10:00 am | Щ | | _ | | ╇ | 1 | 4 | ┛ | ــ | 4- | ╞ | ┡┛ | H | ╼╋╾ | |
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| | ······································ | | | ! | | ┝─┤ | ╉ | | - | ┥ | | ÷ | | | 1 | | | ╉ | ┯╋ | ╉ | ╋ | ╋ | ╋ | ╋ | ╋─ | ╋ | ┢┥ | | | The second second second second second second second second second second second second second second second se |
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| sceived on Ice | | | | L. | <u> </u> | | | | | Tes | ervative | iype: | | (IN) 172304 = 1 | 3) Naun - (U) | | L (ľ | UC R | | 2 | 14212-4 | 32U3 | ;-(3 |) 1) | | 538IV | eu uț | Sectored Sectored | 111768 | Ļ |
| t paper ot #: Q/GHSC154 | 4 I I nermometer ID: AA-I-C | JS C | ∠r = 1.0 | | | | | | P | res | ervative | LOT NI | umper(s) |). | 1 | | | | | 11.20,-312 | | North Marcal Street | 17 a - 1 a - 1 | | анцасти | | an an an an an an an an an an an an an a | neuwował | Microsoftenia | , and the second |
| elinouished by: | Date: The 12/14/20 // | ime: //// | an | 1 | Rec | reived <u> <u> </u> <u> </u> </u> | BY: | ò | R | 50 | nje | ~ | | | Notes: | | | | | | and the second se | Shi Trə | ippinin acking | ig Info Numb | rmatio Ier: | л | ant classich | و المانو على الع | · # 160 - ¹⁰⁰ 10 - 10 ⁰ - | |
| telinquished B | riguez 12/19/2 | ime: | 6:æ |) | Rec | eived | By: | Ciria da | | | U U | <u>۲</u> | | | PLEASE NOTE: claim arasing client for final | : Liab Wis: | ilities Pr ba All cla | and I sed i ims i | Damaı n cont ncl e di | ges. ract 1g th | AA's I or toi | iabilit rt, shj Zr ne | ty and all be | d clier Himite | nts ex ed to nd an | clusi the a y oth | ve ren Imour Ier car | nedy It pair Ise w | for any d by the hatsoev | er |
| lelinquished By: | () ⊲ 0ate: ([Ti | ime: | | | Red | eived | į Ву: | / | <u>_</u> 2 | 2 | 122 | a |) q | :05 | shall be deem completion of | ed wa fthe a | ppace | unleş İble ş | | e in In | whitin notev | ent s | d rece shall A | eived AA be | by AA liable | A with 2 for 1 | hin 30 Incide | days ntal o | after af | r |
|)elivered by: (Circle JPS - Fed Ex - Bus - U | One) SPS - Lone Star Overnight |) | Г | 5 | amp | ie Co Inta | ondit ct | ion | ł | m | Check (Init | ed By: tials) | consequential loss of profits related to the | incuri perfo | ages; red by prman | clier ce of | ung w nt, it's Servic | subs | idiari idiari ereun | icatio es, af ider t ar oth | in, Du Ifiliate by AA perwii | isines es or ! rega se. | s inte succe ardies | ssors s of v | arisin wheth | ioss o ig out er sut | of or th claim | ís | | |

10526 Gulfdale San Antonio, TX – 78216; Ph. (210) 340-8121; Fax: (210) 340-8123

Document Control No.: SOP-SAMP-REC Ver.13.1

| | Sample Log-In Checklist | | ······································ |
|----------------|---|--------------------------|--|
| DATE | : <u>12/21/2022</u> TIME: <u>09:10</u> | INITIALS: | YK |
| CLIEN 1. | T: Adv Analysis PROJECT: W.O# 22/2091 Is a Chain of Custody present? | to22120 | 14 |
| 2. | Is a Chain of Custody properly completed? |) No | |
| 3. | Are custody seals present?YesIf yes, are they intact?YesAre they on:Sample or onShipping Co | No No | |
| 4. | Are all samples tagged or labeled? If yes, do the labels match the Chain of Custody? | No No | |
| 5. | Do all shipping documents agree (i.e., number of coolers arrived vs. on t If not, describe below. | ickets)) No | N/A |
| 6. | Are samples preserved properly? If not, describe below. | No | |
| 7. 8. | Are all samples within holding times on arrival? | No | <u> </u> |
| 9. | Condition of samples: Intact or | | |
| 10. | Temperature of samples: Temp. (0 C): <u>3</u> Corrected Temp. (0 C): <u>3</u> | 3 Thermometer 1 | D: D1 or L2 |
| 11. | pH strip lot#: <u>B0756</u> Samples out of pH range: | | |
| 12. | Delivery agent: Client UPS Fed-ExLone Star Alama | o P/U Othe | r |
| 13. | Sample disposal: Return to client Alamo Analytical | Disposal | · · · · · · · · · · · · · · · · · · · |
| 14. | Location (WI) (Walk-In Cooler)/ F2 (Freezer 2 for TPH 1005 Soils))/ R1(Refriger | ator 1 for TPH & V | OC water) |
| <u>Comr</u> | nents: (Reference checklist item number from above, or for comm | ents on resoluti | on below): |
| | | 1999 <u></u> | |
| | Record of contacting client for resolution of sample discrepancies (fi <u>Contacted How?</u> | <u>rst and retry con</u> | <u>tact)</u> |
| Name: Name: | Phone Fax Date: / / Ti Phone Fax Date: / / Ti | ime: | |

REPORT NARRATIVE



Main: 10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121 . Fax. (210) 340-8123

| Mario Rodriguez | |
|-------------------------|-------------------------------------|
| Advanced Analysis Inc. | |
| P.O Box 16652 | |
| Lubbock , Texas - 79490 | |
| TEL: (806) 796-2805 | Email: <u>rodriguezaa@yahoo.com</u> |
| FAX: (806) 796-2825 | |
| | |

RE: City of Tahoka Dear Mario Rodriguez:

Order No.: 2301099

2/6/2023

Enclosed please find the analytical report for the sample/s received on 1/25/2023.

SAMPLE RECEIPT: Samples were received intact and with chain of custody documentation. HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the Sample Acceptance Policy unless otherwise noted in the report.

COMMENTS: No significant observations were made.

If you have any questions regarding these test results call (210) 340-8121.

Thank you,

Reddy Gosala, Ph.D Laboratory Director

Report of Laboratory Analysis

Note: The analysis contained in this report applies only to the samples tested and for the exclusive use of the addressed client. Reproduction of this report wholly or in part requires written permission of the client.

| ALAMO ANALYTICAL | . LABORATORIES, L | TD. |
|------------------|-------------------|-----|
|------------------|-------------------|-----|



| U | | A | nalytical Resu | ults Report | | | |
|---|---|---------|---------------------|--|----------------------|---------------------------|----------------|
| Client: Lab Order: Project ID: Project Name: | Advanced Analysi 2301099 City of Tahoka | is Inc. | | Collection Date: Matrix: Lab ID: | 1/23/ WAT 2301 | 2023 10 TER 099-01A | :00:00 AM |
| Client Sample I | D: CENTER LAGO | ON | | | | | |
| Analyses | | Result | Report Limit | Units | Dil | ution | Date Analyzed |
| TOTAL SUSPEN | IDED SOLIDS | | | SM2540D | | Anal | yst: YK |
| Suspended S Filterable) | olids (Residue, Non- | 86 | 5 | mg/L | 1 | 30- | Jan-23 |
| PH | | | | SM4500-H+B | | Anal | yst: YK |
| pH at 25 o C | | 8.3 | 0.1 | pH units | 1 | 25- | Jan-23 |
| BOD, 5 DAY, 20 | °C | | | SM5210B | | Anal | yst: AM |
| Biochemical (| Oxygen Demand | < 2 | 2 | mg/L | 1 | 30- | Jan-23 |

Approved by: Reddy Gosala, Laboratory Direc

Report of Laboratory Analysis

| CLIENT | Г: | Advanced Analysis Inc | 2. | | | | | | | OC | SUMN | IAR | Y REP | ORT |
|------------|-------------|-------------------------|-----------|--------------|-----------|--------|-----------|-----|----------------|-----------------------|---------|--------|--------------|--------|
| Work O | rder: | 2301099 | | Proje | ect: | City | of Tahoka | | | | 0011211 | | | 0111 |
| | | | | | %REC | | | %RE | EC | Low - High | | | F | RPD |
| Analyte | | | BLK S | PK value LC | S | | | MS | | Limit | Parent | DUP | % | Limit |
| Batch ID: | BOD5-1/ | /25/2023 | TestNar | ne: BOD, 5 I | Day, 20°C | | | | | | | | | |
| Run ID: | INCUB_ | 230125A | Test Code | e: SM5210B | | Units: | mg/L | | Analysis Date: | 1/30/2023 4:00:00 PM | Prep Da | ate: 1 | /25/2023 9: | 35:00 |
| Biochemica | al Oxygen I | Demand | <2 | 198 88.9 | % | | | | | 69 - 227 | 0.0 | 0.0 | 0.000 | 20.0 |
| Batch ID: | PH_WW | /-1/25/2023 | TestNan | ne: pH | | | | | | | | | | |
| Run ID: | PH_W_2 | 230125A | Test Cod | e: SM4500-H+ | -B | Units: | pH units | | Analysis Date: | 1/25/2023 10:00:00 AM | Prep Da | ate: 1 | /25/2023 10 | :00:00 |
| pH at 25 o | с | | | 7 99.79 | % | | | | | 95 - 105 | 8.3 | 8.3 | 0.000 | 5.0 |
| Batch ID: | TSS_W- | 1/30/2023 | TestNan | ne: TOTAL | SUSPEND | ED SC | DLIDS | | | | | | | |
| Run ID: | TSS_23 | 0130A | Test Code | e: SM2540D | | Units: | mg/L | | Analysis Date: | 1/30/2023 4:20:00 PM | Prep Da | ate: 1 | /30/2023 9: | 10:00 |
| Suspended | l Solids (R | esidue, Non-Filterable) | <5 | | | | | | | | 86.0 | 84.0 | 2.000 | 20.0 |

Approved by: Note: The analysis contained in this report applies only to the samples tested and for the exclusive use of the addressed client. Reproduction of this report wholly or in part requires written permission of the client.

| 3407 Clovis Ro 794 | ADVANCED ANALYSI d. Lubbock, Texas 79415 P.O. Bo 490 Tel: (806) 796-2805 Fax : (80 | S, II 0x 166 06) 79 | NC. 552 Lubbo 96-2825 | ock, 1 | Texa | s | | | | | | | | | | | (| CH/ | 41N | I O I | FCL | JST | 0[| γc | Pa | age | | (| _ (| of | | (|
|---|--|--|-----------------------------|-------------|-----------|-----------|-------------|---------------|--------------|--------------|-----------------------|----------------|---------------|-------------------------------------|--------------------------------------|---|--------------------------------------|----------------------------------|-------------------------------------|---------------------------------------|--------------------------------------|-----------------------------------|-------------------------------------|--------------------------------------|------------------------------------|---------------------------|-----------------|---------------------------|------------------------------|--|--|-------------|
| Company Name: | City of Tahokh | | | 1-5 | | | | | | | | Seine Starking | See. | | | | | | | na fangarat | | | | | | Corne are | | | | Chicago and an an an an an an an an an an an an an | (painty called | |
| Project Manager: C | TY OF TAHOKA / K | ay | monu | <u> _</u> V | kg | \sim | - | | BI | | ro | | | PC |) #: | | | TCLF | <u>.</u> | | | | | | | | Τ | Т | | | | Π |
| Address: 1807 MAI | N BOX 300 | | | | | | | | | mp | any: | | | | | | T | ΟΤΑ | AL: | | | | | | | | | | | | | |
| CITY: IAHOKA | <u></u> | e: I | <u>X 21</u> | ip: / | /93 | 73 | | | At | th: | | ARA | | | | | | | | | | | | | | | | | | | | |
| Phone #: 800-30 1-4 | | ₩: | | | | | | | AC | are | ess: c | AIVI | | | | | Ē | | 6 | | اه | . | | | | | | 13 | 3 | | | |
| C-Mail: TATUNA | 1910(0)FORA.COM | | | | | | | | CI Ci | cy: | 0 | | | 7 | in- | | ĸ | 1 | 8 | | E S | | | | | | | a | | | | |
| Project Mame | | | | | | | | | Dh | | • • #• | | | č | ц у. | | -IS | l | 12 | | | ∠ | 1 | | | | | 15 | | | | |
| Project Name. Project Location: | | | | | | | | | £ a | x # | • | | | | | | 5 | 0 | 1 | <u>'</u> | 3 | 2 | | | | | | 2 | ž | | | |
| i loject Location. | | μ | | T | | | M | ATI | <u>six</u> | | Isan | IPLE | C⊦ | IECKS | SAN | DUNC | -[S] | Ľ. | ĮŻ | | 5 | S | | | | | | | 21 | | | |
| | | DSIT | | | | ¥ | | e and an ince | [| T | | T | T | | 0710 | I ING | \bowtie | 0 | õ | larc | Ba | | | | | | | 1 | ŝ | | | |
| A A # (Lab Use) | Sample Source Id | AB / COMP(| ltle size | ONTAINERS | ITLE TYPE | DUNDWATE | STEWATER | | DGE | ter: | SERVATIVE | | | UAL TEMP M SAMPLE [°] C | | | aog / ac | 1 CI / SI | I / NO3 / N | alinity / H | tals: As Ag | / Ca / Mg | atiles | nivolatiles | | S, | X/INTBE | i comore | | | | |
| 2301094-01 | | GR | BO | + # | BO | GR | WA | SO | SLU | Ē | PRE | | F | ACT | DATE | TIME | ğ | P | Ě | ¥, | Be | Ra | ŝ | Sen | È | | | 5 5 | | | | |
| AB30 127-1 | CENTER LAGOON | 9 | 12 | Π | ? | | ~ | | in and the | Π | $\boldsymbol{\nabla}$ | | | 8 | 1/23/23 | 10.00 am | ∇ | ſ | 1 | | \neg | \neg | T | T | | + | Ē | 56 | 17 | a | Ы | d, |
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| | | | | | | \square | | | ┢── | ┢┥ | l | | \rightarrow | | | | - | | | Щ | | ┥ | - | | | | _ | _ | ┉ | Ы | \blacksquare | H |
| | | \vdash | | \square | | | | \vdash | | | | ╋ | ┿ | | | | <u> </u> | | | Щ | | ┛ | 4 | 4 | _ | ┛ | _ | ╇ | ╇ | Ц | Щ | Щ |
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| | a na sa ang manana ang mang mang mang mang man | | | L | | | | | | | ļ | | _ | | | | | | | | | | I | Т | | | | Τ | Τ | \square | Π | Π |
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| | | | l | | | | | | | | | | | | | | | | | | | 1 | T | Ť | T | T | Т | 1 | | П | П | П |
| | | | | | | | | | | | | | | | | 1 | | | | | | | -1 | 1 | 1 | ╶┤ | 1 | 1 | 1 | H | Н | |
| | | Π | | | | | | | | Π | | T | T | | | 1 | ┢ | | | | ┉╢ | ╺╢ | t | ╉ | ╉ | ╺─╢╴ | ╈ | ╈ | \mathbf{T} | H | Н | \neg |
| Container type: P-Polyethy | ylene G-Glasz V-VOA Z-Ziploc | k Ba | 9 | | Zannadi | | | | 1 | *Ali | sample | ə pH's | s, ar | nd Temp | peratures are ta | aken at the time | thev | are | rece | ived i | n the | Jabo | rator | rv bv | Lab | Staff | | <u> </u> | _U | L] | الــــــــــــــــــــــــــــــــــــ | L_ |
| Received on Ice | Yes | 7 | No | | | / | | | | Pre | servati | ve Ty | pe: l | HNO₃ = | (N) H ₂ SO ₄ = | (S) NaOH = (C | HC | :L = (| (H) | ICE | = (X) | Na | -5.0 | $D_2 = i$ | (ST) | Ir | rese | rved | HDON | arrive | ai Í | Ŕ |
| pH paper of #: Q/GHSC154 | 44 Thermometer ID: AA-T-I |)3 C | CF = 1.0 | | 7 | | | | | Pre | servati | ve Lo | t Nu | imber(s) |): | | | | | ~ | ~ | | -2- | | • / | | | | | | | - |
| Relinguished by: | $\frac{1}{\sqrt{23/23}}$ Date: T | ime: / ^ | 2:10 | | Rec | eiver | d By | : (ر) | ð | R | ed | 210 | g. | Vez | | Notes: | 5A. | | Wite stage | 28430873 | | ulsäminen | si T | hippir rackir | ning In ng Nun | iforma nber: | ticn | ag motion: | <u> Sejabatan</u> a | dictamatica, | NCC NO. | |
| Relinquished By: Maria Rod | Viguez 1/23/2 | ime: 3 | 16:0 | FR | Reco | eive | d By | | | | ~ | (| J | | f | PLEASE NOTE | whet | her b | s and based | l Dam in co | ages. ntract | AA's t or to | i liabi ort, s | lity a hall t | ind cl De lim | ients nited | exclu to the | sive r amo | emedy unt pa | / for a hid by | iny the | 2.00 Your 1 |
| Relinquished By: | 1/26/2023 | ime: <u>7 </u> | 55 | | Reco | eive | d By | | h | (d | Jb. | | 4 | نه ا ^ر (م | 14.1c | shall be deen completion of | ned w | aiveo appli | i unle cable | servi | ade in ce. In | writi no e | ing al | nd re shal | ceive I AA b | d by be lial | AA wi ble fo | ithin r inclu | .ause (30 day dental | s afte or | r | |
| Delivered by: (Circle UPS - Fed Ex - Bus - U | One) SPS - Lone Star Overnight | - Ot | hek-Sel | 5 | P | | Samı Yes | ole (Int | ionic act | dition No | ſ | | m | Check (Ini | ked By: tials) | consequentia loss of profits related to the based upon a | ii dan 5 încu 5 perf 10y of | nages rred l orma the a | , incl by cli ince i above | uding ent, il of ser e state | withc 's sub /ices l ed rea | out iir sidia nereu sons | nitati ries, i Inder or ot | ion, l affilia i by A therv | busin ates c AA, re vise. | ess in or suc gardl | cesso ess o | ption Irs ari f whe | s, loss sing ou ther s | of use at of c ach cl | e, or or aim is | |

Chain of Custody Revision 9

10526 Gulfdale San Antonio, TX – 78216; Ph. (210) 340-8121; Fax: (210) 340-8123

Document Control No.: SOP-SAMP-REC Ver.13.1

| Sample Log-In Checklist | | | | | | | | | | | | | |
|-------------------------|--|-------------------|---------------------------------------|--|--|--|--|--|--|--|--|--|--|
| DATE | <u> 125 2023</u> TIME: <u>9:05</u> | INITIALS: | <u> </u> | | | | | | | | | | |
| CLIEN 1. | T: Advanced PROJECT: W.O# 230 1099 Is a Chain of Custody present? | No | | | | | | | | | | | |
| 2. | Is a Chain of Custody properly completed? | No | | | | | | | | | | | |
| 3. | Are custody seals present?YesIf yes, are they intact?YesAre they on:Sample or onShipping Con | No No | | | | | | | | | | | |
| 4. | Are all samples tagged or labeled? If yes, do the labels match the Chain of Custody? | No No | | | | | | | | | | | |
| 5. | Do all shipping documents agree (i.e., number of coolers arrived vs. on tic If not, describe below. | ckets) No | N/A | | | | | | | | | | |
| 6. | Are samples preserved properly? If not, describe below. | No | | | | | | | | | | | |
| 7. 8. | Are all samples within holding times on arrival? If not, describe below. Condition of shipping container: Intact $$ or | No | | | | | | | | | | | |
| 9. | Condition of samples: Intact or | | · · · · · · · · · · · · · · · · · · · | | | | | | | | | | |
| 10. | Temperature of samples: Temp. (^{0}C) : $\underline{A'}$ Corrected Temp. (^{0}C) : $\underline{A'}$ | Thermometer | ID: <u>DT1 or 1.2</u> | | | | | | | | | | |
| 11. | pH strip lot#: Samples out of pH range: | | | | | | | | | | | | |
| 12. | Delivery agent: Client <u>UPS</u> Fed-Ex Lone Star Alamo | P/U Othe | r | | | | | | | | | | |
| 13. | Sample disposal: Return to client Alamo Analytical D | Disposal | | | | | | | | | | | |
| 14. | Location: WI (Walk-In Cooler)/ F2 (Freezer 2 for TPH 1005 Soils))/ R1(Refrigera | tor 1 for TPH & V | OC water) | | | | | | | | | | |
| Com | nents: (Reference checklis) item number from above, or for comme WAL-OV | ents on resoluti | on below): | | | | | | | | | | |
| | | | · · · · · · · · · · · · · · · · · · · | | | | | | | | | | |
| | <u>Record of contacting client for resolution of sample discrepancies (fir</u> <u>Contacted How?</u> | st and retry con | <u>itact)</u> | | | | | | | | | | |
| Name: Name: | Phone Fax Date: / / Tin Phone Fax Date: / / Tin | me: me: | | | | | | | | | | | |



Main: 10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121 . Fax. (210) 340-8123

REPORT NARRATIVE

| Mario Rodriguez | |
|-------------------------|-------------------------------------|
| Advanced Analysis Inc. | |
| P.O Box 16652 | |
| Lubbock , Texas - 79490 | |
| TEL: (806) 796-2805 | Email: <u>rodriguezaa@yahoo.com</u> |
| FAX: (806) 796-2825 | |
| | |

RE: City of Tahoka Dear Mario Rodriguez:

Order No.: 2303005

3/13/2023

Enclosed please find the analytical report for the sample/s received on 3/1/2023.

SAMPLE RECEIPT: Samples were received intact and with chain of custody documentation. HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the Sample Acceptance Policy unless otherwise noted in the report.

COMMENTS: No significant observations were made.

If you have any questions regarding these test results call (210) 340-8121.

Thank you,

Reddy Gosala, Ph.D Laboratory Director

Report of Laboratory Analysis

Note: The analysis contained in this report applies only to the samples tested and for the exclusive use of the addressed client. Reproduction of this report wholly or in part requires written permission of the client.

| ALAMO ANALYTICAL | LABORATORIES, LTD. |
|------------------|--------------------|
|------------------|--------------------|



| | | A | analytical Resu | ults Report | | | |
|--------------------------------------|------------------------------|--------|---------------------|--|------------------------|--------------------------|----------------|
| Client: Lab Order: Project ID: | Advanced Analysis 2303005 | s Inc. | | Collection Date: Matrix: Lab ID: | 2/27/2 WAT 23030 | 2023 10 ER 005-01A | :00:00 AM |
| Project Name: | City of Tahoka | | | | | | |
| <u>Client Sample I</u> | D: Center Lagoon | | | | | | |
| Analyses | | Result | Report Limit | Units | Dilu | ution | Date Analyzed |
| TOTAL SUSPEN | IDED SOLIDS | | | SM2540D | | Anal | yst: YK |
| Suspended S Filterable) | olids (Residue, Non- | 64 | 5 | mg/L | 1 | 06- | Mar-23 |
| PH | | | | SM4500-H+B | | Anal | yst: YK |
| pH at 25 o C | | 7.5 | 0.1 | pH units | 1 | 01- | Mar-23 |
| BOD, 5 DAY, 20 | °C | | | SM5210B | | Anal | yst: AM |
| Biochemical (| Oxygen Demand | 31.2 | 2 | mg/L | 1 | 06- | Mar-23 |

Approved by: Reddy Gosala, Laboratory Direc

Report of Laboratory Analysis

| CLIEN Work O | T: Drder: | Advanced Analysis In 2303005 | с. | Project: | City | y of Tahoka | | | QC | SUMN | IARY | ? REP | ORT |
|-----------------|--------------|---------------------------------|------------|------------------|----------|-------------|-----|----------------|---------------------|---------|------------------|-------------|--------|
| | | | | %REC | | | %RI | EC | Low - High | | | F | ۲PD |
| Analyte | | | BLK SP | K value LCS | | | MS | | Limit | Parent | DUP | % | Limi |
| Batch ID: | BOD5-3/1 | /2023 | TestName | e: BOD, 5 Day, 2 | 20°C | | | | | | | | |
| Run ID: | INCUB_2 | 30301A | Test Code: | SM5210B | Units: | mg/L | | Analysis Date: | 3/6/2023 4:00:00 PM | Prep Da | ate: 3/2 | 1/2023 9:40 |):00 A |
| Biochemica | al Oxygen D | emand | <2 1 | 98 90.9% | | | | | 69 - 227 | 31.2 | 30.3 | 3.000 | 20.0 |
| Batch ID: | PH_WW- | 3/1/2023 | TestName | e: pH | | | | | | | | | |
| Run ID: | PH_W_23 | 30301B | Test Code: | SM4500-H+B | Units: | pH units | | Analysis Date: | 3/1/2023 9:55:00 AM | Prep Da | a te: 3/* | 1/2023 9:55 | 5:00 A |
| pH at 25 o | С | | | 7 99.4% | | | | | 95 - 105 | 7.5 | 7.6 | 1.000 | 5.0 |
| Batch ID: | TSS_W-3 | /6/2023 | TestName | e: TOTAL SUSP | ENDED SC | DLIDS | | | | | | | |
| Run ID: | TSS_2303 | 306A | Test Code: | SM2540D | Units: | mg/L | | Analysis Date: | 3/6/2023 4:30:00 PM | Prep Da | ate: 3/6 | 3/2023 8:45 | 5:00 A |
| Suspended | d Solids (Re | sidue, Non-Filterable) | <5 | | | | | | | 23.4 | 22.6 | 3.000 | 20.0 |

peredity

Approved by: Note: The analysis contained in this report applies only to the samples tested and for the exclusive use of the addressed client. Reproduction of this report wholly or in part requires written permission of the client.

| 3407 Clovis Ro 79 | ADVANCED ANALYS 1. Lubbock, Texas 79415 P.O. Bo 490 Tel: (806) 796-2805 Fax : (8 | I <mark>S, IN</mark> 5x 1665 06) 796 | C. 2 Lubbo -2825 | ock, T | ſexas | S | | | P | મ | \$6 | | | | C | CHA | ١N | OF | CU | STC | DY | 'P | age | <u>}</u> | / | / | of | | |
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| Company Name: Cl | TY OF TAHOKA | | | | | | | _ | | | | | | Tria anna agus anna anna 1 | | | (analytical) | - | - | napicos | - | - | | - | | | - | | |
| Project Manager: R | AYMOND VEGA | | | | | | | B | ILL | <u>ro</u> | | |)#: | | | CLP | <u>':</u> | | _ | | | | | | | | | | |
| Address: 1807 MAI | N BOX 300 | | | | | | | | om | any: | | | | | | | L: | | - | _ | | | | | | | | | |
| City: TAHOKA | Stat | <u>:e: TX</u> | ZI | p: 7 | 937 | 73 | | | <u>ttn:</u> | | | | | | | | | | | | | | | | | | | | |
| Phone #: 806-561-4 | 211 Fax | <u>#:</u> | | <u> </u> | | | | | ddr | ess: S/ | AME | | | | Ŧ | | | | | | l | | i | | | 2.2 | | | |
| E - mail: Tahoka19 | 15@poka.com | | | | | | | | ity: | | · · | | 10 | | K | | 8 | | | | | | | | | 38 | | | |
| Project #: | | | | | | | | 15 | tate | : | | | .ip: | ····· | SS | | 10 | | el - | 2 | | | | | | 322 | | | |
| Project Name: | | · | | | | | | <u> </u> | hon | e #: | | | | · | X | | <u>}</u> | <u>د ا</u> | | | | | | | | Σ | | | |
| Project Location: | | | | <u> </u> | | | | F | ax # , | | | 115 0100 | | ALLALC | [8] | ŭ | ş. | \geq | 513 | 5 | | | 1 | | | s) | 1 | | |
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| A A # (Lab Use) 2 3 0 3 00 | Sample Source Id Sーの) | GRAB / COMPO | BOTTLE SIZE | # CONTAINERS | BOTTLE TYPE | GROUNDWATER | VVAS JEWALEK | SUIL | OTHER: | PRESERVATIVE TYPE: | Hd | ACTUAL TEMP FROM SAMPLE °C | DATE | TIME | свор (вор | 402 / CI / SC | TKN / NO ₃ / N | Alkalinity / H | Nia / Ca / Ma | Volatiles | Semivolatiles | ТРН | PCB's | BTEX/MTBE | FOG | E.coli enumera | | | |
| AB30 (51-1 | CENTER LAGOON | G | ιL | 17 | P | 1. | ィ | I | Ī | $\square X$ | l | 110 | 2/27/23 | 10:00 am | N | Π | | | Т | Τ | Γ | | П | П | | Τ | Т | Π | Π |
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| | ······································ | \mathbf{t} | | | | + | ╈ | ╞ | | | 1 | <u> </u> | 1 | 1 | H | H | Ħ | Ť | ┉ | ┢ | ł | | H | Ħ | Ť | ╉ | 1- | H | |
| Container type: P-Polvethy | viene G-Glass V-VOA Z-Ziplor | ck Bag | | | | | | <u>.</u> | *A1 | sample | oH's a | and Tem | Deratures are ta | aken at the time | thev | are | receiv | ed in | the l | abora | tory F | ov La | b Sta | | | ![| <u></u> | <u>#[</u> | |
| Received on Ice | V Yes Γ | | No | | 7 | | | | Pre | servative | Type | : HNO- = | (N) $H_{2}SO_{2} =$ | (S) NaOH = (C |) HC | L ≈ (| (H) I(| CE = | (X) | NaS | S-0- = | = (ST |) | Pres | erver | d uno | n arriv | val Í | |
| nH naper Lot # O/GHSC154 | L L | ' 03E | = 1 N | \checkmark | | | | | Pro | servative | a l ot N | lumber/e | · · · · · · · · · · · · · · · · · · · | | , | - (| | | | | 2-3 | | <u></u> | dimensional dimensional | | | | | - |
| Ralinguchar Rig | nate: 1 | ime. | | | Recž | - Ned | Bv: | | | | | 1 | /- | Motoci | | | | | | | | | | | | e companya | 000000000000000 | | _ |
| | 2/27/22 | 11:4 | 07a | | | <u> </u> | $\overline{\mathbf{A}}$ | ·~~ | 0 | K | σð | n'r | \sim | notes: | | | | | | and share | Ship Trac | pining king N | Inform umber | iation | | | | | 1 |
| Relinquished By: Rod | Lrigviz 2/27/2 | ime: | 6:a | | Rece | eived | By: | -(/ | 4 | | | <u> </u> | | PLEASE NOTE claim arasing client for ana | : Liab wheti | bilitie her b All cl | s and based i lajans j | Dama in con ncjuđ | ges. tract | نا AA's li or tort ose fð | ability t, skal | / and I be li | client imited | s excl 1/10 th any | usive e an other | reme ount caus | dy for | they | , ¢ |
| Relinquished By: | Date: 1 | ime: | | | Reco | ived | By: | / | \mathbb{N} | $\sqrt{2}$ | | Ł | 3/1/2 | shall-ba deen concequentia | ned wi of the a al dam | aiveð applio iages | cable s | servic ding v | le in v e. In v vithou | writing no eve ut limi | nt sh tation | all AA | be la iness | / AA v able fi interr | within or inc | ident | Bys aft al or Iss of u | ifr use, or | |
| Delivered by: (Circle UPS - Fed Ex - Bus - U | One) SPS - Lone Star Overnight | : - Oth | er-seh | 3 | [v | Sa | mple li (es [| e Cor ntaci | ndition t No | 1 | 'n | Check | ked B y : tials) / | loss of profits related to the based upon a | s incur e perfo any of | red b orma the a | by clies ince of above | nt, it's f servi stated | subs ces h reas | idiarie ereuno ons or | es, aff der by r othe | iliates / AA, i rwise | or su regarc | diess (| ors a of wh | rising ther | out of such a | or claim is | s |

10526 Gulfdale

San Antonio, TX – 78216; Ph. (210) 340-8121; Fax: (210) 340-8123 Document Control No.: SOP-SAMP-REC Ver.13.1

| | Sample Log-In Checklist | | A |
|-------------|---|--------------------|-----------------|
| DATE | : <u>311123</u> TIME: <u>9:26</u> | INITIALS:_ | |
| CLIE 1. | T: Advanced Analy PROJECT: W.O# 2303 Is a Chain of Custody present? | <u>005</u> No | N |
| 2. | Is a Chain of Custody properly completed? | No | |
| 3. | Are custody seals present?YesIf yes, are they intact?YesAre they on:Sample or onShipping Con | Nø No tainer | |
| 4. | Are all samples tagged or labeled? If yes, do the labels match the Chain of Custody? | No No | |
| 5. | Do all shipping documents agree (i.e., number of coolers arrived vs. on the <i>If not</i> , describe below. | ckets) No | N/A |
| 6. | Are samples preserved properly? If not, describe below. (Yes | No | |
| 7. | Are all samples within holding times on arrival? | No | |
| 8. | Condition of shipping container: Intact or | | |
| 9. | Condition of samples: Intact or | hi yahhi hunu Mu | |
| 10. | Temperature of samples: Temp. (0 C): <u>2</u> Corrected Temp. (0 C): <u>2</u> . \leq | Thermometer | ID : (DT1 dr L2 |
| 11. | pH strip lot#: Samples out of pH range: | ····· | |
| 12. | Delivery agent: Client UPS Fed-Ex Lone Star Alamo | P/U Othe | ſ |
| 13. | Sample disposal: Return to client Alamo Analytical D | isposal | |
| 14. | Location: WI (Walk-In Cooler)/ F2 (Freezer 2 for TPH 1005 Soils))/ R1(Refrigerat | or 1 for TPH & V | OC water) |
| Comr | nents: (Reference checklist item number from above, or for commen | nts on resoluti | on below): |
| | | lè | <i>q</i> |
| | Record of contacting client for resolution of sample discrepancies (firs Contacted How? | t and retry con | tact) |
| Name: Name: | Phone Fax Date: / / Tim Phone Fax Date: / / Tim | ne: | |

REPORT NARRATIVE



Main: 10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121 . Fax. (210) 340-8123

| Mario Rodriguez | |
|-------------------------|-------------------------------------|
| Advanced Analysis Inc. | |
| P.O Box 16652 | |
| Lubbock , Texas - 79490 | |
| TEL: (806) 796-2805 | Email: <u>rodriguezaa@yahoo.com</u> |
| FAX: (806) 796-2825 | |
| | |

RE: City of Tahoka Dear Mario Rodriguez:

Order No.: 2303138

4/3/2023

Enclosed please find the analytical report for the sample/s received on 3/22/2023.

SAMPLE RECEIPT: Samples were received intact and with chain of custody documentation. HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the Sample Acceptance Policy unless otherwise noted in the report.

COMMENTS: No significant observations were made.

If you have any questions regarding these test results call (210) 340-8121.

Thank you,

Reddy Gosala, Ph.D Laboratory Director

Report of Laboratory Analysis

Note: The analysis contained in this report applies only to the samples tested and for the exclusive use of the addressed client. Reproduction of this report wholly or in part requires written permission of the client.

| ALAMO ANALYTIC | AL LABORA | FORIES, LTD. |
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| Analytical Results Report | | | | | | | | | | | | | |
|--------------------------------------|------------------------------|--------|---------------------|--|----------------------------|------------------------------|--|--|--|--|--|--|--|
| Client: Lab Order: Project ID: | Advanced Analysis 2303138 | s Inc. | | Collection Date: Matrix: Lab ID: | 3/20/20 WATEI 230313 | 23 10:00:00 AM R 8-01A | | | | | | | |
| Project Name: | City of Tahoka | | | | | | | | | | | | |
| Client Sample I | D: Center Lagoon | | | | | | | | | | | | |
| Analyses | | Result | Report Limit | Units | Diluti | ion Date Analyzed | | | | | | | |
| TOTAL SUSPEN | IDED SOLIDS | | | SM2540D | | Analyst: YK | | | | | | | |
| Suspended S Filterable) | olids (Residue, Non- | 40 | 5 | mg/L | 1 | 27-Mar-23 | | | | | | | |
| РН | | | | SM4500-H+B | | Analyst: YK | | | | | | | |
| pH at 25 o C | | 7.5 | 0.1 | pH units | 1 | 22-Mar-23 | | | | | | | |
| BOD, 5 DAY, 20 | °C | | | SM5210B | | Analyst: AM | | | | | | | |
| Biochemical (| Dxygen Demand | 31.6 | 2 | mg/L | 1 | 27-Mar-23 | | | | | | | |

Approved by: Reddy Gosala, Laboratory Direc

Report of Laboratory Analysis

| CLIEN Work O | T:)rder: | Advanced Analysis In 2303138 | IC. | | Projec | t: | City | of Tahoka | | | QC | SUMN | IARY | Y REPO | ORT |
|-----------------|--------------|------------------------------|---------|----------|----------|---------|--------|-----------|-----|----------------|----------------------|---------|---------|-------------|------|
| | | | | | %F | REC | | | %RE | EC | Low - High | 1 | | R | ₹PD |
| Analyte | | | BLK | SPK valu | E LCS | LCSD | RPD % | RPD Limit | MS | | Limit | Parent | DUP | % | Limi |
| Batch ID: | BOD5-3 | /22/2023 | TestN | ame: BO |)D, 5 Da | y, 20°C | | | | | | | | | |
| Run ID: | INCUB_ | 230322A | Test Co | ode: SM5 | 210B | | Units: | mg/L | | Analysis Date: | 3/27/2023 3:20:00 PM | Prep Da | ate: 3/ | 22/2023 9:3 | 0:00 |
| Biochemica | al Oxygen | Demand | <2 | 198 | 87.9% | | | | | | 69 - 227 | 31.6 | 30.2 | 5.000 | 20.0 |
| Batch ID: | PH_WW | /-3/22/2023 | TestN | ame: pH | [| | | | | | | | | | |
| Run ID: | PH_W_2 | 230322A | Test Co | ode: SM4 | 500-H+B | | Units: | pH units | | Analysis Date: | 3/22/2023 9:50:00 AM | Prep Da | ate: 3/ | 22/2023 9:5 | 0:00 |
| pH at 25 o | С | | | 7 | 99.4% | | | | | | 95 - 105 | 7.5 | 7.5 | 0.000 | 5.0 |
| Batch ID: | TSS_W- | -3/27/2023 | TestN | ame: TO | DTAL SU | JSPENI | DED SO | DLIDS | | | | | | | |
| Run ID: | TSS_23 | 0327A | Test Co | ode: SM2 | 540D | | Units: | mg/L | | Analysis Date: | 3/27/2023 3:45:00 PM | Prep Da | ate: 3/ | 27/2023 8:5 | 5:00 |
| Suspended | d Solids (R | esidue, Non-Filterable) | <5 | | | | | | | | | 40.0 | 38.0 | 5.000 | 20.0 |

| 3407 Clovis R 75 | ADVANCED ANALYSI d. Lubbock, Texas 79415 P.O. Bo 9490 Tel: (806) 796-2805 Fax : (80 1TX OF TAHOKA | S, INC. Dx 16652 L 06) 796-21 | ubbo 825 | ock, T | exa | S | | | | PH | 2 | 3.5 | | | c | :HA | ١N | OF | cu | IST | OD' | Y | Pag | ;e | | (| of | | / |
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| Project Manager | | | | | | | | | 16 6 | 70 | | Dr | 34. | | $\left \right _{\tau}$ | | | T | T | | 1 | 1 | T | | 1 | | T | | |
| Address 1807 MA | N BOX 300 | | | | | | ····· | | 0.000 | nanv | | Ire | J m. | n | TC | DTA | $\frac{1}{1}$ | + | + | -+- | + | - | | | | | 1 | | |
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| Phone #: 806-561-4 | 4211 Fax | #• | C= 1 | 9001 | 35 | 15 | | | ಗಗಳ | · ·ace·SI | ME | | | | | | | | | | | | | | | 5 | | | |
| E - mail : TAHOKA | 1915@POKA.COM | | | | | | | | itw: | 000101 | | | | ······································ | 되 | | 8 | | S | | | | | | | 2 | | | |
| Project #: | | | · · · · · · · | | · | | | S | ate | 2: | | 7 | 'io: | | S X | | Ŭ, | | 운 | | | | | | | 236 | | | |
| Project Name: | ····· | | | | | | | P | hor | ne #: | | | | | S∣ | | Ę | | 2 | ź | | | | | | 92 | | | |
| Project Location: | | | | | | | | Fa | ax ‡ | ŧ: | | | | ····· | 3 | <u>и</u> | IH ₃ / | ш. | 3 | ¥ | | | | | | SS SS | | | |
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| A A # (Lab Use) | Sample Source Id | / COMP | e size | rainer: | е туре | IDWAT | WATER | | | VATIVE | | TEMP | | | Ĩ | с / | NO ₃ / | nity / | s: As A | Ca / P | les Alatia | Clarife | | MTBE | | enume | | | |
| | 2303 (380) | GRAB , | BOTTL | # CON | BOTTL | GROUN | WASTE | SLUDG | OTHER | PRESEF TYPE: | Hd | ACTUAL FROM S | DATE | TIME | CBOD | -Sq1 | TKN / | Alkali | Metal | Na / | Volati | TPH | PCB's | BTEX/ | FOG | E.coli e | | | |
| AB30/48-1 | CENTER LAGOON | GI | L | Π | 9 | Π | $\overline{\mathbf{V}}$ | | Ι | $1\mathbf{X}$ | | 14 | 3/20/23 | 10:00am | М | | | Т | | T | | T | | I | Π | Π | | Τ | |
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| | | ┼┼─ | | \mathbf{H} | | ┝┼ | | | ╋ | - | | | | + | ⊢ | | ┝┥ | ╡ | ╉ | | 1 | ╋ | ╉ | ╢── | ┢┥ | ┢┥ | | + | |
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| | | ТГ | | | | П | | T | Т | 1 | Î! | 1 | 1 | | | | | Т | Т | -101-1 | | Τ | | 1 | П | Π | П | Т | |
| Container type: P-Polyeth | vlene G-Glassy V-VOA Z-Ziploc | ck Bag | | Concernantia Concernantia | | | | | *A | Il sample | pH's,a | and Tem | peratures are ta | aken at the time | they | are i | receiv | red ir | the | labo | ratory | ' by L | .ab S | taff | the product | | | | 1 |
| Received on Ice | Yes | No |) | | 7 | | | | Pr | eservative | туре | : HNO3 = | : (N) H ₂ S0 ₄ = | (S) NaOH = (O |) HCI | L = (| H) (I | CE = | (X) |)Na ₂ | -S ₂ O ₃ | 3 = (S | ST) | Pre | eserv | /ed uj | pon a | rrival | F |
| pH paper Lot #: Q/GHSC15 | 44 Thermometer ID: AA-T-1 | 03 CF = | 1.0 | - | ND-11 | | in a subjectiv | | Pr | eservative | Lot N | lumber(s |): | | | | | | | | e e e e e e e e e e e e e e e e e e e | en en sentres | 1 4024.0 | | | | animetri da | | 1 |
| Reling shed By: | Date: T $3/1/1 \ge 3$ | ime: /20/2,3 | //: | Ra | Reà | eived | By: &∨ | ک | 6 | Red | F1.(| 2n | / | Notes: | | | | | | | Sh Tra | ippinir acking | ng Info Numb | rmatic Ier: | on. | | | | |
| Relinguished by: Reduced By: A 2/20/23 16:09 | | | | | | | | | | <u> </u> | | PLEASE NOTE claim arasing | : Liab wheth | ilities ter b | s and ased i | Dama n cor | ages. htract | AA'≙ orte | liabili ort, sh | ty an all be | d clie limit | nts ex ed to | clusiv the a | ve rer Imoui | nedy f nt paic | or any I by th | / ie | | |
| Relinguished By: Date: Time: Received By: | | | | | | | 7 | VÉ | ð | T | 3/2 | client for ana shall be deen completion o | lysis. Popwa Ptile a | All Cl Ged Ipplic | aims i Unles able | ncluc F Co ervic | ling ti cle in cle. In | vrit no e | for ne vent s | glige d reco shall A | nce a eived AA be | nd an by A/ liable | y oth A with a for i | er cau 1in 30 incide | use wh I days : intal o | iatsoe after r | ver | | |
| Delivered by: (Circle | · One) | | | ſ | | Sj | ample | e Con | ditic | n | | Chec | ked By: | consequentia | i dami | ages, | , inclu | ding | with | ut li | nitatio | on, bu | a til es | is inte | rupt | jons, | loss of | f use, f | or |
| UPS - Fed Ex - Bus - l | JSPS - Lone Star Overnight | - Other | -sei | f) | V | | Yes [| ntact | No | | or | | tials) | related to the based upon a | perfo ny of t | rea b ormai the a | nce of hove | serv | o rea | sons | nder or oth | | D _{ga} se. | ardles | s of v | wheth | er suc | h clair | n is |

10526 Gulfdale

San Antonio, TX – 78216; Ph. (210) 340-8121; Fax: (210) 340-8123

Document Control No.: SOP-SAMP-REC Ver.13.1

| | Sample Log-In Checklist | | 0 |
|-------------------|---|-------------------|----------------|
| DATE | : <u>912123</u> TIME: <u>9115</u> | INITIALS: | 9 |
| CLIE 1. | Is a Chain of Custody present? (Yes) | <u>3 138</u> № | |
| 2. | Is a Chain of Custody properly completed? | No | |
| 3. | Are custody seals present?YesIf yes, are they intact?YesAre they on:Sample or onShipping Cont | No No | |
| 4. | Are all samples tagged or labeled? If yes, do the labels match the Chain of Custody? | No No | |
| 5. | Do all shipping documents agree (i.e., number of coolers arrived vs. on tic If not, describe below. | kets) No | N/A |
| 6. | Are samples preserved properly? If not, describe below. | No | |
| 7. 8. | Are all samples within holding times on arrival? <i>If not</i> , describe below. Condition of shipping container: Intact or | No | |
| 9. | Condition of samples: Intact or | | |
| 10. | Temperature of samples: Temp. (0 C) \mathcal{F} Corrected Temp. (0 C): \mathcal{F} | Thermometer | ID : DT1 or L2 |
| 11. | pH strip lot#: Samples out of pH range: | | |
| 12. | Delivery agent: Client UPS Fed-Ex Lone Star Alamo | P/U Othe | r |
| 13. | Sample disposal: Return to client Alamo Analytical Di | sposal | |
| 14. | Location: WI (Walk-In Cooler)/ F2 (Freezer 2 for TPH 1005 Soils))/ R1(Refrigerate | or 1 for TPH & V | OC water) |
| <u>Comr</u> | nents: (Reference checklist item number from above, or for commen | ts on resolution | on below): |
| | | X | be |
| <u></u> | | | |

<u>Record of contacting client for resolution of sample discrepancies (first and retry contact)</u> <u>Contacted How?</u>

| Name: | Phone | Fax | Date: | / | / | Time: |
|-------|-------|------|-------|---|---|-------|
| Name: | Phone | _Fax | Date: | / | / | Time: |



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Raymond Vega City of Tahoka PO BOX 300 Tahoka, Texas 79373 Generated 4/28/2023 4:53:10 PM

JOB DESCRIPTION

General

5 6

JOB NUMBER

820-8181-1

Eurofins Lubbock 6701 Aberdeen Ave. Suite 8 Lubbock TX 79424





See page two for job notes and contact information.

Eurofins Lubbock

Job Notes

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

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization

aylor

Generated 4/28/2023 4:53:10 PM

Authorized for release by Holly Taylor, Project Manager Holly.Taylor@et.eurofinsus.com (806)794-1296
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Qualifiers

| Qualifiers | ualifiers | | | | | | | |
|-------------------|--|---|--|--|--|--|--|--|
| General Chemistry | | | | | | | | |
| Qualifier | Qualifier Description | | | | | | | |
| HF | Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. | | | | | | | |
| U | Indicates the analyte was analyzed for but not detected. | 5 | | | | | | |

Glossary

| Quaimer | Qualitier Description | |
|----------------|---|----|
| HF | Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. | _ |
| U | Indicates the analyte was analyzed for but not detected. | 5 |
| Glossary | | 6 |
| Abbreviation | These commonly used abbreviations may or may not be present in this report. | |
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis | |
| %R | Percent Recovery | |
| CFL | Contains Free Liquid | 0 |
| CFU | Colony Forming Unit | 0 |
| CNF | Contains No Free Liquid | |
| DER | Duplicate Error Ratio (normalized absolute difference) | 9 |
| Dil Fac | Dilution Factor | |
| DL | Detection Limit (DoD/DOE) | |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample | |
| DLC | Decision Level Concentration (Radiochemistry) | |
| EDL | Estimated Detection Limit (Dioxin) | |
| LOD | Limit of Detection (DoD/DOE) | |
| LOQ | Limit of Quantitation (DoD/DOE) | |
| MCL | EPA recommended "Maximum Contaminant Level" | 13 |
| MDA | Minimum Detectable Activity (Radiochemistry) | |
| MDC | Minimum Detectable Concentration (Radiochemistry) | |
| MDL | Method Detection Limit | |
| ML | Minimum Level (Dioxin) | |
| MPN | Most Probable Number | |
| MQL | Method Quantitation Limit | |
| NC | Not Calculated | |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) | |
| NEG | Negative / Absent | |
| POS | Positive / Present | |
| PQL | Practical Quantitation Limit | |
| PRES | Presumptive | |
| QC | Quality Control | |
| RER | Relative Error Ratio (Radiochemistry) | |
| RL | Reporting Limit or Requested Limit (Radiochemistry) | |
| RPD | Relative Percent Difference, a measure of the relative difference between two points | |
| TEF | Toxicity Equivalent Factor (Dioxin) | |
| TEQ | Toxicity Equivalent Quotient (Dioxin) | |
| TNTC | Too Numerous To Count | |

Job ID: 820-8181-1

Laboratory: Eurofins Lubbock

Narrative

Job Narrative 820-8181-1

Receipt

The sample was received on 4/20/2023 10:59 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 10.7°C

General Chemistry

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

Matrix: Water

Lab Sample ID: 820-8181-1

Project/Site: General

Client: City of Tahoka

Client Sample ID: Center Lagoon

Date Collected: 04/20/23 08:58 Date Received: 04/20/23 10:59

| General Chemistry | | | | | | | | | |
|-------------------------------|--------|-----------|------|------|-----------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total Suspended Solids (SM | 159 | | 40.0 | 40.0 | mg/L | | | 04/27/23 10:44 | 1 |
| 2540D) | | | | | | | | | |
| рН (SM 4500 Н+ В) | 8.8 | HF | | | SU | | | 04/26/23 12:36 | 1 |
| Temperature (SM 4500 H+ B) | 16.7 | HF | | | Degrees C | | | 04/26/23 12:36 | 1 |
| Biochemical Oxygen Demand (SM | 52.0 | | 6.00 | 6.00 | mg/L | | 04/21/23 18:37 | 04/21/23 20:02 | 1 |
| 5210B) | | | | | | | | | |

_

Method: SM 2540D - Solids, Total Suspended (TSS)

| Lab Sample ID: MB 860-100713/ | 1 | | | | | | | | | | | Client S | Sample ID: | Metho | d Blank |
|---|--------|------|-----------|-------|-------|--------|------|--------|--------|------------|-------|-----------|-------------|---|----------|
| Matrix: Water | | | | | | | | | | | | | Prep | Type: T | otal/NA |
| Analysis Batch: 100713 | | | | | | | | | | | | | | | |
| | | MB | MB | | | | | | | | | | | | |
| Analyte | Re | sult | Qualifier | | RL | | MDL | Unit | | D | Р | repared | Analy | zed | Dil Fac |
| Total Suspended Solids | < | 4.00 | U | | 4.00 | | 4.00 | mg/L | | | | | 04/27/23 | 10:44 | 1 |
| Lab Sample ID: LCS 860-100713 | s/2 | | | | | | | | | C | lient | t Sample | ID: Lab C | ontrol | Sample |
| Matrix: Water | | | | | | | | | | | | | Prep | Type: T | otal/NA |
| Analysis Batch: 100713 | | | | | | | | | | | | | | | |
| | | | | Spike | | LCS | LCS | | | | | | %Rec | | |
| Analyte | | | | Added | | Result | Qua | lifier | Unit | | D | %Rec | Limits | | |
| Total Suspended Solids | | | | 100 | | 81.00 | | | mg/L | | | 81 | 80 - 120 | | |
| Lab Sample ID: LCSD 860-10071 | 13/3 | | | | | | | | CI | lient | San | nple ID: | Lab Contro | ol Sam | ple Dup |
| Matrix: Water | | | | | | | | | | | | · · · · | Prep | Type: T | otal/NA |
| Analysis Batch: 100713 | | | | | | | | | | | | | | | |
| | | | | Spike | | LCSD | LCS | D | | | | | %Rec | | RPD |
| Analyte | | | | Added | | Result | Qua | lifier | Unit | | D | %Rec | Limits | RPD |) Limit |
| Total Suspended Solids | | | | 100 | | 82.00 | | | mg/L | | _ | 82 | 80 - 120 | 1 | 10 |
| Method: SM 4500 H+ B - pH | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| Lab Sample ID: 820-8181-1 DU | | | | | | | | | | | 0 | Client Sa | ample ID: (| Center | Lagoon |
| Matrix: Water | | | | | | | | | | | | | Prep | Type: T | fotal/NA |
| Analysis Batch: 100515 | | | | | | | | | | | | | | | |
| | Sample | Sam | ple | | | DU | DU | | | | | | | | RPD |
| Analyte | Result | Qua | lifier | | | Result | Qua | lifier | Unit | | D | | | RPD | Limit |
| pH | 8.8 | HF | | | | 8.8 | | | SU | ~ | | | | 0.6 | 5 20 |
| Iemperature | 16.7 | HF | | | | 16.0 | | | Degree | es C | | | | 4 | 4 20 |
| Method: SM 5210B - BOD, 5 | -Day | | | | | | | | | | | | | | |
| Lab Sample ID: SCB 860-100611 | 1/2 | | | | | | | | | | | Client S | ample ID: | Metho | d Blank |
| Matrix: Water | | | | | | | | | | | | | Pren | Type: T | |
| Analysis Batch: 100611 | | | | | | | | | | | | | | .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | |
| | : | SCB | SCB | | | | | | | | | | | | |
| Analyte | Re | sult | Qualifier | | RL | | MDL | Unit | | D | Р | repared | Analy | zed | Dil Fac |
| Biochemical Oxygen Demand | 0.9 | 660 | | 0.00 | 00020 | 0.000 | 0020 | mg/L | | | | - | 04/21/23 | 19:48 | 1 |
| | | | | | 0 | | 0 | | | | | | | | |
| | | | | | | | | | | | | | | | |
| Lab Sample ID: USB 860-100611 | 1/1 | | | | | | | | | | | Client S | sample ID: | Metho | |
| Matrix: Water | | | | | | | | | | | | | Prep | Type: T | otal/NA |
| Analysis Batch: 100611 | | ICD | | | | | | | | | | | | | |
| Analyta | Bo | | Ouglifier | | ы | | мы | Unit | | п | | roparod | Analy | rad | Dil Eac |
| Rischamical Oxygon Domand | | Suit | Quaimer | | 00020 | 0.000 | | mg/l | | - <u> </u> | г | repareu | Allaly | 2eu | |
| | 0.2 | .000 | | 0.00 | 00020 | 0.000 | 0020 | mg/∟ | | | | | 04/21/25 | 19.40 | 1 |
| Lab Sample ID: LCS 860-100611 | 13 | | | | | | | | | C | lion | t Sample | D ID I ah C | ontrol | Sample |
| Matrix: Water | | | | | | | | | | | nem | Jample | Pron | Type: T | |
| Analysis Batch: 100611 | | | | | | | | | | | | | rieh | ., he. 1 | |
| stanyoro Batori. 100011 | | | | Spike | | LCS | LCS | | | | | | %Rec | | |
| Analyte | | | | Added | | Result | Qua | lifier | Unit | | D | %Rec | Limits | | |
| Biochemical Oxygen Demand | | | | 198 | | 211.6 | | | mg/L | | — | 107 | 85 - 115 | | |
| 1 S S S S S S S S S S S S S S S S S S S | | | | | | | | | | | | | | | |

1 2 3 4 5 6 7 8 9 10 11 12 13

General Chemistry

Prep Batch: 99920

| Lab Sample ID 820-8181-1 | Client Sample ID Center Lagoon | Prep Type Total/NA | Matrix Water | Method BOD Prep | Prep Batch |
|-----------------------------|-------------------------------------|--------------------|-----------------|--------------------|------------|
| Analysis Batch: 10051 | 5 | | | | |
| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
| 820-8181-1 | Center Lagoon | Total/NA | Water | SM 4500 H+ B | |
| 820-8181-1 DU | Center Lagoon | Total/NA | Water | SM 4500 H+ B | |
| Analysis Batch: 10061 | 1 | | | | |
| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
| 820-8181-1 | Center Lagoon | Total/NA | Water | SM 5210B | 99920 |
| SCB 860-100611/2 | Method Blank | Total/NA | Water | SM 5210B | |
| USB 860-100611/1 | Method Blank | Total/NA | Water | SM 5210B | |
| LCS 860-100611/3 | Lab Control Sample | Total/NA | Water | SM 5210B | |
| Analysis Batch: 10071 | 3 | | | | |
| Lab Sample ID | Client Sample ID | Ргер Туре | Matrix | Method | Prep Batch |
| 820-8181-1 | Center Lagoon | Total/NA | Water | SM 2540D | |
| MB 860-100713/1 | Method Blank | Total/NA | Water | SM 2540D | |
| LCS 860-100713/2 | LCS 860-100713/2 Lab Control Sample | | Water | SM 2540D | |
| LCSD 860-100713/3 | Lab Control Sample Dup | Total/NA | Water | SM 2540D | |

Client Sample ID: Center Lagoon Date Collected: 04/20/23 08:58 Date Received: 04/20/23 10:59

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|----------------------|------------------|----------------------|-----|--------|---------|---------|-----------------|----------------------------------|------------|--------------------|
| Ргер Туре | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Analysis | SM 2540D | | 1 | 100 mL | 1000 mL | 100713 | 04/27/23 10:44 | DR | EET HOU |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | | | 100515 | 04/26/23 12:36 | TL | EET HOU |
| Total/NA Total/NA | Prep Analysis | BOD Prep SM 5210B | | 1 | 100 mL | 300 mL | 99920 100611 | 04/21/23 18:37 04/21/23 20:02 | ALL ALL | EET HOU EET HOU |

Laboratory References:

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

Lab Sample ID: 820-8181-1 Matrix: Water 5 6

Temperature

SM 4500 H+ B

Laboratory: Eurofins Houston Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below. Authority Identification Number Expiration Date Program Texas NELAP T104704215-23-50 06-30-23 The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification. Analysis Method Prep Method Matrix Analyte

Water

Client: City of Tahoka Project/Site: General

| Method | Method Description | Protocol | Laboratory |
|--------------|-------------------------------|----------|------------|
| SM 2540D | Solids, Total Suspended (TSS) | SM | EET HOU |
| SM 4500 H+ B | pH | SM | EET HOU |
| SM 5210B | BOD, 5-Day | SM | EET HOU |
| BOD Prep | Preparation, BOD | SM | EET HOU |

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

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

Sample Summary

| | - | - | |
|------------------------|---|---|--|
| Client: City of Tahoka | | | |
| Project/Site: General | | | |

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 820-8181-1 | Center Lagoon | Water | 04/20/23 08:58 | 04/20/23 10:59 |

| 20-8181 Chain of Custody | Work Order Comments gram: UST/PST PRP Brownfields RRC Superfund te of Project: | oorting: Level II Level II PST/UST TRRP Level IV | Preservative Codes None: NO DI Water: H,O | Cool: Cool MeOH: Me HCL: HC HNO 3; HN H50 4; H 7 NaH50 4; HP NaH50 4; NABIS Na 25 203; Na50 3 Zn Acetate+NaOH: Zn NaOH: Actorbic Acid: SAPC Sample Comments | Mo Ni K Se Ag SiO ₂ Na Sr TI Sn U V Zn TI U Hg: 1631/245.1/7470 /7471 wetktons ustynegetated. | Received by: (Signature) Date/Time |
|---|--|--|---|---|--|--|
| Chain of Custody Houston, TX (281) 240-4200, Dalas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 PM | i (if different) any Name: Sa WA C Stat | itate ZIP: a crives to ne to be with the not Del | d ANALYSIS REQUEST | eived by eived by A 30pm A | 2xas 11 AI Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn 110 : BRCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag fent company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and cc maniple submitted to Eurofins Nenco, jut not analyzed. These terms will be enforced unless previout | Date/Time Relinquished by: (Signature) M U10113 2 (0:594 4 |
| urofins Environment Testing Xenco | oject Manager: Roy mond Veg C Bill to: mpany Name: C124 of Talucce Compa ddress: R07 Main Box 200 Addres | ity, State ZIP: Tahoka Tanan 2003 City, St none: 806-561-4211 Email: Ja | roject Name: Turn Around Coject Number: | Opicit Location: Due Date: impler's Name: impler's Name: 0 #: IAT starts the day recelled 0 #: AMPLE RECEIPT AMPLE RECEIPT Temp Blank: ves Vo Tamples Received Intact: Ves voler Custody Seals: Yes rample Custody Seals: Yes ample Received Intact: Ves coler Custody Seals: Yes ample Intact: Ves coler Custody Seals: Yes ample Intact: Correction Flactor: ample Intact: Ves contractory Seals: Yes ample Inters: Corrected Temperature: contractory Seals: Ves ooler Custody Seals: Yes ample Inters: Corrected Temperature: contractory Matrix Sample Identification Matrix Andro Matrix Andro Matrix | Total 200.7 / 6010 200.8 / 6020: BRCRA 13PPM Tey irrcle Method(s) and Metal(s) to be analyzed TCLP / SPLP 601 dec: Signature of this document and relinquishment of samples constitutes a valid purchase order from de service. Eurofins Xenco will be albe only for the cost of samples and shall not assume any responsibility for Eurofins Xenco. Aminimum charge of \$85.00 will be applied to each project and a charge of \$56 reachs as | Relinquished by: (Signature) Received by: (Signature) Received by: (Signature) |

Loc: 820 **8181**

4/28/2023

Client: City of Tahoka

Login Number: 8181 List Number: 1 Creator: Ruggles, Ashley

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

Job Number: 820-8181-1

List Source: Eurofins Lubbock

Client: City of Tahoka

Login Number: 8181 List Number: 2 Creator: Canadilla, Surelis

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

Job Number: 820-8181-1

List Source: Eurofins Houston

List Creation: 04/21/23 02:56 PM

13

<6mm (1/4").



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Raymond Vega City of Tahoka PO BOX 300 Tahoka, Texas 79373 Generated 6/2/2023 7:29:26 AM

JOB DESCRIPTION

C. Lagoon

5 6

JOB NUMBER

820-8593-1

Eurofins Lubbock 6701 Aberdeen Ave. Suite 8 Lubbock TX 79424



See page two for job notes and contact information.



Eurofins Lubbock

Job Notes

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Authorization

aylor

Generated 6/2/2023 7:29:26 AM

Authorized for release by Holly Taylor, Project Manager Holly.Taylor@et.eurofinsus.com (806)794-1296

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Qualifiers

| Qualifiers | | 3 |
|----------------|---|----|
| General Chen | nistry | |
| Qualifier | Qualifier Description | |
| HF | Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. | |
| U | Indicates the analyte was analyzed for but not detected. | 5 |
| Glossary | | 6 |
| Abbreviation | These commonly used abbreviations may or may not be present in this report. | |
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis | |
| %R | Percent Recovery | |
| CFL | Contains Free Liquid | 0 |
| CFU | Colony Forming Unit | Ο |
| CNF | Contains No Free Liquid | |
| DER | Duplicate Error Ratio (normalized absolute difference) | 9 |
| Dil Fac | Dilution Factor | |
| DL | Detection Limit (DoD/DOE) | |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample | |
| DLC | Decision Level Concentration (Radiochemistry) | |
| EDL | Estimated Detection Limit (Dioxin) | |
| LOD | Limit of Detection (DoD/DOE) | |
| LOQ | Limit of Quantitation (DoD/DOE) | |
| MCL | EPA recommended "Maximum Contaminant Level" | 13 |
| | | |

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|---|
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

Job ID: 820-8593-1

Laboratory: Eurofins Lubbock

Narrative

Job Narrative 820-8593-1

Receipt

The sample was received on 5/24/2023 2:58 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 19.9°C

General Chemistry

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

Project/Site: C. Lagoon

Client: City of Tahoka

Client Sample ID: C. Lagoon Date Collected: 05/24/23 14:12

Date Received: 05/24/23 14:58

| Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------|--------------------------------------|--------------------------------------|---|--|--|--|--|---|
| 121 | | 26.7 | 26.7 | mg/L | | | 05/30/23 11:04 | 1 |
| | | | | | | | | |
| 9.0 | HF | | | SU | | | 06/01/23 14:00 | 1 |
| 16.0 | HF | | | Degrees C | | | 06/01/23 14:00 | 1 |
| 38.5 | | 12.0 | 12.0 | mg/L | | 05/25/23 15:25 | 05/25/23 18:11 | 1 |
| | Result 121 9.0 16.0 38.5 | ResultQualifier1219.09.0HF16.0HF38.5 | Result Qualifier RL 121 26.7 9.0 HF 16.0 HF 38.5 12.0 | Result Qualifier RL MDL 121 26.7 26.7 26.7 9.0 HF 16.0 HF 38.5 12.0 12.0 | Result Qualifier RL MDL Unit 121 26.7 26.7 26.7 mg/L 9.0 HF SU Degrees C 38.5 12.0 12.0 mg/L | Result Qualifier RL MDL Unit D 121 26.7 26.7 26.7 mg/L D 9.0 HF SU D D D 16.0 HF Degrees C 38.5 12.0 12.0 mg/L | Result Qualifier RL MDL Unit D Prepared 121 26.7 26.7 26.7 mg/L D Prepared 9.0 HF SU D D Prepared 16.0 HF Degrees C 38.5 12.0 12.0 mg/L 05/25/23 15:25 | Result Qualifier RL MDL Unit D Prepared Analyzed 121 26.7 26.7 26.7 mg/L D Prepared Analyzed 9.0 HF SU 06/01/23 14:00 06/01/23 14:00 06/01/23 14:00 16.0 HF Degrees C 06/01/23 14:00 06/01/23 14:00 38.5 12.0 12.0 mg/L 05/25/23 15:25 05/25/23 18:11 |

Lab Sample ID: 820-8593-1 Matrix: Water

Method: SM 2540D - Solids, Total Suspended (TSS)

| Lab Sample ID: MB 860-105346/1 | | | | | | | | | | Client S | Sample ID: Meti | nod Bla | nk |
|---------------------------------------|--------------|-----------|----------------|-------|--------|--------|----------|------------|------|-----------------|-----------------|--------------|-----|
| Analysis Batch: 105346 | | | | | | | | | | | Fieb iybe | . 10tal/1 | |
| Analysis Batch. 103340 | MB | MB | | | | | | | | | | | |
| Analyte | Result | Qualifier | DI | | мы | Unit | | п | D | ronarod | Analyzed | | Fac |
| Total Suspended Solids | <1.00 | | | | 4 00 | ma/l | | | | repareu | | | 1 |
| | \$4.00 | 0 | 4.00 | | 4.00 | iiig/L | | | | | 00/00/20 11:04 | | 1 |
| Lab Sample ID: LCS 860-105346/2 | | | | | | | | CI | ient | Sample | ID: Lab Contro | ol Samp | ole |
| Matrix: Water | | | | | | | | | | | Prep Type | : Total/I | NA |
| Analysis Batch: 105346 | | | | | | | | | | | | | |
| | | | Spike | LCS | S LCS | | | | | | %Rec | | |
| Analyte | | | Added | Resu | t Qua | lifier | Unit | | D | %Rec | Limits | | |
| Total Suspended Solids | | | 100 | 109. | 0 | | mg/L | | | 109 | 80 - 120 | | |
| Lab Sample ID: 1 CSD 960 405246/2 | 5 | | | | | | <u> </u> | liant | Com | | Lab Control Sa | male D | |
| Lab Sample ID: LCSD 860-105346/3 | | | | | | | C | nent | Sam | ipie iD: i | Lab Control Sa | | up |
| Matrix: Water | | | | | | | | | | | Prep Type | : Iotal/I | NA |
| Analysis Batch: 105346 | | | 0 | 1.001 | | - | | | | | % D | | |
| Ameluda | | | Spike Added | Deaul | | U | 11 | | | % Dee | %Rec | | PU |
| Tetal Supported Salida | | | Added | ACSU | | litier | | | _ | %Rec | | | |
| Total Suspended Solids | | | 100 | 105. | 0 | | mg/L | | | 105 | 80 - 120 | 4 | 10 |
| Method: SM 5210B - BOD, 5-Da | ау | | | | | | | | | | | | _ |
| Lab Sample ID: SCB 860-105403/2 | | | | | | | | | | Client S | Sample ID: Met | nod Bla | nk |
| Matrix: Water | | | | | | | | | | | Prep Type | : Total/N | NA |
| Analysis Batch: 105403 | | | | | | | | | | | | | |
| | SCB | SCB | | | | | | | | | | | |
| Analyte | Result | Qualifier | RL | | MDL | Unit | | D | Ρ | repared | Analyzed | Dil F | Fac |
| Biochemical Oxygen Demand | 0.8970 | | 0.0000020 | 0.00 | 00020 | mg/L | | | | | 05/25/23 17:56 | ; | 1 |
| | | | 0 | | 0 | | | | | | | | |
| Lab Sample ID: USB 860 405402/4 | | | | | | | | | | Client S | Comple ID: Mot | and Bla | nk |
| Lab Sample ID. USB 860-105403/1 | | | | | | | | | | Chefit 3 | | | |
| Matrix. Water | | | | | | | | | | | Prep Type | . Total/f | NA |
| Analysis Batch: 105403 | | LIED | | | | | | | | | | | |
| A L -d- | USB Davik | 055 | | | | 11 | | - | - | | A | | |
| Analyte Bischemical Overgan Damand | Result | Qualifier | | | | Unit | | - <u> </u> | P | repared | | | |
| Biochemical Oxygen Demand | <0.00000200 | 0 | 0.0000020 | 0.00 | 000020 | mg/L | | | | | 05/25/25 17:20 |) | 1 |
| | | | 0 | | 0 | | | | | | | | |
| Lab Sample ID: LCS 860-105403/3 | | | | | | | | CI | ient | Sample | D: Lab Contro | ol Samp | ole |
| Matrix: Water | | | | | | | | | | - | Prep Type | · Total/I | NA |
| Analysis Batch: 105403 | | | | | | | | | | | | | |
| - | | | Spike | LCS | S LCS | | | | | | %Rec | | |
| Analyte | | | Added | Resu | lt Qua | lifier | Unit | | D | %Rec | Limits | | |
| Biochemical Oxygen Demand | | | 198 | 196. | 7 | | mg/L | | _ | 99 | 85 - 115 | | |

Biochemical Oxygen Demand

Eurofins Lubbock

Job ID: 820-8593-1

General Chemistry

Prep Batch: 104908

| Lab Sample ID | Client Sample ID | Ргер Туре | Matrix | Method | Prep Batch |
|-----------------------|------------------------|-----------|---------|--------------------|------------|
| 820-8593-1 | C. Lagoon | Total/NA | Water | BOD Prep | |
| Analysis Batch: 10534 | 6 | | | | |
| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
| 820-8593-1 | C. Lagoon | Total/NA | Water | SM 2540D | |
| MB 860-105346/1 | Method Blank | Total/NA | Water | SM 2540D | |
| LCS 860-105346/2 | Lab Control Sample | Total/NA | Water | SM 2540D | |
| LCSD 860-105346/3 | Lab Control Sample Dup | Total/NA | Water | SM 2540D | |
| Analysis Batch: 10540 | 3 | | | •• • | |
| 20-8503-1 | | Prep Type | Water | Wethod SM 5210B | 10/908 |
| SCB 860-105403/2 | Method Blank | Total/NA | Water | SM 5210B | 104300 |
| USB 860-105403/1 | Method Blank | Total/NA | Water | SM 5210B | |
| LCS 860-105403/3 | Lab Control Sample | Total/NA | Water | SM 5210B | |
| Analysis Batch: 10585 | 57 | | | | |
| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
| 820-8593-1 | C. Lagoon | Total/NA | Water | SM 4500 H+ B | |

Client Sample ID: C. Lagoon Date Collected: 05/24/23 14:12 Date Received: 05/24/23 14:58

| - | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|----------------------|------------------|----------------------|-----|--------|---------|---------|------------------|----------------------------------|----------|--------------------|
| Prep Туре | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Analysis | SM 2540D | | 1 | 150 mL | 1000 mL | 105346 | 05/30/23 11:04 | ОН | EET HOU |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | | | 105857 | 06/01/23 14:00 | TL | EET HOU |
| Total/NA Total/NA | Prep Analysis | BOD Prep SM 5210B | | 1 | 50 mL | 300 mL | 104908 105403 | 05/25/23 15:25 05/25/23 18:11 | HN HN | EET HOU EET HOU |

Laboratory References:

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

Lab Sample ID: 820-8593-1 Matrix: Water 5 6

Accreditation/Certification Summary

Laboratory: Eurofins Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | rity Program | | Identification Number | Expiration Date |
|--|--|--|---|-------------------------|
| Texas | NE | ELAP | T104704215-23-50 | 06-30-23 |
| | | | | |
| The following analytes the agency does not o | are included in this report, bu fer certification. | It the laboratory is not certifi | ied by the governing authority. This list ma | ay include analytes for |
| The following analytes the agency does not o Analysis Method | are included in this report, bu fer certification. Prep Method | it the laboratory is not certifi Matrix | ied by the governing authority. This list ma Analyte | ay include analytes for |

Client: City of Tahoka Project/Site: C. Lagoon

| Method | Method Description | Protocol | Laboratory |
|--------------|-------------------------------|----------|------------|
| SM 2540D | Solids, Total Suspended (TSS) | SM | EET HOU |
| SM 4500 H+ B | pH | SM | EET HOU |
| SM 5210B | BOD, 5-Day | SM | EET HOU |
| BOD Prep | Preparation, BOD | SM | EET HOU |

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

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

Sample Summary

| Client: City of Tahoka | |
|-------------------------|--|
| Project/Site: C. Lagoon | |

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 820-8593-1 | C. Lagoon | Water | 05/24/23 14:12 | 05/24/23 14:58 |

| ^{Loc: 820} 8593 urofii | NS Environment Testing Xenco | Chain Of (Houston, TX (281) 240-4200, Midland, TX (432) 704-5440, Sai EL Paso, TX (915) 585-3443, Li Hobbs, NM (575) 392-7550, Ci | Custody Dallas, TX (214) 902-0300 Amtonio, TX (210) 509-3334 Ibbock, TX (806) 794-1296 arisbad, NM (575) 988-3199 | 820-8593 Chain of Custody | of Definition |
|--|---|---|---|--|--------------------------------------|
| Project Manager: | Jaymored Verse | Bill to: (if different) | | Work Order Comment | its currenting |
| Address: | 01 Min Box 300 | Company Name: Address: | Samp | State of Project: | |
| City, State ZIP: | 10 La Tr 79373 | City, State ZIP: | | Reporting: Level II Level III PST/UST | TRRP C Level IV |
| Phone: | 06.561-421/ Em | ait Everya & talvka a | ref i maya & wigh | Deliverables: EDD ADaPT | Other: |
| Project Name: Discipited Number: | | urn Around | ANALYSIS REQUE | | NO DI Water: H.O |
| Project Location: | Due Date | 200 | | Cool: Co | Cool MeOH: Me |
| Sampler's Name: | TAT starts the lab, if | the day received by received by 4:30pm | | HCL: HC | HNO ₃ : HN |
| SAMPLE RECEIPT | Teppo Blank: Yes No Wet Ice: | Yes No | | H ₃ PO ₄ : | HP. |
| Samples Received Intact: | Yes No Thermometer ID: | arame | | NaHSO | 0 4: NABIS |
| Cooler Custody Seals: | Yes No N/A Correction Factor: | 4 1. h | | Na ₂ S ₂ C | O3: NaSO 3 |
| Jampie Custoody Seals: Total Containers: | Tes No N/A Temperature Reacing: Corrected Temperature | 19.9 | 55 | LI ACE | +Ascorbic Acid: SAPC |
| Sample Identificatio | on Matrix Date Time Sampled | Depth Grab/ # of Cont | L | , S | sample Comments |
| C. Lagoon | S/aH 20 2: A | -6 | | | |
| | | | - | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| Total 200.7 / 6010 Circle Method(s) and M | 200.8 / 6020: 8RCRA 13 Metal(s) to be analyzed TCLP | 8PPM Texas 11 AI Sb As Ba Be / SPLP 6010 : 8RCRA Sb As Ba Be | B Cd Ca Cr Co Cu Fe Pb Mg S Cd Cr Co Cu Pb Mn Mo Ni So | Mn Mo Ni K Se Ag SiO ₂ Na Sr Tl Sn e Ag Tl U Hg: 1631 / 245.1 / 7470 | U V Zn 1 / 7471 |
| Notice: Signature of this document i of service. Eurofins Xenco will be lia of Eurofins Xenco. A minimum charg | and relinquishment of samples constitutes a valid purchase ble only for the cost of samples and shall not assume any re ge of \$85.00 will be applied to each project and a charge ol | e order from Client company to Eurofins Xenco, its affil esponsibility for any losses or expenses incurred by th §55 for each sample submitted to Eurofins Xenco, bur | iates and subcontractors. It assigns standard term e client if such losses are due to circumstances bey not analyzed. These terms will be enforced unless | and conditions and the control previously negotiated | |
| Relinquished by: (Sigr | nature) Regeived by: (Signat | ury) Dațe/Time | Relinquished by: (Signatu | re) Received by: (Signature) | Date/Time |
| le non | m leher with and | 1129 5/24/2 | 2 2 | | |
| e a | | | | | |
| | | | , | | Revised Date: 08/25/2020 Rev. 2020.2 |

Page 13 of 15

6/2/2023

Login Sample Receipt Checklist

Client: City of Tahoka

Login Number: 8593 List Number: 1 Creator: Triplett, Colby

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

Job Number: 820-8593-1

List Source: Eurofins Lubbock

Client: City of Tahoka

Login Number: 8593 List Number: 2 Creator: Pena, Jesiel

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

Job Number: 820-8593-1

List Source: Eurofins Houston

List Creation: 05/25/23 01:09 PM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Raymond Vega City of Tahoka PO BOX 300 Tahoka, Texas 79373 Generated 6/26/2023 4:19:45 PM

JOB DESCRIPTION

C Lagoon

JOB NUMBER

820-8917-1

Eurofins Lubbock 6701 Aberdeen Ave. Suite 8 Lubbock TX 79424







Eurofins Lubbock

Job Notes

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

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization

aylor

Generated 6/26/2023 4:19:45 PM 1

Authorized for release by Holly Taylor, Project Manager Holly.Taylor@et.eurofinsus.com (806)794-1296

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Qualifiers

| Qualifiers | S | 3 |
|------------|--|---|
| General Ch | nemistry | |
| Qualifier | Qualifier Description | |
| HF | Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. | |
| U | Indicates the analyte was analyzed for but not detected. | 5 |

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|---|
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

Job ID: 820-8917-1

Laboratory: Eurofins Lubbock

Narrative

Job Narrative 820-8917-1

Receipt

The sample was received on 6/19/2023 10:22 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 14.5°C

General Chemistry

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

Project/Site: C Lagoon

Client: City of Tahoka

Client Sample ID: C Lagoon Date Collected: 06/19/23 08:53

Date Received: 06/19/23 10:22

Lab Sample ID: 820-8917-1 Matrix: Water

Watrix: Water

| General Chemistry | | | | | | | | | |
|--------------------------------------|--------|-----------|------|------|-----------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total Suspended Solids (SM | 76.0 | | 16.0 | 16.0 | mg/L | | | 06/22/23 10:33 | 1 |
| 2540D) | | | | | | | | | |
| рН (SM 4500 H+ B) | 9.1 | HF | | | SU | | | 06/20/23 16:21 | 1 |
| Temperature (SM 4500 H+ B) | 19.8 | HF | | | Degrees C | | | 06/20/23 16:21 | 1 |
| Biochemical Oxygen Demand (SM 5210B) | 21.7 | | 12.0 | 12.0 | mg/L | | 06/20/23 14:45 | 06/20/23 17:45 | 1 |

Method: SM 2540D - Solids, Total Suspended (TSS)

| Lab Sample ID: MB 860-109093/1 | | | | | | | | | | Client S | Sample ID: Met | hod I | Blank |
|--|--------|-----------|----------|------------|-------------|--------|------|------------|-------|----------|-----------------------------|-----------------|----------------|
| Matrix: Water | | | | | | | | | | | Prep Type | e: Tot | al/NA |
| Analysis Batch: 109093 | | | | | | | | | | | | | |
| | MB | MB | | | | | | | | | | | |
| Analyte | Result | Qualifier | R | L | MDL | Unit | | D | Р | repared | Analyzed | | Dil Fac |
| Total Suspended Solids | <4.00 | U | 4.0 | 0 | 4.00 | mg/L | | | | | 06/22/23 10:3 | 3 | 1 |
| Lab Sample ID: LCS 860-109093/2 | | | | | | | | CI | lient | Sample | e ID: Lab Conti | ol Sa | mple |
| Matrix: Water | | | | | | | | | | | Prep Type | e: Tot | al/NA |
| Analysis Batch: 109093 | | | | | | | | | | | | | |
| | | | Spike | LC | S LCS | 5 | | | | | %Rec | | |
| Analyte | | | Added | Res | ult Qua | lifier | Unit | | D | %Rec | Limits | | |
| Total Suspended Solids | | | 100 | 103 | 5.0 | | mg/L | | _ | 103 | 80 - 120 | | |
| _ Lab Sample ID: LCSD 860-109093/3 | | | | | | | с | lient | Sam | nple ID: | Lab Control Sa | ample | e Dun |
| Matrix: Water | | | | | | | Ĩ | | | | Pren Type | a: Tot | al/NA |
| Analysis Batch: 109093 | | | | | | | | | | | | | |
| Analysis Baten. 100000 | | | Snike | 1.09 | | .n | | | | | %Rec | | RPD |
| Analyte | | | | Pos | | lifior | Unit | | п | %Pac | /intee | חסכ | Limit |
| Tatal Supponded Solida | | | | 100 | | | mall | | _ | 100 | | | 10 |
| | | | 100 | 108 | .0 | | mg/L | | | 109 | 00 - 120 | 0 | 10 |
| Lab Sample ID: SCB 860-109443/2 Matrix: Water Analysis Batch: 109443 | | | | | | | | | | Client S | Sample ID: Met Prep Type | hod e: Tot | Blank al/NA |
| | SCB | SCB | | | | | | | | | | | |
| Analyte | Result | Qualifier | R | L | MDL | Unit | | <u>D</u> | Р | repared | Analyzed | | Dil Fac |
| Biochemical Oxygen Demand | 0.7380 | | 0.000002 | 0.0 | 000020 | mg/L | | | | | 06/20/23 17:1 | 3 | 1 |
| _ | | | | 0 | 0 | | | | | | | | |
| Lab Sample ID: USB 860-109443/1 | | | | | | | | | | Client | Sample ID: Mot | hod | Rlank |
| Matrix: Water | | | | | | | | | | onent c | | | |
| Analysis Detaby 400442 | | | | | | | | | | | Fieb ish | . 100 | allin |
| Analysis Batch: 109443 | LICE | | | | | | | | | | | | |
| • • • | 058 | 058 | _ | | | | | _ | _ | | | | |
| Analyte | Result | Qualifier | R | L | MDL | Unit | | _ <u> </u> | P | repared | Analyzed | | |
| Biochemical Oxygen Demand | 0.1100 | | 0.000002 | 0 0.0 0 | 000020 0 | mg/L | | | | | 06/20/23 17:1 | 1 | 1 |
| Lab Sample ID: LCS 860-109443/3 | | | | | | | | CI | lient | Sample | D: I ah Conti | ol Sa | mnle |
| Matrix: Water | | | | | | | | | | Jumpic | Dron Tun | v Tot | al/NA |
| Analysis Batch: 109443 | | | | | | | | | | | i ieb iybe | | |
| Anarysis Daton. 103443 | | | Snike | 17 | S I CS | | | | | | %Rec | | |
| Analyto | | | | Pac | | lifier | Unit | | Р | %Pac | Limite | | |
| | | | 109 | 107 | | miei | mc/ | | _ | | | | |
| Biochemical Oxygen Demand | | | 190 | 187 | .∠ | | mg/L | | | 95 | 00 - 115 | | |

Job ID: 820-8917-1

2 3 4 5 6 7 8 9 10 11 12 13

General Chemistry

Prep Batch: 108746

LCS 860-109443/3

Lab Control Sample

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------------|------------------------|-----------|--------|--------------|------------|
| 820-8917-1 | C Lagoon | Total/NA | Water | BOD Prep | |
| Analysis Batch: 10880 | 3 | | | | |
| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
| 820-8917-1 | C Lagoon | Total/NA | Water | SM 4500 H+ B | |
| Analysis Batch: 10909 | 3 | | | | |
| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
| 820-8917-1 | C Lagoon | Total/NA | Water | SM 2540D | |
| MB 860-109093/1 | Method Blank | Total/NA | Water | SM 2540D | |
| LCS 860-109093/2 | Lab Control Sample | Total/NA | Water | SM 2540D | |
| LCSD 860-109093/3 | Lab Control Sample Dup | Total/NA | Water | SM 2540D | |
| Analysis Batch: 10944 | 3 | | | | |
| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
| 820-8917-1 | C Lagoon | Total/NA | Water | SM 5210B | 108746 |
| SCB 860-109443/2 | Method Blank | Total/NA | Water | SM 5210B | |
| USB 860-109443/1 | Method Blank | Total/NA | Water | SM 5210B | |

Total/NA

Water

SM 5210B
Client Sample ID: C Lagoon Date Collected: 06/19/23 08:53 Date Received: 06/19/23 10:22

| _ | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|--------------|-----|--------|---------|---------|--------|----------------|---------|---------|
| Ргер Туре | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Analysis | SM 2540D | | 1 | 250 mL | 1000 mL | 109093 | 06/22/23 10:33 | ОН | EET HOU |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | | | 108803 | 06/20/23 16:21 | TL | EET HOU |
| Total/NA | Prep | BOD Prep | | | | | 108746 | 06/20/23 14:45 | HN | EET HOU |
| Total/NA | Analysis | SM 5210B | | 1 | 50 mL | 300 mL | 109443 | 06/20/23 17:45 | ALL | EET HOU |

Laboratory References:

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

Lab Sample ID: 820-8917-1 Matrix: Water

Accreditation/Certification Summary

5 6 7

9

Laboratory: Eurofins Houston Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below. Authority Identification Number Expiration Date Program Texas NELAP T104704215-23-50 06-30-23 The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification. Analysis Method Prep Method Matrix Analyte SM 4500 H+ B Water Temperature

Client: City of Tahoka Project/Site: C Lagoon

| Method | Method Description | Protocol | Laboratory |
|--------------|-------------------------------|----------|------------|
| SM 2540D | Solids, Total Suspended (TSS) | SM | EET HOU |
| SM 4500 H+ B | pH | SM | EET HOU |
| SM 5210B | BOD, 5-Day | SM | EET HOU |
| BOD Prep | Preparation, BOD | SM | EET HOU |

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

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

Sample Summary

| Client: City of Tahoka | |
|------------------------|--|
| Project/Site: C Lagoon | |

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 820-8917-1 | C Lagoon | Water | 06/19/23 08:53 | 06/19/23 10:22 |

Reporting: Level II C Level III PST/UST TRRP Level IV Superfund DI Water: H₂O Revised Date: 08/25/2020 Rev. 2020.2 HNO 3: HN NaOH: Na MeOH: Me VaOH+Ascorbic Acid: SAPC **Preservative Codes** Sample Comments Date/Time Zn Acetate+NaOH: Zn ð Brownfields RRC Na 25 203: NaSO 3 8RCRA 13PPM Texas 11 AI Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr TI Sn U V Zn Other: NaHSO 4: NABIS Hg: 1631 / 245.1 / 7470 / 7471 820-8917 Chain of Custody None: NO H3PO 4: HP H₂S0 4: H₂ Cool: Cool www.xenco.com Page HCL: HC Work Order Comments ADaPT Received by: (Signature) EDD State of Project: of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated Deliverables: 7h 8.5 TCLP/SPLP6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be flable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to chrcumstances beyond the contro Program: ANALYSIS REQUEST Relinquished by: (Signature) where org inverse Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Chain of Custody Sam 249 19/23 1022 STIC DOD Date/Time 6 # of Cont Pres. Parameters C Bill to: (if different) Company Name: Comp Email: C'VCQA Grab/ IRay City, State ZIP: TAT starts the day received by the lab, if received by 4:30pm on C 11.0 Rush Address: Ş Depth Turn Around Received by: (Signature) 6/19/23 825300 Routine Due Date: Corrected Temperature: Sampled Wet Ice: Temperature Reading: 30×300 Time **Environment Testing** Correction Factor: Thermometer ID: N.9 5 a hund Yes Lo Sampled 137 Date Circle Method(s) and Metal(s) to be analyzed Matrix ILY MON Main Rub. 561-421 Xenco Í Yes No G 200.8 / 6020: Temp Blank: No No Yes No aluta Relinquished by: (Signature) 807 rofins Sample Identification 20000 Samples Received Intact: Total 200.7 / 6010 Sample Custody Seals: Cooler Custody Seals: SAMPLE RECEIPT Total Containers: Project Number: Project Location: Sampler's Name: Project Manager: Company Name: City, State ZIP: Project Name: Loc: 820 8917 Address: Phone: :# Od

Page 13 of 15

5 6 7

<mark>12</mark> 13

Login Sample Receipt Checklist

Client: City of Tahoka

Login Number: 8917 List Number: 1 Creator: Triplett, Colby

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

Job Number: 820-8917-1

List Source: Eurofins Lubbock

<6mm (1/4").

Client: City of Tahoka

Login Number: 8917 List Number: 2 Creator: Babar, Syed

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

Job Number: 820-8917-1

List Source: Eurofins Houston

List Creation: 06/20/23 12:12 PM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Raymond Vega City of Tahoka PO BOX 300 Tahoka, Texas 79373 Generated 7/24/2023 6:18:27 PM

JOB DESCRIPTION

C. Lagoon

JOB NUMBER

820-9272-1

Eurofins Lubbock 6701 Aberdeen Ave. Suite 8 Lubbock TX 79424







Eurofins Lubbock

Job Notes

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

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization

aylor

Generated 7/24/2023 6:18:27 PM

1

5

Authorized for release by Holly Taylor, Project Manager Holly.Taylor@et.eurofinsus.com (806)794-1296

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| | |

Qualifiers

| Qualifiers | Qualifiers | | | | | |
|------------|--|---|---|--|--|--|
| General Ch | nemistry | | i | | | |
| Qualifier | Qualifier Description | | | | | |
| HF | Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. | | | | | |
| U | Indicates the analyte was analyzed for but not detected. | 5 | | | | |

Glossary

| Quanner | Qualitier Description | |
|----------------|---|-----|
| HF | Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. | |
| U | Indicates the analyte was analyzed for but not detected. | 5 |
| Glossary | | 6 |
| Abbreviation | These commonly used abbreviations may or may not be present in this report. | |
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis | - 7 |
| %R | Percent Recovery | |
| CFL | Contains Free Liquid | 0 |
| CFU | Colony Forming Unit | 0 |
| CNF | Contains No Free Liquid | |
| DER | Duplicate Error Ratio (normalized absolute difference) | 9 |
| Dil Fac | Dilution Factor | |
| DL | Detection Limit (DoD/DOE) | |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample | |
| DLC | Decision Level Concentration (Radiochemistry) | |
| EDL | Estimated Detection Limit (Dioxin) | |
| LOD | Limit of Detection (DoD/DOE) | |
| LOQ | Limit of Quantitation (DoD/DOE) | |
| MCL | EPA recommended "Maximum Contaminant Level" | 13 |
| MDA | Minimum Detectable Activity (Radiochemistry) | |
| MDC | Minimum Detectable Concentration (Radiochemistry) | |
| MDL | Method Detection Limit | |
| ML | Minimum Level (Dioxin) | |
| MPN | Most Probable Number | |
| MQL | Method Quantitation Limit | |
| NC | Not Calculated | |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) | |
| NEG | Negative / Absent | |
| POS | Positive / Present | |
| PQL | Practical Quantitation Limit | |
| PRES | Presumptive | |
| QC | Quality Control | |
| RER | Relative Error Ratio (Radiochemistry) | |
| RL | Reporting Limit or Requested Limit (Radiochemistry) | |
| RPD | Relative Percent Difference, a measure of the relative difference between two points | |
| TEF | Toxicity Equivalent Factor (Dioxin) | |
| TEQ | Toxicity Equivalent Quotient (Dioxin) | |
| TNTC | Too Numerous To Count | |

Job ID: 820-9272-1

Laboratory: Eurofins Lubbock

Narrative

Job Narrative 820-9272-1

Receipt

The sample was received on 7/17/2023 11:04 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 14.3°C

General Chemistry

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

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Project/Site: C. Lagoon

Client: City of Tahoka

Client Sample ID: C. Lagoon Date Collected: 07/17/23 09:48

Date Received: 07/17/23 11:04

Lab Sample ID: 820-9272-1 Matrix: Water

Water .

5

| General Chemistry | | | | | | | | | |
|--------------------------------------|--------|-----------|------|------|-----------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total Suspended Solids (SM | 96.7 | | 26.7 | 26.7 | mg/L | | | 07/21/23 12:21 | 1 |
| 2540D) | | | | | | | | | |
| рН (SM 4500 Н+ В) | 9.0 | HF | | | SU | | | 07/19/23 16:41 | 1 |
| Temperature (SM 4500 H+ B) | 20.0 | HF | | | Degrees C | | | 07/19/23 16:41 | 1 |
| Biochemical Oxygen Demand (SM 5210B) | 34.0 | | 12.0 | 12.0 | mg/L | | 07/18/23 12:44 | 07/18/23 16:01 | 1 |

Method: SM 2540D - Solids, Total Suspended (TSS)

| | | | | | | | | | | | | Client S | Sample ID: | Method | l Blank |
|-------------------------------------|--------|-------|-----------|-------|-------|--------|------|--------|--------|-------|------|----------|-------------------|---|---------|
| Matrix: Water | | | | | | | | | | | | | Prep [·] | Type: To | otal/NA |
| Analysis Batch: 113433 | | | | | | | | | | | | | | | |
| | | MB | MB | | | | | | | | | | | | |
| Analyte | R | esult | Qualifier | | RL | | MDL | Unit | | D | P | repared | Analy | zed | Dil Fac |
| Total Suspended Solids | ~ | <4.00 | U | | 4.00 | | 4.00 | mg/L | | | | | 07/21/23 | 12:21 | 1 |
| Lab Sample ID: LCS 860-113433/2 | | | | | | | | | | CI | ient | Sample | e ID: Lab C | ontrol S | Sample |
| Matrix: Water | | | | | | | | | | | | | Prep [·] | Type: To | otal/NA |
| Analysis Batch: 113433 | | | | | | | | | | | | | | | |
| | | | | Spike | | LCS | LCS | | | | | | %Rec | | |
| Analyte | | | | Added | | Result | Qua | lifier | Unit | | D | %Rec | Limits | | |
| Total Suspended Solids | | | | 100 | | 107.0 | | | mg/L | | | 107 | 80 - 120 | | |
| Lab Sample ID: LCSD 860-113433/ | 3 | | | | | | | | С | lient | Sam | ple ID: | Lab Contro | ol Samp | ole Dup |
| Matrix: Water | | | | | | | | | | | | · · · · | Prep [·] | Type: To | otal/NA |
| Analysis Batch: 113433 | | | | | | | | | | | | | | | |
| | | | | Spike | | LCSD | LCS | D | | | | | %Rec | | RPD |
| Analyte | | | | Added | | Result | Qua | lifier | Unit | | D | %Rec | Limits | RPD | Limit |
| Total Suspended Solids | | | | 100 | | 105.0 | | - | mg/L | | _ | 105 | 80 - 120 | 2 | 10 |
| Lab Sample ID: 820-9272-1 DU | | | | | | | | | | | | Clie | nt Sample | ID: C. I | agoon |
| Matrix: Water | | | | | | | | | | | | | Prep ' | Type: To | otal/NA |
| Analysis Batch: 113433 | | | | | | | | | | | | | | .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | |
| Analysis Baton. Horos | Sample | Sam | ple | | | DU | DU | | | | | | | | RPD |
| Analyte | Result | Qua | lifier | | | Result | Qua | lifier | Unit | | р | | | RPD | l imit |
| Total Suspended Solids | 96.7 | Quu | | | | 94.00 | Quu | | ma/l | | _ | | | 3 | 10 |
| | 00.1 | | | | | 01.00 | | | iiig/L | | | | | | |
| Method: SM 5210B - BOD, 5-D | ау | | | | | | | | | | | | | | |
| Lab Sample ID: SCB 860-113749/2 | | | | | | | | | | | | Client S | Sample ID: | Method | Blank |
| Matrix: Water | | | | | | | | | | | | | Prep | Type: To | otal/NA |
| Analysis Batch: 113749 | | | | | | | | | | | | | | | |
| Analysis Baton. Horse | | SCB | SCB | | | | | | | | | | | | |
| Analyte | R | osult | Qualifier | | RI | | мы | Unit | | п | Р | ronarod | Δnalv | hor | Dil Fac |
| Biochemical Oxygen Demand | 0 | 9000 | quamor | 0.00 | 00020 | 0.000 | 0020 | ma/l | | | | opulou | 07/18/23 | 13.42 | 1 |
| Dicchomical Chygon Domana | 0. | 0000 | | 0.00 | 00020 | 0.000 | 0020 | iiig/E | | | | | 01710/20 | 10.12 | |
| Lab Sample ID: USB 860-113749/1 | | | | | | | | | | | | Client S | Sample ID: | Methor | l Blank |
| Matrix: Water | | | | | | | | | | | | | Pren | Type: To | otal/NA |
| Analysis Batch: 113749 | | | | | | | | | | | | | Trop | .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | |
| Analysis Baten. 110745 | | USB | USB | | | | | | | | | | | | |
| Analyte | R | esult | Qualifier | | RI | | мрі | Unit | | D | P | repared | Analy | zed | Dil Fac |
| Biochemical Oxygen Demand | 0 | 2000 | | | 00020 | 0 000 | 0020 | ma/l | | | • | | 07/18/23 | 13:39 | 1 |
| Listining oxygen Demand | 0. | _000 | | 0.00 | 0 | 0.000 | 0 | g/L | | | | | 01/10/20 | .0.00 | |
| — — | | | | | | | | | | | | | | | |
| Lab Sample ID: LCS 860-113749/3 | | | | | | | | | | CI | ient | Sample | D: Lab C | ontrol S | Sample |
| Matrix: Water | | | | | | | | | | | | | Prep [·] | Type: To | otal/NA |

| Analysis Batch: 113749 | | | | | | | | |
|---------------------------|-------|--------|-----------|------|---|------|----------|------|
| | Spike | LCS | LCS | | | | %Rec | |
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Biochemical Oxygen Demand | 198 | 222.6 | | mg/L | | 112 | 85 - 115 | |

Eurofins Lubbock

Job ID: 820-9272-1

Prep Type

Prep Type

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Matrix

Water

Matrix

Water

Matrix

Water

Water

Water

Water

Water

Method

Method

Method

SM 2540D

SM 2540D

SM 2540D

SM 2540D

SM 2540D

SM 4500 H+ B

BOD Prep

General Chemistry

Analysis Batch: 113110

Analysis Batch: 113433

Client Sample ID

Client Sample ID

Client Sample ID

Lab Control Sample

Lab Control Sample Dup

C. Lagoon

C. Lagoon

C. Lagoon

C. Lagoon

Method Blank

Prep Batch: 112890 Lab Sample ID

820-9272-1

Lab Sample ID

Lab Sample ID

MB 860-113433/1

LCS 860-113433/2

820-9272-1 DU

LCSD 860-113433/3

820-9272-1

820-9272-1

Prep Batch

Prep Batch

Prep Batch

7

Analysis Batch: 113749

| Lab Sample ID 820-9272-1 | Client Sample ID C. Lagoon | Prep Type Total/NA | Matrix Water | Method SM 5210B | Prep Batch 112890 |
|-----------------------------|-------------------------------|-----------------------|-----------------|--------------------|----------------------|
| SCB 860-113749/2 | Method Blank | Total/NA | Water | SM 5210B | 4 |
| USB 860-113749/1 | Method Blank | Total/NA | Water | SM 5210B | |
| LCS 860-113749/3 | Lab Control Sample | Total/NA | Water | SM 5210B | |

Client Sample ID: C. Lagoon Date Collected: 07/17/23 09:48 Date Received: 07/17/23 11:04

| _ | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|----------------------|------------------|----------------------|-----|--------|---------|---------|------------------|----------------------------------|----------|--------------------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Analysis | SM 2540D | | 1 | 150 mL | 1000 mL | 113433 | 07/21/23 12:21 | ОН | EET HOU |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | | | 113110 | 07/19/23 16:41 | TL | EET HOU |
| Total/NA Total/NA | Prep Analysis | BOD Prep SM 5210B | | 1 | 50 mL | 300 mL | 112890 113749 | 07/18/23 12:44 07/18/23 16:01 | HN HN | EET HOU EET HOU |

Laboratory References:

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

0 0 8

 Lab Sample ID: 820-9272-1 Matrix: Water
 3

 Prepared
 4

 or Analyzed
 Analyst
 Lab

 21/23 12:21
 OH
 EET HOU

 19/23 16:41
 TL
 EET HOU

 18/22 12:44
 UN
 EET HOU

Accreditation/Certification Summary

Laboratory: Eurofins Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Pr | ogram | Identification Number | Expiration Date |
|---|---|--|---|---------------------------|
| Texas | | ELAP | T104704215-23-50 | 06-30-24 |
| | | | | |
| The following analytes the agency does not of | are included in this report, bu fer certification. | It the laboratory is not certifi | ied by the governing authority. This list ma | ay include analytes for w |
| The following analytes the agency does not of Analysis Method | are included in this report, bu fer certification . Prep Method | it the laboratory is not certifi Matrix | ied by the governing authority. This list ma Analyte | ay include analytes for w |

Client: City of Tahoka Project/Site: C. Lagoon

| Method | Method Description | Protocol | Laboratory |
|--------------|-------------------------------|----------|------------|
| SM 2540D | Solids, Total Suspended (TSS) | SM | EET HOU |
| SM 4500 H+ B | рН | SM | EET HOU |
| SM 5210B | BOD, 5-Day | SM | EET HOU |
| BOD Prep | Preparation, BOD | SM | EET HOU |

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

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

Sample Summary

| Client: City of Tahoka | |
|-------------------------|--|
| Project/Site: C. Lagoon | |

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 820-9272-1 | C. Lagoon | Water | 07/17/23 09:48 | 07/17/23 11:04 |

| 820-9272 Chain of Custody | Work Order Comments Work Order Comments 5T/PST PRP[Brownfields RRC Superfund :: | Preservative Codes None: NO DI Water: H ₂ O None: NO DI Water: H ₂ O Cool: Cool MeOH: Me H, SO 4; H 7 NaOH: Na H, SO 4; H 7 NaOH: Na H, SO 4; H 7 NaOH: Na NaHSO NaOH: Na NaOH: Na NaOH: Na NaOH: Na NaOH: Na NaOH: Na NaOH: Na NaOH: Na NaOH: Na NaOH: Na NaOH: Na NaOH: Na NaOH: Na NaOH: Na NaOH: Na NaOH: Na NaOH: Na NaOH: Na NaOH: Na NaOH: Na NaOH: Na NaOH: Ascorbic Acid: SAPC Sample Comments NaOH NaOH: Ascorbic Acid: SAPC | Se Ag SiO ₂ Na Sr TI Sn U V Zn Hg: 1631/245.1/7470/7471 | eceived by: (Signature) Date/Time |
|--|--|--|--|---|
| ain of Custody 281) 240-4200, Dallas, TX (214) 902-0300 9) 704-5440, San Antonio, TX (210) 509-3334 5) 585-3443, Lubbock, TX (806) 794-1296 5) 392-7550, Carlsbad, NM (575) 988-3199 7 N 8, S | Program: US State of Project: Reporting: Lev | ANALYSIS REQUEST | As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K o As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U ns Xenco, its affiliates and subcontractors. It assigns standard terms and conditions as incumed by the client if such losses are due to clicumstances beyond the control rofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated. | Date/Time Relinquished by: (Signature) Re |
|)fins Environment Testing Xenco Hobs, NM (57 | April Mond Vene Bill to: (11 different) City of Japa Vene Company Name: (207 Main Box 300 Address: tabalca Tx 79373 City, State ZIP: BOb - Stel - 42-11 Email: | Turn Around Turn Around Image: Second seco | 010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA SE comment and relinquishment of samples constitutes a valid purchase order from dirent company to Eurofit will be liable only for its or samples and shall not assume any responsibility for any losses or expension than charge of \$55.00 will be applied to each project and a charge of \$55 for each sample submitted to Eurofit | y (Signature) Received by: (Signature) |
| Loc: 820 9272 | Project Manager: Company Name: Address: City, State ZIP: Phone: | Project Name: Project Number: Sampler's Name: PO #: SAMPLE RECEIPT Samples Received In Cooler Custody Seat Sample Containers: Total Containers: | Total 200.7 / 60 Circle Method(s) Notce: Signature of this do of service: Eurofins Xenco. of Eurofins Xenco. Aminim | Relingueshed by |

7/24/2023

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Chain of Custody Record



🔅 eurofins |

| Lubbock, 1X / 9424 Phone: 806-794-1296 | | • | | | Environmer | int Testing |
|---|--|---|---|--|--|--------------------|
| Client Information (Sub Contract Lab) | Sampler | Lab F Tayl | M: or Hally | Carrier Tracking No(s); | COC No: 820-7377 1 | |
| client contact Shipping/Receiving | Phone: | E-Ma Holly | ii: y Taylor@et.eurofinsus.com | State of Origin: Texas | Page: Page 1 of 1 | |
| Company Eurofins Environment Testing South Centr | | | Accreditations Required (See note): NELAP Texas | | Job.#⊱ 1820-9272-1 | ļ |
| Address: 4145 Greenbriar Dr | Due Date Requested: 7/24/2023 | | Analysis Re | quested | Preservation Codes: M Hexane | |
| City: Stafford | TAT Requested (days): | | | | B NaOH None C Zn Acetate O AsNaO2 | |
| state, Zp: TX, 77477 | | | | | E National Revealed Revea | |
| Phone: 281-240-4200(Tel) | HO# | | Γ | | F MeOH SH2SO4 G Amchlar SH2SO4 H Ascorbic Acid T TSP Dodec | cahydrate |
| Email: | # OM | | D, 5-D, 10, 5-D, 10, 5-D, | | lice V MCAA | |
| Project Name: General | Project #: 82000937 | | (М)) ОЯ qer Блеqт | | K EDTA w prr4⊷o L EDA Y Trizzma L EDA Z other(speci | (Âi |
| Site: | #MOSS | | 14_001 A_002 A_002 A_005 A_00 | | Other | |
| Sample Identification Client ID (Lab ID) | Sample Date Time | Sample Matrix Type Severate C=Comp, Ceresteold, G=Grab) Bronneau, Avour) | 2844200 H+t bH 28400 28400 28400 Celete 24,116340 Celete 24,116341 Htt 4,241 | | Special Instructions/N | ei ei |
| 0.1 agoon (820-8772-1) | 7/17/7 08:48 | Rest field Cone. | | | | |
| | Central | | | | | |
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| | | | | | | |
| Vole. Since laboratory accreditations are subject to change, Eurofins Envi vole: Since laboratory accreditations are subject to change, Eurofins Envi procreditation can be not currently for antical accreditation in the State of Organ (| ronment Testing South Central, LLC places the stated above for analysis/tests/matrix being an the central of the series of the s | e ownership of method, and alyzed, the samples must be | I E Evident compliance upon our subcor shipped back to the Eurofins Environment Test | tract laboratories. This sample shipmen g South Central, LLC laboratory or othe | t is forwarded under chain-of-custody. It instructions will be provided. Any chai | If the unges to |
| Possible Hazard Identification | | I and a management | e current to date, return the signed chain of Cus | ooy arcesung to said compliance to Euro assessed if samples are refain | inis covironment lesurig sourt central ted tonner than 1 month) | |
| Unconfirmed | | | Return To Client | Disposal By Lab | hive For Months | |
| Deliverable Requested: I II, III, IV Other (specify) | Primary Deliverable Rank: 2 | | Special Instructions/QC Requirem | ents: | | |
| Empty Kit Relinquished by | Date: | | Time: | Method of Shipment | | |
| Reinquished by: | Dave 17/7/23 17 | ZCO Company | Received by FedEX | Date/Time: | Company | |
| Relinquished by: FedEX | Date/Time: | Company | Received by: | Date/Time: 7/18/2 | 023 10 06 Company E | ሐ |
| telinquished by: | Date/Time: | Company | Received by: | Date/Time: | IR ID-HOU-338 IN | |
| Custody Seals Intact: Custody Seal No. | | | Cooler Temperature(s) °C and Other F | emarks: | 0.1.1. | |
| | | | - | Corrected | emp • • • Ver 06/08/2(| 100 |

Login Sample Receipt Checklist

Client: City of Tahoka

Login Number: 9272 List Number: 1 Creator: Triplett, Colby

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

Job Number: 820-9272-1

List Source: Eurofins Lubbock

13

<6mm (1/4").

Client: City of Tahoka

Login Number: 9272 List Number: 2 Creator: Pena, Jesiel

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

Job Number: 820-9272-1

List Source: Eurofins Houston

List Creation: 07/18/23 01:12 PM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Raymond Vega City of Tahoka PO BOX 300 Tahoka, Texas 79373 Generated 8/28/2023 5:23:41 PM

JOB DESCRIPTION

C. Lagoon

JOB NUMBER

820-9753-1

Eurofins Lubbock 6701 Aberdeen Ave. Suite 8 Lubbock TX 79424



See page two for job notes and contact information.



Eurofins Lubbock

Job Notes

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

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization

aylor

Generated 8/28/2023 5:23:41 PM 1

5

Authorized for release by Holly Taylor, Project Manager Holly.Taylor@et.eurofinsus.com (806)794-1296

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3

Qualifiers

| General Chemis | stry |
|----------------|--|
| Qualifier | Qualifier Description |
| HF | Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time. |
| U | Indicates the analyte was analyzed for but not detected. |
| 0 | |

Glossary

| пг | rarameter with a notuling time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time. | |
|----------------|---|----|
| U | Indicates the analyte was analyzed for but not detected. | 5 |
| Glossary | | 6 |
| Abbreviation | These commonly used abbreviations may or may not be present in this report. | |
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis | 7 |
| %R | Percent Recovery | |
| CFL | Contains Free Liquid | 0 |
| CFU | Colony Forming Unit | 0 |
| CNF | Contains No Free Liquid | 0 |
| DER | Duplicate Error Ratio (normalized absolute difference) | 9 |
| Dil Fac | Dilution Factor | |
| DL | Detection Limit (DoD/DOE) | |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample | |
| DLC | Decision Level Concentration (Radiochemistry) | |
| EDL | Estimated Detection Limit (Dioxin) | |
| LOD | Limit of Detection (DoD/DOE) | |
| LOQ | Limit of Quantitation (DoD/DOE) | |
| MCL | EPA recommended "Maximum Contaminant Level" | 13 |
| MDA | Minimum Detectable Activity (Radiochemistry) | |
| MDC | Minimum Detectable Concentration (Radiochemistry) | |
| MDL | Method Detection Limit | |
| ML | Minimum Level (Dioxin) | |
| MPN | Most Probable Number | |
| MQL | Method Quantitation Limit | |
| NC | Not Calculated | |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) | |
| NEG | Negative / Absent | |
| POS | Positive / Present | |
| PQL | Practical Quantitation Limit | |
| PRES | Presumptive | |
| QC | Quality Control | |
| RER | Relative Error Ratio (Radiochemistry) | |
| RL | Reporting Limit or Requested Limit (Radiochemistry) | |
| RPD | Relative Percent Difference, a measure of the relative difference between two points | |
| TEF | Toxicity Equivalent Factor (Dioxin) | |
| TEQ | Toxicity Equivalent Quotient (Dioxin) | |
| TNTC | Too Numerous To Count | |

Job ID: 820-9753-1

Laboratory: Eurofins Lubbock

Narrative

Job Narrative 820-9753-1

Receipt

The sample was received on 8/21/2023 11:54 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 14.6°C

General Chemistry

Method 2540D: Due to the matrix, the initial volume(s) used for the following sample(s) deviated from the standard procedure: total suspended solids. The reporting limits (RLs) have been adjusted proportionately.

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

Matrix: Water

Lab Sample ID: 820-9753-1

Project/Site: C. Lagoon

Client: City of Tahoka

Client Sample ID: C. Lagoon Date Collected: 08/21/23 09:05

Date Received: 08/21/23 11:54

| General Chemistry | | | | | | | | | |
|-------------------------------|--------|-----------|------|------|-----------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total Suspended Solids (SM | 82.7 | | 26.7 | 26.7 | mg/L | | | 08/28/23 08:07 | 1 |
| 2540D) | | | | | | | | | |
| рН (SM 4500 Н+ В) | 8.9 | HF | | | SU | | | 08/28/23 12:19 | 1 |
| Temperature (SM 4500 H+ B) | 18.2 | HF | | | Degrees C | | | 08/28/23 12:19 | 1 |
| Biochemical Oxygen Demand (SM | 20.9 | | 12.0 | 12.0 | mg/L | | 08/22/23 21:15 | 08/22/23 22:22 | 1 |
| 5210B) | | | | | | | | | |

Method: SM 2540D - Solids, Total Suspended (TSS)

| Lab Sample ID: MB 860-119004/1 | | | | | | | | | | | | Client S | Sample ID: | Metho | d Blank |
|--|---------|-------|-----------|-------|-------|--------|------|--------|--------|-------|-------|----------|---------------------|---|-------------------|
| Matrix: Water | | | | | | | | | | | | | Prep | Type: T | otal/NA |
| Analysis Batch: 119004 | | | | | | | | | | | | | | | |
| | _ | MB | MB | | | | | | | _ | _ | <u>.</u> | | | |
| Analyte Total Supported Solida | R | esult | Qualifier | | | | MDL | Unit | | | Р | repared | Analy | zed | Dil Fac |
| | < | 4.00 | U | | 4.00 | | 4.00 | mg/∟ | | | | | 08/28/23 | 08:07 | .1 |
| Lab Sample ID: LCS 860-119004/2 Matrix: Water | | | | | | | | | | CI | lient | Sample | e ID: Lab C Prep | ontrol Type: T | Sample otal/NA |
| Analysis Batch: 119004 | | | | | | | | | | | | | | | |
| | | | | Spike | | LCS | LCS | | | | | | %Rec | | |
| Analyte | | | | Added | | Result | Qua | lifier | Unit | | D | %Rec | Limits | | |
| Total Suspended Solids | | | | 100 | | 92.00 | | | mg/L | | | 92 | 80 - 120 | | |
| Lab Sample ID: I CSD 860-119004/3 | 2 | | | | | | | | C | liont | Sam | | Lab Contr | ni Sami | |
| Matrix: Water | · | | | | | | | | | | oun | ipic ib. | Pren | Type: T | otal/NA |
| Analysis Batch: 119004 | | | | | | | | | | | | | i iop | .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | otunita |
| | | | | Spike | | LCSD | LCS | D | | | | | %Rec | | RPD |
| Analyte | | | | Added | | Result | Qua | lifier | Unit | | D | %Rec | Limits | RPD | Limit |
| Total Suspended Solids | | | | 100 | | 89.00 | | | mg/L | | _ | 89 | 80 - 120 | 3 | 10 |
| Method: SM 4500 H+ B - pH | | | | | | | | | | | | | | | |
| Lah Sample ID: 820-9753-1 DI | | | | | | | | | | | | Clie | nt Sample | | adoon |
| Matrix: Water | | | | | | | | | | | | one | Prep | Type: T | otal/NA |
| Analysis Batch: 119103 | | | | | | | | | | | | | | .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | |
| ····· · | Sample | Sam | ple | | | DU | DU | | | | | | | | RPD |
| Analyte | Result | Qua | lifier | | | Result | Qua | lifier | Unit | | D | | | RPD | Limit |
| рН | 8.9 | HF | | | | 8.9 | | | SU | | _ | | | 0.1 | 20 |
| Temperature | 18.2 | HF | | | | 18.2 | | | Degree | es C | | | | 0 | 20 |
| Method: SM 5210B - BOD, 5-D | ay | | | | | | | | | | | | | | |
| Lab Sample ID: SCB 860-118984/2 | | | | | | | | | | | | Client 9 | Sample ID: | Motho | d Blank |
| Matrix: Water | | | | | | | | | | | | onent | Pren | Type: T | otal/NA |
| Analysis Batch: 118984 | | | | | | | | | | | | | | .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | |
| ····· · | | SCB | SCB | | | | | | | | | | | | |
| Analyte | R | esult | Qualifier | | RL | | MDL | Unit | | D | Р | repared | Analy | zed | Dil Fac |
| Biochemical Oxygen Demand | 0. | 9900 | | 0.00 | 00020 | 0.000 | 0020 | mg/L | | | | | 08/22/23 | 21:31 | 1 |
| | | | | | 0 | | 0 | | | | | | | | |
| Lab Sample ID: USB 860-118984/1 | | | | | | | | | | | | Client S | Sample ID: | Metho | d Blank |
| Matrix: Water | | | | | | | | | | | | | Prep | Type: T | otal/NA |
| Analysis Batch: 118984 | | | | | | | | | | | | | | | |
| | | USB | USB | | | | | | | | | | | | |
| Analyte | R | esult | Qualifier | | RL | | MDL | Unit | | D | Р | repared | Analy | zed | Dil Fac |
| Biochemical Oxygen Demand | <0.0000 | 0200 | U | 0.00 | 00020 | 0.000 | 0020 | mg/L | | | | | 08/22/23 | 21:29 | 1 |
| | | | | | 0 | | 0 | | | | | | | | |
| Lab Sample ID: LCS 860-118984/3 | | | | | | | | | | С | lient | Sample | D. I ah C | ontrol | Sample |
| Matrix: Water | | | | | | | | | | | | Sample | Pren | Type: T | otal/NA |
| Analysis Batch: 118984 | | | | | | | | | | | | | | ,, | |
| | | | | Spike | | LCS | LCS | | | | | | %Rec | | |
| Analyte | | | | Added | | Result | Qua | lifier | Unit | | D | %Rec | Limits | | |
| Biochemical Oxygen Demand | | | | 198 | | 191.4 | | | mg/L | | | 97 | 85 - 115 | | |

5 6

2 3 4 5 6 7 8 9 10 11 12 13

General Chemistry

Prep Batch: 118383

| Lab Sample ID | Client Sample ID | Ргер Туре | Matrix | Method | Prep Batch |
|-----------------------|------------------------|-----------|--------|--------------|------------|
| 820-9753-1 | C. Lagoon | Total/NA | Water | BOD Prep | |
| Analysis Batch: 11898 | 34 | | | | |
| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
| 820-9753-1 | C. Lagoon | Total/NA | Water | SM 5210B | 118383 |
| SCB 860-118984/2 | Method Blank | Total/NA | Water | SM 5210B | |
| USB 860-118984/1 | Method Blank | Total/NA | Water | SM 5210B | |
| LCS 860-118984/3 | Lab Control Sample | Total/NA | Water | SM 5210B | |
| Analysis Batch: 11900 |)4 Client Sample ID | Pren Type | Matrix | Method | Prep Batch |
| 820-9753-1 | C. Lagoon | Total/NA | Water | SM 2540D | |
| MB 860-119004/1 | Method Blank | Total/NA | Water | SM 2540D | |
| LCS 860-119004/2 | Lab Control Sample | Total/NA | Water | SM 2540D | |
| LCSD 860-119004/3 | Lab Control Sample Dup | Total/NA | Water | SM 2540D | |
| Analysis Batch: 11910 |)3 | | | | |
| Lab Sample ID | Client Sample ID | Ргер Туре | Matrix | Method | Prep Batch |
| 820-9753-1 | C. Lagoon | Total/NA | Water | SM 4500 H+ B | |
| 820-9753-1 DU | C. Lagoon | Total/NA | Water | SM 4500 H+ B | |

Client Sample ID: C. Lagoon Date Collected: 08/21/23 09:05 Date Received: 08/21/23 11:54

| _ | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|--------------|-----|--------|---------|---------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Analysis | SM 2540D | | 1 | 150 mL | 1000 mL | 119004 | 08/28/23 08:07 | ОН | EET HOU |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | | | 119103 | 08/28/23 12:19 | TL | EET HOU |
| Total/NA | Prep | BOD Prep | | | | | 118383 | 08/22/23 21:15 | ALL | EET HOU |
| Total/NA | Analysis | SM 5210B | | 1 | 50 mL | 300 mL | 118984 | 08/22/23 22:22 | ALL | EET HOU |

Laboratory References:

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

Lab Sample ID: 820-9753-1 Matrix: Water

5 6

Accreditation/Certification Summary

Laboratory: Eurofins Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Pr | ogram | Identification Number | Expiration Date |
|---|---|---|---|----------------------------|
| Texas | N | ELAP | T104704215-23-51 | 06-30-24 |
| | | | | |
| The following analytes the agency does not of | are included in this report, bu fer certification. | it the laboratory is not certif | ied by the governing authority. This list ma | ay include analytes for wh |
| The following analytes the agency does not of Analysis Method | are included in this report, bu fer certification . Prep Method | It the laboratory is not certif Matrix | ied by the governing authority. This list ma Analyte | ay include analytes for wh |

Client: City of Tahoka Project/Site: C. Lagoon

| Method | Method Description | Protocol | Laboratory |
|--------------|-------------------------------|----------|------------|
| SM 2540D | Solids, Total Suspended (TSS) | SM | EET HOU |
| SM 4500 H+ B | pH | SM | EET HOU |
| SM 5210B | BOD, 5-Day | SM | EET HOU |
| BOD Prep | Preparation, BOD | SM | EET HOU |

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

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

Sample Summary

| Client: City of Tahoka | |
|-------------------------|--|
| Project/Site: C. Lagoon | |

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 820-9753-1 | C. Lagoon | Water | 08/21/23 09:05 | 08/21/23 11:54 |

| 9753 ofins | Environment Te Xenco | sting | Mid EL | ouston, TX and, TX (4: Paso, TX (5 | Tain of (281) 240-4200, (281) 240-4200, (281) 240-5440, 5al (15) 585-3443, Lu | Custody Dallas, TX (214) 902-0300 A Antonio, TX (210) 509-333 Jubbock, TX (806) 794-1296 | 24 | 820-9753 Ch | ain of Custody | |
|--|--|--|---|--|--|--|---|---|---|----------------------------------|
| | | | Н | bbs, NM (| 75) 392-7550, C | arlsbad, NM (575) 988-3199 | PHB | . S www.xenco.c | com Page | of |
| Project Manager: Ray | movel Vega | | Bill to: (if diffe | rent) | | | | Work Ord | er Comments | |
| Company Name: U.Y.Y | Al a har | 007 | Company Na Addrace: | ne: | Y | 0.8.0 | Progra | im: USI/PSIPKP of Project: | Brownneids | |
| City, State ZIP: | 7. 79.3 | 000 | City, State ZIF | |) | ave - | Report | ting: Level II 🗌 Level III 🗌 | | TRRP Level IV |
| Phone: BucSte | 1-421 | Email: | | | | | Delive | rables: EDD | | ther: |
| Project Name: | - | Turn | Around | | | AN | ALYSIS REQUEST | | Preser | vative Codes |
| Project Number: | | Routine | Rush | Pres. Code | | | | | None: NO | DI Water: H ₂ O |
| Project Location: | | Due Date: | | | | | | | Cool: Cool | MeOH: Me |
| Sampler's Name: | | TAT starts the the tab. if rec | day received by eived by 4:30pm | | | | | | HCL: HC | NH 3: UN HO |
| | | | | sua | | | | | | |
| SAMPLE KECEIPI Te | mp Blank: Yes No | Wet Ice: | | ameto | | | | | NaHSO 4: NP | ABIS |
| Cooler Custody Seals: Yes | No (1) Correction | Factor: | 1.0- | bara | | | | | Na ₂ S ₂ O ₃ : N | aSO 3 |
| Sample Custody Seals: Yes | No 🕅 Temperatu | rre Reading: | 14.7 | | | | | | Zn Acetate+ | -NaOH: Zn |
| Total Containers: | L Corrected | Temperature: | 9.41 | | J | ζ | | | NaOH+Asco | Irbic Acid: SAPC |
| Sample Identification | Matrix Date Sampled | Time Sampled | Depth Gra | b/ #of np Cont | U d G | 5- | | | Samp | le Comments |
| C Lacon | 5/11/2 | 9.05 a | 1 | 2 | 2 | 7 | | | | |
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| | | | | _ | | | | | _ | |
| | | | | | | | | | | |
| Total 200.7 / 6010 200 Circle Method(s) and Metal(: | .8 / 6020: Ε s) to be analyzed | BRCRA 13PF TCLP/S | M Texas 1 PLP 6010 : 8 | I AI SŁ | o As Ba Be Sb As Ba Be | B Cd Ca Cr Co Cu e Cd Cr Co Cu Pb | u Fe Pb Mg Mn M Mn Mo Ni Se Ag T | o Ni K Se Ag SiO ₂ Na I U Hg: 1631 / 24 | a Sr Tl Sn U V 45.1 / 7470 / 74 | ' Zn (71 |
| Notice: Signature of this document and relind of service. Eurofins Xenco will be liable only fr of Eurofins Xenco. A minimum charge of \$85. | utshment of samples constitutes a or the cost of samples and shall nc 00 will be applied to each project | a valid purchase ord of assume any respo and a charge of \$5 | ler from client com insibility for any lo: for each sample su | pany to Euro ses or exper bmitted to I | fins Xenco, its affil ises Incurred by th curofins Xenco, bu | lates and subcontractors. It as: e client if such losses are due to t not analyzed. These terms will | signs standard terms and cond o circumstances beyond the co I be enforced unless previously | ttons htroi negotlated. | | |
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8/28/2023

<mark>12</mark>
| Eurofins Lubbock | | | | | | | | | ž | ç | | | | |
|--|---|-----------------------------------|-----------------|--|---|--------------------|------------------------|--------------------|-----------------------|----------------------------|--------------------------|------------|---|---|
| 6701 Aberdeen Ave. Suite 8 Lubbock, TX 79424 Phone: 806-794-1996 | 0 | hain o | f Cust | ody R | ecord | _ | | | 1 53 | <u>к.</u> , | | | 🔅 eurofins | Environment Testing |
| Client Information (Sub Contract Lab) | Sampler | | | Lab Pi Taylo | r Holly | | | | | anier Trac | king No(s | | COC No: 820-7670.1 | |
| Client Contact: Shipping/Receiving | Phone: | | | E-Mail Holly | Taylor@e | Leurofi | nsus.cor | 3 | 10 | tate of Orig | jin: | | Page: Page 1 of 1 | |
| Company: Eurofins Environment Testing South Centr | | | | | Accreditation | is Requin Texas | ed (See no | rte): | | ĺ | | | Job #: 820-9753-1 | |
| Address: 4145 Greenbriar Dr | Due Date Requeste 8/28/2023 | ÷ | | | | | ₽ | alvsis | Requ | iested | | ĺ | Preservation Codes | 1 Цакалы |
| City. Stafford | TAT Requested (da | (s) | | | | | | | | | | | A HCL B NaOH C Zr Acetate | AsNaO2 |
| State, Zp: TX, 77477 | | | | | | | | | | | | | E NaHSO4 | Na204S Na2SO3 Na2S2O3 |
| Phone: 281-240-4200(Tel) | PO 井 | | | |)) Jay | | | | | . <u> </u> | | | G Amchlor H Ascorbic Acid | H2SO4 TSP Dodecahydrate |
| Emali: | WO 株 | | | | 56 ft 18() 8(-)))D, 5-D | | ture | | | | | | J Di Water | MCAA MCAA |
| Project Name: General | Project #: 82000937 | | | | o(Milo Looni rep BC | | mperi | | | | <u> </u> | | | Trizma other (specify) |
| Site: | SSOW#: | | | | tumit Etec(N/ BOD_P | | and T | | | | | | Other | |
| | | Sample | Sample Type | Matrix (^{Wu} waiar, ^{Saa} olid, | क्षाः(कित्यां (कर्तान)/(13)/ 210B_Calc/ | | 500_H+/ pH | | | | | | លមាតត្រឆា | ļ |
| Sample Identification Client ID (Lab ID) | Sample Date | Time | G=grab) p | T=Taque, A=Air) | ≤it,ii ≚{[aiti SM | 254 | SM | | | | | | Special Inst | ructions/Note: |
| C. Lagoon (820-9753-1) | 8/21/23 | 09:05 | | Water | × | × | × | | | | | | 1(0) | |
| | | | | | - | | | | | | _ | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | $\left - \right $ | | | $\left - \right $ | | | |
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| | | | | | -+ | | | | | | - | -+ | | R ID HOU-338 |
| | | | | | | | | | | | _ | | C/F:-0.3 | 5 |
| Note: Since laboratory accreditations are subject to change, Eurofins Environment laboratory does not currently maintain accreditation in the State of Origin listed ab | Testing South Centra ove for analysis/tests/ | i, LLC places the natrix being an | alyzed, the sai | noles must be | /te & accredi | tation col | npliance u Johns En | ironment | ubcontra Testino (| ct laborator South Cent | ies. This rai. LLC is | sampie st | hipment is forwarded under chair or other instructions will be provi | n-of-custody. If the fied. Any changes to |
| accreditation status should be brought to Eurofins Environment Testing South Cer Possible Hazard Identification | htral, LLC attention im | nediately. If all | requested ac | reditations are | current to da | e Dispo | the signe | d Chain c | f Custody | attesting t | o said co f samp | npliance t | to Eurofins Environment Testing retained longer than 1 m | South Central, LLC. |
| Unconfirmed | | | | | | Return | To Clien | | [] 2 | sposal B | r Lab | n | Archive For | _ Months |
| Deliverable Requested: 1, 11 III, 1V Other (specify) | Primary Delivera | ble Rank: 2 | | | Specia | l Instru | tions/Q | C Requ | rement | S. | | | | |
| Empty Kit Relinquished by | | Date: | | | Time; | | | | | Metho | d of Ship | nent | | |
| Relinquished by: | Date/Time: | | | Company | Rec | eived by: | | | | | Dat | vTime: | | Company |
| Relinquished by | Date/Time: | | | Jompany | Rec | eived by | | | 5 | | Dat | Mime: 8 | 3/22/2023 9:23 | Company EX |
| Relinquished by: | Date/Time: | | | Company | Rec | eived by | 1 | | | كمسلح | 2 | e/Time: | | Company |
| Custody Seals Intact ∆ Yes ∆ No | | | | | - Co | vler Temp | ¢rature(s) | "Cand O | ther Rem | arks: | | Í | | |
| | | | | | | | | | | | | | | |

Ver: 06/08/2021

8/28/2023

1

5

Login Sample Receipt Checklist

Client: City of Tahoka

Login Number: 9753 List Number: 1 Creator: Triplett, Colby

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

Job Number: 820-9753-1

List Source: Eurofins Lubbock

<6mm (1/4").

Client: City of Tahoka

Login Number: 9753 List Number: 2 Creator: Baker, Jeremiah

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

Job Number: 820-9753-1

List Source: Eurofins Houston

List Creation: 08/22/23 11:28 AM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Raymond Vega City of Tahoka PO BOX 300 Tahoka, Texas 79373 Generated 9/29/2023 11:13:41 AM

JOB DESCRIPTION

C. Lagoon

5 6

JOB NUMBER

820-10198-1

Eurofins Lubbock 6701 Aberdeen Ave. Suite 8 Lubbock TX 79424



See page two for job notes and contact information.



Eurofins Lubbock

Job Notes

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

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization

aylor

Generated 9/29/2023 11:13:41 AM

1

Authorized for release by Holly Taylor, Project Manager Holly.Taylor@et.eurofinsus.com (806)794-1296

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| | |

3

5

Qualifiers

| General Chemi | istry |
|----------------------|--|
| Qualifier | Qualifier Description |
| HF | Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time. |
| U | Indicates the analyte was analyzed for but not detected. |
| HF U | Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time. Indicates the analyte was analyzed for but not detected. |

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|---|
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

Job ID: 820-10198-1

Laboratory: Eurofins Lubbock

Narrative

Job Narrative 820-10198-1

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

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

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

Receipt

The sample was received on 9/21/2023 11:15 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 19.0°C

General Chemistry

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

Project/Site: C. Lagoon

Client: City of Tahoka

Client Sample ID: C. Lagoon

Date Collected: 09/21/23 10:30 Date Received: 09/21/23 11:15

Lab Sample ID: 820-10198-1 Matrix: Water

Watrix. Water

5

| General Chemistry | | | | | | | | | |
|--------------------------------------|--------|-----------|------|------|-----------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total Suspended Solids (SM | 76.0 | | 40.0 | 40.0 | mg/L | | | 09/27/23 09:24 | 1 |
| 2540D) | | | | | | | | | |
| pH (SM 4500 H+ B) | 8.8 | HF | | | SU | | | 09/25/23 13:34 | 1 |
| Temperature (SM 4500 H+ B) | 19.1 | HF | | | Degrees C | | | 09/25/23 13:34 | 1 |
| Biochemical Oxygen Demand (SM 5210B) | 23.7 | | 12.0 | 12.0 | mg/L | | 09/22/23 13:26 | 09/22/23 15:14 | 1 |

Eurofins Lubbock

Method: SM 2540D - Solids, Total Suspended (TSS)

| Lab Sample ID: MB 860-123641/1 | | | | | | | | | | Client S | Sample ID: Me | thod | Blank |
|--|------------|-----------|-----------|------|--------|--------|------|-------|----------|----------|---------------------------|-----------------|------------------|
| Matrix: Water | | | | | | | | | | | Prep Tvr | oe: To | tal/NA |
| Analysis Batch: 123641 | | | | | | | | | | | | | |
| · · · · · · · · · · · · · · · · · · · | МВ | МВ | | | | | | | | | | | |
| Analyte | Result | Qualifier | RL | | MDL | Unit | | D | Р | repared | Analyzed | | Dil Fac |
| Total Suspended Solids | <4.00 | U | 4.00 | | 4.00 | mg/L | | | | • | 09/27/23 09: | 24 | 1 |
| | | | | | | Ū | | | | | | | |
| Lab Sample ID: LCS 860-123641/2 | | | | | | | | CI | lient | Sample | ID: Lab Con | trol S | ample |
| Matrix: Water | | | | | | | | | | | Prep Typ | be: To | tal/NA |
| Analysis Batch: 123641 | | | | | | | | | | | | | |
| | | | Spike | LC | S LCS | 6 | | | | | %Rec | | |
| Analyte | | | Added | Resu | lt Qua | lifier | Unit | | D | %Rec | Limits | | |
| Total Suspended Solids | | | 100 | 105. | 0 | | mg/L | | _ | 105 | 80 - 120 | | |
| | | | | | | | | | | | | | |
| Lab Sample ID: LCSD 860-123641/3 | 3 | | | | | | С | lient | Sam | ple ID: | Lab Control S | Samp | le Dup |
| Matrix: Water | | | | | | | | | | | Prep Typ | be: To | tal/NA |
| Analysis Batch: 123641 | | | | | | | | | | | | | |
| | | | Spike | LCS | D LCS | 5D | | | | | %Rec | | RPD |
| Analyte | | | Added | Resu | It Qua | lifier | Unit | | D | %Rec | Limits | RPD | Limit |
| Total Suspended Solids | | | 100 | 103. | 0 | | mg/L | | | 103 | 80 - 120 | 2 | 10 |
| Lab Sample ID: SCB 860-123687/2 Matrix: Water | ay | | | | | | | | | Client S | Sample ID: Me Prep Typ | ethod be: To | Blank otal/NA |
| Analysis Batch: 123687 | | | | | | | | | | | | | |
| | SCB | SCB | | | | | | | | | | | |
| Analyte | Result | Qualifier | RL | : | MDL | Unit | | D | Р | repared | Analyzed | | Dil Fac |
| Biochemical Oxygen Demand | 0.8700 | | 0.0000020 | 0.00 | 000020 | mg/L | | | | | 09/22/23 14: | 14 | 1 |
| | | | C | | 0 | | | | | | | | |
| Lab Sample ID: USB 860-123687/1 | | | | | | | | | | Client S | Sample ID: Me | thod | Blank |
| Matrix: Water | | | | | | | | | | | Prep Tvr | e: To | tal/NA |
| Analysis Batch: 123687 | | | | | | | | | | | | | |
| · · · · · · · · · · · · · · · · · · · | USB | USB | | | | | | | | | | | |
| Analyte | Result | Qualifier | RL | | MDL | Unit | | D | Р | repared | Analyzed | | Dil Fac |
| Biochemical Oxygen Demand | <0.0000200 | U | 0.0000020 | 0.0 | 000020 | mg/L | | | | • | 09/22/23 14: | 11 | 1 |
| | | | C | | 0 | | | | | | | | |
| Γ | | | | | | | | _ | | | | | _ |
| Lab Sample ID: LCS 860-123687/3 | | | | | | | | CI | lient | Sample | D: Lab Con | trol S | ample |
| Matrix: Water | | | | | | | | | | | Prep Typ | be: To | tal/NA |
| Analysis Batch: 123687 | | | | | | | | | | | | | |
| | | | Spike | LC | S LCS | 5 | | | _ | | %Rec | | |
| Analyte | | | Added | Resu | It Qua | lifier | Unit | | <u>D</u> | %Rec | Limits | | |
| Biochemical Oxygen Demand | | | 198 | 169. | 4 | | mg/L | | | 86 | 85 - 115 | | |

Biochemical Oxygen Demand

General Chemistry

Prep Batch: 123014

LCS 860-123687/3

Lab Control Sample

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------------|------------------------|-----------|--------|--------------|------------|
| 820-10198-1 | C. Lagoon | Total/NA | Water | BOD Prep | |
| Analysis Batch: 12328 | 35 | | | | |
| Lab Sample ID | Client Sample ID | Ргер Туре | Matrix | Method | Prep Batch |
| 820-10198-1 | C. Lagoon | Total/NA | Water | SM 4500 H+ B | |
| Analysis Batch: 12364 | 11 | | | | |
| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
| 820-10198-1 | C. Lagoon | Total/NA | Water | SM 2540D | |
| MB 860-123641/1 | Method Blank | Total/NA | Water | SM 2540D | |
| LCS 860-123641/2 | Lab Control Sample | Total/NA | Water | SM 2540D | |
| LCSD 860-123641/3 | Lab Control Sample Dup | Total/NA | Water | SM 2540D | |
| Analysis Batch: 12368 | 37 | | | | |
| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
| 820-10198-1 | C. Lagoon | Total/NA | Water | SM 5210B | 123014 |
| SCB 860-123687/2 | Method Blank | Total/NA | Water | SM 5210B | |
| USB 860-123687/1 | Method Blank | Total/NA | Water | SM 5210B | |

Total/NA

Water

SM 5210B

Client Sample ID: C. Lagoon Date Collected: 09/21/23 10:30 Date Received: 09/21/23 11:15

| _ | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|--------------|-----|--------|---------|---------|--------|----------------|---------|---------|
| Ргер Туре | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Analysis | SM 2540D | | 1 | 100 mL | 1000 mL | 123641 | 09/27/23 09:24 | SA | EET HOU |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | | | 123285 | 09/25/23 13:34 | KEG | EET HOU |
| Total/NA | Prep | BOD Prep | | | | | 123014 | 09/22/23 13:26 | ALL | EET HOU |
| Total/NA | Analysis | SM 5210B | | 1 | 50 mL | 300 mL | 123687 | 09/22/23 15:14 | HN | EET HOU |

Laboratory References:

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

Lab Sample ID: 820-10198-1 Matrix: Water 5 6

Eurofins Lubbock

Accreditation/Certification Summary

Laboratory: Eurofins Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | F | rogram | Identification Number | Expiration Date |
|---|--|--|---|-------------------------|
| Texas | ١ | IELAP | T104704215-23-53 | 06-30-24 |
| | | | | |
| The following analytes the agency does not of | are included in this report, l er certification. | out the laboratory is not certif | ied by the governing authority. This list ma | ay include analytes for |
| The following analytes the agency does not of Analysis Method | are included in this report, t fer certification . Prep Method | but the laboratory is not certif Matrix | ied by the governing authority. This list ma Analyte | ay include analytes for |

Eurofins Lubbock

Client: City of Tahoka Project/Site: C. Lagoon

| Method | Method Description | Protocol | Laboratory |
|--------------|-------------------------------|----------|------------|
| SM 2540D | Solids, Total Suspended (TSS) | SM | EET HOU |
| SM 4500 H+ B | pH | SM | EET HOU |
| SM 5210B | BOD, 5-Day | SM | EET HOU |
| BOD Prep | Preparation, BOD | SM | EET HOU |

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

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

Sample Summary

| | | | - | - | |
|------------|----------------|--|---|---|--|
| Client: Ci | ty of Tahoka | | | | |
| Project/S | ite: C. Lagoon | | | | |

| | | Maderia | O alla atta d | Desciond |
|---------------|------------------|---------|----------------|----------------|
| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
| 820-10198-1 | C. Lagoon | Water | 09/21/23 10:30 | 09/21/23 11:15 |

Superfund Reporting: Level II Cevel II PST/UST TRRP Level IV DI Water: H₂O Revised Date: 08/25/2020 Rev. 2020.2 MeOH: Me HNO 3: HN NaOH: Na Sample Comments Preservative Codes NaOH+Ascorbic Acid: SAPC Date/Time ō Zn Acetate+NaOH: Zr Program: UST/PST PRP Brownfields RRC Na 25 203: NaSO 3 8RCRA 13PPM Texas 11 AI Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr TI Sn U V Zn Other: NaHSO 4: NABIS Hg: 1631 / 245.1 / 7470 / 747⁻ 820-10198 Chain of Custody None: NO H₂S0 4: H₂ H₃PO 4: HP Page. Cool: Cool Work Order Comments HCL: HC ADaPT Received by: (Signature) www.xenco.com EDD State of Project: of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated. Deliverables: TCLP/SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of estimates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control nouscon, 1 x (281) 240-420, Dallas, 1 x (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 PK 8. S ANALYSIS REQUEST Relinquished by: (Signature) Y Veyer la hole or a wind string at Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Chain of Custody 11:15 00 251 7 42 Date/Time 0 τ 1/21/23 # of Cont Pres. Parameters 5 Bill to: (if different) Company Name: Comp Grab/ 12-4 City, State ZIP: TAT starts the day received by the lab, if received by 4:30pm (Yes) No ŝ 10 Address: Rush Depth Turn Around Receised by: (Signature) Email: Routine 10 30 an Corrected Temperature: Sampled Due Date: Wet Ice: Time 156,300 **Temperature Reading:** Environment Testing Correction Factor: Thermometer ID: abbe 79372 Veg a 9-21-23 Sampled Yes No Date Circle Method(s) and Metal(s) to be analyzed 8 1-421 Matrix n w h Xenco MOMPO Temp Blank: 200.8 / 6020: 10 Yes JNo 806-5W Yes No Ta haka ĉ Yes Relinquished by: (Signature) fins 20 Sample Identification 1. 6 4900 A Samples Received Intact: Total 200.7 / 6010 Cooler Custody Seals: Sample Custody Seals SAMPLE RECEIPT 10198 Total Containers: Project Manager: Loc: 820 Company Name: Project Number Project Location: Sampler's Name: City, State ZIP: Project Name: "ma Address: Phone: :# Od

5 6 7

<mark>12</mark> 13

Login Sample Receipt Checklist

Client: City of Tahoka

Login Number: 10198 List Number: 1 Creator: Triplett, Colby

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

Job Number: 820-10198-1

List Source: Eurofins Lubbock

<6mm (1/4").

Client: City of Tahoka

Login Number: 10198 List Number: 2 Creator: Baker, Jeremiah

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

List Source: Eurofins Houston

List Creation: 09/22/23 10:20 AM

<6mm (1/4").



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Raymond Vega City of Tahoka PO BOX 300 Tahoka, Texas 79373 Generated 10/25/2023 6:44:17 PM

JOB DESCRIPTION

C Lagoon

5 6

JOB NUMBER

820-10592-1

Eurofins Lubbock 6701 Aberdeen Ave. Suite 8 Lubbock TX 79424





Eurofins Lubbock

Job Notes

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

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization

aylor

Generated 10/25/2023 6:44:17 PM

Authorized for release by Holly Taylor, Project Manager Holly.Taylor@et.eurofinsus.com (806)794-1296

Table of Contents

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| | |

3

Qualifiers

| General Chemistry | | | | | | | |
|-------------------|--|--|--|--|--|--|--|
| Qualifier | Qualifier Description | | | | | | |
| HF | Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time. | | | | | | |
| U | Indicates the analyte was analyzed for but not detected. | | | | | | |

Glossary

| пг | rarameter with a notuling time of 15 minutes. Test performed by laboratory at cheft's request. Sample was analyzed outside of hold time. | |
|----------------|--|----|
| U | Indicates the analyte was analyzed for but not detected. | 5 |
| Glossary | | 6 |
| Abbreviation | These commonly used abbreviations may or may not be present in this report. | |
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis | 7 |
| %R | Percent Recovery | |
| CFL | Contains Free Liquid | 0 |
| CFU | Colony Forming Unit | Ο |
| CNF | Contains No Free Liquid | |
| DER | Duplicate Error Ratio (normalized absolute difference) | 9 |
| Dil Fac | Dilution Factor | |
| DL | Detection Limit (DoD/DOE) | |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample | |
| DLC | Decision Level Concentration (Radiochemistry) | |
| EDL | Estimated Detection Limit (Dioxin) | |
| LOD | Limit of Detection (DoD/DOE) | |
| LOQ | Limit of Quantitation (DoD/DOE) | |
| MCL | EPA recommended "Maximum Contaminant Level" | 13 |
| MDA | Minimum Detectable Activity (Radiochemistry) | |
| MDC | Minimum Detectable Concentration (Radiochemistry) | |
| MDL | Method Detection Limit | |
| ML | Minimum Level (Dioxin) | |
| MPN | Most Probable Number | |
| MQL | Method Quantitation Limit | |
| NC | Not Calculated | |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) | |
| NEG | Negative / Absent | |
| POS | Positive / Present | |
| PQL | Practical Quantitation Limit | |
| PRES | Presumptive | |
| QC | Quality Control | |
| RER | Relative Error Ratio (Radiochemistry) | |
| RL | Reporting Limit or Requested Limit (Radiochemistry) | |
| RPD | Relative Percent Difference, a measure of the relative difference between two points | |
| TEF | Toxicity Equivalent Factor (Dioxin) | |
| TEQ | Toxicity Equivalent Quotient (Dioxin) | |
| TNTC | Too Numerous To Count | |
| | | |

Job ID: 820-10592-1

Laboratory: Eurofins Lubbock

Narrative

Job Narrative 820-10592-1

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

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

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

Receipt

The sample was received on 10/19/2023 10:35 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 10.2°C

General Chemistry

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

Client: City of Tahoka Project/Site: C Lagoon

Client Sample ID: C Lagoon Date Collected: 10/19/23 08:57

Date Received: 10/19/23 10:35

Lab Sample ID: 820-10592-1 Matrix: Water

watrix: water

5

| General Chemistry | | | | | | | | | |
|--|--------|-----------|------|------|-----------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total Suspended Solids (SM 2540D) | 82.0 | | 20.0 | 20.0 | mg/L | | | 10/23/23 10:13 | 1 |
| pH (SM 4500 H+ B) | 8.5 | HF | | | SU | | | 10/20/23 16:53 | 1 |
| Temperature (SM 4500 H+ B) | 14.1 | HF | | | Degrees C | | | 10/20/23 16:53 | 1 |
| Biochemical Oxygen Demand (SM _5210B) | 31.5 | | 12.0 | 12.0 | mg/L | | 10/20/23 16:34 | 10/20/23 17:03 | 1 |

Eurofins Lubbock

Method: SM 2540D - Solids, Total Suspended (TSS)

| Lab Sample ID: MB 860-127508/1 | | | | | | | | | | | | Client S | ample ID: | Method | Blank |
|---------------------------------|--------|-------|-----------|-------|-------|--------|-------|--------|--------|------------|------|-----------------|------------|-------------|---------|
| Matrix: Water | | | | | | | | | | | | | Prep | Туре: То | otal/NA |
| Analysis Batch: 127508 | | | | | | | | | | | | | | | |
| | | МВ | MB | | | | | | | | | | | | |
| Analyte | R | esult | Qualifier | | RL | | MDL | Unit | | <u>D</u> . | P | repared | Analy | zed | Dil Fac |
| Total Suspended Solids | < | <4.00 | U | | 4.00 | | 4.00 | mg/L | | | | | 10/23/23 | 10:13 | 1 |
| | | | | | | | | | | CI | ient | Sample | ID: Lab C | ontrol S | Sample |
| Matrix: Water | | | | | | | | | | | | | Prep | Type: To | otal/NA |
| Analysis Batch: 127508 | | | | | | | | | | | | | | | |
| | | | | Spike | | LCS | LCS | | | | | | %Rec | | |
| Analyte | | | | Added | | Result | Qua | lifier | Unit | | D | %Rec | Limits | | |
| Total Suspended Solids | | | | 100 | | 97.00 | | | ma/l | | - | 97 | 80 120 | | |
| | | | | 100 | | 07.00 | | | iiig/E | | | 01 | 001120 | | |
| Lab Sample ID: LCSD 860-127508/ | 3 | | | | | | | | С | lient : | Sam | ple ID: I | Lab Contro | ol Samp | ole Dup |
| Matrix: Water | | | | | | | | | | | | - - | Prep | Type: To | otal/NA |
| Analysis Batch: 127508 | | | | | | | | | | | | | | | |
| | | | | Spike | | LCSD | LCS | D | | | | | %Rec | | RPD |
| Analyte | | | | Added | | Result | Qua | lifier | Unit | | D | %Rec | Limits | RPD | Limit |
| Total Suspended Solids | | | | 100 | | 100.0 | | | mg/L | | _ | 100 | 80 - 120 | 3 | 10 |
| _ _ | | | | | | | | | | | | | | | |
| Lab Sample ID: 820-10592-1 DU | | | | | | | | | | | | Clie | ent Sample | D: CL | agoon |
| Matrix: Water | | | | | | | | | | | | | Prep | Type: To | otal/NA |
| Analysis Batch: 127508 | | | | | | | | | | | | | | | |
| | Sample | Sam | ple | | | DU | DU | | | | | | | | RPD |
| Analyte | Result | Qua | lifier | | | Result | Qua | lifier | Unit | | D | | | RPD | Limit |
| Total Suspended Solids | 82.0 | | | | | 85.50 | | | mg/L | | _ | | | 4 | 10 |
| Method: SM 5210B - BOD 5-D | av | | | | | | | | | | | | | | |
| | ay | | | | | | | | | | | | | | |
| Lab Sample ID: SCB 860-128041/2 | | | | | | | | | | | | Client S | ample ID: | Method | d Blank |
| Matrix: Water | | | | | | | | | | | | | Prep | Type: To | otal/NA |
| Analysis Batch: 128041 | | | | | | | | | | | | | | | |
| ····· , ··· ····· | | SCB | SCB | | | | | | | | | | | | |
| Analyte | R | esult | Qualifier | | RL | | MDL | Unit | | D | Р | repared | Analy | zed | Dil Fac |
| Biochemical Oxygen Demand | 0. | 9690 | | 0.00 | 00020 | 0.000 | 00020 | ma/L | | · — · | | | 10/20/23 | 16:17 | 1 |
| | | | | | 0 | | 0 | 0 | | | | | | | |
| | | | | | | | | | | | | | | | |
| Lab Sample ID: USB 860-128041/1 | | | | | | | | | | | | Client S | ample ID: | Method | d Blank |
| Matrix: Water | | | | | | | | | | | | | Prep | Type: To | otal/NA |
| Analysis Batch: 128041 | | | | | | | | | | | | | | | |
| | | USB | USB | | | | | | | | | | | | |
| Analyte | R | esult | Qualifier | | RL | | MDL | Unit | | D | Ρ | repared | Analy | zed | Dil Fac |
| Biochemical Oxygen Demand | 0. | 1200 | | 0.00 | 00020 | 0.000 | 00020 | mg/L | | | | | 10/20/23 | 16:14 | 1 |
| | | | | | 0 | | 0 | | | | | | | | |
| | | | | | | | | | | ~ | | Commit | | a natural d | Samula |
| Lab Sample ID: LCS 860-128041/3 | | | | | | | | | | U | ient | Sample | Lab C | | |
| watrix: Water | | | | | | | | | | | | | Prep | ivpe: To | otal/NA |

| Analysis Batch: 128041 | | | | | | | | |
|---------------------------|-------|--------|-----------|------|---|------|----------|------|
| | Spike | LCS | LCS | | | | %Rec | |
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Biochemical Oxygen Demand | 198 | 205.8 | | mg/L | | 104 | 85 - 115 | |

Eurofins Lubbock

General Chemistry

Prep Batch: 127382

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------------|------------------------|-----------|--------|--------------|------------|
| 820-10592-1 | C Lagoon | Total/NA | Water | BOD Prep | |
| Analysis Batch: 12740 | 4 | | | | |
| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
| 820-10592-1 | C Lagoon | Total/NA | Water | SM 4500 H+ B | |
| Analysis Batch: 12750 | 8 | | | | |
| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
| 820-10592-1 | C Lagoon | Total/NA | Water | SM 2540D | |
| MB 860-127508/1 | Method Blank | Total/NA | Water | SM 2540D | |
| LCS 860-127508/2 | Lab Control Sample | Total/NA | Water | SM 2540D | |
| LCSD 860-127508/3 | Lab Control Sample Dup | Total/NA | Water | SM 2540D | |
| 820-10592-1 DU | C Lagoon | Total/NA | Water | SM 2540D | |
| Analysis Batch: 12804 | 1 | | | | |
| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
| 820-10592-1 | C Lagoon | Total/NA | Water | SM 5210B | 127382 |
| SCB 860-128041/2 | Method Blank | Total/NA | Water | SM 5210B | |
| USB 860-128041/1 | Method Blank | Total/NA | Water | SM 5210B | |
| LCS 860-128041/3 | Lab Control Sample | Total/NA | Water | SM 5210B | |

Client Sample ID: C Lagoon Date Collected: 10/19/23 08:57 Date Received: 10/19/23

| 08:57 | | | | | | | | Μ | latrix: Water | |
|-------|--------|-----|--------|-----------|--------|--------|-------------|---------|---------------|--|
| 10:35 | | | | | | | | | | |
| | Datab | | Dil | I 141 - I | Ein al | Datab | Described | | | |
| 1 | Batch | | DII | Initial | Finai | Batch | Prepared | | | |
| | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab | |

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|--------------|-----|--------|---------|---------|--------|----------------|---------|---------|
| Ргер Туре | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Analysis | SM 2540D | | 1 | 200 mL | 1000 mL | 127508 | 10/23/23 10:13 | SA | EET HOU |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | | | 127404 | 10/20/23 16:53 | KEG | EET HOU |
| Total/NA | Prep | BOD Prep | | | | | 127382 | 10/20/23 16:34 | ALL | EET HOU |
| Total/NA | Analysis | SM 5210B | | 1 | 50 mL | 300 mL | 128041 | 10/20/23 17:03 | HN | EET HOU |

Laboratory References:

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

Lab Sample ID: 820-10592-1 4 5

8 9

Eurofins Lubbock

9

Laboratory: Eurofins Houston

| Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below. | |
|---|--|
| | |

| thority | | am | Identification Number | Expiration Date |
|---|--|----------------------------------|--|------------------------|
| 35 | | P | T104704215-23-53 | 06-30-24 |
| T I (II) I (| | | and been the an annual second section. This lies | t may include analytee |
| for which the agency d | are included in this report, bu oes not offer certification. | It the laboratory is not certili | ed by the governing authority. This is | t may include analytes |
| for which the agency d Analysis Method | are included in this report, bu oes not offer certification. Prep Method | Matrix | ed by the governing authority. This is | t may include analytes |

Eurofins Lubbock

Client: City of Tahoka Project/Site: C Lagoon

| Method | Method Description | Protocol | Laboratory |
|--------------|-------------------------------|----------|------------|
| SM 2540D | Solids, Total Suspended (TSS) | SM | EET HOU |
| SM 4500 H+ B | pH | SM | EET HOU |
| SM 5210B | BOD, 5-Day | SM | EET HOU |
| BOD Prep | Preparation, BOD | SM | EET HOU |

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

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

Sample Summary

| Client: City of Tahoka | |
|------------------------|--|
| Project/Site: C Lagoon | |

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 820-10592-1 | C Lagoon | Water | 10/19/23 08:57 | 10/19/23 10:35 |

Superfund Level IV DI Water: H₂O Revised Date: 08/25/2020 Rev. 2020.7 MeOH: Me HNO 3: HN NaOH: Na NaOH+Ascorbic Acid: SAPC Sample Comments Date/Time **Preservative Codes** Zn Acetate+NaOH: Zn ð PST/UST TRRP UST/PST PRP Brownfields RRC Na 25 203: NaSO 3 8RCRA 13PPM Texas11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO, Na Sr Tl Sn U V Zn Other: NaHSO 4: NABIS Hg: 1631 / 245.1 / 7470 / 7471 820-10592 Chain of Custody None: NO H 3PO 4: HP H₂S0 4: H₂ Cool: Cool www.xenco.com Page Work Order Comments HCL: HC ADaPT Received by: (Signature) Reporting: Level II 🔲 Level III 🗌 EDD State of Project: rofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated. Deliverables: Program: TCLP/SPLP6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U and relieves standard relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control Ph 8.5 Relinquished by: (Signature) ANALYSIS REQUEST Email: 1 rega Chalder. org & Ray ord Rea Wind from Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 ame Chain of Custody 55_ 47 10/11/23 10:35m Date/Time 0.8 Grab/ # of Comp Cont Pres. Code Parameters C Bill to: (if different) Company Name: City, State ZIP: 10.2 TAT starts the day received by the lab, if received by 4:30pm 0.2 Yes No 10. Address: Rush Depth **Turn Around** Received by (Signature) 0/19/2 B:570 Routine Due Date: Corrected Temperature: Wet Ice: Sampled Temperature Reading: Time **Environment Testing** 9373 Correction Factor: 1607, May A BOX 300 Thermometer ID: Sampled ant Yes (Date Circle Method(s) and Metal(s) to be analyzed 206-561-421 Matrix Kanmene Xenco Temp Blank: N/A Ż 200.8 / 6020: -40 NY .. ٩N d The hole Yes No Yes No Ye Relinguished by: (Signature) ofins Sample Identification Samples Received Intact: Total 200.7 / 6010 C hag oon Sample Custody Seals: Cooler Custody Seals: SAMPLE RECEIPT **Fotal Containers:** Project Number: Project Manager: Project Location: Sampler's Name: Company Name: 10592 City, State ZIP: Project Name: Address: Phone: PO #:

Loc: 820

| Eurofins Lubbock | | | | | | 01.01.01 | | | |
|--|--|--|---|--|--|--|--|--|--|
| 6701 Aberdeen Ave. Suite 8 Lubbock, TX 79424 | Cha | tin of Cus | tody Rec | ord | | | | 🔅 eurofin | IS Environment Testing |
| Client Information (Sub Contract Lab) | Sampler | | Lab PM: Taylor H | olly | | Canter Trackin | g No(s): | COC Ne: 820-8215.1 | |
| Client Contact Shipping/Receiving | Phone: | | E-Mail: Holly Tay | lor@et.eurofinsi | us.com | State of Origin Texas | | Page: Page 1 of 1 | |
| Company: Eurofins Environment Testing South Centr | | | NEL | ditations Required (AP Texas | (See note): | | | Job #: 820-10592-1 | |
| Address: 4145 Greenbriar Dr | Due Date Requested: 10/26/2023 | | | | Analysis R | Requested | : | Preservation C | M Hexane |
| City: Stafford | TAT Requested (days): | | | | | | | B NaOH | N None O AsNaO2 |
| State, Zip: TX, 77477 | | | ····· | <u></u> | | | | D Nitric Acid E NaHSO4 | P Na204S Q Na2SO3 |
| Phone: 281-240-4200(Tel) | PO # | | <u>a</u> | ву ———————————————————————————————————— | | | | G Amchlor | S H2SO4 |
| Email: | WO# | | <u>or Ne</u> | D, 5-D | | | | J DI Water | V Acetone V MCAA |
| Project Name: | Project #: 82000937 | | (Yea | ep BC | | | | EDA | Y Trizma Z other (specify) |
| Site: | SSOW#: | | in kle | OD_Pr | | | | | |
| | Sar | Sample Type (C=comp, | Matrix Smold Smold | 15210B_Calc/1 40D 14500_H+/ pH | | | | tal Number . | |
| | | | ios Coole | | | | | X | |
| C Lagoon (820-10592-1) | 10/19/23 Ce | | Water | × × × | | | | Ţ | 212 |
| | | | | | | | | | <u>ک</u> |
| | | | | | | | | ANY TANK | 4 |
| | | | | | | | | A AN | |
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| Note: Since laboratory accreditations are subject to change, Eurofins Environmen laboratory does not currently maintain accreditation in the State of Origin listed ab accreditation status should be brought to Eurofins Environment Testing South Ce | . Testing South Central, LLC ove for analysis/tests/matrix tral, LLC attention immedia | places the ownership being analyzed, the sately. If all requested ac | of method, analyte & mples must be shipp creditations are curre | accreditation compl ed back to the Eurol nt to date, relum the | iance upon our subc fins Environment Te a signed Chain of Cu | contract laboratories sting South Central, ustody attesting to s | . This sample shipm , LLC laboratory or o ald compliance to El | nent is forwarded under ther instructions will be urofins Environment Te | r chain-of-custody. If the ; provided. Any changes to ;sting South Central, LLC. |
| Possible Hazard Identification Unconfirmed | | | - (0 | Return To | al (A fee may b | Disposal By L | amples are ret | ained longer than Archive For | 1 1 month) Months |
| Deliverable Requested: 1 II III, IV Other (specify) | Primary Deliverable F | tank: 2 | (0 | pecial Instructio | ons/QC Requirer | ments. | | | 1 |
| Empty Kit Relinquished by: | Date | | Tim | 14 | | Method c | of Shipment: | 1 | |
| Relinquished by: | Date/Time; | | Company | Received by: | | ŀ | Date/Time: | | Company |
| Reinquistred by: | Date/Time: | | Company | Received by: | human | 5 | Date/Time: | 25 0 2000/00/ | Company |
| Relinquished by: | Dale/Time: | | Company | Received by | * * | - () = * < | Date/Time: | - <u></u> | Company |
| Custody Seals Intact Custody Seal No. | | | | Cooler Tempera | ture(s) °C and Other | r Remarks; | | , , | |
| | | | | | | | | | Ver 06/08/2021 |

6 7 8

Login Sample Receipt Checklist

Client: City of Tahoka

Login Number: 10592 List Number: 1 Creator: Triplett, Colby

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

Job Number: 820-10592-1

List Source: Eurofins Lubbock

<6mm (1/4").

Client: City of Tahoka

Login Number: 10592 List Number: 2 Creator: Baker, Jeremiah

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

Job Number: 820-10592-1

List Source: Eurofins Houston

List Creation: 10/20/23 11:33 AM

<6mm (1/4").



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Raymond Vega City of Tahoka PO BOX 300 Tahoka, Texas 79373 Generated 11/30/2023 2:33:34 PM

JOB DESCRIPTION

C Lagoon

JOB NUMBER

820-11030-1

Eurofins Lubbock 6701 Aberdeen Ave. Suite 8 Lubbock TX 79424







Eurofins Lubbock

Job Notes

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

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization

aylor

Generated 11/30/2023 2:33:34 PM

1

Authorized for release by Holly Taylor, Project Manager Holly.Taylor@et.eurofinsus.com (806)794-1296
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3

Qualifiers

| General Chemi | stry |
|----------------------|--|
| Qualifier | Qualifier Description |
| HF | Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time. |
| U | Indicates the analyte was analyzed for but not detected. |

Glossary

| пг | rarameter with a notuling time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time. | |
|----------------|---|----|
| U | Indicates the analyte was analyzed for but not detected. | 5 |
| Glossary | | 6 |
| Abbreviation | These commonly used abbreviations may or may not be present in this report. | |
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis | 7 |
| %R | Percent Recovery | |
| CFL | Contains Free Liquid | 0 |
| CFU | Colony Forming Unit | 0 |
| CNF | Contains No Free Liquid | 0 |
| DER | Duplicate Error Ratio (normalized absolute difference) | 9 |
| Dil Fac | Dilution Factor | |
| DL | Detection Limit (DoD/DOE) | |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample | |
| DLC | Decision Level Concentration (Radiochemistry) | |
| EDL | Estimated Detection Limit (Dioxin) | |
| LOD | Limit of Detection (DoD/DOE) | |
| LOQ | Limit of Quantitation (DoD/DOE) | |
| MCL | EPA recommended "Maximum Contaminant Level" | 13 |
| MDA | Minimum Detectable Activity (Radiochemistry) | |
| MDC | Minimum Detectable Concentration (Radiochemistry) | |
| MDL | Method Detection Limit | |
| ML | Minimum Level (Dioxin) | |
| MPN | Most Probable Number | |
| MQL | Method Quantitation Limit | |
| NC | Not Calculated | |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) | |
| NEG | Negative / Absent | |
| POS | Positive / Present | |
| PQL | Practical Quantitation Limit | |
| PRES | Presumptive | |
| QC | Quality Control | |
| RER | Relative Error Ratio (Radiochemistry) | |
| RL | Reporting Limit or Requested Limit (Radiochemistry) | |
| RPD | Relative Percent Difference, a measure of the relative difference between two points | |
| TEF | Toxicity Equivalent Factor (Dioxin) | |
| TEQ | Toxicity Equivalent Quotient (Dioxin) | |
| TNTC | Too Numerous To Count | |

Job ID: 820-11030-1

Laboratory: Eurofins Lubbock

Narrative

Job Narrative 820-11030-1

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

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

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

Receipt

The sample was received on 11/21/2023 9:57 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 10.1°C

General Chemistry

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

Client: City of Tahoka Project/Site: C Lagoon

Client Sample ID: C Lagoon Date Collected: 11/21/23 08:39

Date Received: 11/21/23 09:57

Lab Sample ID: 820-11030-1 Matrix: Water

General Chemistry Analyte RL MDL Unit Dil Fac Result Qualifier D Prepared Analyzed Total Suspended Solids (SM 20.0 20.0 mg/L 11/27/23 17:43 69.0 1 2540D) pH (SM 4500 H+ B) 7.8 HF SU 11/27/23 15:01 1 Degrees C 11/27/23 15:01 Temperature (SM 4500 H+ B) 12.6 HF 1 12.0 11/22/23 14:03 11/22/23 14:58 1 **Biochemical Oxygen Demand (SM** 36.7 12.0 mg/L 5210B)

Lab Sample ID: LCS 860-132607/3

Matrix: Water

Method: SM 2540D - Solids, Total Suspended (TSS)

| Lab Sample ID: MB 860-132668/1 | | | | | | | | | | | | Client S | ample ID: | Metho | d Blank |
|--------------------------------------|--------|-------|-----------|-------|-------|--------|------|--------|------|-------|------|-----------|------------|-----------|---------|
| Matrix: Water | | | | | | | | | | | | | Prep | Type: T | otal/NA |
| Analysis Batch: 132668 | | | | | | | | | | | | | | | |
| | | MB | MB | | | | | | | | | | | | |
| Analyte | R | esult | Qualifier | | RL | | MDL | Unit | | D | P | repared | Analy | zed | Dil Fac |
| Total Suspended Solids | ~ | <4.00 | U | | 4.00 | | 4.00 | mg/L | | | | | 11/27/23 | 3 17:43 | 1 |
| Lab Sample ID: LCS 860-132668/2 | | | | | | | | | | CI | ient | Sample | D: Lab C | ontrol | Sample |
| Matrix: Water | | | | | | | | | | | | | Prep | Type: T | otal/NA |
| Analysis Batch: 132668 | | | | | | | | | | | | | | | |
| | | | | Spike | | LCS | LCS | | | | | | %Rec | | |
| Analyte | | | | Added | | Result | Qua | lifier | Unit | | D | %Rec | Limits | | |
| Total Suspended Solids | | | | 100 | | 106.0 | | | mg/L | | _ | 106 | 80 - 120 | | |
| Lab Sample ID: LCSD 860-132668/3 | 3 | | | | | | | | C | lient | Sam | ple ID: I | Lab Contr | ol Sam | ole Dup |
| Matrix: Water | | | | | | | | | | | | | Prep | Type: T | otal/NA |
| Analysis Batch: 132668 | | | | | | | | | | | | | | | |
| | | | | Spike | | LCSD | LCS | D | | | | | %Rec | | RPD |
| Analyte | | | | Added | | Result | Qua | lifier | Unit | | D | %Rec | Limits | RPD | Limit |
| Total Suspended Solids | | | | 100 | | 102.0 | | | mg/L | | _ | 102 | 80 - 120 | 4 | 10 |
| Lab Sample ID: 820-11030-1 DU | | | | | | | | | | | | Clie | ent Sample | e ID: C I | Lagoon |
| Matrix: Water | | | | | | | | | | | | | Prep | Type: T | otal/NA |
| Analysis Batch: 132668 | | | | | | | | | | | | | | | |
| | Sample | Sam | ple | | | DU | DU | | | | | | | | RPD |
| Analyte | Result | Qua | lifier | | | Result | Qua | lifier | Unit | | D | | | RPD | Limit |
| Total Suspended Solids | 69.0 | | | | | 74.00 | | | mg/L | | _ | | | 7 | 10 |
| Method: SM 5210B - BOD, 5-D | ay | | | | | | | | | | | | | | |
| _ Lab Sample ID: SCB 860-132607/2 | | | | | | | | | | | | Client S | ample ID: | Metho | d Blank |
| Matrix: Water | | | | | | | | | | | | | Prep | Type: T | otal/NA |
| Analysis Batch: 132607 | | | | | | | | | | | | | | .,, | |
| · | | SCB | SCB | | | | | | | | | | | | |
| Analyte | R | esult | Qualifier | | RL | | MDL | Unit | | D | P | repared | Analy | zed | Dil Fac |
| Biochemical Oxygen Demand | 0. | 7980 | | 0.00 | 00020 | 0.000 | 0020 | ma/L | | | | | 11/22/23 | 3 13:23 | 1 |
| | | | | | 0 | | 0 | Ū | | | | | | | |
| Lab Sample ID: USB 860-132607/1 | | | | | | | | | | | | Client S | ample ID: | Metho | d Blank |
| Matrix: Water | | | | | | | | | | | | | Prep | Type: T | otal/NA |
| Analysis Batch: 132607 | | | | | | | | | | | | | | | |
| | | USB | USB | | | | | | | | | | | | |
| Analyte | R | esult | Qualifier | | RL | | MDL | Unit | | D | P | repared | Analy | zed | Dil Fac |
| Biochemical Oxygen Demand | 0. | 1200 | | 0.00 | 00020 | 0.000 | 0020 | mg/L | | | | | 11/22/23 | 3 13:20 | 1 |
| | | | | | 0 | | 0 | | | | | | | | |

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

| Analysis Batch: 132607 | | | | | | | | |
|---------------------------|-------|--------|-----------|------|---|------|----------|--|
| | Spike | LCS | LCS | | | | %Rec | |
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Biochemical Oxygen Demand | 198 | 195.7 | | mg/L | | 99 | 85 - 115 | |

Page 7 of 16

Job ID: 820-11030-1

General Chemistry

Prep Batch: 132339

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------------|------------------------|-----------|--------|--------------|------------|
| 820-11030-1 | C Lagoon | Total/NA | Water | BOD Prep | |
| Analysis Batch: 13260 | 70 | | | | |
| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
| 820-11030-1 | C Lagoon | Total/NA | Water | SM 5210B | 132339 |
| SCB 860-132607/2 | Method Blank | Total/NA | Water | SM 5210B | |
| USB 860-132607/1 | Method Blank | Total/NA | Water | SM 5210B | |
| LCS 860-132607/3 | Lab Control Sample | Total/NA | Water | SM 5210B | |
| Analysis Batch: 13264 | 49 | | | | |
| Lab Sample ID | Client Sample ID | Ргер Туре | Matrix | Method | Prep Batch |
| 820-11030-1 | C Lagoon | Total/NA | Water | SM 4500 H+ B | |
| Analysis Batch: 1326 | 58 | | | | |
| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
| 820-11030-1 | C Lagoon | Total/NA | Water | SM 2540D | |
| MB 860-132668/1 | Method Blank | Total/NA | Water | SM 2540D | |
| LCS 860-132668/2 | Lab Control Sample | Total/NA | Water | SM 2540D | |
| LCSD 860-132668/3 | Lab Control Sample Dup | Total/NA | Water | SM 2540D | |
| 820-11030-1 DU | C Lagoon | Total/NA | Water | SM 2540D | |

Matrix: Water

5 6

Lab Sample ID: 820-11030-1

Client Sample ID: C Lagoon Date Collected: 11/21/23 08:39 Date Received: 11/21/23 09:57

| - | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|----------------------|------------------|----------------------|-----|--------|---------|---------|------------------|----------------------------------|----------|--------------------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Analysis | SM 2540D | | 1 | 200 mL | 1000 mL | 132668 | 11/27/23 17:43 | SA | EET HOU |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | | | 132649 | 11/27/23 15:01 | KEG | EET HOU |
| Total/NA Total/NA | Prep Analysis | BOD Prep SM 5210B | | 1 | 50 mL | 300 mL | 132339 132607 | 11/22/23 14:03 11/22/23 14:58 | HN HN | EET HOU EET HOU |

Laboratory References:

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

9

Laboratory: Eurofins Houston

| Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below. | |
|---|--|
| | |

| nonty | Progra | am | Identification Number | Expiration Date |
|---|---|----------------------------------|--|------------------------|
| as | NELAI | P | T104704215-23-53 | 06-30-24 |
| T I (II) I (| are included in this report by | ut the leberatory is not cortifi | ad by the governing outbority. This list | t may include analytee |
| for which the agency d | oes not offer certification. | at the laboratory is not certin | ed by the governing authority. This is | t may include analytes |
| for which the agency d Analysis Method | oes not offer certification. Prep Method | Matrix | Analyte | t may include analytes |

Client: City of Tahoka Project/Site: C Lagoon

| Method | Method Description | Protocol | Laboratory |
|--------------|-------------------------------|----------|------------|
| SM 2540D | Solids, Total Suspended (TSS) | SM | EET HOU |
| SM 4500 H+ B | pH | SM | EET HOU |
| SM 5210B | BOD, 5-Day | SM | EET HOU |
| BOD Prep | Preparation, BOD | SM | EET HOU |

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

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

Sample Summary

Client: City of Tahoka Project/Site: C Lagoon

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 820-11030-1 | C Lagoon | Water | 11/21/23 08:39 | 11/21/23 09:57 |

| | e: 820 1030 °ofin | S Fovironment Testing | Houstor | Chain of Custody | P # A | |
|---|---|--|---|--|--|--|
| Contrasting Cut register March Obstances 000/0000 Cut register Cut register Part Content on the cut register State Content on the cut register 000/0000 Cut register Cut register Part Content on the cut register State Content on the cut register State Content on the cut register State Content on the cut register 000/0000 Cut register Discrete Content on the cut | | Xenco | EL Paso, THOBBS, N | x (43z) /04-3440, 3an Antonio, 1X (210) 209-3534 TX (915) 585-3443, Lubbock, TX (806) 794-1296 MM (575) 392-7550, Carlsbad, NM (575) 988-3199 | 820-11030 Ch | ain of Custody |
| Bits Table A. T. T. T. T. T. T. T. T. T. T. T. T. T. | ect Manager: | Paymond Vega | Bill to: (if different) Company Name | | Work Ord | onn raycour of a comments commental comments commental comments commental commental commental commentation comment |
| Image: Sub-V-L-L1 Total I register for the control of the control | ress: | 0] Mail 100×300 | Address: | Same | State of Project: Renorting: Level II _ 1 evel III | |
| ethere Turn Annan Annances Recurst Annances Recurst exclusion Distance Distance Distance Distance Distance Distance exclusion Distance Distance Distance Distance Distance Distance Distance exclusion Distance Distanc | De: BO | 6-56/-4211 Em | all: I Vegu & to | chika or a laynord Kyn (1) | vitro Deliverables: EDD | ADaPT Other: |
| Clineties Decide <thdecide< th=""> Decide Decide</thdecide<> | ect Name: | 12 | im Around | ANALY | sis request | Preservative Codes |
| Discription Discription Rechtlen Trans, Indergenerality | ect Number: | Routin | e 🗌 Rush | rres. Code | | None: NO DI Water: H ₂ O |
| ULE RECEIT Topog Blonc Vec Merico Netson N | ect Location: pler's Name: #: | Due Date TAT starts the lab, if | the day received by received by | | | Cool: Cool MeOH: Me HCL: HC HNO 3: HN H.50 .: H , NaOH: Na |
| er corecol Seals. Vie No. Correction factor. Co. 1 & No. S. 0, No. S. 1, No. No. S. 0, No. S. 1, No. No. S. 0, No. S. 1, No. No. S. 0, No. S. 1, No. No. S. 0, No. S. 1, No. No. S. 0, No. S. 1, No. No. No. S. 0, No. S. 1, No. No. No. S. 0, No. S. 1, No. No. No. S. 0, No. S. 1, No. No. No. No. No. S. 0, No. S. 1, No. No. No. No. No. No. No. No. No. No. | IPLE RECEIPT bles Received Intact: | Teppa Blank: Yes Wet Ice. Ves No. Thermometer ID: | No 1 R. Y | 21939meine | | H ₃ PO 4: HP NaHSO 4: NABIS |
| Sample Identification Math Data sampled The sampled Constrained | rr Custody Seals: ble Custody Seals: Containers: | Yes No Why Correction Factor: Yes No Why Temperature Reading: Corrected Temperature | 1.0.1 | 55 7 0 (C 24 | | Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC |
| Lengons M Illuiting 8:31 Lengons M Illuiting 8:31 Lengons M Illuiting 8:31 Lengons M Illuiting 8:31 Lengons M Illuiting 8:31 Lengons M Illuiting 8:31 Lengons M Illuiting 8:31 Lengons M Illuiting 8:31 Lengons M Illuiting 8:31 Lengons M Illuiting 8:31 Lengons M Illuiting 8:31 Lengons M Illuiting 8:31 Lengons M Illuiting 8:31 Lengons M Illuiting 8:31 Lengons M Illuiting 8:31 Lengons M Illuiting 8:31 Lengons M Illuiting 8:48 Lengons M Illuiting 8:48 Lengons M Illuiting 8:48 Lengons M Illuiting 8:48 Lengons M Illuiting 8:48 Lengons M Illuiting 8:48 Lengons M Illuiting 8:48 Lengons M Illuiting 8:48 Lengons M Illuiting 8:48 Lengons M Illuiting 8:48 Lengons M Illuiting 8:48 Lengons M Illuiting 8:48 Lengons M Illuiting 8:48 Lengons M Illu | Sample Identification | Matrix Date Time Sampled Sampled | Depth Grab/ # | tot let | | Sample Comments |
| Tail 2007/6010 2008/6020: 8RCRA 13PPM Texas 11 AI Sb As Ba Be BC dC a C C O C U Pb Mm Mo Ni K Se Ag SiO ₂ Na Sr TI Sn U V Zn Iail 2007/6010 2008/6020: 8RCRA 13PPM Texas 11 AI Sb As Ba Be BC dC a C C O C U Pb Mm Mo Ni K Se Ag SiO ₂ Na Sr TI Sn U V Zn Ice Method(s) and Metal(s) to be analyzed TCLP/SPLP 6010 : 8RCRA Sb As Ba Be C dC r C O C U Pb Mm Mo Ni K Se Ag SiO ₂ Na Sr TI Sn U V Zn Statute of thread texa TCLP/SPLP 6010 : 8RCRA Sb As Ba Be C dC r C o C u Pb Mm Mo Ni K Se Ag SiO ₂ Na Sr TI Sn U V Zn Statute of thread texa TCLP/SPLP 6010 : 8RCRA Sb As Ba Be C dC r C o C u Pb Mm Mo Ni K Se Ag SiO ₂ Na Sr TI Sn U V Zn Statute of thread texa TCLP/SPLP 6010 : 8RCRA Sb As Ba Be C dC r C o C u Pb Mm Mo Ni K Se Ag TI U Hg: 1631/245.1/7470 /7471 Statute of thread texa TCLP/SPLP 6010 : 8RCRA Sb As Ba Be C dC r C o C u Pb Mm Mo Ni K Se Ag TI U Hg: 1631/245.1/7470 /7471 Statute of thread texa TCLP/SPLP 6010 : 8RCRA Sb As Ba Be C dC r C o C u Pb Mm Mo Ni K Se Ag TI U Hg: 1631/245.1/7470 /7471 Statute of thread texa TCLP/SPLP 6010 : 8RCRA Sb As Ba Be C dC r C o C u Pb Mm Mo Ni K Se Ag TI U Hg: 1631/245.1/7470 /7471 Statute of thread texa Toto Natite of thread texa Toto Natite of thread texa Toto Natite of thread texa Statute of thread texa Toto Natite of thread texa Toto Natite of thread texa Toto Natite of thread texa <t< td=""><td>, Leyon N</td><td>~1.5: 8 Et rall</td><td></td><td></td><td></td><td></td></t<> | , Leyon N | ~1.5: 8 Et rall | | | | |
| tal 200.7 /6010 200.8 / 6020: BRCRA 13PPM Texas 11 Al Sb As Ba Be Cd Ca Cr Co Cu Fb Mn Mo Ni K Se Ag SiO ₂ Na Sr Tl Sn U V Zn e Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : BRCRA 5b As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471 Stanture of this document and relinquishment of samples constitutes a valid purchase order from clent company to Eurofins Xenco. Its affiliates and subcontractors. It asigns standard terms and confloor Hg: 1631 / 245.1 / 7470 / 7471 Stanture of this document and relinquishment of samples constitutes a valid purchase order from clent company to Eurofins Xenco. Its affiliates and subcontractors. It asigns standard terms and confloor Hg: 1631 / 245.1 / 7470 / 7471 Stanture of this document and relinquishment of samples constitutes a valid purchase order from clent company to Eurofins Xenco. Its affiliates and subcontractors. It asigns standard terms and confloors Luo Hg: 1631 / 245.1 / 7470 / 7471 Stanture of this document and relinquished by: (Signature) Received by: (Signature) Received by: (Signature) Received by: (Signature) Baceived by: (Signature) Received by: (Signature) Date/Time Relinquished by: (Signature) Date/Time And And Mg Mg Mg: Mg: Signature) Received by: (Signature) Date/Time | | | | | | |
| Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Series. It assigns standard terms and conditions c.e. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control fins Xenco. Aminimum charge of \$85.00 will be applied to each project and a charge of \$55 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated elingfulshed br: (Signature) Raceived by: (Signature) Date/Time Relinquished by: (Signature) Received by: (Signature) Date/Time U.M. A control of the control of the control of the client of the client of the client of the client of the client of the client of the client of the client of the control U.M. A client of the client o | otal 200.7 / 6010 le Method(s) and M | 200.8 / 6020: 8RCRA 13 etal(s) to be analyzed TCLP | PPM Texas 11 AI / SPLP 6010 : 8RCR/ | I I I I I I I Sb As Ba Be Cd Ca Cr Co Cu Fe A Sb As Ba Be Cd Cr Co Cu Ph Mn | P N N N N N N N N N N N N N N N N N N N | Sr Tl Sn U V Zn 5.1 / 7470 / 7471 |
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| 1 and a contract of the contra | elinduished by: (Signa | ture) Received by: (Signat | he h | Date/Time Relinquished by | r: (Signature) Received by: (Signa | ture) Date/Time |
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| NELAP Tools Prevention of Prevention | | | | Date: | verable Rank: 2 | 1 | entral, LLC places the ow ests/matrix being analyze n immediately. If all requ | | | | | 08:39 Central | | Sample (C=c | | | | | | l (days): | ested: | | | | | | Chain of (| Chain of (| Chain of (| Chain of (|
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| B20-11030-1 Preservation Ci A HCL A HCL A HCL C A HCL C A HCL C A Constant of the second of the | d Other Remarks: | Date/Time | UaterTime | Date/Time | Method of Shipment | quirements. | nay be assessed if samples an Disposal By Lab | ur subcontract laboratories. This samplent Testing South Central LLC laborator of Custody attesting to said compliant | | | | | | | | | | | | | | sis Requested | | State of Origin: Texas | Carrier Tracking No(s) State of Origin. Texas | Carrier Tracking No(s): State of Origin. Texas | Carrier Tracking No(s): State of Origin: Texas | Carrier Tracking No(s): State of Origin: Texas | Carrier Tracking No(s): State of Origin: Texas | Carrier Tracking No(s): State of Origin. Texas | Carrier Tracking No(s): State of Origin. Texas |
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<mark>12</mark> 13

I

Login Sample Receipt Checklist

Client: City of Tahoka

Login Number: 11030 List Number: 1 Creator: Triplett, Colby

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

Job Number: 820-11030-1

List Source: Eurofins Lubbock

<6mm (1/4").

Client: City of Tahoka

Login Number: 11030 List Number: 2 Creator: Baker, Jeremiah

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

Job Number: 820-11030-1

List Source: Eurofins Houston

List Creation: 11/22/23 01:35 PM

<6mm (1/4").



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Raymond Vega City of Tahoka PO BOX 300 Tahoka, Texas 79373 Generated 1/5/2024 1:38:38 PM

JOB DESCRIPTION

C Lagoon

5 6

JOB NUMBER

820-11465-1

Eurofins Lubbock 6701 Aberdeen Ave. Suite 8 Lubbock TX 79424



See page two for job notes and contact information.



Eurofins Lubbock

Job Notes

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

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization

aylor

Generated 1/5/2024 1:38:38 PM

Authorized for release by Holly Taylor, Project Manager Holly.Taylor@et.eurofinsus.com (806)794-1296

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| | |

3

Qualifiers

| General Chemis | stry |
|----------------|--|
| Qualifier | Qualifier Description |
| HF | Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time. |
| U | Indicates the analyte was analyzed for but not detected. |
| 0 | |

Glossary

| ΠF | Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time. | |
|----------------|--|----|
| U | Indicates the analyte was analyzed for but not detected. | 5 |
| Glossary | | 6 |
| Abbreviation | These commonly used abbreviations may or may not be present in this report. | |
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis | 7 |
| %R | Percent Recovery | |
| CFL | Contains Free Liquid | 0 |
| CFU | Colony Forming Unit | 0 |
| CNF | Contains No Free Liquid | |
| DER | Duplicate Error Ratio (normalized absolute difference) | 9 |
| Dil Fac | Dilution Factor | |
| DL | Detection Limit (DoD/DOE) | |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample | |
| DLC | Decision Level Concentration (Radiochemistry) | |
| EDL | Estimated Detection Limit (Dioxin) | |
| LOD | Limit of Detection (DoD/DOE) | |
| LOQ | Limit of Quantitation (DoD/DOE) | |
| MCL | EPA recommended "Maximum Contaminant Level" | 13 |
| MDA | Minimum Detectable Activity (Radiochemistry) | |
| MDC | Minimum Detectable Concentration (Radiochemistry) | |
| MDL | Method Detection Limit | |
| ML | Minimum Level (Dioxin) | |
| MPN | Most Probable Number | |
| MQL | Method Quantitation Limit | |
| NC | Not Calculated | |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) | |
| NEG | Negative / Absent | |
| POS | Positive / Present | |
| PQL | Practical Quantitation Limit | |
| PRES | Presumptive | |
| QC | Quality Control | |
| RER | Relative Error Ratio (Radiochemistry) | |
| RL | Reporting Limit or Requested Limit (Radiochemistry) | |
| RPD | Relative Percent Difference, a measure of the relative difference between two points | |
| TEF | Toxicity Equivalent Factor (Dioxin) | |
| TEQ | Toxicity Equivalent Quotient (Dioxin) | |
| TNTC | Too Numerous To Count | |

Job ID: 820-11465-1

Eurofins Lubbock

Job Narrative 820-11465-1

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

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

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

Receipt

The sample was received on 12/27/2023 11:01 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 7.0°C

General Chemistry

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

Project/Site: C Lagoon

Client: City of Tahoka

Client Sample ID: C. Lagoon

Date Collected: 12/27/23 10:05 Date Received: 12/27/23 11:01

Lab Sample ID: 820-11465-1 Matrix: Water

Watrix. Water

5

| General Chemistry | | | | | | | | | |
|-------------------------------|--------|-----------|------|------|-----------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total Suspended Solids (SM | 80.0 | | 20.0 | 20.0 | mg/L | | | 12/29/23 10:48 | 1 |
| 2540D) | | | | | | | | | |
| рН (SM 4500 H+ B) | 7.5 | HF | | | SU | | | 01/05/24 12:34 | 1 |
| Temperature (SM 4500 H+ B) | 11.6 | HF | | | Degrees C | | | 01/05/24 12:34 | 1 |
| Biochemical Oxygen Demand (SM | 26.2 | | 12.0 | 12.0 | mg/L | | 12/28/23 17:30 | 12/28/23 17:49 | 1 |
| 5210B) | | | | | | | | | |

Method: SM 2540D - Solids, Total Suspended (TSS)

| Lab Sample ID: MB 860-138624/1 | | | | | | | | | | | | Client S | Sample ID: | Metho | d Blank |
|---|--------|-------|-----------|-------|-------|--------|------|--------|--------------|----------|------|----------|------------|---|----------|
| Matrix: Water | | | | | | | | | | | | | Prep | Type: T | otal/NA |
| Analysis Batch: 138624 | | | | | | | | | | | | | | | |
| | | MB | MB | | | | | | | | | | | | |
| Analyte | R | esult | Qualifier | | RL | | MDL | Unit | | <u> </u> | Р | repared | Analy | zed | Dil Fac |
| Total Suspended Solids | < | 4.00 | U | | 4.00 | | 4.00 | mg/L | | | | | 12/29/23 | 10:48 | 1 |
| Lab Sample ID: LCS 860-138624/ | 2 | | | | | | | | | CI | ient | Sample | ID: Lab C | ontrol | Sample |
| Matrix: Water | | | | | | | | | | | | | Prep | Type: T | otal/NA |
| Analysis Batch: 138624 | | | | | | | | | | | | | | | |
| | | | | Spike | | LCS | LCS | | | | | | %Rec | | |
| Analyte | | | | Added | | Result | Qua | lifier | Unit | | D | %Rec | Limits | | |
| Total Suspended Solids | | | | 100 | | 105.0 | | | mg/L | | | 105 | 80 - 120 | | |
| Lab Sample ID: LCSD 860-13862 | 4/3 | | | | | | | | CI | lient | Sam | nle ID: | I ab Contr | ol Samı | nle Dun |
| Matrix: Water | | | | | | | | | | | | | Prep | Type: T | otal/NA |
| Analysis Batch: 138624 | | | | | | | | | | | | | | | |
| | | | | Spike | | LCSD | LCS | D | | | | | %Rec | | RPD |
| Analyte | | | | Added | | Result | Qua | lifier | Unit | | D | %Rec | Limits | RPD | Limit |
| Total Suspended Solids | | | | 100 | | 104.0 | | | mg/L | | _ | 104 | 80 - 120 | 2 | 10 |
| Method: SM 4500 H+ B - pH | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| Lab Sample ID: 820-11465-1 DU | | | | | | | | | | | | Clie | nt Sample | ID: C. I | Lagoon |
| Matrix: Water | | | | | | | | | | | | | Prep | Type: T | otal/NA |
| Analysis Batch: 139421 | | | | | | | | | | | | | | | |
| | Sample | Sam | ple | | | DU | DU | | | | | | | | RPD |
| Analyte | Result | Qua | lifier | | | Result | Qua | lifier | | | D | | | | |
| | 1.5 | HF | | | | 11.0 | | | 50 Degree | - C | | | | 0.3 | 20 |
| | 11.0 | 111 | | | | 11.0 | | | Degree | 50 | | | | J | 20 |
| Method: SM 5210B - BOD, 5- | Day | | | | | | | | | | | | | | |
| Lab Sample ID: SCB 860-138928/ | 2 | | | | | | | | | | | Client S | Sample ID: | Metho | d Blank |
| Matrix: Water | - | | | | | | | | | | | onente | Pren | Type: T | otal/NA |
| Analysis Batch: 138928 | | | | | | | | | | | | | | .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | |
| | | SCB | SCB | | | | | | | | | | | | |
| Analyte | Re | esult | Qualifier | | RL | | MDL | Unit | | D | Р | repared | Analy | zed | Dil Fac |
| Biochemical Oxygen Demand | 0.9 | 9300 | | 0.000 | 00020 | 0.000 | 0020 | mg/L | | | | - | 12/28/23 | 17:13 | 1 |
| | | | | | 0 | | 0 | | | | | | | | |
| | 4 | | | | | | | | | | | Client | Semale ID: | Matha | d Diank |
| Matrix: Water | 1 | | | | | | | | | | | Client | Bron | | |
| Analysis Batch: 138928 | | | | | | | | | | | | | Fieh | Type. T | Otal/INA |
| Analysis Datch. 130320 | | USB | USB | | | | | | | | | | | | |
| Analyte | Re | esult | Qualifier | | RL | | MDL | Unit | | D | Р | repared | Analy | zed | Dil Fac |
| Biochemical Oxygen Demand | 0.04 | 4000 | | 0.000 | 00020 | 0.000 | 0020 | mg/L | | | | • | 12/28/23 | 17:09 | 1 |
| | | | | | 0 | | 0 | - | | | | | | | |
| L ab Sample ID: 1 CS 860 128028/ | • | | | | | | | | | 0 | iont | Comple | | ontrol (| Sampla |
| Lab Sample ID. LCS 600-138928/ Matrix: Wator | 3 | | | | | | | | | U | ient | Sample | Dron | Type: T | otal/NA |
| Analysis Batch: 138028 | | | | | | | | | | | | | Fieh | iype. I | |
| Analysis Daton. 130320 | | | | Spike | | LCS | LCS | | | | | | %Rec | | |
| Analyte | | | | Added | | Result | Qua | lifier | Unit | | D | %Rec | Limits | | |
| Biochemical Oxygen Demand | | | | 198 | | 185.3 | | | mg/L | | _ | 94 | 85 - 115 | | |
| <u> </u> | | | | | | | | | | | | | | | |

General Chemistry

Prep Batch: 138540

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------------|------------------------|-----------|--------|--------------|------------|
| 820-11465-1 | C. Lagoon | Total/NA | Water | BOD Prep | |
| Analysis Batch: 13862 | 24 | | | | |
| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
| 820-11465-1 | C. Lagoon | Total/NA | Water | SM 2540D | |
| MB 860-138624/1 | Method Blank | Total/NA | Water | SM 2540D | |
| LCS 860-138624/2 | Lab Control Sample | Total/NA | Water | SM 2540D | |
| LCSD 860-138624/3 | Lab Control Sample Dup | Total/NA | Water | SM 2540D | |
| Analysis Batch: 13892 | 28 | | | | |
| Lab Sample ID | Client Sample ID | Ргер Туре | Matrix | Method | Prep Batch |
| 820-11465-1 | C. Lagoon | Total/NA | Water | SM 5210B | 138540 |
| SCB 860-138928/2 | Method Blank | Total/NA | Water | SM 5210B | |
| USB 860-138928/1 | Method Blank | Total/NA | Water | SM 5210B | |
| LCS 860-138928/3 | Lab Control Sample | Total/NA | Water | SM 5210B | |
| Analysis Batch: 13942 | 21 | | | | |
| Lab Sample ID | Client Sample ID | Ргер Туре | Matrix | Method | Prep Batch |
| 820-11465-1 | C. Lagoon | Total/NA | Water | SM 4500 H+ B | |
| 820-11465-1 DU | C. Lagoon | Total/NA | Water | SM 4500 H+ B | |

Matrix: Water

5 6

Lab Sample ID: 820-11465-1

Client Sample ID: C. Lagoon Date Collected: 12/27/23 10:05 Date Received: 12/27/23 11:01

| _ | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|--------------|-----|--------|---------|---------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Analysis | SM 2540D | | 1 | 200 mL | 1000 mL | 138624 | 12/29/23 10:48 | SA | EET HOU |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | | | 139421 | 01/05/24 12:34 | KEG | EET HOU |
| Total/NA | Prep | BOD Prep | | | 50 1 | | 138540 | 12/28/23 17:30 | ALL | EET HOU |
| Total/NA | Analysis | SM 5210B | | 1 | 50 mL | 300 mL | 138928 | 12/28/23 17:49 | ALL | EET HOU |

Laboratory References:

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

9

Laboratory: Eurofins Houston

| Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below. | |
|---|--|
| | |

| nority | Progra | am | Identification Number | Expiration Date | | | |
|---|---|---------------------------------|---|------------------------|--|--|--|
| as | NELA | P | T104704215-23-53 | 06-30-24 | | | |
| The following enalytee | are included in this report by | it the leberatory is not certif | ind by the governing outbority. This list | t may include analytee | | | |
| for which the agency of | oes not offer certification. | | led by the governing authority. This list | t may include analytes | | | |
| for which the agency of Analysis Method | oes not offer certification. Prep Method | Matrix | Analyte | t may include analytes | | | |

Client: City of Tahoka Project/Site: C Lagoon

| Method | Method Description | Protocol | Laboratory |
|--------------|-------------------------------|----------|------------|
| SM 2540D | Solids, Total Suspended (TSS) | SM | EET HOU |
| SM 4500 H+ B | pH | SM | EET HOU |
| SM 5210B | BOD, 5-Day | SM | EET HOU |
| BOD Prep | Preparation, BOD | SM | EET HOU |

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

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

Sample Summary

| Client: City of Tahoka | |
|------------------------|--|
| Project/Site: C Lagoon | |

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 820-11465-1 | C. Lagoon | Water | 12/27/23 10:05 | 12/27/23 11:01 |

)fins Environment Testing

Loc: 820 11465

Chain of Custody Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199



| Work Order Comments | /PST PRP Brownfields RRC Superfund | | III CLEVELIII PST/UST TRRP LEVELIV | EDD DAPT Other: | Preservative Codes | None: NO DI Water: H ₂ O | Cool: Cool MeOH: Me | HCL: HC HNO 3: HN | H, DO . HP | NaHSO 4: NABIS | Na 2 S 2 O 3: Na S O 3 | Zn Acetate+NaOH: Zn | NaOH+Ascorbic Acid: SAPC | Sample Comments | | | | | Se Ag SiO ₂ Na Sr TI Sn U V Zn Hg: 1631/245.1/7470/7471 | | ceived by: (Signature) Date/Time | |
|---------------------------------|--|---------------------|------------------------------------|---------------------------|--------------------|-------------------------------------|---------------------|--------------------------------|-----------------------------|-----------------------------------|------------------------------|---------------------------------|----------------------------|------------------------------|-------------|----------|--|--|---|---|---|--------------|
| | Program: UST/ | State of Project: | Reporting: Level | POKA, COM Deliverables: 1 | ANALYSIS REQUEST | | | | | | | 59 | | | 2 | | | | . Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K S \s Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U | enco, its affiliates and subcontractors. It assigns standard terms and conditions curred by the client if such bosses are due to circumstances beyond the control is Xenco, but not analyzed. These terms will be enforced unless previously negotilated. | ate/Time Relinquished by: (Signature) Rec | 1011 511 |
| M D V A Bill to: (If different) | A by K Company Name: | A.M. Box 3MAddress: | 10 793 72 City, State ZIP: | 211 Email: KUrga @ | Turn Around | Routine Rush Code | Due Date: | TAT starts the day received by | Vor MAN WAY FOR MAN AND MAN | Thermometer ID: | Correction Factor: | Temperature Reading: Zel | Corrected Temperature: 7.0 | Date Time Depth Grab/ # of A | XIAL XIGIOS | S | | | 8RCRA 13PPM Texas 11 AI Sb As /zed TCLP/SPLP 6010 : 8RCRA Sb A | constitutes a valid purchase order from client company to Eurofins Xi s and shall not assume any responsibility for any losses or expenses in each project and a charge of \$5 for each sample submitted to Eurofin | Refered by Gignature) Da | A game horas |
| Project Manager: | Company Name: C:+U OF | Address: 1807 m | City, State ZIP: TA ho Ko | Phone: (86) 56 1- 4 | Project Name: | Project Number: | Project Location: | Sampler's Name: | SAMPLE RECEIPT Temn Rlank. | Samples Received Intact: (Yes) No | Cooler Custody Seals: Yes No | Sample Custody Seals: Yes No NA | Total Containers: | Sample Identification Matrix | C. Lacoon | 2 | | | Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analy | otice: Signature of this document and relinquishment of sample. f service: Eurofins Xenco will be liable only for the cost of sample f Eurofins Xenco. A minimum charge of \$85.00 will be applied to | Relinquished by: (Signature) | An inthe m |

levised Date: 08/25/2020 Rev. 2020.2

<mark>12</mark> 13

| bock | . Suite 8 | |
|------|-----------|------|
| ldu. | 1 Ave | 2042 |
| ns L | ndeer | ř |
| ŪŲ. | Abe | yoo |
| 5 | 701 | qq |

Chain of Custody Record



🔅 eurofins | Environment

| ubbock, TX 79424 Phone: 806-794-1296 | | | stouy R | ecold | | | 6 3 | | 2 | Environment Testi | ъ |
|---|--|---|---|--|---|--|--|---|---|---|-----------------------|
| Client Information (Sub Contract Lab) | Sampler | | Taylo | M: Sr Holly | | Can | er Tracking A | (s)) | COC No: 820-8729.1 | | |
| Nent Contact Shipping/Receiving | Phone: | | E-Mail HOIly | : Taylor@et.eurofinsu | mco.st | Te Stat | s of Origin: 23.S | | Page: Page 1 of 1 | | |
| ompany: Eurofins Environment Testing South Centr | | | | Accreditations Required (NELAP Texas | See note): | | | | Job #: 820-11465-1 | | <u> </u> |
| Adress: 4145 Greenbriar Dr | Due Date Requested: 1/8/2024 | | | | Analysi | s Reque | sted | | Preservation C | odes: M Hexane | |
| 3Hy. Stafford | TAT Requested (days): | | | | | . | | [| A HCL B NaOH C Zn Acetate | N None O AsNaO2 Na2045 | |
| state, Zip. TX, 77477 | | | | | | | | | E NaHSOA | L NAZOCS Q NAZSO3 R NA2S203 | |
| hone: 281-240-4200(Tel) | PO# | | | ÆP | | | | | F MECH G Amchlar H Ascorbic Aci | S H2SO4 T TSP Dodecahydrate | _ |
| imait: | ₩0# | | | נחנ ס (ניוק): פים (ניוק): | | | | |) ice | V Acetone V MCAA VV nH 4-5 | |
| Toject Name: General | Project #: 82000937 | | | intep BC | | | | | L EDTA | Y Trizma 2 other (specify) | _ |
| Site: | SSOW#. | | | 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 | | | | | Other | | |
| sample Identification - Client ID (Lab ID) | Sample Date 11 | Sample Type ble (C=comp e G=grab) | Matrix (M=watar, S=uelld, O=vrasteld, BT=Tiasus, A=Air) | 284600 ⁻ H+\ bH 5240D 2840D 284510B ⁻ Celev 2440C-100 ⁻ Celev 2440C-100 ⁻ Celev | | | | | Special Special | Instructions/Note: | 1 1 |
| 0. Lagoon (820-11465-1) | 10:0 12/27/23 10:0 | 2 2 2 2 | veres cores Water | × × × | | | | | | | 1 |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | ٦ آ |
| | | | | | | | | | | IR ID:HOU-369 - | |
| | | | | | | | | +- | Corrected Ter | в О́О | |
| | | - | | | | | | - | | | |
| | | | | | | | | | | | I |
| tote: Stree laboratory accreditations are subject to change. Eurofins Environmen aboratory does not currently maintain accreditation in the State of Origin listed ab socreditation status should be brought to Eurofins Environment Testing South Ce | It Testing South Central, LLC powe for analysis/tests/matrix bound in the strain of the straint the strain | laces the ownersh eing analyzed, the ly. If all requested | ip of method, anal samples must be accreditations are | yte & accreditation compli shipped back to the Eurof current to dete, return the | ance upon our ins Environmer signed Chain | subcontract is the Testing Sou of Custody at | borratories. T th Central, LL esting to said | his sample sl C laboratory compliance t | lipment is forwarded unde or other instructions will be o Eurofins Environment To | r chain-of-custody If the provided. Any changes to seting South Central, LLC. | Г <u> </u> |
| Possible Hazard Identification | | | ĺ | Sample Disposa | il (A fee ma | iy be asse | sed if sar | nples are | etained longer than | 1 month) | T |
| Unconfirmed | | | | Return To | Client | Dispe | sal By Lat | | Archive For | Months | - |
| Jeliverable Requested: I II III, IV Other (specify) | Primary Deliverable Ra | ink. 2 | | Special Instructio | ns/ <u>OC Req</u> u | urements: | | | | | |
| Empty Kit Relinquished by | Date: | | | Time: | | | Method of S | thipment: | | | Г |
| telinquished by: | 80/LC/LB | 2041 | Company | Received by: | Feola | 8 | | Date/Time: | | Company | |
| celinquished by: Fedex | Date/Fime: | | Company | Received by: | X | A. | | Date/Time: 12175 | 10 01 | Company | |
| Relinquished by: | Date/Time: | | Company | Received by: | 10-1 | | | Date/Time: | | Company | |
| Custody Seals Intact: Custody Seal No. | | | | Cooler Temperal | ture(s) °C and (| Other Remark | | | | | _ |
| | | | | - | | | | ĺ | | Ver 06/08/2021 | 1 |

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9

12

13

Login Sample Receipt Checklist

Client: City of Tahoka

Login Number: 11465 List Number: 1 Creator: Triplett, Colby

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

Job Number: 820-11465-1

List Source: Eurofins Lubbock

Client: City of Tahoka

Login Number: 11465 List Number: 2 Creator: Jimenez, Nicanor

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

Job Number: 820-11465-1

List Source: Eurofins Houston

List Creation: 12/28/23 02:18 PM

13

<6mm (1/4").

ATTACHMENT Q

Water Balance and Storage Volume Calculations Net Evaporative Date Precipitation Data NRCS Curve Number Derivation Nitrogen Balance

WATER BALANCE FOR THE CITY OF TAHOKA WASTEWATER TREATMENT PLANT AND LAND APPLICATION SYSTEM

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY 30 TAC 210.24(b) FIGURE 1 - TABLE 1 &

30 TAC 309.20(b)(3)(A) - TABLE 2

[all units are inches of water per acre of irrigated area]

| 1 Month | 2 Average Regional Precipitation (in) | 3 Average Runoff (in) | 4 Average Infiltrated Rainfall (in) (2) - (3) | 5(a) Evapo- transpiration Crop 1 (in) | Crop 1 Area (ac) | Crop 2 Area (ac) | Total Area of Application for Month | 5 Evapo- Transpiration Total (in) | 6 Required Leaching (in) | Adjusted Leaching (in) | 7 Total Water Needs (in) (5) + (6) | 8 Effluent Needed in Root Zone (in) (7) - (4) | 9 Free-water Evaporation From Reservoir Surface wrt application area (in) | 10 Effluent to be Land Applied (in) (8)/K | 11 Consumption from Reservoir () (9) + (10) | 12 Month | 13 Effluent Received ** (in) or (ac-ft/ac/yr) | 14 25-Year Rain (in) | 15 25-Year Runoff (in) | 16 Infiltrated Rainfall (14) - (15) | 17 Available Water (13) + (16) | 18 25-Year Low Free-water Evaporation (ac-in) | 19 Storage | 20 Accumulated Storage |
|------------|---|--------------------------------|--|---|---------------------------|---------------------------|---|---|-----------------------------------|------------------------------|---|--|---|--|--|-------------|---|-------------------------------|---------------------------------|--|---|---|---------------|------------------------------|
| January | 0.80 | 0.03 | 0.77 | 2.21 | 143.0 | 0.0 | 143.00 | 2.21 | 0.72 | 0.00 | 2.93 | 2.16 | 0.17 | 2.54 | 2.71 | January | 2.82 | . 1.40 | 0.01 | 1.39 | 4.21 | 0.14 | 0.87 | 1.68 |
| February | 0.60 | 0.07 | 0.53 | 2.63 | 143.0 | 0.0 | 143.00 | 2.63 | 1.05 | 0.00 | 3.68 | 3.15 | 0.19 | 3.71 | 3.90 | February | 2.82 | . 1.06 | 0.00 |) 1.06 | 3.88 | 0.15 | -0.41 | 1.27 |
| March | 1.40 | 0.01 | 1.39 | 4.46 | 143.0 | 0.0 | 143.00 | 4.46 | 1.54 | 0.00 | 6.00 | 4.61 | 0.27 | 5.42 | 5.69 | March | 2.82 | 2.46 | 0.21 | 2.25 | 5.07 | 0.22 | -1.81 | -0.54 |
| April | 1.10 | 0.00 | 1.10 | 5.60 | 143.0 | 0.0 | 143.00 | 5.60 | 2.25 | 0.00 | 7.85 | 6.75 | 0.36 | 5 7.94 | 8.30 | April | 2.82 | 1.93 | 0.07 | 7 1.86 | 4.68 | 0.29 | -4.52 | -5.06 |
| May | 2.90 | 0.36 | 2.54 | 6.60 | 143.0 | 0.0 | 143.00 | 6.60 | 2.03 | 0.00 | 8.63 | 6.09 | 0.29 | 7.16 | 7.45 | May | 2.82 | . 5.09 | 1.50 |) 3.59 | 6.41 | 0.24 | -3.35 | -8.41 |
| June | 2.40 | 0.19 | 2.21 | 7.19 | 143.0 | 0.0 | 143.00 | 7.19 | 2.49 | 0.00 | 9.68 | 7.47 | 0.42 | 8.79 | 9.21 | June | 2.82 | 4.19 | 0.97 | 3.22 | 6.04 | 0.34 | -5.12 | -13.53 |
| July | 2.00 | 0.09 | 1.91 | 7.45 | 143.0 | 0.0 | 143.00 | 7.45 | 2.77 | 0.00 | 10.22 | 8.31 | 0.47 | 9.78 | 10.25 | July | 2.82 | 3.49 | 0.62 | 2.87 | 5.69 | 0.38 | -6.21 | -19.74 |
| August | 1.80 | 0.05 | 1.75 | 6.85 | 143.0 | 0.0 | 143.00 | 6.85 | 2.55 | 0.00 | 9.40 | 7.65 | 0.44 | 9.00 | 9.44 | August | 2.82 | 3.16 | 0.47 | 2.69 | 5.51 | 0.36 | -5.43 | -25.17 |
| September | 2.50 | 0.22 | 2.28 | 5.25 | 143.0 | 0.0 | 143.00 | 5.25 | 5 1.49 | 0.00 | 6.74 | 4.46 | 0.28 | 5.25 | 5.53 | September | 2.82 | 4.39 | 1.08 | 3.31 | 6.13 | 0.23 | -1.45 | -26.62 |
| October | 1.90 | 0.07 | 1.83 | 4.24 | 143.0 | 0.0 | 143.00 | 4.24 | 1.21 | 0.00 | 5.45 | 3.62 | . 0.27 | 4.26 | 4.53 | October | 2.82 | 3.33 | 0.54 | 2.79 | 5.61 | 0.22 | -0.53 | -27.15 |
| November | 0.80 | 0.03 | 0.77 | 2.82 | 143.0 | 0.0 | 143.00 | 2.82 | 1.03 | 0.00 | 3.85 | 3.08 | 0.23 | 3.62 | 3.85 | November | 2.82 | 1.40 | 0.01 | 1.39 | 4.21 | 0.18 | -0.25 | -27.40 |
| December | 0.80 | 0.03 | 0.77 | 2.24 | 143.0 | 0.0 | 143.00 | 2.24 | 0.74 | 0.00 | 2.98 | 2.21 | 0.17 | 2.60 | 2.77 | December | 2.82 | . 1.40 | 0.01 | 1.39 | 4.21 | 0.14 | 0.81 | 0.81 |
| Totals | 19.00 | 1.15 | 17.85 | 57.54 | | | | 57.54 | 19.87 | 0.00 | 77.41 | 59.56 | 3.56 | 5 70.07 | 73.63 | | 33.84 | 33.30 | 5.5 | 5 27.8 | 61.65 | 2.89 | | |

Variables

Design Effluent Flow

MGD

403.2 Ac.-ft/yr

0.36

1.10

| Seasonal | Crop (| Coverage | Areas |
|----------|--------|----------|-------|
|----------|--------|----------|-------|

| as | | 9.5 |
|-----|-------|------|
| | Area | |
| son | acres | |
| | | |

Ac.-ft/day

| Сгор # | Crop Growing Season | acres |
|-----------------|---------------------|-------|
| 1 Bermuda Grass | All -year round | 143 |
| 2 | | |

| Salts | Balance | Data | For | Leaching | Calculations |
|-------|---------|------|-----|----------|--------------|
|-------|---------|------|-----|----------|--------------|

Ce, electrical conductivity of effluent

2.3 millimhos/cm

Cs, maximum allowable conductivity of soil solution See Table 29

```
6.9 millimhos/cm @ 25 deg.
```

Ri, electrical conductivity of infiltrated rainfall

4.6 millimhos/cm @ 25 deg.

Estimated/Assumed Irrigation Efficiency, %

85 for center-pivot irrigation sprinkler system

See following pages for example calculations and references for crop and climatic data.

| I otal Application Area | | | | | | | | |
|-------------------------|---------------------------|--|--|--|--|--|--|--|
| 143.00 | acres (for water balance) | | | | | | | |
| 143.00 | acres for storage | | | | | | | |
| | | | | | | | | |

Calculated Surface Area of Ponds

56 acres (manually iterate with calculated until equal) (In this instance, area is set by original design)

Free-Water Evaporation

| Month | Average | 25-year low |
|-----------|---------|-------------|
| January | 2.60 | 2.11 |
| February | 2.80 | 2.28 |
| March | 4.00 | 3.22 |
| April | 5.40 | 4.34 |
| May | 4.40 | 3.57 |
| June | 6.30 | 5.07 |
| July | 7.10 | 5.71 |
| August | 6.60 | 5.33 |
| September | 4.20 | 3.39 |
| October | 4.00 | 3.22 |
| November | 3.40 | 2.75 |
| December | 2.50 | 2.02 |
| Total | 53.30 | 43.01 |

**Free-water evaporation taken from Water Date for Texas, "Lake Evaporation", Quadrangle 406

Runoff Constants

Crop

Tall Wheat Grass

Wheat Grass

Bermuda Grass

Harding Grass

Perennial Rye Grass

Crested Wheat Grass

Barley (hay)

Tall Fescue

Sudan Grass

Wildrye, b

Beardless

Alfalfa

Vetch

(fairway)

Calculated Application Rate 73.63 acre-inches per acre per year from Column 11 total

69.12 acre-inches per acre per year maximum allowable from Nitrogen Balance

5.76 acre-feet per acre per year (using limiting rate above)

Minimum Storage Requirement

maximum accumulated storage (column 20) x # of irrigated acres 20.02 acre-feet

ATTACHMENT

Water Balance for Effluent Land Application

Grass Evapotranspiration data from: Mean Crop Consumptive Use and Free-Water Evaporation for Texas by Borrelli, Feddler & Gregory, 1998

-- Evapotranspiration data taken from Lubbock, Texas (approx 25 miles from project site)

-- Evapotranspiration basal crop coefficient for Burmuda grasses is assumed **0.80** for average maintenance.

```
Mean Crop Consumptive Use .....
```

```
Station
               Jan Fe
              2.21 2.0
Lubbock
```

| 62 | NRCS curve number |
|-----|-------------------|
| 6.1 | S' |

Table 29.-Values of estimated electrical conductivity of the average

EC, for zero crop

reduction

(mmhos/cm)

Forage Crops

7.5

7.5

6.9

6.0

5.6

4.6

3.9

3.5

3.0

2.8

2.7

2.0

saturation extract (EC) for zero crop reduction and 10

percent crop reduction (Ayers and Westcot, 1976) (continued)

EC, for 10% crop

reduction

(mmhos/cm)

9.9

9.0

8.5

7.4

6.9

5.9

5.8

6.0

3.9

5.1

4.4

3.4

Turfgrass

Table 24.-ET_{crop} for Turfgrass with K_{cb}=0.80 (inches per month).

| eb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nev | Dec |
|----|------|------|------|------|------|------|------|------|------|------|
| 63 | 4.46 | 5.60 | 6.60 | 7.19 | 7.45 | 6.85 | 5.25 | 4.24 | 2.82 | 2.24 |

PRECIPITATION DATA FOR THE CITY OF TAHOKA, TEXAS Used for determining average and 25 year precipitation data in water balance. Derived from weather.gov obtained at the US Weather Bureau office at the Lubbock International Airpor 1998-2023

| | Year | Jan. | Feb. | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total Annual |
|-----------------------------|--------|-------|-------|-----------|----------|-----------|-------------|------------|----------|-----------|-------------|---------|-------|--------------|
| | 1998 | Т | 1.86 | 1.33 | 0.40 | 0.04 | 1.31 | 0.23 | 4.26 | 0.02 | 3.05 | 0.29 | 0.26 | 13.05 |
| | 1999 | 1.35 | Т | 1.03 | 3.56 | 3.38 | 4.52 | 0.79 | 0.63 | 3.27 | 0.61 | 0.00 | 1.05 | 20.19 |
| | 2000 | Т | 0.05 | 2.78 | 1.67 | 0.78 | 8.48 | 2.06 | 0.01 | Т | 3.27 | 1.25 | 0.92 | 21.27 |
| | 2001 | 1.46 | 0.51 | 2.45 | 0.38 | 4.20 | 0.47 | 0.60 | 1.11 | 0.85 | 0.02 | 3.37 | 0.13 | 15.55 |
| | 2002 | 0.62 | 0.51 | 2.15 | 1.26 | 0.37 | 3.06 | 1.40 | 1.31 | 1.38 | 5.26 | 0.38 | 1.57 | 19.27 |
| | 2003 | 0.04 | 0.06 | 0.25 | 1.12 | 1.31 | 4.27 | Т | 0.39 | 0.19 | 0.72 | 0.46 | Т | 8.81 |
| | 2004 | 1.90 | 1.88 | 1.85 | 2.98 | 1.00 | 3.08 | 3.22 | 2.29 | 5.38 | 2.33 | 6.65 | 0.69 | 33.25 |
| | 2005 | 1.33 | 1.32 | 0.73 | 0.27 | 2.24 | 1.84 | 2.41 | 2.01 | 0.28 | 2.61 | Т | Т | 15.04 |
| | 2006 | Т | 0.18 | 1.62 | 0.77 | 2.15 | 0.57 | 0.62 | 1.51 | 4.87 | 1.30 | 0.26 | 1.71 | 15.56 |
| | 2007 | 1.12 | 0.36 | 5.94 | 1.23 | 5.35 | 3.39 | 0.94 | 1.99 | 2.20 | 0.28 | 0.20 | 0.94 | 23.94 |
| | 2008 | 0.07 | 0.72 | 0.10 | 1.07 | 5.32 | 2.91 | 1.77 | 3.48 | 8.70 | 3.77 | 0.08 | 0.01 | 28.00 |
| | 2009 | 0.13 | 0.73 | 0.37 | 1.51 | 0.68 | 2.44 | 1.69 | 0.47 | 2.46 | 0.78 | 0.13 | 1.48 | 12.87 |
| | 2010 | 1.41 | 1.78 | 2.85 | 4.65 | 1.14 | 2.55 | 7.14 | 1.33 | 0.93 | 2.61 | 0.07 | Т | 26.46 |
| | 2011 | 0.06 | 0.43 | 0.35 | 0.00 | 0.26 | Т | 0.05 | 0.34 | 1.25 | 1.34 | 0.26 | 1.52 | 5.86 |
| | 2012 | 0.01 | 0.57 | 0.71 | 1.03 | 1.33 | 1.60 | 0.26 | 2.91 | 2.04 | 0.28 | 0.01 | 0.68 | 11.43 |
| | 2013 | 0.92 | 1.31 | Т | 0.04 | 1.15 | 1.67 | 3.37 | 1.32 | 0.54 | 1.15 | 0.54 | 0.60 | 12.61 |
| | 2014 | 0.00 | 0.16 | 0.17 | 0.57 | 5.23 | 2.59 | 2.64 | 0.54 | 6.94 | 0.38 | 2.95 | 0.39 | 22.56 |
| | 2015 | 1.61 | 0.66 | 0.30 | 1.24 | 12.12 | 2.15 | 3.96 | 0.25 | 0.49 | 4.29 | 0.81 | 1.57 | 29.45 |
| | 2016 | 0.30 | 0.09 | 0.20 | 1.02 | 3.66 | 1.04 | 0.58 | 3.03 | 1.47 | 1.05 | 0.54 | 0.49 | 13.47 |
| | 2017 | 2.03 | 0.89 | 0.67 | 1.32 | 0.58 | 1.78 | 5.84 | 4.85 | 3.46 | 0.50 | 0.03 | Т | 21.95 |
| | 2018 | Т | 0.20 | 0.87 | 0.03 | 1.26 | 1.36 | 0.88 | 1.25 | 3.26 | 4.65 | 0.07 | 1.44 | 15.27 |
| | 2019 | Т | 0.04 | 1.13 | 1.75 | 3.96 | 2.06 | 4.51 | 2.14 | 5.97 | 1.11 | 1.05 | 0.65 | 24.37 |
| | 2020 | 0.37 | 0.51 | 2.37 | 0.02 | 2.06 | 1.85 | 1.85 | 0.54 | 1.04 | 0.78 | 0.09 | 0.07 | 11.55 |
| | 2021 | 1.00 | 0.25 | 2.31 | 0.19 | 5.86 | 2.48 | 2.99 | 3.63 | 0.60 | 0.63 | 0.38 | 0.23 | 20.55 |
| | 2022 | 0.20 | 0.13 | 0.05 | Т | 3.58 | 0.83 | 0.10 | 5.95 | 0.83 | 2.39 | 0.59 | 0.41 | 15.06 |
| | 2023 | 0.60 | 0.15 | Т | 0.11 | 5.32 | 1.69 | 1.16 | 0.09 | 3.71 | 3.38 | 0.12 | 1.28 | 17.61 |
| Last 25 Yea | urs of | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sen | Oct | Nov | Dec | Total Annual |
| Monthly Average | s, in: | 0.8 | 0.6 | 1.4 | 1.1 | 2.9 | 2.4 | 2.0 | 1.8 | 2.5 | 1.9 | 0.8 | 0.8 | 19.0 |
| , , | | | | | | | | | | | | | | |
| Monthly Distribution of Ave | erage | 4 29/ | 2 20/ | 7 49/ | E 99/ | 45 20/ | 40.69/ | 40 59/ | 0.5% | 42.00/ | 10.0% | 4 29/ | 4 29/ | 100 19/ |
| Precipitation | n, in: | 4.2% | 3.2% | 1.4% | 5.8% | 15.3% | 12.0% | 10.5% | 9.5% | 13.2% | 10.0% | 4.2% | 4.2% | 100.1% |
| Maximum Total An | nnual | | | | | | | | | | | | | |
| Precipitation for Station | n, in: | 33.25 | | (Taken fr | om highe | st annual | total in pa | st 25 reco | rd-years | with comp | lete data · | - 2004) | | |
| Distribution of 25 | -vear | Jan | Feb | Mar | Apr | Mav | Jun | Jul | Aua | Sep | Oct | Nov | Dec | Total Annual |
| Maximum Precipita | tion: | 1.40 | 1.06 | 2.46 | 1.93 | 5.09 | 4.19 | 3.49 | 3.16 | 4.39 | 3.33 | 1.40 | 1.40 | 33.30 |

T - is defined as "trace" and does not constitute enough rainfall to quantify

NET EVAPORATION DATA FROM Water Data for Texas, "Lake Evaporation", QUADRANGLE 406

Used for determining average and 25 year low evaporation data in water balance. Net lake evaporation rate is defined as the gross rate minus the precipitation rate over the lake surface.

Year Feb. Mar Apr May Jul Sep Oct Nov Dec Total Annual Jan. Jun Aua 4.88 8.00 5.04 8.28 4.44 3.24 2.28 75.21 1998 3.29 1.72 9.29 13.36 11.39 1999 3.36 3.55 2.56 4.24 4.50 2.80 7.49 6.32 6.67 6.49 3.89 60.01 8.14 0.92 2000 4.69 4.91 2.27 3 64 8.19 -0.18 9.21 7.66 7.42 -0.18 1.53 50.08 0.99 0 52 1 72 2001 0.00 4 85 3 4 4 8 23 9 90 5 96 5 93 5 92 -0 76 46 7 4.47 2002 3.72 1.84 3.36 8.05 8.05 6.69 8.83 6.11 0.87 2.81 2.35 57.15 2003 5.85 65.81 4.03 2.35 5.59 6.70 5.96 3.27 11.52 8.85 4 69 3.99 3.01 0.43 4.05 4.54 2004 2.74 2.41 2.73 7.86 3.67 2.94 1.02 -3.83 2.50 31.06 2005 1 20 0.82 3.63 6 55 2 61 7 06 6.96 3.77 6 72 2 4 9 5 4 8 3 89 51.18 2006 5.87 4.00 3.31 5.14 4.33 8.21 9.11 5.29 0.62 1.34 4.34 0.98 52.54 2007 1.17 2.95 -1.07 3.20 -0.01 1.15 5.03 4.22 3.47 6.81 4.02 1.93 32.87 2008 1.63 4.88 5.59 6.42 4.68 8.22 5.80 2.97 -1.67 1.64 4.14 4.55 48.85 2009 2.79 3.52 4.93 5.73 6.62 6.72 4.47 7.63 2.99 3.36 5.77 0.66 55.19 -4.34 2010 1.16 0.75 2.37 6.02 6.43 5.06 4.22 5.05 6.42 6.17 39.92 0.61 2011 4.20 4.69 11.31 13.15 13.49 13.02 8.35 5.94 95.75 6.18 10.38 4.72 0.32 2012 3.35 2.86 5.08 4.62 6.97 4.93 3.23 59.4 4.78 5.88 7.77 4.44 5.49 6.85 68.63 2013 2.57 2.29 6.89 7.80 8.21 8.04 6.44 7.30 6.47 4.57 1.20 2014 4.12 2.10 6.39 7.79 3.96 6.32 7.56 7.76 -1.72 5.26 1.48 1.52 52.54 2015 0.21 1.91 3.23 3.74 -4.92 5.27 5.08 8.67 7.44 2.63 2.46 1.13 36.85 2.16 4.44 7.92 1.92 2.58 2.28 2016 4.17 5.76 1.30 5.05 4.28 6.55 48.41 2017 0.69 3.08 4.54 3.97 6.12 4.72 3.93 2.33 1.33 6.06 5.00 2.82 44.59 8.94 2018 4.46 4.12 6.05 7.98 8.05 2.97 1.61 60.68 9.78 7.57 1.86 -2.712019 2.77 3.21 3.27 2.17 -1.41 5.92 8.71 9.61 2.96 6.71 2.03 3.66 49.61 2020 2.87 2.58 5.19 4.44 6.96 5.71 4.61 5.19 3.92 2.54 54.64 1.54 9.09 2021 0 43 2 00 4 37 4 37 -0 55 1 89 3 4 1 4 32 4 36 5 91 40 54 4 84 5 19 3.30 2.30 9.84 11.47 65.59 2022 7.64 8.47 2.58 4.59 4.51 4.08 3.64 3.17 42.96 2023 2.96 2.41 4.24 5.05 0.07 3.81 6.04 9.28 3.52 1.15 3.27 1.16 Last 25 Years of Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec **Total Annual** 2.6 2.8 6.3 7.1 6.6 3.4 2.5 53.3 Monthly Averages, in: 4.0 5.4 4.4 4.2 4.0 Monthly Distribution of Average Evaporation, in: 4.9% 5.3% 7.5% 10.1% 8.3% 11.8% 13.3% 12.4% 7.9% 7.5% 6.4% 4.7% 100.1% MinimumTotal Annual Precipitation for Station, in: 42.96 (Taken from lowest annual total in past 25 record-years with complete data - 1966) Feb Total Annual Distribution of 25-year Jan Mar May Jun Jul Sep Oct Nov Dec Apr Aug

> 2.11 https://waterdatafortexas.org/lake-evaporation-rainfall

Minimum Evaporation:

2.28

3.22



3.57

4.34

5.07

5.71

5.33

3.39

3.22

2.75

2.02

43.01

Nitrogen Balance and Hydraulic Loading Limitations

Crop Nitrogen Requirements

| Crop | Range | (kg/ha * yr | or lb/ac *yr) | |
|---|-------------------------------|--|-----------------------------------|-----------|
| Bermuda Grass | 4-6 lbs/100 | 00 ft2 | 261 | (maximum) |
| | | | | |
| Total annual (limiting | requiremen | it above) | 261 | |
| Where more than o requirements shall l | ne crop is lis be used for | sted above, the lower of the calculations below. | nitrogen uptake | |
| Crop nutrient requir Service publication, | ement taker "Lawn Fert | n from Texas Agricultral Exte tilization in Texas", Duble, Mo | ension CAfee and Novos | ad |
| Nitrogen Volatilizati | on | | | _ |
| Nitrogen volatilized (2 | 20% of crop | req). 52.2 | lb/ac*yr | - |
| Total Nitrogen to be | Applied | | | _ |
| Total nitrogen applied | l annually | 313.2 | lb/ac*yr | - |
| Nitrogen Content in | Effluent to | be Applied | | |
| Nitrogen in effluent | | 20 | mg/l * | |
| * TKN from effluent therefore, due to co | sample = 12 onflicting tes | 28 mg/l, however, Nitrate-Nitr st data, a conservative value | ogen was ND; of 20mg/l is used | d. |

Annual Limitations on Applied Effluent Based on Crop Nitrogen Utilization

| Effluent application limitation (L) | 5.76 | ft/year |
|-------------------------------------|-------|---------|
| | 69.12 | in/year |
| | | |

 $L = \frac{N}{2.72 \text{ C}}$

where, L = annual liquid loading

C = effluent nitrogen concentration (mg/l)

N = annual crop requirement of nitrogen plus 20% volatilization (lb / acre / yr)

Computation of NRCS Composite Curve Number for Runoff Calculations

| | | | Hydrologic | | | | Weighted |
|--------|----------------|-------|------------|---------------------------|-----------------|-----------|----------|
| Symbol | Soil type | Area | Soil Group | Land use | % of total area | CN | CN |
| AcB | Acuff Loam | 8.6 | В | Livestock pasture/grazing | 6.2 | 61 | 3.8 |
| | 1-3% | | | | | | |
| EsA | Estacado Loam | 19.3 | В | Livestock pasture/grazing | 29.6 | 61 | 18.1 |
| | 0-1% | | | | | | |
| LhA | Lenora-Hindman | 4.1 | С | Livestock pasture/grazing | 5.1 | 74 | 3.8 |
| | 0-2% | | | | | | |
| PoA | Portales Loam | 83.6 | В | Livestock pasture/grazing | 45.9 | 61 | 28.0 |
| | 0-1% | | | | | | |
| PoB | Portales Loam | 27.4 | В | Livestock pasture/grazing | 13.0 | 61 | 7.9 |
| | 1-3% | | | | | | |
| | | | | | 0.0 | | 0.0 |
| | | | | | | | |
| | | | | | 0.0 | | 0.0 |
| | | | | | 0.0 | | 0.0 |
| | | | | | 0.0 | | 0.0 |
| | | | | | | | |
| | total area = | 143.0 | acres | | Compos | site CN = | 62 |
| | _ | | | | | S' = | 6.1 |
| | | | | | | | |

Data Source: US Department of Agriculture National Engineering Handbook.

 $S = \frac{1000}{CN} -10$
ATTACHMENT R

Pollutant Analysis of Treated Effluent Laboratory Results & Chain of Custody



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Raymond Vega City of Tahoka PO BOX 300 Tahoka, Texas 79373 Generated 3/18/2024 12:26:58 PM

JOB DESCRIPTION

C Lagoon

JOB NUMBER

820-12174-1

Eurofins Lubbock 6701 Aberdeen Ave. Suite 8 Lubbock TX 79424







Eurofins Lubbock

Job Notes

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

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization

aylor

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1

5

Authorized for release by Holly Taylor, Project Manager Holly.Taylor@et.eurofinsus.com (806)794-1296

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3

5

Qualifiers

General Chemistry

| Qualifier | Qualifier Description |
|-----------|--|
| HF | Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time. |
| U | Indicates the analyte was analyzed for but not detected. |

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|---|
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

Eurofins Lubbock

Job Narrative 820-12174-1

Receipt

The sample was received on 2/22/2024 10:03 AM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 9.1° C.

General Chemistry

Method 350.1: The matrix spike duplicate (MSD) recoveries for analytical batch 860-147820 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method SM 4500 CI G: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-147656 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Subcontract non-Sister

See attached subcontract report.

Client Sample Results

0.200

10.0

20.0

6.67

0.250

12.0

128

4.92

2300

1240

46.7

22.3

<0.250 UHF

7.70 HF

18.1 HF

Client: City of Tahoka Project/Site: C Lagoon

General Chemistry

Ammonia (EPA 350.1)

pH (SW846 9040C)

Nitrogen, Kjeldahl (EPA 351.2)

Phosphorus Total (EPA 365.1)

Temperature (SW846 9040C)

Total Suspended Solids (SM

Carbonaceous Biochemical

Specific Conductance (SM 2510B)

Total Dissolved Solids (SM 2540C)

Chlorine, Total Residual (SM 4500 Cl

Oxygen Demand (SM5210B CBOD)

Analyte

2540D)

G)

Client Sample ID: C Lagoon Date Collected: 02/22/24 08:51 Date Received: 02/22/24 1

| 0:03 | | | | | | | | | |
|------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| | 9.65 | | 1.00 | 0.508 | mg/L | | | 02/29/24 19:35 | 10 |
| 2) | 128 | | 20.0 | 8.90 | mg/L | | 03/01/24 09:29 | 03/06/24 19:23 | 10 |

0.143 mg/L

SU

10.0 umho/cm @

25C

20.0 mg/L

6.67 mg/L

0.250 mg/L

12.0 mg/L

Degrees C

Job ID: 820-12174-1

Lab Sample ID: 820-12174-1 **Matrix: Water**

03/01/24 19:51

03/01/24 17:40

03/01/24 17:40

03/01/24 17:40

02/27/24 22:22

02/29/24 19:57

02/29/24 14:48

02/23/24 10:00 02/23/24 15:03

5 |1 |2 |3

10

10

10

1

1

1

1

1

5

1

Eurofins Lubbock

5 6 7

Method: 350.1 - Nitrogen, Ammonia

| Lab Sample ID: MB 860-147820 Matrix: Water |)/164 | | | | | | | | (| Clie | ent Sam | ple ID: M Prep Ty | ethod pe: To | Blank tal/NA |
|---|----------------|-----------|-------|-------|--------|--------|-------|--------------|------------|----------|----------|-----------------------------------|-----------------|-----------------|
| Analysis Batch: 147820 | мр | мр | | | | | | | | | | | | |
| Analyta | IVIB Bosult | MB | | ы | | ו וחוא | Init | | п | D | roparod | Apoly | rod | Dil Eac |
| Analyte | | | | 0 100 | | | na/l | | · <u> </u> | F | repareu | $-\frac{\text{Allaly}}{02/20/24}$ | 18.10 - | |
| Annona | <0.0500 | 0 | | 0.100 | 0.0 | 0500 1 | ng/∟ | | | | | 02/29/24 | 10.10 | I |
| Lab Sample ID: MB 860-147820 | 0/56 | | | | | | | | (| Clie | ent Sam | ple ID: M | ethod | Blank |
| Matrix: Water | | | | | | | | | | | | Prep Ty | pe: To | tal/NA |
| Analysis Batch: 147820 | | | | | | | | | | | | | | |
| | МВ | MB | | | | | | | | | | | | |
| Analyte | Result | Qualifier | | RL | I | MDL (| Jnit | | D | Ρ | repared | Analy | zed | Dil Fac |
| Ammonia | <0.0508 | U | | 0.100 | 0.0 | 0508 r | ng/L | | | | | 02/29/24 | 13:04 | 1 |
| | | | | | | | | | | | | | | |
| Lab Sample ID: LCS 860-14782 | 0/165 | | | | | | | CI | ient | Sar | nple ID | : Lab Cor | ntrol Sa | ample |
| Matrix: Water | | | | | | | | | | | | Prep Ty | pe: To | tal/NA |
| Analysis Batch: 147820 | | | | | | | | | | | | | | |
| | | | Spike | | LCS | LCS | - | | | _ | | %Rec | | |
| Analyte | | | Added | | Result | Quali | fier | Unit | | D | %Rec | Limits | | |
| Ammonia | | | 1.00 | | 1.085 | | | mg/L | | | 108 | 90 - 110 | | |
| Lab Sample ID: 1 CS 960 14792 | 0/57 | | | | | | | | iont | 6 | | | strol S | amplo |
| Matrix: Wator | .0/37 | | | | | | | | ent | Jai | inple iD | Prop Ty | | |
| Analysis Batch: 147820 | | | | | | | | | | | | Fiebily | pe. 10 | |
| Analysis Batch. 147020 | | | Snike | | LCS | LCS | | | | | | %Rec | | |
| Analyte | | | | | Result | Qualit | fier | Unit | | п | %Rec | Limits | | |
| Ammonia | | | 1 00 | | 0.9831 | Quuin | | ma/l | | _ | 98 | 90 - 110 | | |
| | | | | | 0.000 | | | <u>g</u> / _ | | | | 00-110 | | |
| Lab Sample ID: LCSD 860-1478 | 320/166 | | | | | | С | lient S | Sam | ple | ID: Lab | Control | Sampl | e Dup |
| Matrix: Water | | | | | | | | | | | | Prep Ty | pe: To | tal/NA |
| Analysis Batch: 147820 | | | | | | | | | | | | | - - | |
| | | | Spike | | LCSD | LCSD |) | | | | | %Rec | | RPD |
| Analyte | | | Added | | Result | Quali | fier | Unit | | D | %Rec | Limits | RPD | Limit |
| Ammonia | | | 1.00 | | 1.085 | | | mg/L | | _ | 108 | 90 - 110 | 0 | 20 |
| — Г .. . | | | | | | | | | | | | | | _ |
| Lab Sample ID: LCSD 860-1478 | 320/58 | | | | | | C | lient S | Sam | ple | ID: Lab | Control | Sampl | e Dup |
| Matrix: Water | | | | | | | | | | | | Prep Ty | pe: To | tal/NA |
| Analysis Batch: 147820 | | | | | | | | | | | | ~ - | | |
| | | | Spike | | LCSD | LCSD |) | | | _ | ~ - | %Rec | | RPD |
| Analyte | | | Added | | Result | Quali | fier | Unit | | <u>D</u> | %Rec | | | Limit |
| | | | 1.00 | | 1.015 | | | mg/L | | | 102 | 90 - 110 | 3 | 20 |
| Method: 351.2 - Nitrogen, 1 | Total Kjel | dahl | | | | | | | | | | | | |
| Lab Sample ID: MB 860-147764 | 1/32-4 | | | | | | | | | Clie | nt Sam | nle ID· M | ethod | Blank |
| Matrix: Water | | | | | | | | | | | in oan | Pren Tv | ne: To | tal/NA |
| Analysis Batch: 150055 | | | | | | | | | | | | Prep Ba | atch: 1 | 47764 |

| | MB | MB | | | | | | | |
|--------------------|---------|-----------|-------|--------|------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Nitrogen, Kjeldahl | <0.0890 | U | 0.200 | 0.0890 | mg/L | | 03/01/24 09:29 | 03/06/24 18:42 | 1 |

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5 6

Method: 351.2 - Nitrogen, Total Kjeldahl (Continued)

| Lab Sample ID: MB 860-147 Matrix: Water | 764/4-A | | | | | | | CI | ient Sam | ple ID: M Prep Ty Prop Br | ethod pe: To | Blank tal/NA |
|--|-------------|-----------|----------|-------|--------|-----------|----------|----------|--|---------------------------------|-----------------|-----------------|
| Analysis Batch. 150055 | МВ | мв | | | | | | | | гтер Ба | | 4//04 |
| Analyte | Result | Qualifier | | RL | | MDL Unit | | D | Prepared | Analyz | zed | Dil Fac |
| Nitrogen, Kjeldahl | <0.0890 | U | (| 0.200 | 0.0 | 0890 mg/L | | 03/ | /01/24 09:29 | 03/06/24 | 18:29 | 1 |
| Lab Sample ID: LCS 860-14 | 7764/33-A | | | | | | Cli | ent Sa | ample ID: | Lab Cor | trol S | ample |
| Matrix: Water | | | | | | | | | | Prep Ty | pe: To | tal/NA |
| Analysis Batch: 150055 | | | . | | | | | | | Prep Ba | itch: 1 | 47764 |
| Amalista | | | Spike | | LUS | LUS | 11 | - | 0/ Dee | %Rec | | |
| Analyte Nitrogon Kieldahl | | | 2 00 | | 1 002 | Qualifier | | L | 100 % Rec | | | |
| | | | 2.00 | | 1.992 | | mg/∟ | | 100 | 90-110 | | |
| Lab Sample ID: LCSD 860-1 | 47764/34-A | | | | | (| Client S | ample | e ID: Lab | Control | Sampl | le Dup |
| Matrix: Water | | | | | | | | - C | | Prep Ty | pe: To | tal/NA |
| Analysis Batch: 150055 | | | | | | | | | | Prep Ba | tch: 1 | 47764 |
| | | | Spike | | LCSD | LCSD | | | | %Rec | | RPD |
| Analyte | | | Added | | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Nitrogen, Kjeldahl | | | 2.00 | | 1.967 | | mg/L | | 98 | 90 - 110 | 1 | 20 |
| | | | | | | | 01 | ant C | | Lah Car | | omolo |
| Matrix: Water | 4//04/J-A | | | | | | CII | ent Se | ample ID. | Drop Ty | no To | |
| Analysis Batch: 150055 | | | | | | | | | | Pron Ba | tch: 1 | A776A |
| Analysis Datch. 100000 | | | Spike | | LLCS | LLCS | | | | %Rec | | 4//04 |
| Analyte | | | Added | | Result | Qualifier | Unit | D | %Rec | Limits | | |
| Nitrogen, Kjeldahl | | | 0.200 | | 0.2498 | | mg/L | | 125 | 50 - 150 | | |
| Method: 365.1 - Phosph | orus, Total | | | | | | | | | | | |
| Lab Sample ID: MB 860-148 | 079/93 | | | | | | | CI | ient Sam | ple ID: M | ethod | Blank |
| Matrix: Water | | | | | | | | | | Prep Ty | pe: To | tal/NA |
| Analysis Batch: 148079 | | | | | | | | | | | | |
| | MB | MB | | | | | | | | | | |
| Analyte | Result | Qualifier | | RL | | MDL Unit | | <u>D</u> | Prepared | Analyz | zed | Dil Fac |
| Phosphorus Iotal | <0.0143 | U | 0. | 0200 | 0.0 |)143 mg/L | | | | 03/01/24 | 19:21 | 1 |
| Lab Sample ID: LCS 860-14 | 8079/94 | | | | | | Cli | ent Sa | ample ID: | Lab Cor | trol S | ample |
| Matrix: Water | | | | | | | | | | Prep Tv | pe: To | tal/NA |
| Analysis Batch: 148079 | | | | | | | | | | | | |
| | | | Spike | | LCS | LCS | | | | %Rec | | |
| Analyte | | | Added | | Result | Qualifier | Unit | D | %Rec | Limits | | |
| Phosphorus Total | | | 0.250 | | 0.2440 | | mg/L | | 98 | 90 - 110 | | |
| | | | | | | | | _ | | | | |
| Lab Sample ID: LCSD 860-1 | 48079/95 | | | | | (| Client S | ample | e ID: Lab | Control | Sampl | le Dup |
| Matrix: Water | | | | | | | | | | Prep Ty | pe: To | tal/NA |
| Analysis Batch: 148079 | | | 0 | | 1.005 | 1.005 | | | | 0/ D = - | | |
| Analyta | | | Spike | | LUSD | LUSD | 11 | - | 0/ D = = | %ReC | 000 | RPD |
| Analyte Decemberus Total | | | Added | | Result | Qualifier | | | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | | - 10 | |
| Phosphorus lotal | | | 0.250 | | 0.2450 | | mg/L | | 98 | 90 - 110 | 0 | 20 |

5 6

Method: SM 2510B - Conductivity, Specific Conductance

| Lab Sample ID: MB 860-147894/8 Matrix: Water | 2 | | | | | | | | C | Clie | ent Sam | ple ID: M Prep Ty | ethod pe: To | Blank tal/NA |
|---|-------------------------------------|----------------------|--|-------------------|---|---------------------------|------------------------------|--|--------------------|--------------------------|---|---|--|--|
| Analysis Batch: 147894 | | | | | | | | | | | | | | |
| Analista | MB | MB | | | | | 11 | | - | . | | A a h | ! | |
| Specific Conductance | <10.0 | U | | RL 10.0 | | 10.0 | umhc 25C | o/cm @ | <u>р</u> — - | PI | repared | 03/01/24 | 17:11 | 1 |
| Lab Sample ID: LCS 860-147894/3 | 39 | | | | | | | Cli | ent | Sar | nple ID | : Lab Cor | ntrol S | ample |
| Matrix: Water | | | | | | | | | | | | Prep Ty | pe: To | tal/NA |
| Analysis Batch: 147894 | | | | | | | | | | | | | | |
| | | | Spike | | LCS | LCS | 3 | | | | | %Rec | | |
| Analyte | | | Added | | Result | Qua | alifier | Unit | | D | %Rec | Limits | | |
| Specific Conductance | | | 1410 | | 1412 | | | umho/c @ 25C | m | _ | 100 | 85 - 115 | | |
| Lab Sample ID: LCSD 860-147894 | 4/40 | | | | | | c | Client S | Samp | ole | ID: Lab | | Sampl | e Dup |
| Analysis Batch: 1/789/ | | | | | | | | | | | | герту | pe. 10 | |
| Analysis Datch. 147034 | | | Snike | | | 1.05 | SD OF | | | | | %Rec | | RPD |
| Analyte | | | babbA | | Result | Qua | lifier | Unit | | р | %Rec | Limits | RPD | Limit |
| Specific Conductance | | | 1410 | | 1412 | | | umho/c @ 25C | m | _ | 100 | 85 - 115 | 0 | 20 |
| L | | | | | | | | | | | | | | |
| Method: SM 2540C - Solids, ⁻ Lab Sample ID: MB 860-147301/1 | Total D | issolve | d (TD | >) | | | | | (| Clie | ent Sam | ple ID: M | ethod | Blank |
| Method: SM 2540C - Solids, Lab Sample ID: MB 860-147301/1 Matrix: Water Analysis Batch: 147301 | <u>Total D</u> мв | MB | | <u>>)</u> | | | | | C | Clie | ent Sam | ple ID: M Prep Ty | ethod pe: To | Blank tal/NA |
| Method: SM 2540C - Solids, Lab Sample ID: MB 860-147301/1 Matrix: Water Analysis Batch: 147301 Analyte | Total D MB Result | MB Qualifier | a (TD: | >) | | MDL | Unit | | D | Clie | ent Sam | ple ID: M Prep Ty Analyz | ethod pe: To ^{zed} | Blank tal/NA Dil Fac |
| Method: SM 2540C - Solids, Lab Sample ID: MB 860-147301/1 Matrix: Water Analysis Batch: 147301 Analyte Total Dissolved Solids | MB Result <5.00 | MB Qualifier U | <u>a (ID:</u> | RL 5.00 | | MDL 5.00 | Unit mg/L | | D | Clie Pi | ent Sam | ple ID: M Prep Ty 02/27/24 | ethod pe: To zed 22:22 | Blank tal/NA Dil Fac |
| Method: SM 2540C - Solids, Lab Sample ID: MB 860-147301/1 Matrix: Water Analysis Batch: 147301 Analyte Total Dissolved Solids Lab Sample ID: LCS 860-147301/2 Matrix: Water Analysis Batch: 147301 | MB Result <5.00 | MB Qualifier U | <u>a (ID:</u> | RL 5.00 | | MDL 5.00 | Unit mg/L | Cli | D ent s | Clie Pr Sar | ent Sam repared mple ID | ple ID: M Prep Ty | ethod pe: To 22:22 htrol S pe: To | Blank tal/NA Dil Fac 1 ample tal/NA |
| Method: SM 2540C - Solids, Lab Sample ID: MB 860-147301/1 Matrix: Water Analysis Batch: 147301 Analyte Total Dissolved Solids Lab Sample ID: LCS 860-147301/2 Matrix: Water Analysis Batch: 147301 | MB Result <5.00 | MB Qualifier U | d (TD: | RL 5.00 | LCS | MDL 5.00 | Unit mg/L | Cli | D ent \$ | Pi Sar | repared | ple ID: M Prep Ty - <u>Analy</u> 02/27/24 : Lab Cor Prep Ty %Rec | ethod pe: To 22:22 htrol S pe: To | Blank tal/NA Dil Fac 1 ample tal/NA |
| Method: SM 2540C - Solids, Lab Sample ID: MB 860-147301/1 Matrix: Water Analysis Batch: 147301 Analyte Total Dissolved Solids Lab Sample ID: LCS 860-147301/2 Matrix: Water Analysis Batch: 147301 Analyte | MB Result <5.00 | MB Qualifier U | Spike Added | RL 5.00 | LCS Result | MDL 5.00 LCS Qua | Unit mg/L | Cli | D ent S | Pr Sar | ent Sam repared mple ID %Rec | Prep Ty Analyz - Analyz 02/27/24 : Lab Cor Prep Ty %Rec Limits | ethod pe: To 22:22 htrol S pe: To | Blank tal/NA Dil Fac 1 ample tal/NA |
| Method: SM 2540C - Solids, Lab Sample ID: MB 860-147301/1 Matrix: Water Analysis Batch: 147301 Analyte Total Dissolved Solids Lab Sample ID: LCS 860-147301/2 Matrix: Water Analysis Batch: 147301 Analyte Total Dissolved Solids | MB Result <5.00 | MB Qualifier U | Spike Added 1000 | RL 5.00 | LCS Result 1110 | MDL 5.00 LCS Qua | Unit mg/L S | Cli <u>Unit</u> mg/L | D ent s | Pi Sar | repared mple ID | Analyz - Analyz 02/27/24 : Lab Cor Prep Ty %Rec Limits 80 - 120 | ethod pe: To 22:22 htrol S pe: To | Blank tal/NA |
| Method: SM 2540C - Solids, Lab Sample ID: MB 860-147301/1 Matrix: Water Analysis Batch: 147301 Analyte Total Dissolved Solids Lab Sample ID: LCS 860-147301/2 Matrix: Water Analysis Batch: 147301 Analyte Total Dissolved Solids Lab Sample ID: LCSD 860-147307 Matrix: Water Analysis Batch: 147301 | MB <u>Result</u> <5.00 2 | MB Qualifier U | Spike Added 1000 | RL 5.00 | LCS Result 1110 | MDL 5.00 LCS Qua | Unit mg/L | Cli Unit mg/L Client S | C ent S Samp | Pi Sar D | repared nple ID <u>%Rec</u> 111 ID: Lab | Analyz - Analyz 02/27/24 : Lab Cor Prep Ty %Rec Limits 80 - 120 Control Prep Ty | ethod pe: To 22:22 htrol S pe: To Sampl pe: To | Blank tal/NA Dil Fac 1 ample tal/NA e Dup tal/NA |
| Method: SM 2540C - Solids, Lab Sample ID: MB 860-147301/1 Matrix: Water Analysis Batch: 147301 Analyte Total Dissolved Solids Lab Sample ID: LCS 860-147301/2 Matrix: Water Analysis Batch: 147301 Analyte Total Dissolved Solids Lab Sample ID: LCSD 860-147307 Matrix: Water Analysis Batch: 147301 | MB <u>Result</u> <5.00 2 | MB Qualifier U | Spike Added 1000 | <u>RL</u> 5.00 | LCS Result 1110 | MDL 5.00 LCS Qua | Unit mg/L S alifier | Cli <u>Unit</u> mg/L Client S | C D dent \$ | Pi Sar D | ent Sam repared mple ID <u>%Rec</u> 111 ID: Lab | Analyz - Analyz 02/27/24 : Lab Cor Prep Ty %Rec Limits 80 - 120 Control Prep Ty %Rec | ethod pe: To 22:22 htrol S pe: To Sampl pe: To | Blank tal/NA Dil Fac 1 ample tal/NA e Dup tal/NA |
| Method: SM 2540C - Solids, Lab Sample ID: MB 860-147301/1 Matrix: Water Analysis Batch: 147301 Analyte Total Dissolved Solids Lab Sample ID: LCS 860-147301/2 Matrix: Water Analysis Batch: 147301 Analyte Total Dissolved Solids Lab Sample ID: LCSD 860-147307 Matrix: Water Analysis Batch: 147301 Analyte | MB Result <5.00 | MB Qualifier U | Spike Added 1000 | <u>RL</u> 5.00 | LCS Result 1110 LCSD Result | MDL 5.00 LCS Qua | Unit mg/L S alifier | Cli Unit mg/L Client S | C P ⊡ent \$ | Pi Sar D Dle | ent Sam repared mple ID <u>%Rec</u> 111 ID: Lab | Prep Ty Analyz O2/27/24 Lab Cor Prep Ty %Rec Limits 80 - 120 Control Prep Ty %Rec Limits | ethod pe: To 22:22 htrol S pe: To Sampl pe: To | Blank tal/NA Dil Fac 1 ample tal/NA e Dup tal/NA RPD |
| Method: SM 2540C - Solids, Lab Sample ID: MB 860-147301/1 Matrix: Water Analysis Batch: 147301 Analyte Total Dissolved Solids Lab Sample ID: LCS 860-147301/2 Matrix: Water Analysis Batch: 147301 Analyte Total Dissolved Solids Lab Sample ID: LCSD 860-147307 Matrix: Water Analysis Batch: 147301 Analyte Total Dissolved Solids | MB Result <5.00 | MB Qualifier U | Spike Added 1000 Spike Added 1000 | RL 5.00 | LCS Result 1110 LCSD Result 1111 | MDL 5.00 Qua | Unit mg/L S alifier | Cli Unit mg/L Client S | c D ent \$ | Pi Sar D Dle | ent Sam repared mple ID <u>%Rec</u> 111 ID: Lab | ple ID: M Prep Ty | ethod pe: To 22:22 htrol S pe: To Sampl pe: To | Blank tal/NA Dil Fac 1 ample tal/NA e Dup tal/NA RPD Limit 10 |
| Method: SM 2540C - Solids, Lab Sample ID: MB 860-147301/1 Matrix: Water Analysis Batch: 147301 Analyte Total Dissolved Solids Lab Sample ID: LCS 860-147301/2 Matrix: Water Analysis Batch: 147301 Analyte Total Dissolved Solids Lab Sample ID: LCSD 860-147307 Matrix: Water Analysis Batch: 147301 Analyte Total Dissolved Solids Lab Sample ID: LLCS 860-147307 Matrix: Water Analysis Batch: 147301 Analyte Total Dissolved Solids | MB Result <5.00 | MB Qualifier U | Spike Added 1000 Spike Added 1000 | RL 5.00 | LCS Result 1110 LCSD Result 1111 | MDL 5.00 Qua | Unit mg/L | Cli mg/L Client S Unit mg/L Cli | ent Samp | Die Die Die Sar | ent Sam repared mple ID <u>%Rec</u> 111 ID: Lab <u>%Rec</u> 111 mple ID | ple ID: M Prep Ty | ethod pe: To 22:22 htrol S pe: To Sampl pe: To 0 htrol S pe: To | Blank tal/NA Dil Fac 1 ample tal/NA e Dup tal/NA RPD Limit 10 ample tal/NA |
| Method: SM 2540C - Solids, Lab Sample ID: MB 860-147301/1 Matrix: Water Analysis Batch: 147301 Analyte Total Dissolved Solids Lab Sample ID: LCS 860-147301/2 Matrix: Water Analysis Batch: 147301 Analyte Total Dissolved Solids Lab Sample ID: LCSD 860-147307 Matrix: Water Analysis Batch: 147301 Analyte Total Dissolved Solids Lab Sample ID: LLCS 860-147307 Matrix: Water Analysis Batch: 147301 Analyte Total Dissolved Solids | MB Result <5.00 | MB Qualifier U | Spike Added 1000 Spike Added | RL 5.00 | LCS Result 1110 LCSD Result 1111 | MDL 5.00 LCS Qua | Unit mg/L | Cli mg/L Client S Unit mg/L Cli | Cent Samp | Die Die Sar | ent Sam repared mple ID <u>%Rec</u> 111 ID: Lab <u>%Rec</u> 111 mple ID | ple ID: M Prep Ty 202/27/24 Lab Cor Prep Ty %Rec Limits 80 - 120 Control Prep Ty | ethod pe: To 22:22 htrol S pe: To Sampl pe: To 0 htrol S pe: To | Blank tal/NA Dil Fac 1 ample tal/NA e Dup tal/NA RPD Limit 10 ample tal/NA |
| Method: SM 2540C - Solids, Lab Sample ID: MB 860-147301/1 Matrix: Water Analysis Batch: 147301 Analyte Total Dissolved Solids Lab Sample ID: LCS 860-147301/2 Matrix: Water Analysis Batch: 147301 Analyte Total Dissolved Solids Lab Sample ID: LCSD 860-147307 Matrix: Water Analysis Batch: 147301 Analyte Total Dissolved Solids Lab Sample ID: LLCS 860-147301 Matrix: Water Analysis Batch: 147301 Analyte Total Dissolved Solids | MB Result <5.00 | MB Qualifier U | Spike Added 1000 Spike Added | RL 5.00 | LCS Result 1110 LCSD Result 1111 | MDL 5.00 LCS Qua | Unit mg/L S alifier | Cli Unit mg/L Client S Unit Cli | C ent S Samp | De De Sar | ent Sam | Ple ID: M Prep Ty 02/27/24 : Lab Cor Prep Ty %Rec Limits 80 - 120 • Control Prep Ty %Rec Limits 80 - 120 • Control Prep Ty %Rec Limits 80 - 120 | ethod pe: To 22:22 htrol S pe: To Sampl pe: To 0 htrol S pe: To | Blank tal/NA Dil Fac 1 ample tal/NA e Dup tal/NA RPD Limit 10 ample tal/NA |

5 6

Method: SM 2540D - Solids, Total Suspended (TSS)

| Lab Sample ID: MB 860-147706/1 Matrix: Water | | | | | | | Cli | ent Sarr | ple ID: M Prep Ty | ethod pe: Tot | Blank tal/NA |
|--|---------------|------------------|------------|--------|-----------|----------|----------|----------|----------------------|---------------------|-----------------|
| Analysis Batch: 147706 | | | | | | | | | | | |
| Analyto | MB | MB Qualifier | Б | | | | n 6 | Proparad | Analys | od | Dil Eac |
| Total Suspended Solids | <4.00 | U | <u>4.0</u> | 0 | 4.00 mg/L | | <u> </u> | repareu | | 19:57 | 1 Dil Fac |
| Lab Sample ID: LCS 860-147706/2 Matrix: Water | | | | | | Clie | ent Sa | mple ID | : Lab Cor Prep Ty | itrol Sa pe: Tot | ample tal/NA |
| Analysis Batch: 147706 | | | Spike | LCS | LCS | | | | %Rec | | |
| Analyte | | | Added | Result | Qualifier | Unit | D | %Rec | Limits | | |
| Total Suspended Solids | | | 10.0 | 11.30 | | mg/L | | 113 | 80 - 120 | | |
| Lab Sample ID: LCSD 860-147706/3 | 3 | | | | • | Client S | ample | D: Lat | Control | Sample | e Dup tal/NA |
| Analysis Batch: 147706 | | | | | | | | | | | |
| ·····,···· | | | Spike | LCSD | LCSD | | | | %Rec | | RPD |
| Analyte | | | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Total Suspended Solids | | | 10.0 | 11.30 | | mg/L | | 113 | 80 - 120 | 0 | 10 |
| Method: SM 4500 CI G - Chlori | ine, R | esidua | l | | | | | | | | |
| Matrix: Water Analysis Batch: 147656 | МВ | МВ | | | | | | | Prep Ty | pe: Tot | tal/NA |
| Analyte | Result | Qualifier | R | L | MDL Unit | | D F | Prepared | Analyz | ed | Dil Fac |
| Chlorine, Total Residual | <0.0500 | U | 0.050 | 0 0. | 0500 mg/L | - | | | 02/29/24 | 14:48 | 1 |
| Lab Sample ID: LCS 860-147656/4 Matrix: Water Analysis Batch: 147656 | | | | | | Clie | ent Sa | mple ID | : Lab Cor Prep Ty | itrol Sa pe: Tot | ample tal/NA |
| | | | Spike | LCS | LCS | | | | %Rec | | |
| Analyte | | | Added | Result | Qualifier | Unit | D | %Rec | Limits | | |
| Chlorine, Total Residual | | | 0.250 | 0.2699 | | mg/L | | 108 | 85 - 115 | | |
| Lab Sample ID: LCSD 860-147656/ Matrix: Water Analysis Batch: 147656 | 5 | | | | (| Client S | ample | ID: Lat | Control S Prep Ty | Samplo pe: Tot | e Dup tal/NA |
| | | | Spike | LCSD | LCSD | | | | %Rec | | RPD |
| Analyte | | | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Chlorine, Total Residual | | | 0.250 | 0.2572 | | mg/L | | 103 | 85 - 115 | 5 | 20 |
| Method: SM5210B CBOD - Ca | rbona | aceous | BOD, 5 D | ay | | | | | | | |
| Lab Sample ID: SCB 860-147369/2 Matrix: Water | | | | | | | Cli | ent San | ple ID: M Prep Ty | ethod pe: Tot | Blank tal/NA |
| Analysis Batch: 147369 | | | | | | | | | | • | |
| | | ~~~ | | | | | | | | | |
| Analyta | SCB | SCB | | | | | | | | | |
| | SCB Result | SCB Qualifier | R | L | MDL Unit | | D_F | Prepared | Analyz | ed | Dil Fac |

Method: SM5210B CBOD - Carbonaceous BOD, 5 Day (Continued)

| Lab Sample ID: USB 860-147369/1 Matrix: Water Analysis Batch: 147369 | | | | | | | | Cli | ent Sam | ple ID: Method Prep Type: To | l Blank otal/NA |
|--|---------|-----------|-----------|--------|-------|-------|------|-------|----------|----------------------------------|--------------------|
| | USB | USB | | | | | | | | | |
| Analyte | Result | Qualifier | RL | I | MDL | Unit | I | DF | Prepared | Analyzed | Dil Fac |
| Carbonaceous Biochemical Oxygen | 0.09000 | | 0.0000020 | 0.0000 | 020 | mg/L | | | | 02/23/24 10:52 | 1 |
| Demand | | | 0 | | 0 | | | | | | |
| Lab Sample ID: LCS 860-147369/3 Matrix: Water Analysis Batch: 147369 | | | | | | | Clie | nt Sa | imple ID | : Lab Control S Prep Type: To | Sample otal/NA |
| | | | Spike | LCS | LCS | | | | | %Rec | |
| Analyte | | | Added | Result | Quali | ifier | Unit | D | %Rec | Limits | |
| Carbonaceous Biochemical Oxygen Demand | | | 198 | 203.2 | | | mg/L | | 103 | 85 - 115 | |

Eurofins Lubbock

General Chemistry

Prep Batch: 146675

LCSD 860-147820/58

Lab Control Sample Dup

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------------|------------------------|-----------|--------|--------------|-------------|
| 820-12174-1 | C Lagoon | Total/NA | Water | BOD Prep | |
| Analysis Batch: 1473 | 01 | | | | |
| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
| 820-12174-1 | C Lagoon | Total/NA | Water | SM 2540C | •• |
| MB 860-147301/1 | Method Blank | Total/NA | Water | SM 2540C | |
| LCS 860-147301/2 | Lab Control Sample | Total/NA | Water | SM 2540C | |
| LCSD 860-147301/3 | Lab Control Sample Dup | Total/NA | Water | SM 2540C | |
| LLCS 860-147301/4 | Lab Control Sample | Total/NA | Water | SM 2540C | |
| Analysis Batch: 1473 | 69 | | | | |
| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
| 820-12174-1 | C Lagoon | Total/NA | Water | SM5210B CBOD | 146675 |
| SCB 860-147369/2 | Method Blank | Total/NA | Water | SM5210B CBOD | |
| USB 860-147369/1 | Method Blank | Total/NA | Water | SM5210B CBOD | |
| LCS 860-147369/3 | Lab Control Sample | Total/NA | Water | SM5210B CBOD | |
| Analysis Batch: 1476 | 56 | | | | |
| I ah Sample ID | Client Sample ID | Pren Tyne | Matrix | Method | Pron Batch |
| 820-12174-1 | | Total/NA | Water | SM 4500 CI G | Thep Bateri |
| MB 860-147656/3 | Method Blank | Total/NA | Water | SM 4500 CLG | |
| LCS 860-147656/4 | Lab Control Sample | Total/NA | Water | SM 4500 CI G | |
| LCSD 860-147656/5 | Lab Control Sample Dup | Total/NA | Water | SM 4500 CI G | |
| └ Analvsis Batch: 1477 | 06 | | | | |
| Lab Sample ID | Client Sample ID | Ргер Туре | Matrix | Method | Prep Batch |
| 820-12174-1 | C Lagoon | Total/NA | Water | SM 2540D | |
| MB 860-147706/1 | Method Blank | Total/NA | Water | SM 2540D | |
| LCS 860-147706/2 | Lab Control Sample | Total/NA | Water | SM 2540D | |
| LCSD 860-147706/3 | Lab Control Sample Dup | Total/NA | Water | SM 2540D | |
| Prep Batch: 147764 | | | | | |
| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
| 820-12174-1 | C Lagoon | Total/NA | Water | 351.2 | |
| MB 860-147764/32-A | Method Blank | Total/NA | Water | 351.2 | |
| MB 860-147764/4-A | Method Blank | Total/NA | Water | 351.2 | |
| LCS 860-147764/33-A | Lab Control Sample | Total/NA | Water | 351.2 | |
| LCSD 860-147764/34-A | Lab Control Sample Dup | Total/NA | Water | 351.2 | |
| LLCS 860-147764/5-A | Lab Control Sample | Total/NA | Water | 351.2 | |
| Analysis Batch: 1478 | 20 | | | | |
| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
| 820-12174-1 | C Lagoon | Total/NA | Water | 350.1 | |
| MB 860-147820/164 | Method Blank | Total/NA | Water | 350.1 | |
| MB 860-147820/56 | Method Blank | Total/NA | Water | 350.1 | |
| LCS 860-147820/165 | Lab Control Sample | Total/NA | Water | 350.1 | |
| LCS 860-147820/57 | Lab Control Sample | Total/NA | Water | 350.1 | |
| LCSD 860-147820/166 | Lab Control Sample Dup | Total/NA | Water | 350.1 | |

350.1

Water

Total/NA

3/18/2024

General Chemistry

Analysis Batch: 147885

LLCS 860-147764/5-A

Lab Control Sample

| Lab Sample ID | Client Sample ID | Ргер Туре | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|----------|------------|
| 820-12174-1 | C Lagoon | Total/NA | Water | 9040C | |
| Analysis Batch: 1478 | 94 | | | | |
| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
| 820-12174-1 | C Lagoon | Total/NA | Water | SM 2510B | |
| MB 860-147894/82 | Method Blank | Total/NA | Water | SM 2510B | |
| LCS 860-147894/39 | Lab Control Sample | Total/NA | Water | SM 2510B | |
| LCSD 860-147894/40 | Lab Control Sample Dup | Total/NA | Water | SM 2510B | |
| Analysis Batch: 1480 | 79 | | | | |
| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
| 820-12174-1 | C Lagoon | Total/NA | Water | 365.1 | |
| MB 860-148079/93 | Method Blank | Total/NA | Water | 365.1 | |
| LCS 860-148079/94 | Lab Control Sample | Total/NA | Water | 365.1 | |
| LCSD 860-148079/95 | Lab Control Sample Dup | Total/NA | Water | 365.1 | |
| Analysis Batch: 1500 | 55 | | | | |
| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
| 820-12174-1 | C Lagoon | Total/NA | Water | 351.2 | 147764 |
| MB 860-147764/32-A | Method Blank | Total/NA | Water | 351.2 | 147764 |
| MB 860-147764/4-A | Method Blank | Total/NA | Water | 351.2 | 147764 |
| LCS 860-147764/33-A | Lab Control Sample | Total/NA | Water | 351.2 | 147764 |
| LCSD 860-147764/34-A | Lab Control Sample Dup | Total/NA | Water | 351.2 | 147764 |

Total/NA

351.2

Water

Client Sample ID: C Lagoon Date Collected: 02/22/24 08:51 Date Received: 02/22/24 10:03

Lab Sample ID: 820-12174-1 Matrix: Water

| — | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|--------------|-----|--------|---------|---------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Analysis | 350.1 | | 10 | 10 mL | 10 mL | 147820 | 02/29/24 19:35 | ADL | EET HOU |
| Total/NA | Prep | 351.2 | | | 2 mL | 20 mL | 147764 | 03/01/24 09:29 | LD | EET HOU |
| Total/NA | Analysis | 351.2 | | 10 | | | 150055 | 03/06/24 19:23 | LD | EET HOU |
| Total/NA | Analysis | 365.1 | | 10 | 10 mL | 10 mL | 148079 | 03/01/24 19:51 | HN | EET HOU |
| Total/NA | Analysis | 9040C | | 1 | | | 147885 | 03/01/24 17:40 | SC | EET HOU |
| Total/NA | Analysis | SM 2510B | | 1 | | | 147894 | 03/01/24 17:40 | SC | EET HOU |
| Total/NA | Analysis | SM 2540C | | 1 | 50 mL | 200 mL | 147301 | 02/27/24 22:22 | FN | EET HOU |
| Total/NA | Analysis | SM 2540D | | 1 | 600 mL | 1000 mL | 147706 | 02/29/24 19:57 | FN | EET HOU |
| Total/NA | Analysis | SM 4500 CI G | | 5 | 10 mL | 10 mL | 147656 | 02/29/24 14:48 | SCI | EET HOU |
| Total/NA | Prep | BOD Prep | | | | | 146675 | 02/23/24 10:00 | HN | EET HOU |
| Total/NA | Analysis | SM5210B CBOD | | 1 | 50 mL | 300 mL | 147369 | 02/23/24 15:03 | HN | EET HOU |

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

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

Eurofins Lubbock

5

9

Laboratory: Eurofins Albuquerque

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|------------|---------|-----------------------|-----------------|
| Arizona | State | AZ0682 | 10-20-24 |
| New Mexico | State | NM9425, NM0901 | 02-26-25 |
| Oregon | NELAP | NM100001 | 02-26-25 |
| Texas | NELAP | T104704424-23-16 | 05-31-24 |

Laboratory: Eurofins Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Progra | Program | | Expiration Date |
|---|--|---------------------------------------|--|---------------------------------|
| exas | NELAF | C | T104704215 | 06-30-24 |
| | | | | |
| The following analyte | s are included in this repo | rt, but the laboratory is i | not certified by the governing author | ity. This list may include anal |
| The following analytes for which the agency | s are included in this repo does not offer certification | rt, but the laboratory is ı | not certified by the governing author | ity. This list may include anal |
| The following analytes for which the agency Analysis Method | s are included in this repo does not offer certification Prep Method | rt, but the laboratory is ı Matrix | not certified by the governing author Analyte | ity. This list may include anal |

Method Summary

Client: City of Tahoka Project/Site: C Lagoon

10

| Method | Method Description | Protocol | Laboratory |
|--------------|------------------------------------|----------|------------|
| 350.1 | Nitrogen, Ammonia | EPA | EET HOU |
| 351.2 | Nitrogen, Total Kjeldahl | EPA | EET HOU |
| 365.1 | Phosphorus, Total | EPA | EET HOU |
| 9040C | pH | SW846 | EET HOU |
| SM 2510B | Conductivity, Specific Conductance | SM | EET HOU |
| SM 2540C | Solids, Total Dissolved (TDS) | SM | EET HOU |
| SM 2540D | Solids, Total Suspended (TSS) | SM | EET HOU |
| SM 4500 CI G | Chlorine, Residual | SM | EET HOU |
| SM5210B CBOD | Carbonaceous BOD, 5 Day | SM | EET HOU |
| 300.0 | EPA 300.0 | EPA | EETALB |
| 351.2 | Nitrogen, Total Kjeldahl | EPA | EET HOU |
| BOD Prep | Preparation, BOD | SM | EET HOU |
| • | • | | |

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975 EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

| Client: City of Tahoka |
|------------------------|
| Project/Site: C Lagoon |

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 320-12174-1 | C Lagoon | Water | 02/22/24 08:51 | 02/22/24 10:03 |



Environment Testing

Eurofins Environment Testing South Central, LLC 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

March 01, 2024

Holly Taylor Eurofins Lubbock 6701 Aberdeen Ave Suite 8 Lubbuck, TX 79424 TEL: (806) 794-1296 FAX

RE: Permint Renewal 820 12174 1

OrderNo.: 2402B49

Dear Holly Taylor:

Eurofins Environment Testing South Central, LLC received 1 sample(s) on 2/23/2024 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

| Hall Environmental Analysis | Laboratory, Inc. | | | | An a Lab Dat | alytical Report Order 2402B49 e Reported: 3/1/2024 |
|--|------------------|----------------|-----------------|--------------------|---------------------------|--|
| CLIENT: Eurofins Lubbock Project: Permint Renewal 820 12174 1 | | Client Coll | t San lectio | nple ID on Date | :C Lago :2/22/20 | oon (820-12174-1) 024 7:51:00 AM |
| Lab ID: 2402B49-001 | Matrix: AQUEOUS | Re | ceive | d Date | : 2/23/20 |)24 8:34:00 AM |
| Analyses | Result | RL Q | Jual | Units | DF | Date Analyzed |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: RBC |
| Chloride | 430 | 50 | * | mg/L | 100 | 2/23/2024 1:26:05 PM |
| Nitrogen, Nitrate (As N) | ND | 1.0 | | mg/L | 10 | 2/23/2024 12:21:25 PM |
| Sulfate | 150 | 5.0 | | mg/L | 10 | 2/23/2024 12:21:25 PM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

- В Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value J

Analyte detected below quantitation limits

Sample pH Not In Range Р RL

Reporting Limit

Page 1 of 2

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Eurofins Lubbock

Project: Permint Renewal 820 12174 1

| Sample ID: MB | SampT | ype: ME | BLK | Tes | tCode: El | PA Method | 300.0: Anions | 5 | | |
|--|--|--|--|-----------------------------------|---|--|---|-----------|----------|------|
| Client ID: PBW | Batch | n ID: R1 | 03315 | F | RunNo: 1 | 03315 | | | | |
| Prep Date: | Analysis D | ate: 2/ | 23/2024 | 5 | SeqNo: 3 | 821262 | Units: mg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 0.50 | | | | | | | | |
| Nitrogen, Nitrate (As N) | ND | 0.10 | | | | | | | | |
| Sulfate | ND | 0.50 | | | | | | | | |
| | | | | | | | | | | |
| Sample ID: LCS | SampT | ype: LC | S | Tes | tCode: El | PA Method | 300.0: Anions | 3 | | |
| Sample ID: LCS Client ID: LCSW | SampT Batch | ype: LC | S 03315 | Tes | tCode: El | PA Method 03315 | 300.0: Anions | 6 | | |
| Sample ID: LCS Client ID: LCSW Prep Date: | SampT Batch Analysis D | ype: LC DID: R1 Pate: 2/ | S 03315 23/2024 | Tes F S | tCode: El RunNo: 10 SeqNo: 3 | PA Method 03315 821263 | 300.0: Anions Units: mg/L | 3 | | |
| Sample ID: LCS Client ID: LCSW Prep Date: Analyte | SampT Batch Analysis D Result | ype: LC ID: R1 vate: 2/ PQL | : S 03315 23/2024 SPK value | Tes F S SPK Ref Val | tCode: Ef RunNo: 10 SeqNo: 3 %REC | PA Method 03315 821263 LowLimit | 300.0: Anions Units: mg/L HighLimit | s %RPD | RPDLimit | Qual |
| Sample ID: LCS Client ID: LCSW Prep Date: Analyte Chloride | SampT Batch Analysis D Result 4.9 | ype: LC n ID: R1 pate: 2/ PQL 0.50 | S 03315 23/2024 SPK value 5.000 | Tes F S SPK Ref Val 0 | tCode: El RunNo: 1 SeqNo: 3 %REC 98.7 | PA Method 03315 821263 LowLimit 90 | 300.0: Anions Units: mg/L HighLimit 110 | %RPD | RPDLimit | Qual |
| Sample ID: LCS Client ID: LCSW Prep Date: Analyte Chloride Nitrogen, Nitrate (As N) | SampT Batch Analysis D Result 4.9 2.6 | ype: LC n ID: R1 Pate: 2/ PQL 0.50 0.10 | S 03315 23/2024 SPK value 5.000 2.500 | Tes F SPK Ref Val 0 0 | tCode: Ef RunNo: 1 GeqNo: 3 %REC 98.7 104 | PA Method 03315 821263 LowLimit 90 90 | 300.0: Anions Units: mg/L HighLimit 110 110 | %RPD | RPDLimit | Qual |

Qualifiers:

* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

- в
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- J
- Analyte detected below quantitation limits Р
- Sample pH Not In Range RL Reporting Limit

Page 2 of 2

WO#:

2402B49

01-Mar-24

| Eurofins Environment Testing South Central, LLC | |
|---|-----|
| Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 | |
| Client Name: Eurofins Lubbock Work Order Number: 2402B49 RcptNo: 1 | 4 |
| | 5 |
| Received By: Cheyenne Cason 2/23/2024 8:34:00 AM | |
| Completed By: Cheyenne Cason 2/23/2024 9:17:20 AM | |
| Reviewed By: 2/23/24 | 7 |
| Chain of Custody | 8 |
| 1. Is Chain of Custody complete? Yes 🗹 No 🗌 Not Present | 9 |
| 2. How was the sample delivered? <u>FedEx</u> | |
| Log In 3. Was an attempt made to cool the samples? Yes V No No NA | |
| 5. Was an attempt made to cool the samples? | |
| 4. Were all samples received at a temperature of >0° C to 6.0°C Yes 🗹 No 🗌 NA | 12 |
| 5. Sample(s) in proper container(s)? Yes 🗹 No | 13 |
| 6. Sufficient sample volume for indicated test(s)? Yes 🗹 No | 1 / |
| 7. Are samples (except VOA and ONG) properly preserved? Yes 🗹 No | |
| 8. Was preservative added to bottles? Yes No 🗹 NA | |
| 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No No No NA | |
| 10. Were any sample containers received broken? Yes Vor Vor Vor Vor Vor Vor Vor Vor Vor Vor | |
| 11. Does paperwork match bottle labels? Yes ✓ No for pH: (Alete diagramming on phoio of supported) (<2 or >12 unless noted) | |
| 12 Are matrices correctly identified on Chain of Custody? Yes ☑ No □ Adjusted? | |
| 13. Is it clear what analyses were requested? Yes 🗹 No 🗌 | |
| 14. Were all holding times able to be met? Yes V No Checked by: μ $723/24$ (If no, notify customer for authorization.) | |
| Special Handling (if applicable) | |
| 15. Was client notified of all discrepancies with this order? Yes No No No | |
| Person Notified: Date: | |
| By Whom: Via: eMail Phone Fax In Person | |
| Regarding: | |
| 16 Additional remarks | |
| | |
| Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By | |
| 1 0.6 Good Yes Morty | |
| | |

| Eurofins Lubbock 6701 Aberdeen Ave. Suite 8 Lubbock, TX 79424 Phones Prez 7044706 | Ch | ain of (| Custod | y Rec | ord | | | 🐼 eurofins | Environment Testing |
|---|---|--|---|---|---|--|---|--|---|
| | Sampler | | | Lab PM: | | Carrier 1 | racking No(s): | COC No: | |
| Client Information (Sub Contract Lab) | | | | Taylor, H | lolly | Ctota of | Odoio: | 020-8904.1 Dane | |
| Client contact: Shipping/Receiving | Phone: | | | E-wair. Holly.Tay | /lor@et.eurofinsus.com | Texas | | Page 1 of 1 | |
| Company: Eurofins Environment Testing South Centr | | | | Acor | editations Required (See note): _AP - Texas | | | Job #: 820-12174-1 | |
| Address: Address: | Due Date Requested: | | | | Anal | vsis Requeste | q | Preservation Co | des: M - Hexane |
| | TAT Requested (days): | | | | | | | A - HCL B - NaOH C - 7b Acetate | N - None O - AsNaO2 |
| raduperque State, Zp: Nut, 877109 | | | | | lorīde, | | | D - Nitric Acid E - NaHSO4 | P - Na204S Q - Na2SO3 R - Na2S2O3 |
| Phone: 505-345-3975(Tel) | PO#: | | | (1 | ate, Ch | | | F - MeOH G - Amchlor H - Ascorbic Acid | S - H2SO4 T - TSP Dodecahydrate |
| Emai: | WO#: | | | OL NO | 0N/(9 | | | 4 J - DI Water | U - MCAA V - MCAA W - BH 4-5 |
| Project Name. Permit Renewal | Project #: 82000937 | | | səY) e | telluð | | | K-EDIA L-EDA | Υ - Trizma Z other (specify) |
| Sile: | \$SOW# | | | Iqmet | sp (Ye, | | | of cor | |
| | | Sar mple | nple Ma /pe (www. | eld Filtered | erform MS/M UB (Nitrate, Ch JHate | | | redmult listo | 649 |
| Sample Identification - Client ID (Lab ID) | sample Late | | eservation C | ode: | 8 8 | | | | USUNCTIONS/NOTE: |
| C Lagoon (820-12174-1) | 2/22/24 | 8:51 | M | ter | × | | | 8 | |
| | 5 | nual | | | | | | | |
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| Note: Since laboratory accreditations are subject to change. Eurofins Environment laboratory does not currently maintain accreditation in the State of Ongin tisted abora accreditation status should be brought to Eurofins Environment Testing South Cent | nt Testing South Central, LL bove for analysis/tests/matri antral, LLC attention immedi | C places the ov x being analyze ately. If all requ | wnership of mett ed, the samples uested accredite | sod, analyte / must be ship tions are cun | & accreditation compliance upo ped back to the Eurofins Enviro ent to date, return the signed C | n our subcontract labo mment Testing South (thain of Custody attest | atories. This sample sh Central, LLC laboratory o ing to said compliance to | ipment is forwarded under or other instructions will be a 5 Eurofins Environment Tes | chain-of-custody. If the provided. Any changes to the South Central, LLC. |
| Possible Hazard Identification | | | | | Sample Disposal (A fe | e may be assess | ed if samples are i | etained longer than | 1 month) |
| Unconfirmed | | | | | Return To Client | Dispose | I By Lab | Archive For | Months |
| Deliverable Requested: I, II, III, IV, Other (specify) | Primary Deliverable | Rank: 2 | | | Special Instructions/QC | Kequirements; | | | |
| Empty Kit Relinquished by: | Dat | ë | | Tin | 1e: | M | ethod of Shipment | | |
| Relinquished by: | C/CC/ | KI H | OCCUMPE | ĥ | Received by: | Parla | 2/23/ | 24 0634 | Company |
| Relinquished by: | Date/Time: | | Compe | ĥ | Received by: | | DaterTime: | | Company |
| Relinquished by: | Date/Time: | | Compe | ĥ | Received by: | | Date/Time: | | Company |
| Custody Seals Intact: Custody Seal No.: | | | | | Cooler Temperature(s) "O | and Other Remarks: | and. | | |
| D TES D INC | | | | | | | | | Ver. 06/08/2021 |

12174 Fins

Environment Testing

Chain of Custody

Houston, TX (281) 240-4200, Dalias, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlebad, NM (575) 988-3199 Little Rock, AR (501) 224-5060



| Eurofins Lubbock 8701 Aberdeen Ave. Suite 8 Lubbock, TX 79424 | G | hain of | Custo | dy Re | Sord | — | | | | | | 86. C | MX N | | | | | | 🔮 eurofins | - Envizoment Test | ting |
|---|---|--|---|--|------------------------------------|---|-------------------|-----------------|---------------|-----------|----------|--------------------------|------------------|--------|-----------|----------------|--------|--------|---|--|------|
| Client Information (Sub Contract Lab) | Sampler | | | Lab PM: Taylor 1 | -ioly | | | | | | | . Carrie | r Jiao | , ing | lo(s) | | i. | | 1000 No: 1820-18966:1 | | ľ |
| Client Contact Shipping/Receiving | Phone: | | | E-Malt: Holly Ta | iylar@e | Leùro | ที่กรบ | SCO | 3 | | | State | af Orig | | | | | | Page: Page:1 of 1 | | |
| Company: EuroFins. Environment Testing South Centr | | | | Ac | LAP | is Regi exas | s) paùji | ou ae | je) | | | | ļ | 1 | | | | | Job # 1920-12174-1 | | ŀ |
| Address: 4145 Greenbriar Dr | Due Date Requester 2/29/2024 | π | | | | | | <u>}</u> | | n: S | ê | les | ē | | | | į | | Preservation Code | · · · · · · · · · · · · · · · · · · · | |
| City: Istafford | TAT Requested (day | 3 | | | 9.00 1.00 1.00 | ÷ | | | | | | | ļ | | | | | and a | A-HCL B NaOH | M Hexane N None D - AsNa02 | |
| State, Ap: TX, 77477 | I | - | | 1 | 7 1 751- 5-4 9919 | | | rkn) | | <u> </u> | | _ | ,, | | | | | | D Ninc Acid | P Na204S | |
| Phone: 281-240-4200(Tel) | PO # | | | <u>)</u> | di D | . | | ogen (| | | | | | | | | | | G America G America | S H2SO4 T TSP Dodecahydrat | đ |
| Emst. | WO株 | | | or No | (о) р СВС | | | hi Nîtr | | | | | | | | | | | I Ice J. DI Water | U Acetonie V MCAA | |
| Project Name: Permit Renewal | Project.#: 82000/937 | | |) (Yes | os or) D_Pre | | | Kjelda | <u> </u> | thod | | | nance | | | | | lainer | K-EOTA L-EDA | xv :pi: +-> Y Trizna Z⊷other (specify) | |
| Site | SSOW#: | | | Sampl | SD (Y)Cal/B | | | p Total | | içal M | | | Condu | | | _ | | of con | Other | | |
| | | Ø | ample M Type (w | Filtered | rm MS/M IdB_CBO | I | Ammoni | 351.2_Pre | NP: | / (MOD) L | CL_G | Calcd | / Specific | | | | | Number | n, mangang seria | | |
| Sample Identification Client ID (Lab ID) | Sample Date | Time G | =grab) st-riu | Fie | Per SM: | 254 | 350 | 351 | 365 | 904 | 450 | 254 | 251 | × | | 11972 | 25.75 | Tot | Special Ins | structions/Note: | ľ |
| C Lagoon (820-12174-1) | 2122/24 | 08:51 | <u>N </u> | aler | × | × | × | × | × | × | X | K 8 | K | ж С | 2 | | 2.7 | 7 D | A Desta of the second se | | ľ. |
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| | | | | | · · · · · | | | | | | | | | | | | | | -A5225 (24) | | |
| Note: Since laboratory accreditations are subject to change, Eurofins Environme laboratory does not currently maintain accreditation in the State of Origin listed a accreditation status should be brought to Eurofins Environment Testing South O | ni Testing South Central bove for analysis/tests/n entral, LLC attention/mn | , LLC places the lattic being analy lediately. If all re | ownership of me zed, the samples quested accredit | hod, analyte must be ship ations are cur | saccredi ped back rant to da | te retu | omplia Eurofic | nce u signed | non a Chai | n of C | cipritiz | ct lab South South | Centor Centor | | | ample orato | e to g | other | t is forwarded under ch. ' instructions will be pro | an-of-custody. If the wided. Any changes to a South Central Ltr. | - |
| Possible Hazard identification | | | | | Sample | e Disj | osal | (A) | fee a | -Zei | - a | Ses | ĕ | โรลเ | aple | | -2 | ain | ed longer than 1. | month) | |
| Deliverable Requested: I II, III, IV Other (specify) | Primary Deliveral | ile Rank: 2 | | | Specia | Instr | Liction | | 8 | G | nen s | 20 | 8 | | | | | 2 | HAR'TERN | SIGIDM | |
| Empty Kit Relinguished by: | |)ate: | | = | Ŕ | * | | | | | | | Netho | 052 | hipmi | ä | | | | | |
| Relinguished by: | 10000 | 417 | | Åue | Rec | etved b | | | | | | Ļ | | | ja Bel | ime; | | | | Company | |
| Relinquisted by: | Date(Time: | | Comp | YOU | Rea | Eved S | N | υŢ | | | | | | | Ň | \mathbf{S} | 5 | 51 | 21 P H | C ⁱ | |
| Relinquished by: | Date/Time: | | Comp | Aue | Rec | all all all all all all all all all all | Ň | .] | | | | | | | | ju e | | | | Company | |
| Custody Seals intact: Custody Seal No. A Yes: A No | | - | | : | 00 | ler 7, en | uperati | la(s) | C an | 000 | r Ren | ientia; | i j | | | | | | | | |
| | | | | | | | | | - | | | | | | | | | | | Ver: 06/08/2021 | |

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| Eurofins Lubbock 8701 Aberdeen Ave. Suite 8 Lubbock, TX 79424 phone Bre 704 796 | 0 | Shain (| of Cus | lody R | lecol | a | | | | | - 1 | 80 | HHY W | | | | . | 🖇 eurofin | S Environment Testin |
|---|--|-----------------------------------|-----------------------|--|----------------------|--------------------------|-----------------|----------------|---------|----------|---|--------------|---|-----------|--------------|------------|----------------|---|--------------------------------|
| Client Information (Sub Contract Lab) | Sampler | | | Lab F | or Holly | | | | | | | arrier | Track | ON BU | ب | | | COC No; 820-8966;1 | |
| Client Contact Shipping/Receiving | Phone | | | E-Ma | i. / Taylor(| @et.eu | e li lo | 8 | ġ. | | | iate o | [Ong] | 금. | | : | | Page: Page 1 of 1 | |
| Company: Eurofins Environment Testing South Centr | | | | | NELAP | Texa | diniting. | V beS) | ote); | ; | | | | | | | | Job#: 820-12174-1 | |
| Address; 4/145 Greenbriar Dr | Due Date Requests 2/29/2024 | Ř | | | | | | ≽∣ | | | ĝ | last | ≞ | | 1 | | | Preservation C | odes: |
| City: Stafford | TAT Requested (de | (s/ | | | | | -{ | | | | | { | { [†] | | , | | ir no Seath | A HCL B NaOH D Jn Ansiste | N None O AsNaO2 |
| State, Zp: TX, 77477 | | | | | adis, sign Signal | <u> </u> | | (KN) | | | | | | | | <u></u> | | D Ninc Add E NaHSO4 | P Na2048 Q= Na2S03 |
| Phone: [281-240-4200(Tel)] | PO# | | | | 1 1 | | | ogen (| | | | | | <u> </u> | | | an ting | G Amchlor | S H2SO4 T TSP Dodecshydrate |
| Emet: | WO# | | | | or No Io) | рСВС | | hi Nitri | | | | | | <u></u> | | | | I - tce J. DI Water | U Acetone |
| Project Name: Permit Renewal | Project#; 82000937 | | | |) (Yes s or l | DD_Pro | | Kjelda | | thod | | | tance | | · | | tainer | L EDA | Y Trizma Z other (specify) |
| Site | SSOM# | | | | Sampi ISD (Y | DCal/B | · | p Total | | ocal Me | | | Condu | | | | of con | Other | |
| | | | Sample Type | Matrix (w-water | Filtered rm MS/N | 10B_CBO | Ammoni | 351.2_Pro | NP | (MOD) L | CL_G | _Calcd | / Specific | <u></u> - | <u>-</u> | | Number | | |
| Sample Identification Client (D (Lab (D) | Sample Date | Sample Time | (C=comp, G=grab) j | araoliu, Cewasidoli ST-Tizziue, A-Air) | Field Perto | SM521 | 350.1/ | 351,2/ | 365.1 | 9040C | 4500_(| 2640C | 2510B | | | | Total | Special | Instructions/Note: |
| C*Lagoon (820-12174-1) | 2122124 | 08:51 | | Water | ₿ | × j | × | × | × | × | × | × [2] | × | | | | 5 D | A CONTRACTOR OF A CONTRACT OF | |
| | | venta | | | | <u></u> | - - | -† | | | | | -+ | <u></u> | | ···· | | • | |
| | · · · · · · · · · · · · · · · · · · · | | | | | | - [| | | | | | | | | | | Ţ | 2369 |
| | | | | - | | | | | | | <u>, </u> | | | <u> </u> | · | | | | 20 |
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| | | | | | | | <u> </u> | 1 | | <u> </u> | | | ļ | ┣ | | | | | |
| | | | | | | ļ. | | | | | <u> </u> | <u> </u> | | | <u> </u> | + | | | |
| | | | | | | | -+ | <u> </u> | | | | | · - [· | | | | | | |
| Note: Since leporatory accreditations are subject to change. Eurofine Environ laboratory does not currently maintain accreditation in the State of Orion liste | ment Testing South Centre d above for analysishests | al, LLC places Imathix being a | the ownership | of method, and | lyte & acc | reditation vack to th | | liance: | vipon a | | contra | at labo | Centra | | sanp | le shij | offier | is forwarded under | thein-of-custody. If the |
| accreditation status should be brought to Eurofins Environment Testing Sout | Central, LLC attention iπ | nmediately. If | all requested ac | creditations an | e cument à | o date; n | turn th | e:sign | ed Che | lin of | ustod | attes | und de la companya de la companya de la companya de la companya de la companya de la companya de la companya de La companya de la companya de la companya de la companya de la companya de la companya de la companya de la comp | said co | mpliar | Б. Та | Eurof | ins Environment Te | sting South:Central, LLC |
| Possible Hazard Identification | | | | : - - | 2 | Rep. | spos | Ciler Ciler | Tee. | - Ter | | sess | ed if | Samp | Yes a | | Arch | ed longer than hive.For | 1 month) Months |
| Deliverable Requested, I, II, III IV Other (specify) | Primary Deliver | able Rank: | 2 | | Spe | cial Ins | truction | 0/sric | .C.Re | quire | ment | 10 | | | | | 1 | | |
| Empty Kit Relinquished by | | Date: | | | Time: | | | | | | | ~ | lethod | of Ship | arient. | | | | |
| Reinquished by | 10 6/201 | 171 | 200 | Company | | Receive |) ន្ត | ן נ | | | | | | <u>.</u> | 1911 IS | 99 19 | - 1 | | Company |
| Relinquished by: | Dale/Time: | : | | Vineduzo | | Receive | Pš. | フ | | | | | | 2 | | <u>[</u>] | 2 | 249:2 | C C C |
| Refinquished by | DaterTime: | | | Company | | Receive | 20 | | : : | | | | | Da | le/ilm | . 8 | | | Company |
| Custody Seals Intact. Custody Seal No. ∆ Yes ∆ No | | - | | | | Sooter T | ember: | ilure(s | °C an | d Offe | ir Rem | erks; | | | | | | | |
| | | | | | | | | | | | | | | ĺ | |] | | | Ver: 06/08/2021 |

Client: City of Tahoka

Login Number: 12174 List Number: 1 Creator: Triplett, Colby

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

Job Number: 820-12174-1

List Source: Eurofins Lubbock

Client: City of Tahoka

Login Number: 12174 List Number: 2 Creator: Baker, Jeremiah

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

Job Number: 820-12174-1

List Source: Eurofins Houston

List Creation: 02/23/24 10:57 AM

ATTACHMENT S

Influent BOD Laboratory Results & Chain of Custody



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Raymond Vega City of Tahoka PO BOX 300 Tahoka, Texas 79373 Generated 5/26/2024 9:59:04 AM

JOB DESCRIPTION

C Lagoon

5 6

JOB NUMBER

820-13311-1

Eurofins Lubbock 6701 Aberdeen Ave. Suite 8 Lubbock TX 79424



See page two for job notes and contact information.



Eurofins Lubbock

Job Notes

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

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization

aylor

Generated 5/26/2024 9:59:04 AM

1

Authorized for release by Holly Taylor, Project Manager Holly.Taylor@et.eurofinsus.com (806)794-1296

Table of Contents

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| Method Summary | 11 |
| Sample Summary | 12 |
| Chain of Custody | 13 |
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| | |

3

Qualifiers

| General Chemis | stry |
|----------------|--|
| Qualifier | Qualifier Description |
| HF | Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time. |
| U | Indicates the analyte was analyzed for but not detected. |
| U | Indicates the analyte was analyzed for but not detected. |

Glossary

| пг | rarameter with a notuling time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time. | |
|----------------|---|----|
| U | Indicates the analyte was analyzed for but not detected. | 5 |
| Glossary | | 6 |
| Abbreviation | These commonly used abbreviations may or may not be present in this report. | |
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis | 7 |
| %R | Percent Recovery | |
| CFL | Contains Free Liquid | 0 |
| CFU | Colony Forming Unit | 0 |
| CNF | Contains No Free Liquid | 0 |
| DER | Duplicate Error Ratio (normalized absolute difference) | 9 |
| Dil Fac | Dilution Factor | |
| DL | Detection Limit (DoD/DOE) | |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample | |
| DLC | Decision Level Concentration (Radiochemistry) | |
| EDL | Estimated Detection Limit (Dioxin) | |
| LOD | Limit of Detection (DoD/DOE) | |
| LOQ | Limit of Quantitation (DoD/DOE) | |
| MCL | EPA recommended "Maximum Contaminant Level" | 13 |
| MDA | Minimum Detectable Activity (Radiochemistry) | |
| MDC | Minimum Detectable Concentration (Radiochemistry) | |
| MDL | Method Detection Limit | |
| ML | Minimum Level (Dioxin) | |
| MPN | Most Probable Number | |
| MQL | Method Quantitation Limit | |
| NC | Not Calculated | |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) | |
| NEG | Negative / Absent | |
| POS | Positive / Present | |
| PQL | Practical Quantitation Limit | |
| PRES | Presumptive | |
| QC | Quality Control | |
| RER | Relative Error Ratio (Radiochemistry) | |
| RL | Reporting Limit or Requested Limit (Radiochemistry) | |
| RPD | Relative Percent Difference, a measure of the relative difference between two points | |
| TEF | Toxicity Equivalent Factor (Dioxin) | |
| TEQ | Toxicity Equivalent Quotient (Dioxin) | |
| TNTC | Too Numerous To Count | |

Job ID: 820-13311-1

Eurofins Lubbock

Job Narrative 820-13311-1

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

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

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

Receipt

The sample was received on 5/15/2024 10:12 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 17.0°C.

General Chemistry

Method 2540D: Insufficient sample volume was available to perform a sample duplicate (DUP) associated with analytical batch 860-161134.

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

Eurofins Lubbock

Matrix: Water

Lab Sample ID: 820-13311-1

Project/Site: C Lagoon

Client: City of Tahoka

Client Sample ID: C Lagoon Date Collected: 05/15/24 09:20

Date Received: 05/15/24 10:12

| General Chemistry | | | | | | | | | |
|--------------------------------------|--------|-----------|------|------|-----------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total Suspended Solids (SM 2540D) | 71.7 | | 13.3 | 13.3 | mg/L | | | 05/20/24 08:46 | 1 |
| pH (SM 4500 H+ B) | 7.6 | HF | | | SU | | | 05/23/24 01:00 | 1 |
| Temperature (SM 4500 H+ B) | 20.8 | HF | | | Degrees C | | | 05/23/24 01:00 | 1 |
| Biochemical Oxygen Demand (SM 5210B) | 80.1 | | 30.0 | 30.0 | mg/L | | 05/16/24 14:41 | 05/16/24 16:14 | 1 |

Eurofins Lubbock

Method: SM 2540D - Solids, Total Suspended (TSS)

| Lab Sample ID: MB 860-161134/1 | | | | | | | | | | Client S | Sample ID: Me | thod | Blank |
|--|-------------|-----------|-----------|------|--------|---------|------|-------|-------|---------------|--------------------------|---------------|-----------------|
| Matrix: Water | | | | | | | | | | | Prep Typ | e: To | tal/NA |
| Analysis Batch: 161134 | | | | | | | | | | | | | |
| | МВ | МВ | | | | | | | | | | | |
| Analyte | Result | Qualifier | RL | | MDL | Unit | | D | Р | repared | Analyzed | | Dil Fac |
| Total Suspended Solids | <4.00 | U | 4.00 | | 4.00 | mg/L | | | | | 05/20/24 08:4 | 6 | 1 |
| | | | | | | | | | | | | | |
| Lab Sample ID: LCS 860-161134/2 | | | | | | | | CI | lient | Sample | ID: Lab Cont | rol Sa | ample |
| Matrix: Water | | | | | | | | | | | Ргер Тур | e: To | tal/NA |
| Analysis Batch: 161134 | | | | | | | | | | | | | |
| | | | Spike | LC | S LCS | | | | | | %Rec | | |
| Analyte | | | Added | Resu | It Qua | lifier | Unit | | D | %Rec | Limits | | |
| Total Suspended Solids | | | 100 | 106. | 0 | | mg/L | | | 106 | 80 - 120 | | |
| Lab Sample ID: 1 CSD 860-161134/3 | 2 | | | | | | c | liont | Sam | | ab Control S | ampl | |
| Matrix: Water | , | | | | | | U | nent | Jail | | | | |
| Analysia Retable 161124 | | | | | | | | | | | Prep typ | e. 10 | |
| Analysis Batch. 101134 | | | Spike | 1.00 | | n | | | | | % Baa | | 880 |
| Analyta | | | Spike | Boou | | Ulifian | Unit | | • | % Baa | %Rec | חחם | Limit |
| Total Supponded Solido | | | | 107 | | inter | mall | | _ | 107 | 20 120 | | 10 |
| Total Suspended Solids | | | 100 | 107. | 0 | | mg/L | | | 107 | 80 - 120 | 1 | 10 |
| Lab Sample ID: SCB 860-161462/2 Matrix: Water Analysis Batch: 161462 | | | | | | | | | | Client S | ample ID: Me Prep Typ | thod e: To | Blank tal/NA |
| | SCB | SCB | | | | | | | | | | | |
| Analyte | Result | Qualifier | RL | | MDL | Unit | | D | Р | repared | Analyzed | | Dil Fac |
| Biochemical Oxygen Demand | 0.7800 | | 0.0000020 | 0.00 | 000020 | mg/L | | | | | 05/16/24 14:4 | 6 | 1 |
| | | | 0 | | 0 | | | | | | | | |
| Lab Sample ID: USB 960 461462/4 | | | | | | | | | | Client | ample ID: Mo | thad | Plank |
| Lab Sample ID. USB 660-161462/1 Matrix: Water | | | | | | | | | | Chefft a | | | |
| Analysia Retable 161462 | | | | | | | | | | | Fieb iyb | e. 10 | |
| Analysis Batch. 101402 | | IICD | | | | | | | | | | | |
| Analysia | Daeult | Ovelifier | ы | | MDI | 11 | | | | u a m a m a d | Analyzed | | |
| Rischemical Oxygen Demand | <0.00000200 | | | 0.00 | | mal | | | | repareu | Analyzeu | | |
| Biochemical Oxygen Demand | <0.00000200 | 0 | 0.0000020 | 0.00 | 000020 | IIIg/L | | | | | 05/10/24 14.4 | | 1 |
| | | | 0 | | 5 | | | | | | | | |
| Lab Sample ID: LCS 860-161462/3 | | | | | | | | CI | lient | Sample | ID: Lab Cont | rol Sa | ample |
| Matrix: Water | | | | | | | | | | | Ргер Тур | e: To | tal/NA |
| Analysis Batch: 161462 | | | | | | | | | | | | | |
| | | | Spike | LC | S LCS | | | | | | %Rec | | |
| Analyte | | | Added | Resu | lt Qua | lifier | Unit | | D | %Rec | Limits | | |
| Biochemical Oxygen Demand | | | 198 | 182. | 7 | | mg/L | | _ | 92 | 85 - 115 | | |

Biochemical Oxygen Demand
General Chemistry

Prep Batch: 160667

| Lab Sample ID 820-13311-1 | C Lagoon | Prep Type Total/NA | Matrix Water | BOD Prep | Prep Batch |
|------------------------------|------------------------------|------------------------------|-----------------|------------------------|------------|
| Analysis Batch: 16113 | 4 | | | | |
| Lab Sample ID | Client Sample ID | Ргер Туре | Matrix | Method | Prep Batch |
| 820-13311-1 | C Lagoon | Total/NA | Water | SM 2540D | |
| MB 860-161134/1 | Method Blank | Total/NA | Water | SM 2540D | |
| LCS 860-161134/2 | Lab Control Sample | Total/NA | Water | SM 2540D | |
| LCSD 860-161134/3 | Lab Control Sample Dup | Total/NA | Water | SM 2540D | |
| Analysis Batch: 16146 | 2 | | | | |
| Lab Sample ID | Client Sample ID | Ргер Туре | Matrix | Method | Prep Batch |
| 820-13311-1 | C Lagoon | Total/NA | Water | SM 5210B | 160667 |
| SCB 860-161462/2 | Method Blank | Total/NA | Water | SM 5210B | |
| USB 860-161462/1 | Method Blank | Total/NA | Water | SM 5210B | |
| LCS 860-161462/3 | Lab Control Sample | Total/NA | Water | SM 5210B | |
| Analysis Batch: 16198 | 3 | | | | |
| Lab Sample ID 820-13311-1 | Client Sample ID C Lagoon | Prep Type Total/NA | Matrix Water | Method SM 4500 H+ B | Prep Batch |

Client Sample ID: C Lagoon Date Collected: 05/15/24 09:20 Date Received: 05/15/24 10:12

| Lab | Sample | ID: | 820 |)- | 1 | 33 |
|-----|--------|-----|-----|----|---|----|
| | | | | | | |

Matrix: Water

| _ | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|--------------|-----|--------|---------|---------|--------|----------------|---------|---------|
| Ргер Туре | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Analysis | SM 2540D | | 1 | 300 mL | 1000 mL | 161134 | 05/20/24 08:46 | FN | EET HOU |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | | | 161983 | 05/23/24 01:00 | RY | EET HOU |
| Total/NA | Prep | BOD Prep | | | | | 160667 | 05/16/24 14:41 | ALL | EET HOU |
| Total/NA | Analysis | SM 5210B | | 1 | 20 mL | 300 mL | 161462 | 05/16/24 16:14 | ALL | EET HOU |

Laboratory References:

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

9

Laboratory: Eurofins Houston

| Γ. | the suite of | | Due 2000 | | Identification Number |
|------|---|--|----------|--|-----------------------|
| Unle | Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below. | | | | |

| thority | Progra | am | Identification Number | Expiration Date |
|---|--|--------------------------------|---|-------------------------|
| as | NELAP | | T104704215 | 06-30-24 |
| The following analyte | s are included in this report, bu | t the laboratory is not certif | ied by the governing authority. This li | st may include analytes |
| for which the agency | does not offer certification. | , | , , , , , | |
| for which the agency Analysis Method | does not offer certification. Prep Method | Matrix | Analyte | |

Client: City of Tahoka Project/Site: C Lagoon

| Method | Method Description | Protocol | Laboratory |
|--------------|-------------------------------|----------|------------|
| SM 2540D | Solids, Total Suspended (TSS) | SM | EET HOU |
| SM 4500 H+ B | pH | SM | EET HOU |
| SM 5210B | BOD, 5-Day | SM | EET HOU |
| BOD Prep | Preparation, BOD | SM | EET HOU |

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

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

Eurofins Lubbock

Sample Summary

| Client: City of Tahoka | |
|------------------------|--|
| Project/Site: C Lagoon | |

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 820-13311-1 | C Lagoon | Water | 05/15/24 09:20 | 05/15/24 10:12 |

Reporting: Level II C Level II PST/UST TRRP Level IV Superfund DI Water: H₂O Revised Date: 08/25/2020 Rev. 2020.2 MeOH: Me HNO 3: HN NaOH: Na **Preservative Codes** Sample Comments NaOH+Ascorbic Acid: SAPC Date/Time Zn Acetate+NaOH: Zn 5 UST/PST PRP Brownfields RRC Na 25 203: NaSO 3 8RCRA 13PPM Texas 11 AI Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr TI Sn U V Zn Other: VaHSO 4: NABIS Hg: 1631 / 245.1 / 7470 / 7471 820-13311 Chain of Custody None: NO H₂S0 4: H₂ H3PO 4: HP Cool: Cool r aye HCL: HC Work Order Comments ADaPT Received by: (Signature) www.xenco.com EDD State of Project: of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated. Deliverables: TCLP/SPLP6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Program: Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affilables and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control ANALYSIS REQUEST Relinquished by: (Signature) Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 2 mac Chain of Custody Email I Viga & te hole. Or y 5/15/24 10-12 Date/Time 4 10) 7 ¥of Comp Cont Pres. Parameters d Bill to: (if different) Company Name: Grab/ -0.4 0.11 ト・みつ City, State ZIP: 7.4 TAT starts the day received by the lab, if received by 4:30pm Yes/ No Rush Address: Depth **Turn Around** Sécélyed by: (Signature) Sampled Routine Corrected Temperature: Due Date: 5 15/24 09:00 Wet Ice: Ger3.0 Temperature Reading: Time **Environment Testing** 0 Correction Factor: Thermometer ID: 79373 Date Yes No) C.Ly of Talate Circle Method(s) and Metal(s) to be analyzed BOG-56-4211 Matrix Maller RIN Xenco AN Temp Blank: 200.8 / 6020: No. tare le. Yes No No Sal Yes Relinquished by: (Signature) ofins Sample Identification C. Lugoon Samples Received Intact: Total 200.7 / 6010 Sample Custody Seals: Cooler Custody Seals: SAMPLE RECEIPT 5 Project Number: Total Containers: Sampler's Name: Company Name: Project Location: Project Manager 13311 City, State ZIP: Project Name: Address: Phone: :# Od

Loc: 820

5 6

<mark>12</mark> 13

Login Sample Receipt Checklist

Client: City of Tahoka

Login Number: 13311 List Number: 1 Creator: Triplett, Colby

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

Job Number: 820-13311-1

List Source: Eurofins Lubbock

<6mm (1/4").

Client: City of Tahoka

Login Number: 13311 List Number: 2 Creator: Baker, Jeremiah

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

Job Number: 820-13311-1

List Source: Eurofins Houston

List Creation: 05/16/24 11:59 AM

13



March 22, 2024

Texas Commission on Environmental Quality Water Quality Division PO Box 13087 MC-148 Austin, TX 78711-3087

Via Priority Mail

Re: City of Tahoka, Texas Permit No. WQ0010298002 Application to Renew Existing Permit

Dear Reviewer,

This office has been contracted by the City of Tahoka to prepare and submit the requisite Administrative and Technical Reports required for renewal of the existing permit with surface disposal by irrigation.

The current permit expired at midnight, March 1, 2024. This office and city officials are hopeful that the application submittal will be accepted without a termination of the existing permit. It is understood that upon official termination, all subsequent re-permitting efforts are required to be completed as if the permit were a 'new' application.

Please note the following exceptions and clarifications offered below for a variety of items.

(1) Technical Report, Section 8, Soil Map and Soil Analysis

For evaluation of the requested soil permeability using NRCS Soil Survey Map data, a depth range from 0-18 inches was selected.

(2) Technical Report, Section 9, Effluent Monitoring Data

In preparation for the previous twenty-four (24) months of effluent flow data and BOD/TSS/pH test results, the City of Tahoka was only able to provide the latest eighteen (18) months of the requested daily flow data due to employee turnover and subsequent loss of records. As a result, Civil 360 was only able to provide 30-day flow averages between the months of July 2022 and December 2023.

Although 208.09 acres are available for irrigation per the record drawings, this total area is only achievable with the relocation of a large center pivot. Since the city has not made this modification over the last ten (10) years, this office has only provided 129.75 acres of land utilized for surface application within Table 3.0(5). Based on the largest monthly average of 214,000 gallons (August 2023), this equates to 1.81 acre-ft/year/acre irrigated. The permit allows a maximum of 1.93 acre-ft/year/acre.

If you need any additional information to aid in your review of this renewal, please contact our office.

Sincerely,

Civil 360, PLLC

TX Registered Engineering Firm No. 15119

Mathew Hopper, P.E. mhopper@civil-360.net

cc: file

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT: <u>City of Tahoka</u>

PERMIT NUMBER: WQ0010298002

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

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

For TCEQ Use Only

| Segment Number | cCounty |
|-----------------|---------|
| Expiration Date | Region |
| Permit Number | |

Ν

 \boxtimes

 \boxtimes

 \boxtimes

 \boxtimes

 \boxtimes

 \boxtimes

 \boxtimes



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

APPLICATION FOR A DOMESTIC WASTEWATER PERMIT ADMINISTRATIVE REPORT 1.0

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

Section 1. Application Fees (Instructions Page 29)

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

| Flow | New/Major Am | end | ment Renewal | | |
|---|-----------------------|------------|--|--|--|
| <0.05 MGD | \$350.00 🗆 | | \$315.00 🗆 | | |
| ≥0.05 but <0.10 MGD \$550.00 □ | | | \$515.00 🗆 | | |
| ≥0.10 but <0.25 MGD | \$850.00 🗆 | | \$815.00 🗆 | | |
| ≥0.25 but <0.50 MGD | \$1,250.00 🗆 | | \$1,215.00 | | |
| ≥0.50 but <1.0 MGD | \$1,650.00 🗆 | | \$1,615.00 🗆 | | |
| ≥1.0 MGD | \$2,050.00 🗆 | \$2,015.00 | | | |
| Minor Amendment (for any flow) \$150.00 🗆 | | | | | |
| Payment Information: | | | | | |
| Mailed Check/Mo | ney Order Number | : Che | ck# 9700 | | |
| Check/Mo | , nev Order Amount | : # | 121500 | | |
| Name Prin | ted on Check | 10 | 0 | | |
| FPAV Voucher N | umber | _ E | | | |
| | umber. | | | | |
| Copy of Payment Vouch | er enclosed? | | Yes 🗆 | | |
| Section 2. Type of App | lication (Instru | ictio | ons Page 29) | | |
| □ New TPDES | | | New TLAP | | |
| Major Amendment <u>with</u> Re | enewal | | Minor Amendment <u>with</u> Renewal | | |
| Major Amendment <u>withou</u> | <u>t</u> Renewal | | Minor Amendment <u>without</u> Renewal | | |
| ⊠ Renewal without changes | | | Minor Modification of permit | | |
| For amendments or modifications, describe the proposed changes: | | | | | |
| For existing permits: | | | | | |
| Permit Number: WQ0010298002 | | | | | |
| EPA I.D. (TPDES only): TX | | | | | |
| Expiration Date: March 1, 202 | 24 | | | | |
| _ | | | | | |

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

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

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

City of Tahoka

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

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

CN: <u>601097934</u>

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

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

First and Last Name: <u>Ronny Jolly</u>

Credential (P.E, P.G., Ph.D., etc.):

Title: <u>Mayor</u>

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

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

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

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

CN:

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

| Prefix (Mr., Ms., Miss): | |
|--------------------------------------|--|
| First and Last Name: | |
| Credential (P.E, P.G., Ph.D., etc.): | |
| Title: Click here to enter text | |

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

C. Core Data Form

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

Attachment:

Section 4. Application Contact Information (Instructions Page 30)

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

| A. | Prefix (Mr., Ms., Miss): <u>Mr.</u> | | | | |
|----|--|--|--|--|--|
| | First and Last Name: <u>Matt Hopper</u> | | | | |
| | Credential (P.E, P.G., Ph.D., etc.): <u>P.E.</u> | | | | |
| | Title: <u>Consultant</u> | | | | |
| | Organization Name: <u>Civil 360, PLLC</u> | | | | |
| | Mailing Address: <u>8553 N. Beach Street, Suite 186</u> | | | | |
| | City, State, Zip Code: <u>Keller, TX 76244</u> | | | | |
| | Phone No.: <u>(214)</u> 773-2966 Ext.: Fax No.: <u>n/a</u> | | | | |
| | E-mail Address: <u>mhopper@civil-360.net</u> | | | | |
| | Check one or both: Administrative Contact Technical Contact | | | | |
| B. | Prefix (Mr., Ms., Miss): <u>Mr.</u> | | | | |
| | First and Last Name: <u>Derek Stephens</u> | | | | |
| | Credential (P.E, P.G., Ph.D., etc.): | | | | |
| | Title: <u>City Administrator</u> | | | | |
| | Organization Name: <u>City of Tahoka</u> | | | | |
| | Mailing Address: <u>PO Box 300</u> | | | | |
| | City, State, Zip Code: <u>Tahoka, TX 79373</u> | | | | |
| | Phone No.: <u>(806) 561</u> -4211 Ext.: Fax No.: <u>(806) 561-4444</u> | | | | |
| | E-mail Address: <u>dstephens@tahoka.org</u> | | | | |
| | Check one or both: 🛛 Administrative Contact 🗖 Technical Contact | | | | |

Section 5. Permit Contact Information (Instructions Page 30)

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

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

| | First and Last Name: <u>Matt Hopper</u> | |
|----|---|--------------------------------|
| | Credential (P.E, P.G., Ph.D., etc.): <u>P.E.</u> | |
| | Title: <u>Consultant</u> | |
| | Organization Name: <u>Civil 360, PLLC</u> | |
| | Mailing Address: <u>8553 N. Beach Street, Suite 186</u> | |
| | City, State, Zip Code: <u>Keller, TX 76244</u> | |
| | Phone No.: <u>(214) 773-2966</u> Ext.: | Fax No.: <u>n/a</u> |
| | E-mail Address: <u>mhopper@civil-360.net</u> | |
| B. | Prefix (Mr., Ms., Miss): <u>Mr.</u> | |
| | First and Last Name: <u>Ronny Jolly</u> | |
| | Credential (P.E, P.G., Ph.D., etc.): | |
| | Title: <u>Mayor</u> | |
| | Organization Name: <u>City of Tahoka</u> | |
| | Mailing Address: <u>PO Box 300</u> | |
| | City, State, Zip Code: <u>Tahoka, TX 79373</u> | |
| | Phone No.: <u>(806) 561-4211</u> Ext.: | Fax No.: <u>(806) 561-4444</u> |
| | F-mail Address: riollv@tahoka.orσ | |

Section 6. Billing Information (Instructions Page 30)

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

| Prefix (Mr., Ms., Miss): <u>Mr.</u> |
|---|
| First and Last Name: <u>Derek Stephens</u> |
| Credential (P.E, P.G., Ph.D., etc.): |
| Title: <u>City Administrator</u> |
| Organization Name: <u>City of Tahoka</u> |
| Mailing Address: <u>PO Box 300</u> |
| City, State, Zip Code: <u>Tahoka, TX 79373</u> |
| Phone No.: (806) 561-4211 Ext.: Fax No.: (806) 561-4444 |
| E-mail Address: <u>dstephens@tahoka.org</u> |

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

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

| Prefix (Mr., Ms., Miss): <u>Mr.</u> |
|---|
| First and Last Name: <u>Raymond Vega</u> |
| Credential (P.E, P.G., Ph.D., etc.): |
| Title: <u>Public Works Director</u> |
| Organization Name: <u>City of Tahoka</u> |
| Mailing Address: <u>PO Box 300</u> |
| City, State, Zip Code: <u>Tahoka, TX 79373</u> |
| Phone No.: (806) 759-1222 Ext.: Fax No.: (806) 561-4444 |
| E-mail Address: <u>rvega@tahoka.org</u> |

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

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

Section 8. Public Notice Information (Instructions Page 31)

A. Individual Publishing the Notices

| Prefix (Mr., Ms., Miss): <u>Ms.</u> |
|---|
| First and Last Name: <u>Nacona Martinez</u> |
| Credential (P.E, P.G., Ph.D., etc.): |
| Title: <u>City Secretary</u> |
| Organization Name: <u>City of Tahoka</u> |
| Mailing Address: <u>PO Box 300</u> |
| City, State, Zip Code: <u>Tahoka, TX 79373</u> |
| Phone No.: <u>(806)</u> 561-4211 Ext.: Fax No.: <u>(806)</u> 561-4444 |
| E-mail Address: nmartinez@tahoka.org |

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

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

- ⊠ E-mail Address
- □ Fax
- □ Regular Mail

C. Contact person to be listed in the Notices

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

First and Last Name: <u>Derek Stephens</u>

Credential (P.E, P.G., Ph.D., etc.):

Title: City Administrator

Organization Name: City of Tahoka

Phone No.: (806) 561-4211 Ext.:

E-mail: <u>dstephens@tahoka.org</u>

D. Public Viewing Information

If the facility or outfall is located in more than one county, a public viewing place for each county must be provided.

Public building name: <u>Tahoka City Hall</u>

Location within the building: Office of the City Secretary

Physical Address of Building: <u>1807 N. Main Street</u>

City: <u>Tahoka</u>

County: <u>Lynn</u>

Contact Name: <u>Nacona Martinez</u>

Phone No.: <u>(806) 561-4211</u> Ext.:

E. Bilingual Notice Requirements:

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

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

Please call the bilingual/ESL coordinator at the nearest elementary and middle schools and obtain the following information to determine whether an alternative language notices are required.

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

🗆 Yes 🖾 No

If **no**, publication of an alternative language notice is not required; **skip to** Section 9 below.

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

🗆 Yes 🗆 No

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

🗆 Yes 🗆 No

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

□ Yes □ No

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

F. Public Involvement Plan Form

Complete the Public Involvement Plan Form (TCEQ Form 20960) for each application for a **new permit or major amendment to a permit** and include as an attachment.

Attachment:

Section 9. Regulated Entity and Permitted Site Information (Instructions Page 33)

A. If the site is currently regulated by TCEQ, provide the Regulated Entity Number (RN) issued to this site. **RN**<u>103138079</u>

Search the TCEQ's Central Registry at <u>http://www15.tceq.texas.gov/crpub/</u> to determine if the site is currently regulated by TCEQ.

B. Name of project or site (the name known by the community where located):

City of Tahoka Wastewater Treatment Plant

C. Owner of treatment facility: <u>City of Tahoka</u>

| | Ownership of Facility: 🖾 Public 🗆 Private 🗆 Both 🗖 Federal |
|----|---|
| D. | Owner of land where treatment facility is or will be: |
| | Prefix (Mr., Ms., Miss): |
| | First and Last Name: <u>City of Tahoka</u> |
| | Mailing Address: |
| | City, State, Zip Code: |
| | Phone No.: Chelene to an entry E-mail Address: Chelene to an entry of the |

If the landowner is not the same person as the facility owner or co-applicant, attach a lease agreement or deed recorded easement. See instructions.

Attachment:

E. Owner of effluent disposal site:

Prefix (Mr., Ms., Miss): First and Last Name: <u>City of Tahoka</u> Mailing Address: City, State, Zip Code: Phone No.:

E-mail Address:

If the landowner is not the same person as the facility owner or co-applicant, attach a lease agreement or deed recorded easement. See instructions.

Attachment:

F. Owner of sewage sludge disposal site (if authorization is requested for sludge disposal on property owned or controlled by the applicant):

Prefix (Mr., Ms., Miss):

First and Last Name:

Mailing Address:

City, State, Zip Code:

Phone No.:

E-mail Address:

If the landowner is not the same person as the facility owner or co-applicant, attach a lease agreement or deed recorded easement. See instructions.

Attachment:

Section 10. TPDES Discharge Information (Instructions Page 34)

A. Is the wastewater treatment facility location in the existing permit accurate?

🗆 Yes 🗆 No

If **no**, **or a new permit application**, please give an accurate description:

Not applicable for this site

B. Are the point(s) of discharge and the discharge route(s) in the existing permit correct?

| Yes | No |
|-----|----|
| | |

If **no**, **or a new or amendment permit application**, provide an accurate description of the point of discharge and the discharge route to the nearest classified segment as defined in 30 TAC Chapter 307:

Not applicable for this site

City nearest the outfall(s):

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

Outfall Latitude:

Longitude:

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



If **yes**, indicate by a check mark if:

□ Authorization granted

Authorization pending

For **new and amendment** applications, provide copies of letters that show proof of contact and the approval letter upon receipt.

Attachment:

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

Not applicable for this site

Section 11. TLAP Disposal Information (Instructions Page 36)

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

🖾 Yes 🗆 No

If **no, or a new or amendment permit application**, provide an accurate description of the disposal site location:

- B. City nearest the disposal site: <u>City of Tahoka, TX</u>
- C. County in which the disposal site is located: Lynn
- **D.** Disposal Site Latitude: <u>33.136819</u> Longitude: <u>101.795119</u>
- E. For TLAPs, describe the routing of effluent from the treatment facility to the disposal site:

The effluent is contained in the holding pond prior to irrigation. The effluent is pumped to a center pivot for surface irrigation on non-public accessible grassland

F. For **TLAPs**, please identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained:

Double Mountain Fork Brazos River

Section 12. Miscellaneous Information (Instructions Page 37)

A. Is the facility located on or does the treated effluent cross American Indian Land?

| | Yes | \boxtimes | No |
|---|-----|-------------|-----|
| _ | 100 | | 110 |

- **B.** If the existing permit contains an onsite sludge disposal authorization, is the location of the sewage sludge disposal site in the existing permit accurate?
 - \Box Yes \Box No \boxtimes Not Applicable

If No, or if a new onsite sludge disposal authorization is being requested in this permit application, provide an accurate location description of the sewage sludge disposal site.

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

| Yes | \boxtimes | No |
|---------|-------------|-----|
| 100 | 2 | 110 |

If yes, list each person formerly employed by the TCEQ who represented your company and was paid for service regarding the application:

| D. | Do you | owe | any | fees | to | the | TCEQ? |
|----|--------|-----|-----|------|----|-----|-------|
|----|--------|-----|-----|------|----|-----|-------|

| υ. | bo you owe any rees to the relige |
|----|---|
| | \Box Yes \boxtimes No |
| | If yes , provide the following information: |
| | Account number: Amount past due: |
| | |
| E. | Do you owe any penalties to the TCEQ? |
| | \Box Yes \boxtimes No |
| | If yes , please provide the following information: |
| | Enforcement order number: Amount past due: |
| | |

Section 13. Attachments (Instructions Page 38)

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

- □ Lease agreement or deed recorded easement, if the land where the treatment facility is located or the effluent disposal site are not owned by the applicant or co-applicant.
- Original full-size USGS Topographic Map with the following information:
 - Applicant's property boundary

- Treatment facility boundary
- Labeled point of discharge for each discharge point (TPDES only)
- Highlighted discharge route for each discharge point (TPDES only)
- Onsite sewage sludge disposal site (if applicable)
- Effluent disposal site boundaries (TLAP only)
- New and future construction (if applicable)
- 1 mile radius information
- 3 miles downstream information (TPDES only)
- All ponds.
- Attachment 1 for Individuals as co-applicants
- □ Other Attachments. Please specify: <u>See Attachment A for USGS Map</u>

Section 14. Signature Page (Instructions Page 39)

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

Permit Number: WQ0010298002

Applicant: <u>City of Tahoka, Texas</u>

Certification:

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

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

Signatory name (typed or printed): Ronny Jolly

Signatory title: Mayor

| Signature: Rom a. Ja (Use blue ink) | Date:Date: | 3-20-24 |
|---|---|------------------|
| Subscribed and Sworn to before on this 20 | me by the said <u>Mayor</u> day of <u>March</u> | , 20 장닉. |
| My commission expires on the | day of May | , 20 <u>35</u> . |
| Mama Ma Ha Notary Public | NACONA MARTINEZ NOTARY PUBLIC STATE OF TEXAS ID # 13439883-7 My Comm. Expires 06-08-202 | |
| Lynn County, Texas | | |

Section 14. Signature Page (Instructions Page 39)

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

Permit Number: <u>WQ0010298002</u>

Applicant: <u>City of Tahoka, Texas</u>

Certification:

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

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

Signatory name (typed or printed): <u>Ronny Jolly</u>

Signatory title: Mayor

Signature:_____Date:_____

(Use blue ink)

| Subscribed and Sworn to before me by the said | | | | |
|---|--------|--------|--|--|
| on this | lay of | , 20 | | |
| My commission expires on the | day of | , 20 . | | |

Notary Public

[SEAL]

County, Texas

Section 15. Plain Language Summary (Instructions Page 40)

If you are subject to the alternative language notice requirements in <u>30 Texas Administrative Code</u> <u>\$39,426</u>, you must provide a translated copy of the completed plain language summary in the appropriate alternative language as part of your application package</u>. For your convenience, a Spanish template has been provided below.

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

DOMESTIC WASTEWATER

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

1. Enter applicant's name here. (2. Enter Customer Number here (i.e., CN6#########).) 3. Choose from the drop-down menu. 4. Enter name of facility here. 5. Enter Regulated Entity Number here (i.e., RN1#######). 6. Choose from the drop-down menu. 7. Enter facility description here. The facility 8. Choose from the drop-down menu. located 9. Enter location here. , in 10. Enter city name here., 11. Enter county name here. County, Texas 12. Enter zip code here.

13. Enter summary of application request here. <<*For TLAP applications include the following sentence, otherwise delete:*>> This permit will not authorize a discharge of pollutants into water in the state.

Discharges from the facility are expected to contain 14. List all expected pollutants here. 15. Enter types of wastewater discharged here. 16. Choose from the drop-down menu. treated by 17. Enter a description of wastewater treatment used at the facility here.

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

AGUAS RESIDUALES DOMÉSTICAS

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

Introduzca el nombre del solicitante aquí. (2. Introduzca el número de cliente aquí (es decir, CN6 ##########).)
 Elija del menú desplegable.
 Introduzca el número de entidad regulada aquí (es decir, RN1 #########).
 Elija del menú desplegable.
 Introduzca el número de entidad regulada aquí (es decir, RN1 #########).
 Elija del menú desplegable.
 Introduzca el número de entidad regulada aquí (es decir, RN1 #########).
 Elija del menú desplegable.
 Introduzca la descripción de la instalación aquí. La instalación 8. Elija del menú desplegable.
 ubicado 9. Introduzca la ubicación aquí., en 10. Introduzca el nombre de la ciudad aquí., Condado de 11. Introduzca el nombre del condado aquí., Texas 12. Introduzca el código postal aquí.
 Introduzca el resumen de la solicitud de solicitud aquí. <<
 Para las aplicaciones de TLAP incluya la siguiente oración, de lo contrario, elimine:>> Este permiso no autorizará una descarga de contaminantes en el agua en el estado.

Se espera que las descargas de la instalación contengan14. Liste todos los contaminantes esperados aquí. 15. Introduzca los tipos de aguas residuales descargadas aquí. 16. Elija del menú desplegable. tratado por 17. Introduzca una descripción del tratamiento de aguas residuales utilizado en la instalación aquí.

DOMESTIC ADMINISTRATIVE REPORT 1.1

The following information is required for new and amendment applications.

Section 1. Affected Landowner Information (Instructions Page 41)

A. Indicate by a check mark that the landowners map or drawing, with scale, includes the following information, as applicable:

| | The applicant's | property | boundaries |
|---|------------------|----------|------------|
| _ | The applicane of | property | Soundance |

- □ The facility site boundaries within the applicant's property boundaries
- □ The distance the buffer zone falls into adjacent properties and the property boundaries of the landowners located within the buffer zone
- The property boundaries of all landowners surrounding the applicant's property (Note: if the application is a major amendment for a lignite mine, the map must include the property boundaries of all landowners adjacent to the new facility (ponds).)
- The point(s) of discharge and highlighted discharge route(s) clearly shown for one mile downstream
- The property boundaries of the landowners located on both sides of the discharge route for one full stream mile downstream of the point of discharge
- The property boundaries of the landowners along the watercourse for a one-half mile radius from the point of discharge if the point of discharge is into a lake, bay, estuary, or affected by tides
- □ The boundaries of the effluent disposal site (for example, irrigation area or subsurface drainfield site) and all evaporation/holding ponds within the applicant's property
- □ The property boundaries of all landowners surrounding the effluent disposal site
- The boundaries of the sludge land application site (for land application of sewage sludge for beneficial use) and the property boundaries of landowners surrounding the applicant's property boundaries where the sewage sludge land application site is located
- □ The property boundaries of landowners within one-half mile in all directions from the applicant's property boundaries where the sewage sludge disposal site (for example, sludge surface disposal site or sludge monofill) is located
- **B.** Indicate by a check mark that a separate list with the landowners' names and mailing addresses cross-referenced to the landowner's map has been provided.
- C. Indicate by a check mark in which format the landowners list is submitted:

□ USB Drive □ Four sets of labels

- **D.** Provide the source of the landowners' names and mailing addresses:
- **E.** As required by *Texas Water Code § 5.115*, is any permanent school fund land affected by this application?

🗆 Yes 🗆 No

If **yes**, provide the location and foreseeable impacts and effects this application has on the land(s):

Section 2. Original Photographs (Instructions Page 44)

Provide original ground level photographs. Indicate with checkmarks that the following information is provided.

- At least one original photograph of the new or expanded treatment unit location
- At least two photographs of the existing/proposed point of discharge and as much area downstream (photo 1) and upstream (photo 2) as can be captured. If the discharge is to an open water body (e.g., lake, bay), the point of discharge should be in the right or left edge of each photograph showing the open water and with as much area on each respective side of the discharge as can be captured.
- □ At least one photograph of the existing/proposed effluent disposal site
- A plot plan or map showing the location and direction of each photograph

Section 3. Buffer Zone Map (Instructions Page 44)

- **A.** Buffer zone map. Provide a buffer zone map on 8.5 x 11-inch paper with all of the following information. The applicant's property line and the buffer zone line may be distinguished by using dashes or symbols and appropriate labels.
 - The applicant's property boundary;
 - The required buffer zone; and
 - Each treatment unit; and
 - The distance from each treatment unit to the property boundaries.
- **B.** Buffer zone compliance method. Indicate how the buffer zone requirements will be met. Check all that apply.
 - □ Ownership
 - □ Restrictive easement
 - □ Nuisance odor control
 - □ Variance
- **C.** Unsuitable site characteristics. Does the facility comply with the requirements regarding unsuitable site characteristic found in 30 TAC § 309.13(a) through (d)?



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

FOR AGENCIES REVIEWING DOMESTIC TPDES WASTEWATER PERMIT APPLICATIONS

| TCEQ USE ONLY: | | | | | |
|-------------------------------------|------------------------------|--|--|--|--|
| Application type:RenewalMajor A | mendmentMinor AmendmentNew | | | | |
| 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)

The SPIF must be completed as a separate document. The TCEQ will mail a copy of the SPIF to each agency as required by the TCEQ agreement with EPA. If any of the items are not completely addressed or further information is needed, you will be contacted to provide the information before the permit is issued. Each item must be completely addressed.

Do not refer to a response of any item in the permit application form. Each attachment must be provided with this form separately from the administrative report of the application. The application will not be declared administratively complete without this form being completed in its entirety including all attachments.

The following applies to all applications:

1. Permittee:

Permit No. WQ00

EPA ID No. TX

Address of the project (or a location description that includes street/highway, city/vicinity, and 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): |
|--------------------------------------|
| First and Last Name: |
| Credential (P.E, P.G., Ph.D., etc.): |
| Title: Click here to enter text |
| Mailing Address: |
| City, State, Zip Code: |
| Phone No.: Ext.: Fax No.: |
| E-mail Address: |
| |

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

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

7. <u>Describe existing disturbances, vegetation, and land use:</u>

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

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

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

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ATTACHMENT 1

INDIVIDUAL INFORMATION

Section 1. Individual Information (Instructions Page 50)

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

| Prefix (Mr., Ms., Miss): |
|--|
| Full legal name (first, middle, last): |
| Driver's License or State Identification Number: |
| Date of Birth: |
| Mailing Address: |
| City, State, and Zip Code: |
| Phone Number: Fax Number: |
| E-mail Address: |
| CN: Click here to enter text |
| For Commission Use Only: |
| Customer Number: |
| Regulated Entity Number: |
| Permit Number: |

CHECKLIST OF COMMON DEFICIENCIES

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

| Core Data Form (TCEQ Form No. 10400) | | |
|--|--|-----|
| Note: Form may be signed by applicant representative.) | | |
| Correct and Current Industrial Wastewater Permit Application Forms (TCEQ Form Nos. 10053 and 10054. Version dated 6/25/2018 or later.) | | Yes |
| Water Quality Permit Payment Submittal Form (Page 19) (Original payment sent to TCEQ Revenue Section. See instructions for mailing address.) | | Yes |
| 7.5 Minute USGS Quadrangle Topographic Map Attached (Full-size map if seeking "New" permit. 8 ½ x 11 acceptable for Renewals and Amendments) | | Yes |
| Current/Non-Expired, Executed Lease Agreement or Easement Attached 🔲 N/A | | Yes |
| Landowners Map \square N/A (See instructions for landowner requirements) | | Yes |

Things to Know:

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

| Landowners Cross Reference List (See instructions for landowner requirements) | | N/A | Yes |
|--|---------|-----|-----|
| Landowners Labels or USB Drive attached (See instructions for landowner requirements) | | N/A | Yes |
| Original signature per 30 TAC § 305.44 – Blue Ink Preferred (If signature page is not signed by an elected official or principle executive a copy of signature authority/delegation letter must be attached) | officer | 3 | Yes |



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

DOMESTIC TECHNICAL REPORT 1.0

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

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

A. Existing/Interim I Phase

Design Flow (MGD): <u>0.36</u> 2-Hr Peak Flow (MGD): <u>0.50</u> Estimated construction start date: <u>n/a</u> Estimated waste disposal start date: <u>n/a</u>

B. Interim II Phase

Design Flow (MGD): <u>n/a</u> 2-Hr Peak Flow (MGD): Estimated construction start date: Estimated waste disposal start date:

C. Final Phase

Design Flow (MGD): <u>n/a</u> 2-Hr Peak Flow (MGD): Estimated construction start date: Estimated waste disposal start date:

D. Current operating phase: Existing

Provide the startup date of the facility:

Section 2. Treatment Process (Instructions Page 51)

A. Treatment process description

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

Page 1 of 80

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

The treatment plant is a pond system. The City's wastewater is treated by a facultative lagoon. Effluent is stored in two holding ponds prior to irrigation of grassland.

Port or pipe diameter at the discharge point, in inches: n/a

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**.

| Treatment Unit Type | Number of | Dimensions (L x W x D) |
|---------------------------------------|-----------|-----------------------------------|
| | Units | |
| Facultative Lagoon (aerobic end) | 1 | 310' x 850' x 10'-13' |
| Facultative Lagoon (anaerobic end) | 1 | 16' deep w/ 4' freeboard |
| Holding Pond #1 | 1 | 385' x 225' x 12' w/ 2' freeboard |
| Holding Pond #2 | 1 | 420' x 265' x 12' w/ 2' freeboard |
| | | |
| | | |
| | | |

Table 1.0(1) - Treatment Units

C. Process flow diagrams

Provide flow diagrams for the existing facilities and **each** proposed phase of construction.
Attachment: <u>See Attachment B</u>

Section 3. Site Drawing (Instructions Page 52)

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

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

Attachment: <u>See Attachment C</u>

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

The area served by the treatment facility is the City Limits of the City of Tahoka and its extra-territorial jurisdiction.

Section 4. Unbuilt Phases (Instructions Page 52)

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.

| Click here to et | nter text |
|--|---|
| | |
| | |
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| | |
| | |
| | |
| | |
| | |
| Section 5. Clo | sure Plans (Instructions Page 53) |
| Have any treatm units be taken o | nent units been taken out of service permanently, or will any out of service in the next five years? |
| | |
| Yes 🗆 | No 🖂 |
| Yes □ If yes, was a clo | No 🖂 sure plan submitted to the TCEQ? |
| Yes □ If yes, was a clo Yes □ | No 🖾 sure plan submitted to the TCEQ? No 🗖 |
| Yes □ If yes, was a clo Yes □ If yes, provide a | No 🖾 sure plan submitted to the TCEQ? No 🗖 a brief description of the closure and the date of plan approval. |

Section 6. Permit Specific Requirements (Instructions Page 53)

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: June 21, 2001

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.

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.

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*.

Annual soil monitoring from representative samples – last sample collection taken 3/23/2023 and results are provided with this application.

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.

3. Grit disposal

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

Yes □ No ⊠

If No, contact the TCEQ Municipal Solid Waste team at 512-239-0000. Note: A registration or permit is required for grit disposal. Grit shall not be combined with treatment plant sludge. See the instruction booklet for additional information on grit disposal requirements and restrictions.

Describe the method of grit disposal.

4. Grease and decanted liquid disposal

Note: A registration or permit is required for grease disposal. Grease shall not be combined with treatment plant sludge. For more information, contact the TCEQ Municipal Solid Waste team at 512-239-0000.

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

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 or TXRNE

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

Yes 🗆 🛛 No 🗆

3. Conditional exclusion

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

Yes 🗆 🛛 No 🗆

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

Received:

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.

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.

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.

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

F. Discharges to the Lake Houston Watershed

Does the facility discharge in the Lake Houston watershed? Yes \square No \square

If yes, a Sewage Sludge Solids Management Plan is required. See Example 5 in the instructions.

G. Other wastes received including sludge from other WWTPs and septic waste

1. Acceptance of sludge from other WWTPs

Does the facility accept or will it accept sludge from other treatment plants at the facility site?

Yes 🗆 No 🗆

If yes, attach sewage sludge solids management plan. See Example 5 of the instructions.

In addition, provide the date that the plant started accepting sludge or is anticipated to start accepting sludge, an estimate of monthly sludge acceptance (gallons or millions of gallons), an estimate of the BOD₅

concentration of the sludge, and the design BOD₅ concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.

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

2. Acceptance of septic waste

Is the facility accepting or will it accept septic waste?

Yes 🗆 🛛 No 🗆

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

Yes 🗆 🛛 No 🗆

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

Yes 🗆 🛛 No 🗆

If yes to any of the above, provide a the date that the plant started accepting septic waste, or is anticipated to start accepting septic waste, an estimate of monthly septic waste acceptance (gallons or millions of gallons), an estimate of the BOD₅ concentration of the septic waste, and the design

BOD₅ concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.

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

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

Is the facility accepting or will it accept wastes that are not domestic in nature excluding the categories listed above?

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.

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

Is the facility in operation? Yes ⊠ No □

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

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

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

| Dollutant | Average | Max | No. of | Sample | Sample |
|--------------------------------------|---------|-------|---------|--------|-----------|
| ronutant | Conc. | Conc. | Samples | Туре | Date/Time |
| CBOD ₅ , mg/l | 22.3 | 22.3 | 1 | Grab | 2/22/24 |
| | | | | | 8:51 am |
| Total Suspended Solids, mg/l | 46.7 | 46.7 | 1 | Grab | same |
| Ammonia Nitrogen, mg/l | 9.65 | 9.65 | 1 | Grab | same |
| Nitrate Nitrogen, mg/l | <1.0 | <1.0 | 1 | Grab | same |
| Total Kjeldahl Nitrogen, mg/l | 128 | 128 | 1 | Grab | same |
| Sulfate, mg/l | 150 | 150 | 1 | Grab | same |
| Chloride, mg/l | 430 | 430 | 1 | Grab | same |
| Total Phosphorus, mg/l | 4.92 | 4.92 | 1 | Grab | same |
| pH, standard units | 7.70 | 7.70 | 1 | Grab | same |
| Dissolved Oxygen*, mg/l | | | | | |
| Chlorine Residual, mg/l | N/D | N/D | 1 | Grab | same |
| <i>E.coli</i> (CFU/100ml) freshwater | | | | | |

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

| Pollutant | Average | Max | No. of | Sample | Sample |
|--|---------|-------|---------|--------|-----------|
| ronutant | Conc. | Conc. | Samples | Туре | Date/Time |
| Entercocci (CFU/100ml) | | | | | |
| saltwater | | | | | |
| Total Dissolved Solids, mg/l | 1240 | 1240 | 1 | Grab | same |
| Electrical Conductivity, | 2300 | 2300 | 1 | Grab | same |
| µmohs/cm, † | | | | | |
| Oil & Grease, mg/l | | | | | |
| Alkalinity (CaCO ₃)*, mg/l | | | | | |

*TPDES permits only

†TLAP permits only

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

| Dollutant | Average | Max | No. of | Sample | Sample |
|---------------------------------------|---------|-------|---------|--------|-----------|
| Pollulalli | Conc. | Conc. | Samples | Туре | Date/Time |
| Total Suspended Solids, mg/l | N/A | | | | |
| Total Dissolved Solids, mg/l | N/A | | | | |
| pH, standard units | N/A | | | | |
| Fluoride, mg/l | N/A | | | | |
| Aluminum, mg/l | N/A | | | | |
| Alkalinity (CaCO ₃), mg/l | N/A | | | | |

Section 8. Facility Operator (Instructions Page 60)

Facility Operator Name: <u>Raymond Vega</u>

Facility Operator's License Classification and Level: <u>Wastewater Operator D</u>

Facility Operator's License Number: <u>WW0002567</u>

Section 9. Sewage Sludge Management and Disposal (Instructions

Page 60)

A. Sludge disposal method

Identify the current or anticipated sludge disposal method or methods from the following list. Check all that apply.

- Permitted landfill
- Permitted or Registered land application site for beneficial use
- □ Land application for beneficial use authorized in the wastewater permit
- Permitted sludge processing facility
- □ Marketing and distribution as authorized in the wastewater permit
- Composting as authorized in the wastewater permit
- Permitted surface disposal site (sludge monofill)
- Surface disposal site (sludge monofill) authorized in the wastewater permit
- Transported to another permitted wastewater treatment plant or permitted sludge processing facility. If you selected this method, a written statement or contractual agreement from the wastewater treatment plant or permitted sludge processing facility accepting the sludge must be included with this application.
- Other: <u>Not applicable due to a facultative lagoon treatment system</u>

B. Sludge disposal site

| Disposal site name: | |
|--|--------------------|
| TCEQ permit or registration number: | re to enter text. |
| County where disposal site is located: | ere to enter text. |

C. Sludge transportation method

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

Name of the hauler:

Hauler registration number:

Page 13 of 80

Sludge is transported as a:

| Liquid 🗆 | semi-liquid 🗆 | semi-solid 🗆 | solid \square | |
|----------|---------------|--------------|-----------------|--|
|----------|---------------|--------------|-----------------|--|

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

A. Beneficial use authorization

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

Yes □ 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 61)

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:

• USDA Natural Resources Conservation Service Soil Map:

Attachment:

• Federal Emergency Management Map:

Attachment:

• Site map:

| Attachmont | | | |
|------------|--|--|--|
| Анасишені. | | | |
| | | | |

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
- \Box None of the above

Attachment:

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:

B. Temporary storage information

Provide the results for the pollutant screening of sludge lagoons. These results are in addition to pollutant results in Section 7 of Technical Report 1.0.

Nitrate Nitrogen, mg/kg:

| Total Kjeldahl Nitrogen, mg/kg: |
|--|
| Total Nitrogen (=nitrate nitrogen + TKN), mg/kg: |
| Phosphorus, mg/kg: |
| Potassium, mg/kg: |
| pH, standard units: |
| Ammonia Nitrogen mg/kg: |
| Arsenic: dick here to enter text |
| Cadmium: Citete here to enter text |
| Chromium: Click here to enter text |
| Copper: Dick here to enter text |
| Lead: Dick here to enter text |
| Mercury: Mark here to an an an and a state of the state o |
| Molybdenum: Molybdenum in enter text |
| Nickel: Click here to enter text |
| Selenium: Lick here to enter text |
| Zinc: Click here to enter text |
| Total PCBs: Click here to enter text |
| Provide the following information: Volume and frequency of sludge to the lagoon(s): |
| Total dry tons stored in the lagoons(s) per 365-day period: |
| |
| Total dry tons stored in the lagoons(s) over the life of the unit: |
| |
| 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.

D. Site development plan

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

Attach the following documents to the application.

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

Attachment:

• Copy of the closure plan

Attachment:

• Copy of deed recordation for the site

Attachment:

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

Attachment:

• Description of the method of controlling infiltration of groundwater and surface water from entering the site

Attachment:

• Procedures to prevent the occurrence of nuisance conditions

Attachment:

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:

Section 12. Authorizations/Compliance/Enforcement (Instructions Page 63)

A. Additional authorizations

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

Yes □ No ⊠

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

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:

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

A. RCRA hazardous wastes

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

Yes 🗆 🛛 No 🖾

B. Remediation activity wastewater

Has the facility received in the past three years, does it currently receive, or will

Page 18 of 80

it receive CERCLA wastewater, RCRA remediation/corrective action wastewater or other remediation activity wastewater?

Yes \Box No \boxtimes

C. Details about wastes received

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

Attachment:

Section 14. Laboratory Accreditation (Instructions Page 64)

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

- The laboratory is an in-house laboratory and is:
 - 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.*

| Printe | d Name: | | |
|--------|---------|--|--|
| | | | |

Title: Click here to enter te

| Signaturo | | | |
|------------|------|------|------|
| Signature. | | | |

Date: _____

DOMESTIC WORKSHEET 3.0

LAND DISPOSAL OF EFFLUENT

The following is required for all permit applications

Renewal, New, and Amendments

Section 1. Type of Disposal System (Instructions Page 77)

Identify the method of land disposal:

| \boxtimes | Surface application | | Subsurface application |
|-------------|---|-----------------|---|
| | Irrigation | | Subsurface soils absorption |
| | Drip irrigation system | | Subsurface area drip dispersal system |
| | Evaporation | | |
| | Evapotranspiration beds | | |
| | Other (describe in detail): | | ere to enter text. |
| NOT subs | E: All applicants without aut urface disposal MUST compl | thori: ete a | zation or proposing new/amended nd submit Worksheet 7.0. |

For existing authorizations, provide Registration Number:

Section 2. Land Application Site(s) (Instructions Page 77)

In table 3.0(1), provide the requested information for the land application sites. Include the agricultural or cover crop type (wheat, cotton, alfalfa, bermuda grass, native grasses, etc.), land use (golf course, hayland, pastureland, park, row crop, etc.), irrigation area, amount of effluent applied, and whether or not the public has access to the area. Specify the amount of land area and the amount of effluent that will be allotted to each agricultural or cover crop, if more than one crop will be used.

| | Irrigation | Effluent | Public |
|----------------------|------------|-------------|---------|
| Crop Type & Land Use | Area | Application | Access? |
| | | (077) | |
| | (acres) | (GPD) | Y/N |

Table 3.0(1) - Land Application Site Crops

| | Irrigation | Effluent | Public |
|----------------------|------------|-------------|---------|
| Crop Type & Land Use | Area | Application | Access? |
| | (acres) | (GPD) | Y/N |
| | | | |
| | | | |
| | | | |

Section 3. Storage and Evaporation Lagoons/Ponds (Instructions **Page 77)**

Table 3.0(2) - Storage and Evaporation Ponds

| Pond Number | Surface Area (acres) | Storage Volume (acre-feet) | Dimensions | Liner Type |
|----------------|----------------------------|----------------------------------|---------------|------------|
| Holding #1 | 1.989 | 15.10 | 385'x225'x12' | Soil/Clay |
| Holding #2 | 2.555 | 20.66 | 420'x265'x12' | Soil/Clay |
| | | | | |
| | | | | |

Attach a copy of a liner certification that was prepared, signed, and sealed by a Texas licensed professional engineer for each pond.

Attachment: Not available; presumed April 2002

Section 4. Flood and Runoff Protection (Instructions Page 77)

Is the land application site within the 100-year frequency flood level?

Yes □ No 🗆

** Unknown

If yes, describe how the site will be protected from inundation.

The walls of the facultative pond and holding ponds are earthen berms that are at least two (2) feet above natural grade.

Provide the source used to determine the 100-year frequency flood level:

Unknown, the subject area remains unmapped by FEMA

Provide a description of tailwater controls and rainfall run-on controls used for the land application site.

Runoff from the irrigation site will be contained in a tailwater pond. A pump is used to return excessive stormwater to the holding ponds upon reaching a certain level in this tailwater pond Stormwater runon is diverted away from the irrigation site by a small diversion berm.

Section 5. Annual Cropping Plan (Instructions Page 77)

Attach an Annual Cropping Plan which includes a discussion of each of the following items. If not applicable, provide a detailed explanation indicating why.

Attachment: <u>See Attachment D for previously approved cropping</u> plan dated 6/25/2003

- Soils map with crops
- Cool and warm season plant species
- Crop yield goals
- Crop growing season
- Crop nutrient requirements
- Additional fertilizer requirements
- Minimum/maximum harvest height (for grass crops)
- Supplemental watering requirements
- Crop salt tolerances
- Harvesting method/number of harvests
- Justification for not removing existing vegetation to be irrigated

Section 6. Well and Map Information (Instructions Page 78)

Attach a USGS map with the following information shown and labeled. If not applicable, provide a detailed explanation (on a separate page) indicating why.

Attachment: <u>See Attachment A or Attachment E</u>

- The boundaries of the land application site(s)
- Waste disposal or treatment facility site(s)

- On-site buildings
- Buffer zones
- Effluent storage and tailwater control facilities
- All water wells within 1 mile of the disposal site or property boundaries
- All springs and seeps onsite and within 500 feet of the property boundaries
- All surface waters in the state onsite and within 500 feet of the property boundaries
- All faults and sinkholes onsite and within 500 feet of the property

List and cross reference all water wells shown on the USGS map in the following table. Attach additional pages as necessary to include all of the wells.

| Well ID | Well Use | Producing? Y/N | Open, cased, capped, or plugged? | Proposed Best Management Practice |
|---------|----------|-------------------|--|-----------------------------------|
| | | | | |
| | | | | |

Table 3.0(3) – Water Well Data

If water quality data or well log information is available please include the information in an attachment listed by Well ID.

Attachment: See Attachment F for all well ID information

Section 7. Groundwater Quality (Instructions Page 79)

Attach a Groundwater Quality Technical Report which assesses the impact of the wastewater disposal system on groundwater. This report shall include an evaluation of the water wells (including the information in the well table provided in Item 6. above), the wastewater application rate, and pond liners. Indicate by a check mark that this report is provided.

Attachment: See Attachment G

Are groundwater monitoring wells available onsite? Yes \Box No \boxtimes

| Do you plan to install g | round water | monitoring | wells of | r lysimeters | around | the |
|--------------------------|-------------|------------|----------|--------------|--------|-----|
| land application site? | Yes 🗆 | No 🖂 | | | | |

If yes, then provide the proposed location of the monitoring wells or lysimeters on a site map.

Attachment:

Section 8. Soil Map and Soil Analyses (Instructions Page 79)

A. Soil map

Attach a USDA Soil Survey map that shows the area to be used for effluent disposal.

Attachment: <u>H</u>

B. Soil analyses

Attach the laboratory results sheets from the soil analyses. **Note**: for renewal applications, the current annual soil analyses required by the permit are acceptable as long as the test date is less than one year prior to the submission of the application.

Attachment: I

List all USDA designated soil series on the proposed land application site. Attach additional pages as necessary.

| | Depth | | Available | Curve | |
|-------------------------|---------|--------------|-----------|--------|--|
| Soil Series | from | Permeability | Water | Number | |
| | Surface | | Capacity | | |
| Acuff loam | 0-18 in | 1.276 in/hr | 0.17 | B 61 | |
| | | | | | |
| Estacado loam | 0-18 in | 0.959 in/hr | 0.15 | B 61 | |
| Lenorah-Hindman complex | 0-18 in | 2.446 in/hr | 0.11 | C 74 | |
| Potter soils | 0-18 in | 1.069 in/hr | 0.12 | C 74 | |
| Portales loam | 0-18 in | 1.276 in/hr | 0.15 | B 61 | |
| | | | | | |
| | | | | | |

Table 3.0(4) – Soil Data

Section 9. Effluent Monitoring Data (Instructions Page 80)

Is the facility in operation?

Yes 🛛 🛛 No 🗆

If no, this section is not applicable and the worksheet is complete.

If yes, provide the effluent monitoring data for the parameters regulated in the existing permit. If a parameter is not regulated in the existing permit, enter N/A.

| Date | 30 Day Avg Flow | BOD ₅ mg/l | TSS mg/l | рН | Chlorine Residual | Acres irrigated |
|-----------|-----------------------|--------------------------|-------------|------|----------------------|--------------------|
| | MGD | U, | | | IIIg/1 | |
| Jan 2022 | - | 21 | 52 | 7.81 | n/a | 129.75 |
| Feb 2022 | - | 34 | 51 | 8.32 | n/a | 129.75 |
| Mar 2022 | - | 33 | 66 | 8.6 | n/a | 129.75 |
| Apr 2022 | - | 20 | 72 | 7.89 | n/a | 129.75 |
| May 2022 | - | 77 | 64 | 8.84 | n/a | 129.75 |
| June 2022 | - | 42 | 88 | 9.1 | n/a | 129.75 |
| July 2022 | 0.124 | 51 | 67 | 9.0 | n/a | 129.75 |
| Aug 2022 | 0.214 | 60.8 | 53 | 8.3 | n/a | 129.75 |
| Sept 2022 | 0.117 | 64.8 | 79 | 8.8 | n/a | 129.75 |
| Oct 2022 | 0.125 | 58.2 | 62 | 8.0 | n/a | 129.75 |
| Nov 2022 | 0.119 | 62.5 | 82 | 7.4 | n/a | 129.75 |
| Dec 2022 | 0.104 | 63.6 | 86 | 8.0 | n/a | 129.75 |
| Jan 2023 | 0.106 | < 2.0 | 86 | 8.3 | n/a | 129.75 |
| Feb 2023 | 0.094 | 31.2 | 64 | 7.5 | n/a | 129.75 |
| Mar 2023 | 0.089 | 31.6 | 40 | 7.5 | n/a | 129.75 |
| Apr 2023 | 0.101 | 52.0 | 159 | 8.8 | n/a | 129.75 |
| May 2023 | 0.109 | 38.5 | 121 | 9.0 | n/a | 129.75 |
| June 2023 | 0.130 | 21.7 | 76.0 | 9.1 | n/a | 129.75 |
| July 2023 | 0.160 | 34.0 | 96.7 | 9.0 | n/a | 129.75 |
| Aug 2023 | 0.134 | 20.9 | 82.7 | 8.9 | n/a | 129.75 |
| Sep 2023 | 0.129 | 23.7 | 76.0 | 8.8 | n/a | 129.75 |

Table 3.0(5) - Effluent Monitoring Data

| Date | 30 Day Avg Flow MGD | BOD5 mg/l | TSS mg/l | рН | Chlorine Residual mg/l | Acres irrigated |
|----------|------------------------------|--------------|-------------|-----|------------------------------|--------------------|
| Oct 2023 | 0.118 | 31.5 | 82.0 | 8.5 | n/a | 129.75 |
| Nov 2023 | 0.110 | 36.7 | 69.0 | 7.8 | n/a | 129.75 |
| Dec 2023 | 0.101 | 26.2 | 80.0 | 7.5 | n/a | 129.75 |

Provide a discussion of all persistent excursions above the permitted limits and any corrective actions taken.

See Attachment J for monthly records of daily meter logs. See Attachment K for chain of custody and original laboratory results.

DOMESTIC WORKSHEET 6.0

INDUSTRIAL WASTE CONTRIBUTION

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

Section 1. All POTWs (Instructions Page 99)

A. Industrial users

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

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

Categorical IUs:

Number of IUs: <u>zero (0)</u>

Average Daily Flows, in MGD:

Significant IUs - non-categorical:

Number of IUs: zero (0)

Average Daily Flows, in MGD:

Other IUs:

Number of IUs: zero (0)

Average Daily Flows, in MGD:

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.

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.

D. Pretreatment program

Does your POTW have an approved pretreatment program?

Yes 🗆 🛛 No 🖂

If yes, complete Section 2 only of this Worksheet.

Is your POTW required to develop an approved pretreatment program? Yes No

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

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

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

A. Substantial modifications

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

Yes □ No □

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

| Click here 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.

| C. Efflu | ient paramete | rs 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.

| Pollutant | Concentration | MAL | Units | Date |
|-----------|---------------|-----|-------|------|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Table 6.0(1) - Parameters Above the MAL

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 here to enter text. | | |
|---------------------------|--|--|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

Section 3. Significant Industrial User (SIU) Information and Categorical Industrial User (CIU) (Instructions Page 100)

A. General information

| Company Name: | | |
|----------------------------|-------------|---------------------|
| SIC Code: | | |
| Telephone number: | Fax number: | Click here to enter |
| | | |
| Contact name: | | |
| Address: | | |
| City, State, and Zip Code: | r 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).

C. Product and service information

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

Page **73** of **80**

| Click here to enter text. | | |
|---------------------------|--|--|
| | | |
| | | |
| | | |

D. Flow rate information

See the Instructions for definitions of "process" and "non-process wastewater." Process Wastewater:

| Discharge, in gallons/day: | st. | |
|--|-----|--------------|
| Discharge Type: 🗆 Continuous 🗆 Batch | | Intermittent |
| Non-Process Wastewater: | | |
| Discharge, in gallons/day: | st. | |
| Discharge Type: 🗖 🛛 Continuous 🗖 🛛 Batch | | Intermittent |

E. Pretreatment standards

Is the SIU or CIU subject to technically based local limits as defined in the instructions?

Yes 🗆 🛛 No 🗆

Is the SIU or CIU subject to categorical pretreatment standards found in *40 CFR Parts 405-471*?

Yes 🗆 No 🗆

If subject to categorical pretreatment standards, indicate the applicable category and subcategory for each categorical process.

| Category: Subcategories: | |
|-----------------------------|--|
| Category: Subcategories: | |
| Category: Subcategories: | |
| Category: Subcategories: | |
| Category: Subcategories: | |

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.

ATTACHMENT A

USGS Map (Original)



ATTACHMENT B

Process Flow Diagram



ATTACHMENT C

Site Drawing


ATTACHMENT D

Cropping Plan and Detailed Plan for Management of Saline and Sodic Soil Conditions

Attachment 7 - Cropping Plan

The following is a cropping plan for the City of Tahoka Sewer Treatment Plant land disposal area.

(1) A soils map depicting the location of the crop is attached (NRCS Soil map of Lynn County, Texas) Attachment H

(2) Crop to be used for disposal of effluent is Bermuda Grass (approximately 150 acres)

(3) The growing season for the bermuda will be year round based on the quantity of effluent available.

(4) The nutrient requirement for Bermuda is 475 lb/acre/year according to EPA Design Manual for Land Treatment of Municipal Wastewater Table 5-2, page 5-6

(5) No supplemental watering should be required.

(6) Bermuda grass has a salt tolerance range between 8.0-12.0 mmhos/cm (25 degrees Celsius) (TAC 309.20) See attached soils report for conductivity of soil in land application area.

(8) The harvesting method for the Bermuda grass will normally be by grazing of cattle. However, on occasion the grass may be cut and baled. Harvesting of the Bermuda will be regulated according to the availability of effluent.

Attachment 9 - Nitrogen Balance

Describe the method of application and provide a nitrogen balance for the crop system.

Method of irrigation: Pivot Sprinkler System and / or Row Irrigation. (Efficiency 85%)

Nitrogen Balance Calculations

The application rate formula as per TNRCC 30 TAC 309.2 C is

BERMUDA GRASS

L = N/2.7C L = annual liquid loading - feet/year

C = 30.0 mg/l, (Assumed) C = effluent nitrogen concentration - mg/l

 $N = 475 \text{ lb/ac/yr } x 120\% = 570 \text{ N} = annual crop requirement of nitrogen}$

Plus 20 % - pound/ac/yr (as per EPA

Process Design Manual for Land Treatment of Municipal Wastewater

Table 5-2, page 5-6

therefore, L = 570/2.7*30.0

= 7.03 acre-feet/acre/year

Detailed Plan for Management of Saline and Sodic Soil Conditions at the Treated Effluent Land Application Site at the City of Tahoka WWTP (Permit No. 10298-002)

General Scope

This Plan was prepared pursuant to Special Provision 18 of Permit No. 10298-002.

According to the SCS Soil Survey for Lynn County, Texas, soils of the wastewater application site consist of loams of the Amarillo, Drake, Portales, and Zita series. Soils of the Amarillo, Portales and Zita series have moderate limitations for use with wastewater application due to depth to soft caliche layers in the subsoils.

Soils analyses of the irrigation site indicate an increase of salinity and SAR (sodium adsorptions ratio). Salinity levels range from 1,300 micro-MHOS/cm to 5,400 micro-MHOS/cm. The SAR ranges from 4 to 21 across the three depths that the soil samples represent. The development of saline and sodic conditions may adversely impact the water and nutrient uptake of the crops to be grown. Soils are considered saline when the electrical conductivity reaches or exceeds 4,000 micro-MHOS/cm and considered sodic when SAR levels reach 13 with a pH greater than or equal to 8.5 standard units.

In order to protect the fertility and production potential of the land application area, close monitoring of the soil conditions (with respect to salinity and SAR levels) and consciences management of the application of treated effluent shall be a priority of the plant operators. In addition to saline and sodic soil conditions at the site, this management plan is meant to address the use of coastal Bermuda grass as the only vegetative crop on the irrigation site, as it is typically dormant during winter months.

The site conditions shall be evaluated yearly by a certified Texas Nutrient Management Specialist according to the principles and practices of the National NRCS Nutrient Management Policy and the Texas Cooperative Extension. It is the responsibility of the City to ensure that a Comprehensive Nutrient Management Plan (CNMP) for the site be maintained.

Soil Analyses

The soils of the treated effluent land application site shall be analyzed for pH, electrical conductivity, nitrate nitrogen, phosphorus, potassium, sodium, magnesium, calcium, and sodium adsorption ratio (SAR)(not to exceed an SAR of 10). The nutritive parameters should be analyzed in extractable or available form.

Composite and benchmark sampling and analysis techniques shall be used when sampling the soils. Individual soil types, as defined the USDA NRCS soil survey, should be sampled individually at zones of 0-6, 6-18, and 18-30 inches. Each composite sample shall represent no more than 80 acres with no less than 15 subsamples representing each composite sample. Each benchmark sample shall represent no more than 80 acres with at

least 7 subsamples for each benchmark composite sample. Subsamples shall be composited by individual site, zone and soil type for analysis and reporting.

Also, the effluent shall be analyzed, as necessary, for those parameters mandated in the permit <u>and</u> electrical conductivity, nitrate nitrogen, phosphorus, potassium, sodium, magnesium, and calcium for evaluation and management purposes. Application rates and management practices may be re-evaluated and revised based on CNMP forecasts.

Management Approach

The objective of this management plan is to maintain soil conditions at the treated effluent land application site conducive to crop productivity and vigor. The plan is established to ensure that soils are monitored for mineral and nutrient content and that effluent is applied in such a manner as to maintain desirable soil conditions. Effluent should be applied at such a rate and at appropriate times to provide for adequate leaching of undesirable quantities of minerals beyond the root zone, while optimizing nutrient uptake rates by the cover crop.

Also, it is an objective of this plan to maintain a cover crop/s possessing nutrient uptake capabilities required to prevent migration of undesirable nutrient pollutants to the groundwater beneath the site. While most sources provide evapotranspiration rates for all 12 months for Bermuda grass, it is thought that simple evaporation from the soil surface accounts for up to 100% of this ET in winter months. It is not likely that significant nutrient uptake is occurring in Bermuda grass during this dormant period. It is however likely that vigorous growth in the early spring and summer months will sufficiently extract nutrients stored in the root zone during dormancy. The potential of this occurring will be determined by the CNMP. Should the CNMP demonstrate that nutrients are migrating through the root zone and threatening groundwater quality, a cool season crop (such as winter wheat) shall be sown within the dormant Bermuda. All grasses will be grazed and/or harvested to achieve ultimate nutrient removal from the site.

To achieve these objectives, the City shall rely upon the guidance of this Plan, a TCEQ Water Balance, prepared by a Licensed Professional Engineer in the State of Texas, a Certified Nutrient Management Plan, prepared by a certified Texas Nutrient Management Specialist, and supplemental advice from these professionals.

ATTACHMENT E

USGS Map w/ Wells



ATTACHMENT F

Water Well Data

Section 6. WELL AND MAP INFORMATION (within 1/2 mile of property boundaries and/or disposal area only) continued from Page 39 of 80

| Source Well ID | State Well Log ID | Well Use | Producing? | Open, cased, capped or plugged? | Proposed Best Management Practice | Source |
|-------------------|----------------------|-------------------|---------------|---------------------------------------|---|---------------|
| 72020 | n/a | Private | - | - | - | HPWD; no logs |
| 72930 | Yield: unknow | <i>w</i> n Drille | ed: unknown | Water Depth: unkno | own | |
| 72021 | n/a | Private | - | - | - | HPWD; no logs |
| 72931 | Yield: unknov | <i>w</i> n Drille | ed: unknown | Water Depth: unkno | own | |
| 72022 | 295225 | Private | Yes | Cased (5" PVC) | Surface sleeve | HPWD |
| 12932 | Yield: unknov | wn Drille | ed: 6/12/2012 | Water Depth: 15ft | Domestic use | |
| 72026 | 295228 | Private | Yes | Cased (5" PVC) | Surface sleeve | HPWD |
| 72930 | Yield: unknow | <i>w</i> n Drille | ed: 6/13/2012 | Water Depth: 15ft | Domestic use | |
| 72072 | 295227 | Private | Yes | Cased (5" PVC) | Surface sleeve | HPWD |
| 12912 | Yield: unknow | <i>w</i> n Drille | ed: 6/13/2012 | Water Depth: 15ft | Domestic use | |
| 72022 | 295224 | Private | Yes | Cased (5" PVC) | Surface sleeve | HPWD |
| 72933 | Yield: unknov | <i>w</i> n Drille | ed: 6/12/2012 | Water Depth: 15ft | Domestic use | |
| 72025 | 295230 | Private | Yes | Cased (5" PVC) | Surface sleeve | HPWD |
| 72935 | Yield: unknow | <i>w</i> n Drille | ed: 6/13/2012 | Water Depth: 15ft | Domestic use | |
| 72024 | 295222 | Private | Yes | Cased (5" PVC) | Surface sleeve | HPWD |
| 72934 | Yield: unknow | <i>w</i> n Drille | ed: 6/12/2012 | Water Depth: 15ft | Domestic use | |
| 05402 | 366718 | Private | Yes | Cased (12" PVC) | unknown | HPWD |
| 95492 | Yield: unknow | <i>w</i> n Drille | ed: 6/10/2022 | Water Depth: 20ft | | |
| 0050004 | 2350801 | Private | No | Cased (12" Galv) | unknown | TWDB |
| 2350801 | Yield: none | Drilled: 2 | 2/1978 Wate | r Depth: 25ft | | |

ATTACHMENT G

Groundwater Quality Report

Section 7. Groundwater Quality

North-South regional cross section

for the High Plains Aquifer System

For this short report, water quality will pertain to the most shallow, yet most substantial aquifer in the region, the Ogallala. Water quality in this aquifer is good; however, it is considered 'hard' due to higher concentrations of calcium and magnesium. In addition, high levels of nitrates, fluoride and arsenic have been observed in the historical well sampling within and around the City of Tahoka in concentrations exceeding the MCL for primary and secondary water quality standards.

Two minor aquifers, the Edwards-Trinity (High Plains) and Dockum aquifers underly the Ogallala, yet water quality declines to slightly saline to brackish, TDS concentrations typically corresponding to the depth of the aquifer being tested. Due to the relative depth to the water table, the generous saturated thickness that averages 54 feet, and the good water quality found throughout the region and at all depths, most municipal, private domestic, and irrigation wells are developed in the Ogallala aquifer. See Figure 1 below for a representation of the various aquifers in Lynn County and their respective base, water table and surface elevations.



Figure 1 – Cross Section of Local Aquifers¹

Ogallala aquifer, recharge occurs primarily through percolation of precipitation through the soilds and underlying sediments. Playa lakes are primary points for most natural recharge, contributing 10-100 times more recharge than surrounding lands.¹

Referencing the USGS – Water Well Map, the depth to the Ogallala water table in Well 75956, located 1.2 miles north of the effluent disposal site was 40.36' from the surface (2023). The depth to the water table decreases rapidly as one moves south. The next closest well to the effluent disposal site is located 3.5 miles southeast and only has a depth to the water table of 14.96 feet (2023).

Groundwater movement in the Ogallala aquifer generally flows from the NW to the SE at variable rates, but approximating 150 feet per year. No monitoring of the groundwater quality below the effluent disposal site have been performed in the past.

¹ High Plains Underground Water Conservation District, Ogallala Aquifer Fact Sheet, 11/24/2021

No dedicated monitoring wells have been constructed. According to online water records from High Plains Underground Water Conservation District (HPWD) and the Texas Water Development Board, there are only two wells downgradient of the irrigation area, both located approximately 0.85 miles to the SE identified as 635734 and 635735 on the USGS – Water Well Map. Both wells were drilled/developed in March 2023. At the approximated groundwater flowrate provided by HPWD, this would calculate out to 29.9 years of background data before any influence of the effluent could be observed.

This office successfully located sealed RECORD DRAWINGS for the wastewater treatment plant constructed in 2002, including details of the irrigation area and the tailwater pond. The drawings indicated the exact location of the tailwater berms, which effectively contain all runoff from the irrigation area before it can pond within the existing playa lake. See Exhibit 1 at the end of this report for a reproduction of Sheet 9 from the RECORD set that defines the extent of the effluent disposal site and the runoff control measures constructed.

Figure 2 below represents the tailwater return structure with pump that prevents runoff and limits the amount of effluent that is capable of being ponded in this playa basin.



Figure 2 – Tailwater Pond Pump Detail



| FOR WASTEWATER TREATMENT PLANT NODE LIST, REFER TO SHEET 3. FOR TAILWATER POND NODE LIST, REFER TO SHEET 15. | | NO(65 | |
|--|------------------------------------|---|--|
| FOR WASTEWATER TREATMENT PLANT NODE LIST, REFER TO SHEET 3. FOR TAILWATER POND NODE LIST, REFER TO SHEET 15. FOR TAILWATER POND NODE LIST, REFER TO SHEET 15. FOR TAILWATER POND NODE LIST, REFER TO SHEET 15. FOR TAILWATER POND NODE LIST, REFER TO SHEET 15. FOR TAILWATER POND NODE LIST, REFER TO SHEET 15. FOR TAILWATER POND NODE LIST, REFER TO SHEET 15. FOR TAILWATER POND NODE LIST, REFER TO SHEET 15. FOR TAILWATER POND NODE LIST, REFER TO SHEET 15. FOR TAILWATER POND NODE LIST, REFER TO SHEET 15. FOR TAILWATER POND NODE LIST, REFER TO SHEET 15. FOR TAILWATER POND NODE LIST, REFER TO SHEET 15. FOR TAILWATER POND NODE LIST, REFER TO SHEET 15. FOR TAILWATER POND NODE LIST, REFER TO SHEET 15. | | | |
| FOR TAILWATER POND NODE LIST, REFER TO SHEET 15. | | FOR WASTEWATER TREATMENT PLANT NODE LIST, REFER TO SHEET 3. | |
| : 2034.97 : 2034-09.DWG R.M.O. R.S. Drawn by : J.I.R. Scale : AS SHOWN Date : AUGUST 2002 | | FOR TAILWATER POND NODE LIST, REFER TO SHEET 15. | |
| : 2034.97 : 2034-09.DWG R.M.O. R.S. Date : AUGUST 2002 | | | |
| : 2034.97 : 2034-09.DWG R.M.O. R.S. R. | | | |
| : 2034.97 : 2034-09.DWG Drawn by : J.I.R. Scale : AS SHOWN R.S. Date : | | | |
| : 2034.97 : 2034-09.DWG R.M.O. R.S. R.S. Date : AUGUST 2002 | | | |
| : 2034.97 Plot: 1 = 1 : 2034-09.DWG Drawn by : J.I.R. R.M.O. Scale : AS SHOWN R.S. Date : AUGUST 2002 | | | |
| : 2034.97 Plot: 1 = 1 : 2034-09.DWG Drawn by : J.I.R. R.M.O. Scale : AS SHOWN R.S. Date : AUGUST 2002 | | | |
| : 2034.97 Plot: 1 = 1 : 2034-09.DWG Drawn by : J.I.R. R.M.O. Scale : AS SHOWN R.S. Date : AUGUST 2002 | | | |
| : 2034.97 Plot: 1 = 1 : 2034-09.DWG Drawn by : J.I.R. R.M.O. Scale : AS SHOWN R.S. Date : AUGUST 2002 | | | |
| : 2034.97 Plot: I = I : 2034-09.DWG Drawn by : J.I.R. | | | |
| <u>R.M.O.</u> R.S. Date : AUGUST 2002 | 2034.97 Plot: $1 = 1$ | | |
| R.M.O. Scale : AS SHOWN R.S. Date : AUGUST 2002 | .: 2034-09.DWG Drawn by : J.I.R. | | |
| R.S. Date : AUGUST 2002 | R.M.O. Scale : AS SHOWN | | |
| | R.S. Date : AUGUST 2002 | | |

ATTACHMENT H

USDA Soil Survey Map and Reports

- Hydrologic Soil GroupEngineering PropertiesSaturated Hydraulic Conductivity



USDA Natural Resources Conservation Service Web Soil Survey National Cooperative Soil Survey



USDA

Map Unit Legend

| Map Unit Symbol | Map Unit Name | Acres in AOI | Percent of AOI |
|-----------------------------|---|--------------|----------------|
| АсВ | Acuff loam, 1 to 3 percent slopes | 13.9 | 6.2% |
| EsA | Estacado loam, 0 to 1 percent slopes | 66.3 | 29.6% |
| LhA | Lenorah-Hindman complex, 0 to 2 percent slopes, very rarely flooded | 11.4 | 5.1% |
| PGE | Potter soils, 3 to 20 percent slopes | 0.5 | 0.2% |
| РоА | Portales loam, 0 to 1 percent slopes | 102.9 | 45.9% |
| РоВ | Portales loam, 1 to 3 percent slopes | 29.2 | 13.0% |
| Totals for Area of Interest | | 224.2 | 100.0% |



USDA Natural Resources

Conservation Service

Web Soil Survey National Cooperative Soil Survey 3/4/2024 Page 1 of 4





Hydrologic Soil Group

| Map unit symbol | Map unit name | Rating | Acres in AOI | Percent of AOI |
|---------------------------|--|--------|--------------|----------------|
| AcB | Acuff loam, 1 to 3 percent slopes | В | 13.9 | 6.2% |
| EsA | Estacado loam, 0 to 1 percent slopes | В | 66.3 | 29.6% |
| LhA | Lenorah-Hindman complex, 0 to 2 percent slopes, very rarely flooded | С | 11.4 | 5.1% |
| PGE | Potter soils, 3 to 20 percent slopes | С | 0.5 | 0.2% |
| РоА | Portales loam, 0 to 1 percent slopes | В | 102.9 | 45.9% |
| РоВ | Portales loam, 1 to 3 percent slopes | В | 29.2 | 13.0% |
| Totals for Area of Intere | est | | 224.2 | 100.0% |

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition Component Percent Cutoff: None Specified Tie-break Rule: Higher



Engineering Properties

This table gives the engineering classifications and the range of engineering properties for the layers of each soil in the survey area.

Hydrologic soil group is a group of soils having similar runoff potential under similar storm and cover conditions. The criteria for determining Hydrologic soil group is found in the National Engineering Handbook, Chapter 7 issued May 2007(http://directives.sc.egov.usda.gov/OpenNonWebContent.aspx? content=17757.wba). Listing HSGs by soil map unit component and not by soil series is a new concept for the engineers. Past engineering references contained lists of HSGs by soil series. Soil series are continually being defined and redefined, and the list of soil series names changes so frequently as to make the task of maintaining a single national list virtually impossible. Therefore, the criteria is now used to calculate the HSG using the component soil properties and no such national series lists will be maintained. All such references are obsolete and their use should be discontinued. Soil properties that influence runoff potential are those that influence the minimum rate of infiltration for a bare soil after prolonged wetting and when not frozen. These properties are depth to a seasonal high water table, saturated hydraulic conductivity after prolonged wetting, and depth to a layer with a very slow water transmission rate. Changes in soil properties caused by land management or climate changes also cause the hydrologic soil group to change. The influence of ground cover is treated independently. There are four hydrologic soil groups, A, B, C, and D, and three dual groups, A/D, B/D, and C/D. In the dual groups, the first letter is for drained areas and the second letter is for undrained areas.

The four hydrologic soil groups are described in the following paragraphs:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

Depth to the upper and lower boundaries of each layer is indicated.

Texture is given in the standard terms used by the U.S. Department of Agriculture. These terms are defined according to percentages of sand, silt, and clay in the fraction of the soil that is less than 2 millimeters in diameter. "Loam," for example, is soil that is 7 to 27 percent clay, 28 to 50 percent silt, and less than 52 percent sand. If the content of particles coarser than sand is 15 percent or more, an appropriate modifier is added, for example, "gravelly."

Classification of the soils is determined according to the Unified soil classification system (ASTM, 2005) and the system adopted by the American Association of State Highway and Transportation Officials (AASHTO, 2004).

The Unified system classifies soils according to properties that affect their use as construction material. Soils are classified according to particle-size distribution of the fraction less than 3 inches in diameter and according to plasticity index, liquid limit, and organic matter content. Sandy and gravelly soils are identified as GW, GP, GM, GC, SW, SP, SM, and SC; silty and clayey soils as ML, CL, OL, MH, CH, and OH; and highly organic soils as PT. Soils exhibiting engineering properties of two groups can have a dual classification, for example, CL-ML.

The AASHTO system classifies soils according to those properties that affect roadway construction and maintenance. In this system, the fraction of a mineral soil that is less than 3 inches in diameter is classified in one of seven groups from A-1 through A-7 on the basis of particle-size distribution, liquid limit, and plasticity index. Soils in group A-1 are coarse grained and low in content of fines (silt and clay). At the other extreme, soils in group A-7 are fine grained. Highly organic soils are classified in group A-8 on the basis of visual inspection.

If laboratory data are available, the A-1, A-2, and A-7 groups are further classified as A-1-a, A-1-b, A-2-4, A-2-5, A-2-6, A-2-7, A-7-5, or A-7-6. As an additional refinement, the suitability of a soil as subgrade material can be indicated by a group index number. Group index numbers range from 0 for the best subgrade material to 20 or higher for the poorest.

Percentage of rock fragments larger than 10 inches in diameter and 3 to 10 inches in diameter are indicated as a percentage of the total soil on a dry-weight basis. The percentages are estimates determined mainly by converting volume percentage in the field to weight percentage. Three values are provided to identify the expected Low (L), Representative Value (R), and High (H).

Percentage (of soil particles) passing designated sieves is the percentage of the soil fraction less than 3 inches in diameter based on an ovendry weight. The sieves, numbers 4, 10, 40, and 200 (USA Standard Series), have openings of 4.76, 2.00, 0.420, and 0.074 millimeters, respectively. Estimates are based on laboratory tests of soils sampled in the survey area and in nearby areas and on estimates made in the field. Three values are provided to identify the expected Low (L), Representative Value (R), and High (H).

Liquid limit and *plasticity index* (Atterberg limits) indicate the plasticity characteristics of a soil. The estimates are based on test data from the survey area or from nearby areas and on field examination. Three values are provided to identify the expected Low (L), Representative Value (R), and High (H).

References:

American Association of State Highway and Transportation Officials (AASHTO). 2004. Standard specifications for transportation materials and methods of sampling and testing. 24th edition.

American Society for Testing and Materials (ASTM). 2005. Standard classification of soils for engineering purposes. ASTM Standard D2487-00.

Report—Engineering Properties

Absence of an entry indicates that the data were not estimated. The asterisk '*' denotes the representative texture; other possible textures follow the dash. The criteria for determining the hydrologic soil group for individual soil components is found in the National Engineering Handbook, Chapter 7 issued May 2007(http://directives.sc.egov.usda.gov/ OpenNonWebContent.aspx?content=17757.wba). Three values are provided to identify the expected Low (L), Representative Value (R), and High (H).

| | Engineering Properties–Lynn County, Texas | | | | | | | | | | | | | |
|--|---|---------|-------|-------------------------------------|---------|--------------------|---------------|----------------|----------------------------------|-----------------|---------------|--------------|--------------|--------------|
| Map unit symbol and | Pct. of | Hydrolo | Depth | Depth USDA texture | Classi | fication | Pct Fragments | | Percentage passing sieve number— | | | | Liquid | Plasticit |
| son name | unit | group | | | Unified | AASHTO | >10 inches | 3-10 inches | 4 | 10 | 40 | 200 | | J maex |
| | | | In | | | | L-R-H | L-R-H | L-R-H | L-R-H | L-R-H | L-R-H | L-R-H | L-R-H |
| AcB—Acuff loam, 1 to 3 percent slopes | | | | | | | | | | | | | | |
| Acuff | 85 | В | 0-12 | Loam | CL | A-4, A-6, A-7-6 | 0- 0- 0 | 0- 0- 0 | 100-100 -100 | 100-100 -100 | 90-98-1 00 | 60-67- 74 | 27-36 -43 | 8-13-19 |
| | | | 12-38 | Clay loam, loam, sandy clay loam | CL | A-6, A-7-6 | 0- 0- 0 | 0- 0- 0 | 100-100 -100 | 100-100 -100 | 91-98-1 00 | 55-63- 67 | 31-40 -45 | 13-19-2 2 |
| | | | 38-58 | Clay loam, sandy clay loam | CL, SM | A-4, A-6, A-7-6 | 0- 0- 0 | 0- 0- 0 | 90-93- 97 | 80-87- 95 | 73-85- 95 | 45-54- 67 | 27-35 -45 | 5-14-24 |
| | | | 58-80 | Clay loam, loam, sandy clay loam | CL, SC | A-4, A-6, A-7-6 | 0- 0- 0 | 0- 0- 0 | 93-96- 99 | 86-91- 98 | 78-89- 98 | 45-55- 69 | 27-37 -48 | 8-17-27 |



| | Engineering Properties–Lynn County, Texas | | | | | | | | | | | | | |
|--|---|---------|-------|-------------------------------|---------------|------------|---------------|----------------|----------------------------------|----------------|---------------|--------------|--------------|--------------|
| Map unit symbol and | Pct. of | Hydrolo | Depth | USDA texture | Classi | fication | Pct Fragments | | Percentage passing sieve number— | | | | Liquid | Plasticit |
| son name | unit | group | | | Unified | AASHTO | >10 inches | 3-10 inches | 4 | 10 | 40 | 200 | | Jindex |
| | | | In | | | | L-R-H | L-R-H | L-R-H | L-R-H | L-R-H | L-R-H | L-R-H | L-R-H |
| EsA—Estacado loam, 0 to 1 percent slopes | | | | | | | | | | | | | | |
| Estacado | 85 | В | 0-6 | Loam | CL | A-6, A-7-6 | 0- 0- 0 | 0- 0- 0 | 99-100- 100 | 98-100- 100 | 90-98-1 00 | 55-63- 70 | 26-35 -45 | 8-13-19 |
| | | | 6-19 | Clay loam, sandy clay loam | CL, CH | A-7-6 | 0- 0- 0 | 0- 0- 0 | 100-100 -100 | 98-100- 100 | 85-99-1 00 | 62-75- 81 | 34-46 -53 | 15-22-2 9 |
| | | | 19-38 | Clay loam, sandy clay loam | CL, CH | A-7-6 | 0- 0- 0 | 0- 0- 0 | 100-100 -100 | 98-100- 100 | 85-99-1 00 | 62-75- 81 | 34-46 -53 | 15-22-2 9 |
| | | | 38-50 | Clay loam, sandy clay loam | CL, CH, SC | A-7-6 | 0- 0- 0 | 0- 0- 0 | 90-92-1 00 | 87-90-1 00 | 72-88-1 00 | 48-64- 73 | 32-45 -51 | 15-23-2 9 |
| | | | 50-80 | Clay loam, sandy clay loam | CL, CH, SC | A-7-6 | 0- 0- 0 | 0- 0- 0 | 88-94- 99 | 84-91- 98 | 67-89- 98 | 41-61- 76 | 32-44 -59 | 15-21-3 6 |



| | | | | Enginee | ering Proper | ties–Lynn C | ounty, Te | xas | | | | | | |
|--|-------------|--------------|-------|--|------------------------|-----------------------------------|---------------|----------------|----------------------------------|----------------|---------------|--------------|--------------|--------------|
| Map unit symbol and | Pct. of | Hydrolo | Depth | USDA texture | Classi | fication | Pct Fra | agments | Percentage passing sieve number— | | | | Liquid | Plasticit |
| soil name | map unit | gic group | | | Unified | AASHTO | >10 inches | 3-10 inches | 4 | 10 | 40 | 200 | - limit | y index |
| | | | In | | | | L-R-H | L-R-H | L-R-H | L-R-H | L-R-H | L-R-H | L-R-H | L-R-H |
| LhA—Lenorah- Hindman complex, 0 to 2 percent slopes, very rarely flooded | | | | | | | | | | | | | | |
| Lenorah | 50 | С | 0-8 | Fine sandy loam | SC-SM, SC | A-2-4, A-4 | 0- 0- 0 | 0- 0- 0 | 98-100- 100 | 98-100- 100 | 87-97-1 00 | 32-39- 47 | 20-26 -33 | 4-7 -12 |
| | | | 8-22 | Loam, fine sandy Ioam, sandy clay Ioam | CL, SC | A-6, A-7-6 | 0- 0- 0 | 0- 0- 0 | 98-100- 100 | 98-100- 100 | 88-97-1 00 | 43-50- 58 | 29-35 -46 | 12-15-2 3 |
| | | | 22-47 | Loam, fine sandy Ioam, sandy clay Ioam | CL, SC | A-2-4, A-2-5, A-6, A-7-6 | 0- 0- 0 | 0- 0- 0 | 82-88- 97 | 78-85- 96 | 70-82- 96 | 32-39- 53 | 28-31 -43 | 10-12-1 9 |
| | | | 47-65 | Fine sandy loam, loamy fine sand | SC-SM, SC, SM | A-2-4 | 0- 0- 0 | 0- 0- 0 | 98-99-1 00 | 96-98-1 00 | 81-91-1 00 | 21-28- 38 | 16-20 -30 | 1-4 -11 |
| | | | 65-80 | Loamy fine sand, sand | SC-SM, SP-SM, SM | A-2-4 | 0- 0- 0 | 0- 0- 0 | 98-99-1 00 | 97-98-1 00 | 68-76- 86 | 11-14- 21 | 0-18 -21 | NP-3 -4 |
| Hindman | 30 | A | 0-23 | Fine sand | SC, SM | A-2-4 | 0- 0- 0 | 0- 0- 0 | 99-100- 100 | 98-100- 100 | 96-98-1 00 | 20-22- 34 | 0-16 -28 | NP-1 -10 |
| | | | 23-38 | Fine sandy loam, loamy fine sand | SC-SM, SC, SM | A-2-4, A-2-5, A-7-6 | 0- 0- 0 | 0- 0- 0 | 99-100- 100 | 98-100- 100 | 92-96-1 00 | 21-24- 47 | 16-20 -41 | 2-4 -21 |
| | | | 38-46 | Fine sandy loam | CL, SC, SM | A-2-4, A-2-5, A-4, A-7-6 | 0- 0- 0 | 0- 0- 0 | 98-100- 100 | 98-100- 100 | 88-97-1 00 | 34-42- 55 | 19-27 -41 | 3-9 -20 |
| | | | 46-60 | Fine sandy loam, loam, sandy clay loam | CL, SM | A-6 | 0- 0- 0 | 0- 0- 0 | 96-98-1 00 | 95-98-1 00 | 84-97-1 00 | 39-51- 61 | 18-30 -40 | 1-11-20 |
| | | | 60-80 | Loamy fine sand, fine sand | SC, SM | A-2-4 | 0- 0- 0 | 0- 0- 0 | 99-100- 100 | 98-100- 100 | 96-98-1 00 | 19-21- 31 | 0-16 -26 | NP-1 -9 |



| | | | | Enginee | ring Proper | ties–Lynn C | ounty, Te | xas | | | | | | |
|--|-------------|--------------|-------|--|------------------------|--------------------|---------------|----------------|----------------------------------|-----------------|---------------|--------------|--------------|-----------|
| Map unit symbol and | Pct. of | Hydrolo | Depth | USDA texture | Classi | fication | Pct Fra | agments | Percentage passing sieve number— | | | | Liquid | Plasticit |
| soli name | map unit | gıc group | | | Unified | AASHTO | >10 inches | 3-10 inches | 4 | 10 | 40 | 200 | | y index |
| | | | In | | | | L-R-H | L-R-H | L-R-H | L-R-H | L-R-H | L-R-H | L-R-H | L-R-H |
| PGE—Potter soils, 3 to 20 percent slopes | | | | | | | | | | | | | | |
| Potter | 85 | С | 0-6 | Gravelly loam | MH, ML, GC | A-4, A-6, A-7-5 | 0- 0- 0 | 0- 0- 0 | 68-81- 88 | 64-78- 87 | 58-75- 87 | 40-53- 70 | 30-39 -54 | 9-13-24 |
| | | | 6-15 | Very gravelly loam, very gravelly sandy loam | GC-GM, GC | A-2-4, A-7-6 | 0- 0- 0 | 0- 0- 0 | 46-61- 63 | 39-47- 58 | 27-35- 53 | 18-23- 39 | 25-27 -45 | 7-8 -25 |
| | | | 15-29 | Very gravelly loam, extremely gravelly sandy loam, extremely gravelly loam, very gravelly sandy loam | GP-GC, GC | A-2-4, A-7-6 | 0- 0- 0 | 0- 0- 0 | 19-41- 64 | 13-32- 60 | 9-23- 54 | 6-15- 39 | 25-27 -44 | 7-9 -25 |
| | | | 29-80 | Extremely gravelly loam, very gravelly fine sandy loam, very gravelly loam, extremely gravelly fine sandy loam | GP-GC, GC | A-2-4, A-7-6 | 0- 0- 0 | 0- 0- 0 | 19-35- 64 | 13-26- 60 | 11-21- 59 | 6-11- 37 | 25-25 -44 | 7-8 -25 |
| PoA—Portales loam, 0 to 1 percent slopes | | | | | | | | | | | | | | |
| Portales | 85 | В | 0-15 | Loam | CL | A-6 | 0- 0- 0 | 0- 0- 0 | 100-100 -100 | 100-100 -100 | 94-99-1 00 | 60-64- 70 | 26-33 -40 | 7-12-17 |
| | | | 15-35 | Sandy clay loam, loam, clay loam | CL | A-6 | 0- 0- 0 | 0- 0- 0 | 100-100 -100 | 100-100 -100 | 91-99-1 00 | 64-73- 84 | 28-39 -52 | 8-16-27 |
| | | | 35-43 | Clay loam, sandy clay loam, loam | CL | A-6 | 0- 0- 0 | 0- 0- 0 | 86-92- 99 | 83-90- 98 | 77-89- 98 | 53-63- 82 | 24-33 -47 | 4-13-26 |
| | | | 43-80 | Loam, sandy clay Ioam, clay loam | SC-SM, CL-ML, CL | A-6 | 0- 0- 0 | 0- 0- 0 | 81-89- 97 | 77-86- 96 | 62-85- 96 | 41-62- 71 | 24-39 -45 | 4-16-23 |



| | Engineering Properties–Lynn County, Texas | | | | | | | | | | | | | |
|--|---|--------------|-------|-------------------------------------|-------------------------|----------|---------------|----------------|----------------------------------|-----------------|---------------|--------------|--------------|-----------|
| Map unit symbol and | Pct. of | Hydrolo | Depth | USDA texture | Classi | fication | Pct Fra | gments | Percentage passing sieve number— | | | | Liquid | Plasticit |
| soil name | map unit | gic group | | | Unified | AASHTO | >10 inches | 3-10 inches | 4 | 10 | 40 | 200 | limit | ymaex |
| | | | In | | | | L-R-H | L-R-H | L-R-H | L-R-H | L-R-H | L-R-H | L-R-H | L-R-H |
| PoB—Portales loam, 1 to 3 percent slopes | | | | | | | | | | | | | | |
| Portales | 85 | В | 0-14 | Loam | CL | A-6 | 0- 0- 0 | 0- 0- 0 | 100-100 -100 | 100-100 -100 | 94-99-1 00 | 60-64- 70 | 26-33 -40 | 7-12-17 |
| | | | 14-35 | Sandy clay loam, loam, clay loam | CL | A-6 | 0- 0- 0 | 0- 0- 0 | 100-100 -100 | 100-100 -100 | 91-99-1 00 | 64-73- 84 | 28-39 -52 | 8-16-27 |
| | | | 35-43 | Clay loam, sandy clay loam, loam | CL | A-6 | 0- 0- 0 | 0- 0- 0 | 86-92- 99 | 83-90- 98 | 77-89- 98 | 53-63- 82 | 24-33 -47 | 4-13-26 |
| | | | 43-80 | Loam, sandy clay loam, clay loam | CL-ML, CL, SC- SM | A-6 | 0- 0- 0 | 0- 0- 0 | 81-89- 97 | 77-86- 96 | 62-85- 96 | 41-62- 71 | 24-39 -45 | 4-16-23 |

Data Source Information

Soil Survey Area: Lynn County, Texas Survey Area Data: Version 20, Sep 5, 2023





USDA Natural Resources Conservation Service Web Soil Survey National Cooperative Soil Survey



| Map unit symbol | Map unit name | Rating (micrometers per second) | Acres in AOI | Percent of AOI |
|--------------------------|--|---------------------------------|--------------|----------------|
| АсВ | Acuff loam, 1 to 3 percent slopes | 9.0000 | 13.9 | 6.2% |
| EsA | Estacado loam, 0 to 1 percent slopes | 6.7761 | 66.3 | 29.6% |
| LhA | Lenorah-Hindman complex, 0 to 2 percent slopes, very rarely flooded | 17.2609 | 11.4 | 5.1% |
| PGE | Potter soils, 3 to 20 percent slopes | 7.5391 | 0.5 | 0.2% |
| РоА | Portales loam, 0 to 1 percent slopes | 9.0000 | 102.9 | 45.9% |
| РоВ | Portales loam, 1 to 3 percent slopes | 9.0000 | 29.2 | 13.0% |
| Totals for Area of Inter | rest | | 224.2 | 100.0% |

Saturated Hydraulic Conductivity (Ksat)

Description

Saturated hydraulic conductivity (Ksat) refers to the ease with which pores in a saturated soil transmit water. The estimates are expressed in terms of micrometers per second. They are based on soil characteristics observed in the field, particularly structure, porosity, and texture. Saturated hydraulic conductivity is considered in the design of soil drainage systems and septic tank absorption fields.

For each soil layer, this attribute is actually recorded as three separate values in the database. A low value and a high value indicate the range of this attribute for the soil component. A "representative" value indicates the expected value of this attribute for the component. For this soil property, only the representative value is used.

The numeric Ksat values have been grouped according to standard Ksat class limits.

Rating Options

Units of Measure: micrometers per second Aggregation Method: Dominant Component Component Percent Cutoff: None Specified Tie-break Rule: Fastest Interpret Nulls as Zero: No Layer Options (Horizon Aggregation Method): Depth Range (Weighted Average) Top Depth: 0 Bottom Depth: 18 Units of Measure: Inches

ATTACHMENT I

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Soil Analysis for Effluent Disposal Site

| 61 | |
|------------|--------------|
| Servi-Tech | Laboratories |
| 1 | |

SOIL SAMPLE INFORMATION SHEET

1602 Park West Drive • P.O. Box 169 • Hastings, NE 68902 1816 East Wyatt Earp Blvd. • P.O. Box 1397 • Dodge City, KS 67801 6921 S. Bell • Amarillo, TX 79109

800-557-7509

Date sampled

PKCC

Address

Name

City/St/Zip

Date sent

Fax/email results

| Lab Use Only | Producer / | Field I.D. | Sample I.D. | Depth | Test | Crop | YG |
|-------------------|-------------------|------------|-------------|----------|--------|------|----|
| 087413 | 1. Tahoka, City 2 | 8" Pivot | | 0 top | PKCC-4 | | |
| 87414 | 2. | | | 6 to 18 | | | |
| 187415 | 3. | | | 18 to 30 | | | |
| 187416 | 4. | 6" Ruot | | O top | | | |
| 087417 | 5. | | | 10 to 18 | | | |
| 87418 | 6. | | | 18:030 | | | |
| and of the second | 7 | | | to | | | - |
| | 8, | | | to | | | |
| | 9. | | | to | | | |
| | 10. | | | to | | | |
| | 11. | | | to | | | |
| | 12. | | | to | | | |
| | 13. | | | to | | | |
| | 14. | | | to | | | - |
| | 15. | | | to | | | |
| | 16. | | | to | | | |
| | 17. | | | to | | - | _ |
| | 18. | | | to | | | |
| | 19. | | | to | | | |
| | 20. | | | to | | | _ |
| | 21. | | | to | | | _ |
| | 22. | | | to | | | |
| | 23. | | | to | | | |
| | 24. | | | to | | _ | _ |
| | 25. | | | to | | | |
| | 26. | | | to | | | |
| | 27. | | | to | | | _ |
| | 28. | | | to | | | |
| | 29. | | | to | | | |
| | 30. | | | to | | | |

Comments

SOIL ANALYSIS REPORT

| CLII 4 | ENT: 1493 | PKCC PAUL REYNOLDS PO BOX 778 CLARENDON, TX 79226 | | | | | | www.servitech.com | | | | | | 1816 E. Wyatt Earp PO Box 1397 Dodge City, KS 67801 800.557.7509 620.227.7123 Fax 620.227.2047 | | | | LAB NO: INVOICE NO: DATE RECEIVED: DATE REPORTED: | | | 87413 - 87415 898654 03/23/2023 04/14/2023 | | |
|---|---|--|------------------------------------|-----------------------|-------------------|---------------------|------------------------|-----------------------------|--------------------------------|-----------------|---------------------|--------------------------------------|-----------------------|---|-------------------|---|------------------|--|----------------|---------------------|---|----------------|--|
| SOIL | ANALYSI | | FIELD IDENTIFICATION: 8 INCH PIVOT | | | | | | | | | | | | | | | | | | | | |
| METH | HOD USEI | D: | 1:2 Soil-Water | | 1:2 Soil-Water | er XSL(i) LOI(r) | |) Cd Reduction | | ı | | | Mehlich 3 ICP | | | | | | | | | | |
| Lab Number | Sample ID | Sample Sample ID Depth | | I Buffer Sol pH mm | | Excess Lime | % Organi Matter | c Ni pp | Nitrate-Nitroger ppm lb. N/ | | Phosphorus ppm P | Potassium ppm K | Sulfur ppm lb. S/A | | Calcium ppm Ca | Magnesium ppm Mg | Sodium ppm Na | Zinc ppm Zn | Iron ppm Fe | Manganese ppm Mn | Copper ppm Cu | Boron ppm B | |
| 87413 | | 0 - 6 | 8.7 | | 0.29 | Hi | 1.0 | 2. | 4 | 4 | 46 | 570 | 23 | 41 | 5500 | 514 | 275 | | | | | | |
| 87414 | | 6 - 18 | 8.6 | | 0.54 | Hi | 0.7 | 1. | 6 | 6 | 9 | 424 | 85 | 306 | 7820 | 524 | 444 | | | | | | |
| 87415 | | 18 - 30 | 8.2 | | 1.15 | Hi | 0.6 | <1 | .0 | <4 | 7 | 306 | 142 | 511 | 14400 | 686 | 645 | | | | | | |
| METHOD USED: KCI Extr. TKN | | | | | Sat. Paste | | | | | | | | | | | | | | | | | | |
| Lab Number | Sample ID | Sample Depth | Ammoniu ppm | m Nitrogen Ib. /A | TKN ppm | Saturation % Sat | Electrica Conductiv | l Calci ity mg/L | um Magi Ca mg | nesium /L Mg | Sodium mg/L Na | Sodium Adsorption | | | | | | | | | | | |
| 87413 | | 0 - 6 | 3 | 5 | 953 | 43 | 1.05 | 36 | 6 1 | 4.4 | 165 | 5.9 | | | | | | | | | | | |
| 87414 | | 6 - 18 | 4 | 14 | 620 | 46 | 1.61 | 63 | 3 2 | 3.3 | 357 | 9.8 | | | | | | | | | | | |
| 87415 | | 18 - 30 | 3 | 11 | 404 | 49 | 2.52 | 10 | 5 3 | 4.4 | 398 | 8.6 | | | | | | | | | | | |
| FERT | FERTILIZER RECOMMENDATIONS: | | | | | | | | | | POUNDS ACTUAL N | | | | | | | UTRIENT PER ACRE | | | | | |
| Lab Number | Sample | Crop To Be Grown | | | ield L | Lime, ECC To | ons/A to rai | /A to raise pH to: | | P2O | 5 K2O | Zn | Zn S | | Cu MaQ | в | Ca Cl | | Capacity | | | | |
| 97/12 | | | | | | | 6.0 | 6.5 | 7.0 | | | | | | | <u> </u> | _ | | | CEC %H | %K %Ca | %Mg %Na | |
| 87414 | | | | | | | | | | | | | | | | | | | | 32 0 | 3 77 | 13 6 | |
| 87415 | | | | | | | | | | | | | | | | | | | | 34 0 | 2 73 | 17 8 | |
| SPE | | | | IGGEST | | | | | | | J | | | | | | | | | | | - | |
| Lab Number(s): 87413 Servi-Tech Laboratory fertilizer recommendations were not requested. Lab Number(s): 87413, 87414 SODIUM - CAUTION (4% to 7% Na): The exchangeable soil sodium (as % Na) is moderately high for <u>fine-textured soils</u> and may indicate a developing problem. If irrigated, an irrigation water analysis can help identify the sodium source. Contact the laboratory for details. | | | | | | | | | | | | | | | | | | | | | | | |
| Lab | Lab Number(s): 87413, 87414, 87415 | | | | | | | | | | | | | | | | | | | | | | |
| Th | The CEC value calculated by cation summation has been adjusted to compensate for the presence of excess lime (reactive carbonates). | | | | | | | | | | | | | | | | | | | | | | |
| Analy | ses are rep | resentative | of the s | amples s | ubmitte | d s | Sample | s are r | etained | 1 30 d | lavs aft | er report | of analy | /sis | Explan | ations of | soil ana | llvsis ter | ms are | available | upon re | quest | |
| Review | | | | | | | /iewed | ved and N ved By: Data F | | | | lichele Lawson Review Coordinator | | | | Page 1 of 2 Michele Lawson 04/14/2023 2:48 pr | | | | | | | |

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SOIL ANALYSIS REPORT

| CLIENT: 41493 | PKCC PAUL REYNOLDS PO BOX 778 | servi | 1816 E. Wyatt Earp PO Box 1397 Dodge City, KS 67801 800 557 7509 | LAB NO: INVOICE NO: | 87413 - 87415 898654 |
|------------------|-------------------------------------|--------------------|---|------------------------|-------------------------|
| | CLARENDON, TX 79226 | tech | 620.227.7123 | DATE RECEIVED: | 03/23/2023 |
| | | www.servilecii.com | FUX 020.227,2047 | DATE REPORTED: | 04/14/2023 |

SOIL ANALYSIS RESULTS FOR: CITY OF TAHOKA

FIELD IDENTIFICATION: 8 INCH PIVOT

Lab Number(s):87415

SODIUM - WARNING (7% to 10% Na): The exchangeable soil sodium (as % Na) is high for <u>fine-textured soils</u>. Typical symptoms of a sodium problem are soil sealing, crusting, and poor water penetration. Applying gypsum may be beneficial, but additional soil analysis may be required to determine the rate. If irrigated, water analysis can help identify the sodium source. Contact the laboratory for more information.

 Analyses are representative of the samples submitted
 Samples are retained 30 days after report of analysis
 Explanations of soil analysis terms are available upon request

 Reviewed and Approved By:
 Michele Lawson Data Review Coordinator
 Michele Jawson 04/14/2023 2:48 pm
 Page 2 of 2 04/14/2023 2:48 pm

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Your opinion is valuable to us. Please let us know what you think about our services! Send an email to feedback@servitech.com.

SOIL ANALYSIS REPORT

| CLII 4 | E NT: 1493 | PKCC PAUL F PO BO CLARE | EYNOL (778 NDON, ⁻ | DS TX 792: | 26 | | | ser | vi ch | w.servite | ch.com | 1810 PO Doc 800. 620. Fax | 6 E. Wy Box 13 dge Cit 557.750 .227.712 620.227 | att Ear 97 9, KS 67 9 3 2047 | р 7801 | LAB N INVOIO DATE DATE | O: CE NO: RECEIN REPOR | VED: RTED: | 8741 8986 03/23 04/14 | 6 - 874 54 3/2023 1/2023 | 18 |
|------------------|---|----------------------------------|--------------------------------------|-----------------------|--------------------|---------------------|---|--------------------|----------------------|---------------------|-------------------------------|--|--|---|---------------------|---------------------------------|---------------------------------|----------------|--------------------------------|-----------------------------------|----------------|
| SOIL | OIL ANALYSIS RESULTS FOR: CITY OF TAHOKA FIELD IDENTIFICATION: 6 INCH PIVOT | | | | | | | | | | | | | | | | | | | | |
| METH | HOD USE | D: | 1:2 Soil-Wate | r | 1:2 Soil-Water | XSL(i) | LOI(r) | Cd Red | duction | | | | Mehlich 3 IC | C | | | | | | | |
| Lab Number | Sample ID | Samp Dept | e Soil n pH | Buffer pH | Sol. Salts mmho/cm | Excess Lime | % Organic Matter | Nitrate- ppm | Nitrogen Ib. N/A | Phosphorus ppm P | Potassium ppm K | Su ppm | ılfur Ib. S/A | Calcium ppm Ca | Magnesium ppm Mg | Sodium ppm Na | Zinc ppm Zn | Iron ppm Fe | Manganese ppm Mn | Copper ppm Cu | Boron ppm B |
| 87416 | | 0 - | 8.6 | | 0.41 | Lo | 2.0 | 1.6 | 3 | 48 | 1040 | 24 | 43 | 5540 | 977 | 435 | | | | | |
| 87417 | | 6 - 1 | 8 8.3 | | 0.73 | Hi | 1.3 | <1.0 | <4 | 11 | 555 | 49 | 176 | 5610 | 862 | 547 | | | | | |
| 87418 | | 18 - | 30 8.1 | | 1.65 | Hi | 1.0 | <1.0 | <4 | 10 | 338 | 152 | 547 | 7590 | 755 | 942 | | | | | |
| METH | | D: | К | CI Extr. | TKN | | | Sat. | Paste | | | | | | | | | | | | |
| Lab Number | Sample ID | Samp Dept | e Ammoni n ppm | um Nitrogen Ib. /A | TKN ppm | Saturation % Sat | Electrical Conductivity mmho/cm | Calcium mg/L Ca | Magnesium mg/L Mg | Sodium mg/L Na | Sodium Adsorption Ratio | | | | | | | | | | |
| 87416 | | 0 - | 6 3 | 5 | 1777 | 54 | 0.91 | 23 | 9.9 | 139 | 6.1 | | | | | | | | | | |
| 87417 | | 6 - 1 | 8 4 | 14 | 720 | 54 | 1.46 | 43 | 18.1 | 207 | 6.7 | | | | | | | | | | |
| 87418 | | 18 - | 30 3 | 11 | 534 | 55 | 5 3.48 155 46.6 470 8.5 | | | | | | | | | | | | | | |
| FERT | | FCOMM | | ONS | | | | | | | | | τι αι Ν | | | ACRE | | | Cation | Excha | ando |

| FERT | FERTILIZER RECOMMENDATIONS: POUNDS ACTUAL NUTRIENT PER ACRE | | | | | | | | | Ca | itio | n Ex | cch a | ango | Э | | | | | | | | |
|--------|---|----------|-------|----------------------------------|-----|-----|------|------|--------|------|------|------|--------------|------|----|----|----|-----|----|------|-------|-----|-----|
| Lab | Sample | Сгор То | Yield | Lime, ECC Tons/A to raise pH to: | | N | D-O- | K-0 | (a) 7a | 7. 0 | | 0 | 14-0 | | Ca | 0- | 0 | | C | Capa | icity | / | |
| Number | IJ | Be Grown | Goal | 6.0 | 6.5 | 7.0 | N | P205 | K2U | Zn | 5 | IVIN | Cu | MgO | в | Ca | CI | CEC | %Н | %K | %Ca | %Mg | %Na |
| 87416 | | | | | | | | | | | | | | | | | | 38 | 0 | 7 | 66 | 22 | 5 |
| 87417 | | | | | | | | | | | | | | | | | | 36 | 0 | 4 | 69 | 20 | 7 |
| 87418 | | | | | | | | | | | | | | | | | | 36 | 0 | 2 | 69 | 17 | 11 |
| SPE | SPECIAL COMMENTS AND SUGGESTIONS: | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |

Lab Number(s):87416

Servi-Tech Laboratory fertilizer recommendations were not requested.

Lab Number(s): 87416, 87417

SODIUM - CAUTION (4% to 7% Na): The exchangeable soil sodium (as % Na) is moderately high for <u>fine-textured soils</u> and may indicate a developing problem. If irrigated, an irrigation water analysis can help identify the sodium source. Contact the laboratory for details.

| Analyses are representative of the samples submitted | Samples are ret | ained 30 days after report of analysis | Explanations of soil analysis | Explanations of soil analysis terms are available upon request | | | | |
|--|------------------------------|---|----------------------------------|--|--|--|--|--|
| | Reviewed and Approved By: | Michele Lawson Data Review Coordinator | Michele Lawson | Page 1 of 2 04/14/2023 2:48 pm | | | | |
| The reported analytical results apply only to the | ne sample as it was | s supplied. The report may not be r | reproduced, except in full, with | out permission of ServiTech. | | | | |
| Your opinion is valuable to us. Please let us know what you think about our services! Send an email to feedback@servitech.com. | | | | | | | | |

SOIL ANALYSIS REPORT

| CLIENT: 41493 | PKCC PAUL REYNOLDS PO BOX 778 | servi | 1816 E. Wyatt Earp PO Box 1397 Dodge City, KS 67801 800 557 7509 | LAB NO: INVOICE NO: | 87416 - 87418 898654 |
|----------------------|-------------------------------------|-------------------|---|------------------------|-------------------------|
| | CLARENDON, TX 79226 | tech | 620.227.7123 | DATE RECEIVED: | 03/23/2023 |
| | | www.servirech.com | Fax 620.227.2047 | DATE REPORTED: | 04/14/2023 |

SOIL ANALYSIS RESULTS FOR: CITY OF TAHOKA

FIELD IDENTIFICATION: 6 INCH PIVOT

Lab Number(s):87417

SODIUM - WARNING (7% to 10% Na): The exchangeable soil sodium (as % Na) is high for <u>fine-textured soils</u>. Typical symptoms of a sodium problem are soil sealing, crusting, and poor water penetration. Applying gypsum may be beneficial, but additional soil analysis may be required to determine the rate. If irrigated, water analysis can help identify the sodium source. Contact the laboratory for more information.

Lab Number(s): 87417, 87418

The CEC value calculated by cation summation has been adjusted to compensate for the presence of excess lime (reactive carbonates).

Lab Number(s):87418

SODIUM - VERY HIGH (over 10% Na): The exchangeable soil sodium (as % Na) is very high for <u>fine-textured soils</u>. Typical symptoms of a sodic soil are surface crusting, soil sealing, and poor water penetration. Additional soil analysis can determine the proper rate of gypsum or other soil amendment. If irrigated, water analysis can help identify the sodium source. Contact the laboratory for more information.

 Analyses are representative of the samples submitted
 Samples are retained 30 days after report of analysis
 Explanations of soil analysis terms are available upon request

 Reviewed and Approved By:
 Michele Lawson Data Review Coordinator
 Michele Jawson 04/14/2023 2:48 pm

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ATTACHMENT J

2022 - 2023 Monthly Flow Record Data

| Date | Meter Reading | Daily Usage | Exception | | Reason for Exception |
|---------|-----------------|-------------|-----------|--------|--|
| | (gallons) | (gallons) | | | |
| July | | | | _ | |
| 7/1/22 | 507,106.3 | 122,700 | | | |
| 7/2/22 | 507,229.0 | 95,200 | | | |
| 7/3/22 | 507,324.2 | 127,200 | | | |
| 7/4/22 | 507,451.4 | 120,400 | | | |
| 7/5/22 | 507,571.8 | 133,300 | | | |
| 7/6/22 | 507,705.1 | 138,800 | | | |
| 7/7/22 | 507,843.9 | 122,000 | | | |
| 7/8/22 | 507,965.9 | 132,400 | | | |
| 7/9/22 | 508,098.3 | 131,300 | | | |
| 7/10/22 | 508,229.6 | 110,900 | | | |
| 7/11/22 | 508,340.5 | 110,700 | | | |
| 7/12/22 | 508,451.2 | 127,300 | | | |
| 7/13/22 | 508,578.5 | 127,300 | | | |
| 7/14/22 | 508,705.8 | 113,200 | | | |
| 7/15/22 | 508,819.0 | 113,100 | | | |
| 7/16/22 | 508,932.1 | 120,400 | | | |
| 7/17/22 | 509,052.5 | 131,100 | | | |
| 7/18/22 | 509,183.6 | 122,500 | | | |
| 7/19/22 | 509,306.1 | 141,500 | | | |
| 7/20/22 | 509,447.6 | 141,600 | | | |
| 7/21/22 | 509,589.2 | 126,600 | | | |
| 7/22/22 | 509,715.8 | 112,800 | | | |
| 7/23/22 | 509,828.6 | 112,700 | | | |
| 7/24/22 | 509,941.3 | 130,900 | | | |
| 7/25/22 | 510,072.2 | 128,100 | | | |
| 7/26/22 | 510,200.3 | 130,100 | | | |
| 7/27/22 | 510,330.4 | 124,400 | | | |
| 7/28/22 | 510,454.8 | 124,400 | | | |
| 7/29/22 | 510,579.2 | 123,500 | | | |
| 7/30/22 | 510,702.7 | 133,000 | | | |
| 7/31/22 | 510,835.7 | 128,900 | | | |
| 8/1/22 | 510,964.6 | | | | |
| | | | | | |
| | Monthly Total: | 3,858,300 | gallons | | If Exception is noted, the 'Daily Average', MAX and MIN Day |
| | Daily Average: | 124,461 | gpd | | totals <u>do not</u> include the daily usage in these calculations. 'Monthly Total', however, is unaffected by the Exceptions. |
| | Maximum Day: | 141,600 | gallons | on | 7/20/22 |
| | Minimum Day: | 95,200 | gallons | on | 7/2/22 |
| | Permitted Flow: | 360.000 | gpd | | |
| | | 35% | Averag | e Flov | w as a Percent of Permitted Flow |
| | | (TCEQ s | tipulate | s plai | nning/design for 3 consecutive months of >75% of permit) |

| Date | Meter Reading | Daily Usage | Exception | Reason for Exception |
|---------|-----------------|----------------|---------------|--|
| | (gallons) | (gallons) | | |
| August | | | | |
| 8/1/22 | 510,964.6 | 142,000 | | |
| 8/2/22 | 511,106.6 | 120,700 | | |
| 8/3/22 | 511,227.3 | 158,500 | | |
| 8/4/22 | 511,385.8 | 491,500 | Ш | |
| 8/5/22 | 511,877.3 | 402,900 | Ш | |
| 8/6/22 | 512,280.2 | 199,600 | Ш | |
| 8/7/22 | 512,479.8 | 952,500 | | |
| 8/8/22 | 513,432.3 | 382,200 | | |
| 8/9/22 | 513,814.5 | 356,800 | | |
| 8/10/22 | 514,171.3 | 361,100 | | |
| 8/11/22 | 514,532.4 | 158,300 | | |
| 8/12/22 | 514,690.7 | 121,600 | | |
| 8/13/22 | 514,812.3 | 133,300 | | |
| 8/14/22 | 514,945.6 | 117,600 | | |
| 8/15/22 | 515,063.2 | 130,800 | | |
| 8/16/22 | 515,194.0 | 137,600 | | |
| 8/17/22 | 515,331.6 | 238,800 | | |
| 8/18/22 | 515,570.4 | 106,400 | | |
| 8/19/22 | 515,676.8 | 84,200 | | |
| 8/20/22 | 515,761.0 | -213,900 | X | Erroneous reading documented |
| 8/21/22 | 515,547.1 | 389,000 | X | Erroneous reading documented |
| 8/22/22 | 515,936.1 | 114,200 | | |
| 8/23/22 | 516,050.3 | 338,800 | | |
| 8/24/22 | 516,389.1 | 117,400 | | |
| 8/25/22 | 516,506.5 | 120,300 | | |
| 8/26/22 | 516,626.8 | 100,000 | | |
| 8/27/22 | 516,726.8 | 118,100 | | |
| 8/28/22 | 516,844.9 | 124,500 | | |
| 8/29/22 | 516,969.4 | 131,600 | | |
| 8/30/22 | 517,101.0 | 95,000 | | |
| 8/31/22 | 517,196.0 | 144,600 | | |
| 9/1/22 | 517,340.6 | | | |
| | Monthly Total: | 6 376 000 | gallons | |
| | Daily Average: | 213,824 | gpd | totals <u>do not</u> include the daily usage in these calculations. 'Monthly |
| | | | | I otal', however, is unaffected by the Exceptions. |
| | Maximum Day: | 952,500 | gallons on | 8///22 |
| | Minimum Day: | 84,200 | galions on | 8/19/22 |
| | Permitted Flow: | 360,000 | gpd | |
| | | 59% | Average Flo | w as a Percent of Permitted Flow |
| | | (TCEQ s | tipulates pla | inning/design for 3 consecutive months of >75% of permit) |

| Date | Meter Reading | Daily Usage | Exception | Reason for Exception |
|-----------|-----------------|-------------|---------------|---|
| | (gallons) | (gallons) | | |
| September | | | | |
| 9/1/22 | 517,340.6 | 106,600 | | |
| 9/2/22 | 517,447.2 | 114,900 | | |
| 9/3/22 | 517,562.1 | 118,200 | | |
| 9/4/22 | 517,680.3 | 98,500 | | |
| 9/5/22 | 517,778.8 | 98,400 | | |
| 9/6/22 | 517,877.2 | 92,500 | | |
| 9/7/22 | 517,969.7 | 110,800 | | |
| 9/8/22 | 518,080.5 | 102,200 | | |
| 9/9/22 | 518,182.7 | 95,100 | | |
| 9/10/22 | 518,277.8 | 110,300 | | |
| 9/11/22 | 518,388.1 | 117,100 | | |
| 9/12/22 | 518,505.2 | 108,500 | | |
| 9/13/22 | 518,613.7 | 118,000 | | |
| 9/14/22 | 518,731.7 | 117,900 | | |
| 9/15/22 | 518,849.6 | 113,500 | | |
| 9/16/22 | 518,963.1 | 115,600 | | |
| 9/17/22 | 519,078.7 | 129,500 | | |
| 9/18/22 | 519,208.2 | 129,500 | | |
| 9/19/22 | 519,337.7 | 131,600 | | |
| 9/20/22 | 519,469.3 | 126,200 | | |
| 9/21/22 | 519,595.5 | 126,100 | | |
| 9/22/22 | 519,721.6 | 130,100 | | |
| 9/23/22 | 519,851.7 | 114,800 | | |
| 9/24/22 | 519,966.5 | 125,000 | | |
| 9/25/22 | 520,091.5 | 139,800 | | |
| 9/26/22 | 520,231.3 | 128,800 | | |
| 9/27/22 | 520,360.1 | 122,500 | | |
| 9/28/22 | 520,482.6 | 122,500 | | |
| 9/29/22 | 520,605.1 | 117,900 | | |
| 9/30/22 | 520,723.0 | 123,000 | | |
| 10/1/22 | 520,846.0 | | | |
| | | | | |
| | | | | |
| | Monthly Total: | 3,505,400 | gallons | If Exception is noted, the 'Daily Average', MAX and MIN Day |
| | Daily Average: | 116,847 | gpd | totals <u>do not</u> include the daily usage in these calculations. 'Monthly Total', however, is unaffected by the Exceptions. |
| | Maximum Day: | 139,800 | gallons on | 9/25/22 |
| | Minimum Day: | 92,500 | gallons on | 9/6/22 |
| | Permitted Flow: | 360,000 | gpd | |
| | | 32% | Average Flo | w as a Percent of Permitted Flow |
| | | (TCEQ s | tipulates pla | nning/design for 3 consecutive months of >75% of permit) |

| Date | Meter Reading | Daily Usage | Exception | Reason for Exception |
|----------|----------------------|---------------------------------------|---------------|---|
| | (gallons) | (gallons) | | |
| October | | | | |
| 10/1/22 | 520,846.0 | 119,600 | | |
| 10/2/22 | 520,965.6 | 127,500 | | |
| 10/3/22 | 521,093.1 | 127,600 | | |
| 10/4/22 | 521,220.7 | 123,200 | | |
| 10/5/22 | 521,343.9 | 127,500 | | |
| 10/6/22 | 521,471.4 | 120,000 | | |
| 10/7/22 | 521,591.4 | 120,000 | Ш | |
| 10/8/22 | 521,711.4 | 133,700 | | |
| 10/9/22 | 521,845.1 | 141,900 | | |
| 10/10/22 | 521,987.0 | 135,100 | | |
| 10/11/22 | 522,122.1 | 118,700 | | |
| 10/12/22 | 522,240.8 | 124,700 | | |
| 10/13/22 | 522,365.5 | 123,300 | | |
| 10/14/22 | 522,488.8 | 131,400 | | |
| 10/15/22 | 522,620.2 | 132,100 | | |
| 10/16/22 | 522,752.3 | 132,100 | | |
| 10/17/22 | 522,884.4 | 133,800 | | |
| 10/18/22 | 523,018.2 | 124,300 | | |
| 10/19/22 | 523,142.5 | 124,200 | | |
| 10/20/22 | 523,266.7 | 119,900 | | |
| 10/21/22 | 523,386.6 | 119,900 | | |
| 10/22/22 | 523,506.5 | 127,200 | | |
| 10/23/22 | 523,633.7 | 127,100 | | |
| 10/24/22 | 523,760.8 | 133,000 | | |
| 10/25/22 | 523,893.8 | 117,800 | | |
| 10/26/22 | 524,011.6 | 116,800 | | |
| 10/27/22 | 524,128.4 | 115,300 | | |
| 10/28/22 | 524,243.7 | 388,400 | X | Erroneous reading documented |
| 10/29/22 | 524,632.1 | -141,700 | X | Erroneous reading documented |
| 10/30/22 | 524,490.4 | 128,200 | | - |
| 10/31/22 | 524,618.6 | 113,400 | | |
| 11/1/22 | 524,732.0 | , , , , , , , , , , , , , , , , , , , | | |
| | Nd a webble . Takalı | 2 886 999 | | |
| | | 3,880,000 | galions | If Exception is noted, the 'Daily Average', MAX and MIN Day |
| | Dally Average. | 125,495 | gha | Total', however, is unaffected by the Exceptions. |
| | Maximum Day: | 141,900 | gallons on | 10/9/22 |
| | Minimum Day: | 113,400 | gallons on | 10/31/22 |
| | Permitted Flow: | 360,000 | gpd | |
| | | 35% | Average Flo | ow as a Percent of Permitted Flow |
| | | (TCEQ s | tipulates pla | anning/design for 3 consecutive months of >75% of permit) |

| Date | Meter Reading | Daily Usage | Excep | tion | Reason for Exception |
|----------|-----------------|-------------|----------|--------|---|
| | (gallons) | (gallons) | | | |
| November | | | | - | |
| 11/1/22 | 524,732.0 | 118,100 | | 4 | |
| 11/2/22 | 524,850.1 | 128,400 | | 4 | |
| 11/3/22 | 524,978.5 | 113,300 | | 1 | |
| 11/4/22 | 525,091.8 | 115,500 | | 1 | |
| 11/5/22 | 525,207.3 | 113,900 | | | |
| 11/6/22 | 525,321.2 | 113,200 | | | |
| 11/7/22 | 525,434.4 | 115,300 | | | |
| 11/8/22 | 525,549.7 | 118,200 | | | |
| 11/9/22 | 525,667.9 | 111,100 | | | |
| 11/10/22 | 525,779.0 | 113,200 | | | |
| 11/11/22 | 525,892.2 | 110,300 | | | |
| 11/12/22 | 526,002.5 | 113,000 | | | |
| 11/13/22 | 526,115.5 | 113,600 | | 1 | |
| 11/14/22 | 526,229.1 | 118,200 | | 1 | |
| 11/15/22 | 526,347.3 | 104,100 | | 1 | |
| 11/16/22 | 526,451.4 | 114,800 | | 1 | |
| 11/17/22 | 526,566.2 | 114,800 | | 1 | |
| 11/18/22 | 526,681.0 | 113,200 | | 1 | |
| 11/19/22 | 526,794.2 | 115,400 | | 1 | |
| 11/20/22 | 526,909.6 | 118,000 | | 1 | |
| 11/21/22 | 527,027.6 | 114,500 | | 1 | |
| 11/22/22 | 527,142.1 | 111,400 | | 1 | |
| 11/23/22 | 527,253.5 | 131,300 | | 1 | |
| 11/24/22 | 527,384.8 | 135,600 | | 1 | |
| 11/25/22 | 527,520.4 | 132,200 | | 1 | |
| 11/26/22 | 527,652.6 | 134,300 | | 1 | |
| 11/27/22 | 527,786.9 | 135,400 | | 1 | |
| 11/28/22 | 527,922.3 | 131,400 | | 1 | |
| 11/29/22 | 528,053.7 | 118,500 | | 1 | |
| 11/30/22 | 528,172.2 | 0 | X | 1 | Duplicate readings |
| 12/1/22 | 528,172.2 | | | 1 | |
| | | | | | |
| | Monthly Total: | 3.440.200 | gallons | | If Exception is noted the 'Daily Average' MAX and MIN Day |
| | Daily Average: | 118,628 | gpd | | totals <u>do not</u> include the daily usage in these calculations. 'Monthly Total', however, is unaffected by the Exceptions. |
| | Maximum Day: | 135,600 | gallons | on | 11/24/22 |
| | Minimum Day: | 104,100 | gallons | on | 11/15/22 |
| | Permitted Flow: | 360,000 | gpd | | |
| | | 33% | Average | e Flov | w as a Percent of Permitted Flow |
| | | (TCEQ s | tipulate | s plar | nning/design for 3 consecutive months of >75% of permit) |

| Date | Meter Reading | Daily Usage | Exce | eption | Reason for Exception |
|----------|-----------------|-------------|--------|---------|--|
| | (gallons) | (gallons) | | | |
| December | | | _ | | |
| 12/1/22 | 528,172.2 | 107,100 | | | |
| 12/2/22 | 528,279.3 | 100,600 | | | |
| 12/3/22 | 528,379.9 | 96,800 | | | |
| 12/4/22 | 528,476.7 | 101,500 | | | |
| 12/5/22 | 528,578.2 | 94,300 | | | |
| 12/6/22 | 528,672.5 | 95,800 | | | |
| 12/7/22 | 528,768.3 | 122,500 | | | |
| 12/8/22 | 528,890.8 | 70,600 | | | |
| 12/9/22 | 528,961.4 | 93,200 | Γ | | |
| 12/10/22 | 529,054.6 | 105,600 | | | |
| 12/11/22 | 529,160.2 | 105,700 | Γ | | |
| 12/12/22 | 529,265.9 | 73,700 | Γ | | |
| 12/13/22 | 529,339.6 | 73,700 | Γ | | |
| 12/14/22 | 529,413.3 | 113,400 | Γ | | |
| 12/15/22 | 529,526.7 | 110,300 | | | |
| 12/16/22 | 529,637.0 | 110,900 | | | |
| 12/17/22 | 529,747.9 | 110,900 | F | | |
| 12/18/22 | 529,858.8 | 129,100 | F | | |
| 12/19/22 | 529,987.9 | 97,000 | F | | |
| 12/20/22 | 530,084.9 | 102,400 | F | | |
| 12/21/22 | 530,187.3 | 109,700 | F | | |
| 12/22/22 | 530,297.0 | 131,400 | F | | |
| 12/23/22 | 530,428.4 | 106,400 | F | | |
| 12/24/22 | 530,534.8 | 125,500 | F | | |
| 12/25/22 | 530,660.3 | 114,900 | F | | |
| 12/26/22 | 530,775.2 | 94,100 | F | | |
| 12/27/22 | 530,869.3 | 99,800 | F | | |
| 12/28/22 | 530,969.1 | 98,500 | | | |
| 12/29/22 | 531,067.6 | 532,400 | | X | Erroneous reading documented |
| 12/30/22 | 531,600.0 | -347,600 | F | X | Erroneous reading documented |
| 12/31/22 | 531,252.4 | 112,800 | F | | |
| 1/1/23 | 531,365.2 | | | | |
| | | | | | |
| | Monthly Total: | 3,427,800 | gallo | ns | If Exception is noted, the 'Daily Average', MAX and MIN Day |
| | Daily Average: | 103,731 | gpd | | Total's do not include the daily usage in these calculations. 'Monthly Total', however, is unaffected by the Exceptions. |
| | Maximum Day: | 131,400 | gallo | ns on | 12/22/22 |
| | Minimum Day: | 70,600 | gallo | ns on | 12/8/22 |
| | Permitted Flow: | 360,000 | gpd | | |
| | | 29% | Avera | age Flo | w as a Percent of Permitted Flow |
| | | (TCEQ s | tipula | tes pla | nning/design for 3 consecutive months of >75% of permit) |

| Date | Meter Reading | Daily Usage | Exception | | Reason for Exception |
|---------|-----------------|-------------|-----------|----------|---|
| | (gallons) | (gallons) | | | |
| January | | | _ | | |
| 1/1/23 | 531,365.2 | 83,000 | | | |
| 1/2/23 | 531,448.2 | 104,800 | | | |
| 1/3/23 | 531,553.0 | 116,000 | | | |
| 1/4/23 | 531,669.0 | 124,700 | | | |
| 1/5/23 | 531,793.7 | 122,700 | | | |
| 1/6/23 | 531,916.4 | 113,000 | | | |
| 1/7/23 | 532,029.4 | 101,200 | | | |
| 1/8/23 | 532,130.6 | 106,500 | | | |
| 1/9/23 | 532,237.1 | 95,800 | | | |
| 1/10/23 | 532,332.9 | 103,200 | | | |
| 1/11/23 | 532,436.1 | 97,600 | | | |
| 1/12/23 | 532,533.7 | 72,700 | | | |
| 1/13/23 | 532,606.4 | 90,000 | | | |
| 1/14/23 | 532,696.4 | 101,500 | | | |
| 1/15/23 | 532,797.9 | 86,800 | | | |
| 1/16/23 | 532,884.7 | 105,400 | | | |
| 1/17/23 | 532,990.1 | 104,800 | | | |
| 1/18/23 | 533,094.9 | 100,400 | | | |
| 1/19/23 | 533,195.3 | 97,400 | | | |
| 1/20/23 | 533,292.7 | 98,000 | | | |
| 1/21/23 | 533,390.7 | 204,200 | | | |
| 1/22/23 | 533,594.9 | 104,000 | | | |
| 1/23/23 | 533,698.9 | 100,200 | | | |
| 1/24/23 | 533,799.1 | 108,800 | | | |
| 1/25/23 | 533,907.9 | 110,300 | | | |
| 1/26/23 | 534,018.2 | 97,100 | | | |
| 1/27/23 | 534,115.3 | 94,500 | | | |
| 1/28/23 | 534,209.8 | 109,300 | | | |
| 1/29/23 | 534,319.1 | 105,300 | | | |
| 1/30/23 | 534,424.4 | 119,600 | | | |
| 1/31/23 | 534,544.0 | 114,400 | | | |
| 2/1/23 | 534,658.4 | | | | |
| | | | | | |
| | Monthly Total: | 3,293,200 | gallo | ns | If Exception is noted, the 'Daily Average', MAX and MIN Day |
| | Daily Average: | 106,232 | gpd | | totals <u>do not</u> include the daily usage in these calculations. 'Monthly Total', however, is unaffected by the Exceptions. |
| | Maximum Day: | 204,200 | gallo | ns on | 1/21/23 |
| | Minimum Day: | 72,700 | gallo | ns on | 1/12/23 |
| | Permitted Flow: | 360,000 | gpd | | |
| | | 30% | Aver | age Flo | ow as a Percent of Permitted Flow |
| | | (TCEQ s | tipula | ates pla | anning/design for 3 consecutive months of >75% of permit) |

| Date | Meter Reading | Daily Usage | Exception | Reason for Exception |
|----------|-----------------|-------------|---------------|---|
| | (gallons) | (gallons) | | |
| February | | | | |
| 2/1/23 | 534,658.4 | 123,500 | | |
| 2/2/23 | 534,781.9 | 106,100 | | |
| 2/3/23 | 534,888.0 | 95,900 | | |
| 2/4/23 | 534,983.9 | 112,300 | | |
| 2/5/23 | 535,096.2 | 79,100 | | |
| 2/6/23 | 535,175.3 | 95,500 | | |
| 2/7/23 | 535,270.8 | 100,500 | | |
| 2/8/23 | 535,371.3 | 100,400 | | |
| 2/9/23 | 535,471.7 | 96,200 | | |
| 2/10/23 | 535,567.9 | 83,100 | | |
| 2/11/23 | 535,651.0 | 87,600 | | |
| 2/12/23 | 535,738.6 | 93,000 | | |
| 2/13/23 | 535,831.6 | 93,300 | | |
| 2/14/23 | 535,924.9 | 124,800 | | |
| 2/15/23 | 536,049.7 | 98,000 | | |
| 2/16/23 | 536,147.7 | 99,400 | | |
| 2/17/23 | 536,247.1 | 101,200 | | |
| 2/18/23 | 536,348.3 | 94,100 | | |
| 2/19/23 | 536,442.4 | 94,200 | | |
| 2/20/23 | 536,536.6 | 102,500 | | |
| 2/21/23 | 536,639.1 | 97,700 | | |
| 2/22/23 | 536,736.8 | 80,400 | | |
| 2/23/23 | 536,817.2 | 80,300 | | |
| 2/24/23 | 536,897.5 | 81,000 | | |
| 2/25/23 | 536,978.5 | 70,300 | | |
| 2/26/23 | 537,048.8 | 103,100 | | |
| 2/27/23 | 537,151.9 | 69,600 | | |
| 2/28/23 | 537,221.5 | 58,400 | | |
| 3/1/23 | 537,279.9 | | | |
| | | | | |
| | | | | |
| | Monthly Total: | 2,621,500 | gallons | If Exception is noted, the 'Daily Average', MAX and MIN Day |
| | Daily Average: | 93,625 | gpd | totals <u>do not</u> include the daily usage in these calculations. 'Monthly Total', however, is unaffected by the Exceptions. |
| | Maximum Day: | 124,800 | gallons on | 2/14/23 |
| | Minimum Day: | 58,400 | gallons on | 2/28/23 |
| | Permitted Flow: | 360,000 | gpd | |
| | | 26 <u>%</u> | Average Flo | w as a Percent of Permitted Flow |
| | | (TCEQ s | tipulates pla | nning/design for 3 consecutive months of >75% of permit) |

| Date | Meter Reading | Daily Usage | Exc | ception | Reason for Exception |
|---------|-----------------|-------------|-------|----------|--|
| | (gallons) | (gallons) | | | |
| March | | | | | |
| 3/1/23 | 537,279.9 | 73,100 | | | |
| 3/2/23 | 537,353.0 | 70,500 | | | |
| 3/3/23 | 537,423.5 | 70,500 | | | |
| 3/4/23 | 537,494.0 | 98,600 | | | |
| 3/5/23 | 537,592.6 | 81,400 | | | |
| 3/6/23 | 537,674.0 | 90,500 | | | |
| 3/7/23 | 537,764.5 | 90,400 | | | |
| 3/8/23 | 537,854.9 | 91,400 | | | |
| 3/9/23 | 537,946.3 | 90,000 | | | |
| 3/10/23 | 538,036.3 | 90,000 | | | |
| 3/11/23 | 538,126.3 | 88,500 | | | |
| 3/12/23 | 538,214.8 | 86,400 | | | |
| 3/13/23 | 538,301.2 | 89,900 | | | |
| 3/14/23 | 538,391.1 | 87,600 | | | |
| 3/15/23 | 538,478.7 | 88,300 | | | |
| 3/16/23 | 538,567.0 | 90,200 | | | |
| 3/17/23 | 538,657.2 | 87,800 | | | |
| 3/18/23 | 538,745.0 | 83,700 | | | |
| 3/19/23 | 538,828.7 | 83,600 | | | |
| 3/20/23 | 538,912.3 | 96,700 | | | |
| 3/21/23 | 539,009.0 | 92,200 | | | |
| 3/22/23 | 539,101.2 | 92,200 | | | |
| 3/23/23 | 539,193.4 | 89,200 | | | |
| 3/24/23 | 539,282.6 | 89,200 | | | |
| 3/25/23 | 539,371.8 | 86,500 | | | |
| 3/26/23 | 539,458.3 | 95,400 | | | |
| 3/27/23 | 539,553.7 | 79,600 | | | |
| 3/28/23 | 539,633.3 | 79,600 | | | |
| 3/29/23 | 539,712.9 | 112,900 | | | |
| 3/30/23 | 539,825.8 | 119,200 | | | |
| 3/31/23 | 539,945.0 | 106,700 | | | |
| 4/1/23 | 540,051.7 | | | | |
| | | | | | |
| | Monthly Total: | 2,771,800 | gallo | ons | If Exception is noted, the 'Daily Average', MAX and MIN Day |
| | Daily Average: | 89,413 | gpd | | totals <u>do not</u> include the daily usage in these calculations. 'Monthly Total', however, is unaffected by the Exceptions. |
| | Maximum Day: | 119,200 | gallo | ons on | 3/30/23 |
| | Minimum Day: | 70,500 | gallo | ons on | 3/2/23 |
| | Permitted Flow: | 360,000 | gpd | | |
| | | 25% | Avei | rage Flo | ow as a Percent of Permitted Flow |
| | | (TCEQ s | tipul | ates pla | anning/design for 3 consecutive months of >75% of permit) |

| Date | Meter Reading | Daily Usage | Exc | eption | Reason for Exception |
|---------|-----------------|-------------|--------------------|----------|---|
| | (gallons) | (gallons) | | | |
| April | | | | | |
| 4/1/23 | 540,051.7 | 106,300 | ŀ | | |
| 4/2/23 | 540,158.0 | 91,800 | ŀ | | |
| 4/3/23 | 540,249.8 | 91,700 | | | |
| 4/4/23 | 540,341.5 | 96,200 | | | |
| 4/5/23 | 540,437.7 | 81,900 | | | |
| 4/6/23 | 540,519.6 | 98,900 | | | |
| 4/7/23 | 540,618.5 | 89,900 | | | |
| 4/8/23 | 540,708.4 | 95,000 | | | |
| 4/9/23 | 540,803.4 | 102,400 | | | |
| 4/10/23 | 540,905.8 | 102,300 | | | |
| 4/11/23 | 541,008.1 | 97,600 | | | |
| 4/12/23 | 541,105.7 | 97,500 | | | |
| 4/13/23 | 541,203.2 | 97,600 | | | |
| 4/14/23 | 541,300.8 | 105,800 | | | |
| 4/15/23 | 541,406.6 | 98,400 | | | |
| 4/16/23 | 541,505.0 | 92,800 | | | |
| 4/17/23 | 541,597.8 | 92,800 | | | |
| 4/18/23 | 541,690.6 | 105,400 | | | |
| 4/19/23 | 541,796.0 | 86,300 | Γ | | |
| 4/20/23 | 541,882.3 | 107,300 | Ī | | |
| 4/21/23 | 541,989.6 | 100,800 | Γ | | |
| 4/22/23 | 542,090.4 | 125,000 | ľ | | |
| 4/23/23 | 542,215.4 | 116,500 | ľ | | |
| 4/24/23 | 542,331.9 | 113,200 | ľ | | |
| 4/25/23 | 542,445.1 | 102,900 | Ī | | |
| 4/26/23 | 542,548.0 | 116,600 | ľ | | |
| 4/27/23 | 542,664.6 | 105,200 | Ī | | |
| 4/28/23 | 542,769.8 | 107,200 | Ī | | |
| 4/29/23 | 542,877.0 | 106,300 | ľ | | |
| 4/30/23 | 542,983.3 | 106,800 | Ī | | |
| 5/1/23 | 543,090.1 | | Ē | | |
| | | | | | |
| | Monthly Total: | 3,038,400 | gallo | ns | If Exception is noted, the 'Daily Average', MAX and MIN Day |
| | Daily Average: | 101,280 | 101,280 gpd | | totals <u>do not</u> include the daily usage in these calculations. 'Monthly Total', however, is unaffected by the Exceptions. |
| | Maximum Day: | 125,000 | gallo | ns on | 4/22/23 |
| | Minimum Day: | 81,900 | gallo | ns on | 4/5/23 |
| | Permitted Flow: | 360,000 | gpd | | |
| | | 28% | Avera | age Flo | w as a Percent of Permitted Flow |
| | | TUEUS | upuid | ires hig | ming/design for 5 consecutive months of 275% of permit |

| Date | Meter Reading | Daily Usage | Exce | otion | Reason for Exception |
|---------|-----------------|-------------|---------|--------|---|
| | (gallons) | (gallons) | | | |
| May | | | | _ | |
| 5/1/23 | 543,090.1 | 102,500 | | | |
| 5/2/23 | 543,192.6 | 108,600 | | | |
| 5/3/23 | 543,301.2 | 88,300 | | | |
| 5/4/23 | 543,389.5 | 78,700 | | | |
| 5/5/23 | 543,468.2 | 78,700 | | | |
| 5/6/23 | 543,546.9 | 104,500 | | | |
| 5/7/23 | 543,651.4 | 116,800 | | | |
| 5/8/23 | 543,768.2 | 115,200 | | | |
| 5/9/23 | 543,883.4 | 105,500 | | | |
| 5/10/23 | 543,988.9 | 118,500 | | | |
| 5/11/23 | 544,107.4 | 81,000 | | | |
| 5/12/23 | 544,188.4 | 111,900 | | | |
| 5/13/23 | 544,300.3 | 106,200 | | | |
| 5/14/23 | 544,406.5 | 109,700 | | | |
| 5/15/23 | 544,516.2 | 109,700 | | | |
| 5/16/23 | 544,625.9 | 106,100 | | | |
| 5/17/23 | 544,732.0 | 103,200 | | | |
| 5/18/23 | 544,835.2 | 103,200 | | | |
| 5/19/23 | 544,938.4 | 103,200 | | | |
| 5/20/23 | 545,041.6 | 124,300 | | | |
| 5/21/23 | 545,165.9 | 124,200 | | | |
| 5/22/23 | 545,290.1 | 118,700 | | | |
| 5/23/23 | 545,408.8 | 118,600 | | | |
| 5/24/23 | 545,527.4 | 123,800 | | | |
| 5/25/23 | 545,651.2 | 123,800 | | | |
| 5/26/23 | 545,775.0 | 118,700 | | | |
| 5/27/23 | 545,893.7 | 118,700 | | | |
| 5/28/23 | 546,012.4 | 118,600 | | | |
| 5/29/23 | 546,131.0 | 102,200 | | | |
| 5/30/23 | 546,233.2 | 110,300 | | | |
| 5/31/23 | 546,343.5 | 115,700 | | | |
| 6/1/23 | 546,459.2 | | | | |
| | | | | | |
| | Monthly Total: | 3,369,100 | gallon | 5 | If Exception is noted, the 'Daily Average', MAX and MIN Day |
| | Daily Average: | 108,681 | gpd | | totals <u>do not</u> include the daily usage in these calculations. 'Monthly Total', however, is unaffected by the Exceptions. |
| | Maximum Day: | 124,300 | gallon | s on | 5/20/23 |
| | Minimum Day: | 78,700 | gallon | s on | 5/4/23 |
| | Permitted Flow: | 360,000 | gpd | | |
| | | 30% | Avera | ge Flo | w as a Percent of Permitted Flow |
| | | (TCEQ s | tipulat | es pla | nning/design for 3 consecutive months of >75% of permit) |

| Date | Meter Reading | Daily Usage | Excep | otion | Reason for Exception |
|---------|-----------------|-------------|----------|---------|---|
| | (gallons) | (gallons) | | | |
| June | | | _ | - | |
| 6/1/23 | 546,459.2 | 151,200 | | _ | |
| 6/2/23 | 546,610.4 | 130,700 | | _ | |
| 6/3/23 | 546,741.1 | 116,100 | | | |
| 6/4/23 | 546,857.2 | 114,800 | | | |
| 6/5/23 | 546,972.0 | 122,600 | | | |
| 6/6/23 | 547,094.6 | 106,200 | | | |
| 6/7/23 | 547,200.8 | 137,000 | | | |
| 6/8/23 | 547,337.8 | 120,900 | | | |
| 6/9/23 | 547,458.7 | 158,100 | | | |
| 6/10/23 | 547,616.8 | 148,400 | | | |
| 6/11/23 | 547,765.2 | 149,500 | | | |
| 6/12/23 | 547,914.7 | 61,600 | | | |
| 6/13/23 | 547,976.3 | 138,100 | | | |
| 6/14/23 | 548,114.4 | 138,000 | | | |
| 6/15/23 | 548,252.4 | 103,200 | | | |
| 6/16/23 | 548,355.6 | 119,200 | | | |
| 6/17/23 | 548,474.8 | 115,000 | | | |
| 6/18/23 | 548,589.8 | 127,000 | | | |
| 6/19/23 | 548,716.8 | 124,900 | | | |
| 6/20/23 | 548,841.7 | 136,400 | | | |
| 6/21/23 | 548,978.1 | 124,900 | | | |
| 6/22/23 | 549,103.0 | 124,800 | | | |
| 6/23/23 | 549,227.8 | 142,400 | | | |
| 6/24/23 | 549,370.2 | 127,100 | | | |
| 6/25/23 | 549,497.3 | 137,500 | | | |
| 6/26/23 | 549,634.8 | 142,000 | | | |
| 6/27/23 | 549,776.8 | 142,000 | | | |
| 6/28/23 | 549,918.8 | 145,900 | | | |
| 6/29/23 | 550,064.7 | 153,000 | | | |
| 6/30/23 | 550,217.7 | 152,800 | | | |
| 7/1/23 | 550,370.5 | | | | |
| | | | | | |
| | Monthly Total: | 3.911.300 | gallon | 5 | If Exception is noted, the 'Daily Average', MAX and MIN Day |
| | Daily Average: | 130,377 | gpd | | totals <u>do not</u> include the daily usage in these calculations. 'Monthly Total', however, is unaffected by the Exceptions. |
| | Maximum Day: | 158,100 | gallons | on | 6/9/23 |
| | Minimum Day: | 61,600 | gallons | on | 6/12/23 |
| | Permitted Flow: | 360,000 | gpd | | |
| | | 36% | Averag | ge Flov | w as a Percent of Permitted Flow |
| | | (TCEQ s | tipulate | es plai | nning/design for 3 consecutive months of >75% of permit) |

| Date | Meter Reading | Daily Usage | Exceptio | on | Reason for Exception |
|---------|-----------------|-------------|-------------|------------|--|
| | (gallons) | (gallons) | | | |
| July | | | | | |
| 7/1/23 | 550,370.5 | 149,200 | | | |
| 7/2/23 | 550,519.7 | 146,700 | | | |
| 7/3/23 | 550,666.4 | 154,600 | | | |
| 7/4/23 | 550,821.0 | 145,000 | | | |
| 7/5/23 | 550,966.0 | 170,300 | | | |
| 7/6/23 | 551,136.3 | 162,300 | | | |
| 7/7/23 | 551,298.6 | 167,800 | | | |
| 7/8/23 | 551,466.4 | 155,200 | | | |
| 7/9/23 | 551,621.6 | 167,700 | | | |
| 7/10/23 | 551,789.3 | 158,400 | | | |
| 7/11/23 | 551,947.7 | 170,700 | | | |
| 7/12/23 | 552,118.4 | 156,600 | | | |
| 7/13/23 | 552,275.0 | 146,000 | | | |
| 7/14/23 | 552,421.0 | 175,200 | | | |
| 7/15/23 | 552,596.2 | 169,000 | | | |
| 7/16/23 | 552,765.2 | 139,300 | | | |
| 7/17/23 | 552,904.5 | 151,800 | | | |
| 7/18/23 | 553,056.3 | 172,600 | | | |
| 7/19/23 | 553,228.9 | 162,500 | | | |
| 7/20/23 | 553,391.4 | 165,900 | | | |
| 7/21/23 | 553,557.3 | 152,900 | | | |
| 7/22/23 | 553,710.2 | 150,300 | | | |
| 7/23/23 | 553,860.5 | 159,500 | | | |
| 7/24/23 | 554,020.0 | 166,400 | | | |
| 7/25/23 | 554,186.4 | 165,800 | | | |
| 7/26/23 | 554,352.2 | 163,200 | | | |
| 7/27/23 | 554,515.4 | 165,100 | | | |
| 7/28/23 | 554,680.5 | 158,400 | | | |
| 7/29/23 | 554,838.9 | 160,400 | | | |
| 7/30/23 | 554,999.3 | 160,400 | | | |
| 7/31/23 | 555,159.7 | 174,000 | | | |
| 8/1/23 | 555,333.7 | | | | |
| | | | | _ | |
| | Monthly Total: | 4,963,200 | gallons | lf | Exception is noted, the 'Daily Average', MAX and MIN Day |
| | Daily Average: | 160,103 | gpd | to T | otals <u>do not</u> include the daily usage in these calculations. 'Monthly otal', however, is unaffected by the Exceptions. |
| | Maximum Day: | 175,200 | gallons or | n 7 | /14/23 |
| | Minimum Day: | 139,300 | gallons or | n 7 | /16/23 |
| | Permitted Flow: | 360.000 | gpd | | |
| | | 44% | Average I | Flow | as a Percent of Permitted Flow |
| | | (TCEQ s | tipulates i | plann | ing/design for 3 consecutive months of >75% of permit) |

| Date | Meter Reading | Daily Usage | Exc | eption | Reason for Exception |
|---------|-----------------|-------------|--------|----------|---|
| | (gallons) | (gallons) | | | |
| August | | | Г | | |
| 8/1/23 | 555,333.7 | 130,200 | ŀ | | |
| 8/2/23 | 555,463.9 | 142,200 | Ļ | | |
| 8/3/23 | 555,606.1 | 160,900 | ŀ | | |
| 8/4/23 | 555,767.0 | 138,600 | | | |
| 8/5/23 | 555,905.6 | 122,400 | | | |
| 8/6/23 | 556,028.0 | 130,800 | | | |
| 8/7/23 | 556,158.8 | 135,300 | | | |
| 8/8/23 | 556,294.1 | 138,500 | | | |
| 8/9/23 | 556,432.6 | 122,400 | | | |
| 8/10/23 | 556,555.0 | 134,700 | | | |
| 8/11/23 | 556,689.7 | 114,900 | | | |
| 8/12/23 | 556,804.6 | 130,400 | | | |
| 8/13/23 | 556,935.0 | 140,300 | | | |
| 8/14/23 | 557,075.3 | 142,300 | | | |
| 8/15/23 | 557,217.6 | 131,900 | | | |
| 8/16/23 | 557,349.5 | 131,400 | ľ | | |
| 8/17/23 | 557,480.9 | 137,300 | ľ | | |
| 8/18/23 | 557,618.2 | 127,900 | ľ | | |
| 8/19/23 | 557,746.1 | 130,600 | Ī | | |
| 8/20/23 | 557,876.7 | 155,700 | F | | |
| 8/21/23 | 558,032.4 | 134,100 | F | | |
| 8/22/23 | 558,166.5 | 137,200 | F | | |
| 8/23/23 | 558,303.7 | 135,700 | ŀ | | |
| 8/24/23 | 558,439.4 | 125,700 | ŀ | | |
| 8/25/23 | 558,565.1 | 138,600 | F | | |
| 8/26/23 | 558,703.7 | 128,400 | ŀ | | |
| 8/27/23 | 558,832.1 | 170,900 | F | | |
| 8/28/23 | 559,003.0 | 120,100 | F | | |
| 8/29/23 | 559,123.1 | 108,200 | F | | |
| 8/30/23 | 559.231.3 | 118.400 | ŀ | | |
| 8/31/23 | 559.349.7 | 123.000 | ŀ | | |
| 9/1/23 | 559,472.7 | -, | - | | |
| | | | | | |
| | | 4,139,000 | gallo | ns | If Exception is noted, the 'Daily Average', MAX and MIN Day |
| | Dally Average: | 133,516 | gpa | | Total's do not include the daily usage in these calculations. Monthly Total', however, is unaffected by the Exceptions. |
| | Maximum Day: | 170,900 | gallo | ns on | 8/27/23 |
| | Minimum Day: | 108,200 | gallo | ns on | 8/29/23 |
| | Permitted Flow: | 360,000 | gpd | | |
| | | 37% | Aver | age Flo | w as a Percent of Permitted Flow |
| | | (TCEQ s | tipula | ites pla | nning/design for 3 consecutive months of >75% of permit) |

| Date | Meter Reading | Daily Usage | Exce | ption | Reason for Exception |
|-----------|-----------------|-------------|---------|--------|---|
| | (gallons) | (gallons) | | | |
| September | | | _ | _ | |
| 9/1/23 | 559,472.7 | 112,400 | _ | _ | |
| 9/2/23 | 559,585.1 | 132,400 | _ | | |
| 9/3/23 | 559,717.5 | 154,900 | _ | | |
| 9/4/23 | 559,872.4 | 159,700 | _ | | |
| 9/5/23 | 560,032.1 | 125,600 | _ | | |
| 9/6/23 | 560,157.7 | 121,200 | _ | | |
| 9/7/23 | 560,278.9 | 118,800 | _ | | |
| 9/8/23 | 560,397.7 | 126,300 | | | |
| 9/9/23 | 560,524.0 | 132,200 | | | |
| 9/10/23 | 560,656.2 | 124,800 | | | |
| 9/11/23 | 560,781.0 | 126,800 | | | |
| 9/12/23 | 560,907.8 | 141,000 | | | |
| 9/13/23 | 561,048.8 | 132,100 | | | |
| 9/14/23 | 561,180.9 | 134,500 | | | |
| 9/15/23 | 561,315.4 | 155,600 | | | |
| 9/16/23 | 561,471.0 | 124,200 | | | |
| 9/17/23 | 561,595.2 | 132,200 | | | |
| 9/18/23 | 561,727.4 | 125,200 | | | |
| 9/19/23 | 561,852.6 | 131,400 | | | |
| 9/20/23 | 561,984.0 | 131,700 | | | |
| 9/21/23 | 562,115.7 | 128,600 | | | |
| 9/22/23 | 562,244.3 | 134,400 | | | |
| 9/23/23 | 562,378.7 | 120,000 | | | |
| 9/24/23 | 562,498.7 | 124,300 | | | |
| 9/25/23 | 562,623.0 | 121,600 | | | |
| 9/26/23 | 562,744.6 | 118,500 | | | |
| 9/27/23 | 562,863.1 | 124,800 | _ | | |
| 9/28/23 | 562,987.9 | 126,400 | | | |
| 9/29/23 | 563,114.3 | 121,900 | | | |
| 9/30/23 | 563,236.2 | 116,300 | _ | | |
| 10/1/23 | 563,352.5 | | _ | | |
| | | | | | |
| | Monthly Total | 3.879 800 | gallon | S | If Exception is noted, the 'Daily Average', MAX and MIN Day |
| | Daily Average: | 129,327 | gpd | | totals <u>do not</u> include the daily usage in these calculations. 'Monthly Total', however, is unaffected by the Exceptions. |
| | Maximum Day: | 159,700 | gallon | s on | 9/4/23 |
| | Minimum Day: | 112,400 | gallon | s on | 9/1/23 |
| | Permitted Flow: | 360,000 | gpd | | |
| | | 36% | Avera | ge Flo | w as a Percent of Permitted Flow |
| | | (TCEQ s | tipulat | es pla | nning/design for 3 consecutive months of >75% of permit) |

| Date | Meter Reading | Daily Usage | Exception | Reason for Exception |
|----------|-----------------|-------------|---------------|--|
| | (gallons) | (gallons) | | |
| October | | | | |
| 10/1/23 | 563,352.5 | 201,600 | X | Extra reading taken on '9/31' |
| 10/2/23 | 563,554.1 | 103,500 | | |
| 10/3/23 | 563,657.6 | 108,200 | | |
| 10/4/23 | 563,765.8 | 103,700 | | |
| 10/5/23 | 563,869.5 | 106,200 | Ш | |
| 10/6/23 | 563,975.7 | 113,400 | Ш | |
| 10/7/23 | 564,089.1 | 110,600 | Ш | |
| 10/8/23 | 564,199.7 | 110,400 | | |
| 10/9/23 | 564,310.1 | 114,300 | | |
| 10/10/23 | 564,424.4 | 111,400 | | |
| 10/11/23 | 564,535.8 | 112,900 | | |
| 10/12/23 | 564,648.7 | 120,900 | | |
| 10/13/23 | 564,769.6 | 100,900 | | |
| 10/14/23 | 564,870.5 | 105,600 | | |
| 10/15/23 | 564,976.1 | 116,000 | | |
| 10/16/23 | 565,092.1 | 118,100 | | |
| 10/17/23 | 565,210.2 | 104,400 | | |
| 10/18/23 | 565,314.6 | 122,500 | | |
| 10/19/23 | 565,437.1 | 123,600 | | |
| 10/20/23 | 565,560.7 | 128,200 | | |
| 10/21/23 | 565,688.9 | 124,800 | | |
| 10/22/23 | 565,813.7 | 127,600 | | |
| 10/23/23 | 565,941.3 | 130,900 | H | |
| 10/24/23 | 566,072.2 | 129,500 | H | |
| 10/25/23 | 566,201.7 | 128,900 | H | |
| 10/26/23 | 566,330.6 | 123,500 | H | |
| 10/27/23 | 566,454.1 | 126,800 | H | |
| 10/28/23 | 566,580.9 | 118,700 | H | |
| 10/29/23 | 566.699.6 | 129.900 | | |
| 10/30/23 | 566.829.5 | 151.400 | | |
| 10/31/23 | 566,980,9 | 111.100 | | |
| 11/1/23 | 567,092.0 | , | | |
| | - | | | - |
| | Monthly Total: | 3,739,500 | gallons | If Exception is noted, the 'Daily Average', MAX and MIN Day |
| | Daily Average: | 117,930 | gpd | totals <u>do not</u> include the daily usage in these calculations. 'Monthly Total', however, is unaffected by the Exceptions. |
| | Maximum Day: | 151,400 | gallons on | 10/30/23 |
| | Minimum Day: | 100,900 | gallons on | 10/13/23 |
| | Permitted Flow: | 360,000 | gpd | |
| | | 33 <u>%</u> | Average Flov | w as a Percent of Permitted Flow |
| | | (TCEQ s | tipulates pla | nning/design for 3 consecutive months of >75% of permit) |

| Date | Meter Reading | Daily Usage | Exce | ption | Reason for Exception |
|----------|---------------------|-------------|---------|--------|---|
| | (gallons) | (gallons) | | | |
| November | | | _ | _ | |
| 11/1/23 | 567,092.0 | 118,500 | | | |
| 11/2/23 | 567,210.5 | 116,400 | | | |
| 11/3/23 | 567,326.9 | 120,600 | | | |
| 11/4/23 | 567,447.5 | 118,700 | | | |
| 11/5/23 | 567,566.2 | 121,200 | | | |
| 11/6/23 | 567,687.4 | 117,700 | | | |
| 11/7/23 | 567,805.1 | 123,200 | | | |
| 11/8/23 | 567,928.3 | 112,500 | | | |
| 11/9/23 | 568,040.8 | 136,300 | | | |
| 11/10/23 | 568,177.1 | 109,400 | | | |
| 11/11/23 | 568,286.5 | 99,200 | | | |
| 11/12/23 | 568,385.7 | 108,200 | | | |
| 11/13/23 | 568,493.9 | 112,200 | | | |
| 11/14/23 | 568,606.1 | 106,000 | | | |
| 11/15/23 | 568,712.1 | 103,600 | | | |
| 11/16/23 | 568,815.7 | 100,800 | | | |
| 11/17/23 | 568,916.5 | 106,500 | | | |
| 11/18/23 | 569,023.0 | 109,500 | | | |
| 11/19/23 | 569,132.5 | 107,600 | | | |
| 11/20/23 | 569,240.1 | 103,000 | | | |
| 11/21/23 | 569,343.1 | 103,100 | | | |
| 11/22/23 | 569,446.2 | 105,400 | F | | |
| 11/23/23 | 569,551.6 | 97,800 | | | |
| 11/24/23 | 569,649.4 | 102,200 | | | |
| 11/25/23 | 569,751.6 | 105,900 | | | |
| 11/26/23 | 569.857.5 | 106.500 | | | |
| 11/27/23 | 569,964.0 | 103,600 | | | |
| 11/28/23 | 570.067.6 | 107.100 | | | |
| 11/29/23 | 570.174.7 | 109.800 | F | | |
| 11/30/23 | 570.284.5 | 101.300 | F | - | |
| 12/1/23 | 570.385.8 | , | F | | |
| | 0,00000 | | | | |
| | Monthly Total: | 3,293,800 | gallon | s | If Exception is noted, the 'Daily Average', MAX and MIN Day |
| | , Daily Average: | 109,793 | gpd | | totals <u>do not</u> include the daily usage in these calculations. 'Monthly Total', however, is unaffected by the Exceptions. |
| | Maximum Day: | 136,300 | gallon | s on | 11/9/23 |
| | Minimum Day: | 97,800 | gallon | s on | 11/23/23 |
| | Permitted Flow: | 360,000 | gpd | | |
| | | <u> </u> | Avera | ge Flo | w as a Percent of Permitted Flow |
| | | (TCEQ s | tipulat | es pla | nning/design for 3 consecutive months of >75% of permit) |

| Date | Meter Reading | Daily Usage | Exception | | Reason for Exception |
|----------|-----------------|-------------|-----------|---------|---|
| | (gallons) | (gallons) | | | |
| December | | | | | |
| 12/1/23 | 570,385.8 | 102,600 | | | |
| 12/2/23 | 570,488.4 | 98,400 | | | |
| 12/3/23 | 570,586.8 | 101,600 | | | |
| 12/4/23 | 570,688.4 | 96,900 | | | |
| 12/5/23 | 570,785.3 | 107,700 | | | |
| 12/6/23 | 570,893.0 | 105,200 | | | |
| 12/7/23 | 570,998.2 | 106,900 | | | |
| 12/8/23 | 571,105.1 | 101,000 | | | |
| 12/9/23 | 571,206.1 | 105,000 | | | |
| 12/10/23 | 571,311.1 | 116,000 | | | |
| 12/11/23 | 571,427.1 | 102,500 | | | |
| 12/12/23 | 571,529.6 | 110,300 | | | |
| 12/13/23 | 571,639.9 | 110,000 | | | |
| 12/14/23 | 571,749.9 | 120,300 | | | |
| 12/15/23 | 571,870.2 | 108,600 | | | |
| 12/16/23 | 571,978.8 | 101,200 | | | |
| 12/17/23 | 572,080.0 | 100,800 | | | |
| 12/18/23 | 572,180.8 | 107,400 | | | |
| 12/19/23 | 572,288.2 | 111,600 | | | |
| 12/20/23 | 572,399.8 | 109,200 | | | |
| 12/21/23 | 572,509.0 | 111,700 | | | |
| 12/22/23 | 572,620.7 | 88,300 | | | |
| 12/23/23 | 572,709.0 | 95,700 | | | |
| 12/24/23 | 572,804.7 | 78,400 | | | |
| 12/25/23 | 572,883.1 | 100,500 | | | |
| 12/26/23 | 572,983.6 | 86,400 | | | |
| 12/27/23 | 573,070.0 | 88,100 | | | |
| 12/28/23 | 573,158.1 | 83,900 | | | |
| 12/29/23 | 573,242.0 | 87,300 | | | |
| 12/30/23 | 573,329.3 | 90,400 | | | |
| 12/31/23 | 573,419.7 | | | | |
| 1/1/24 | | | | | |
| | | | | | |
| | Monthly Total: | 3,033,900 | gallo | ons | If Exception is noted, the 'Daily Average', MAX and MIN Day |
| | Daily Average: | 101,130 | gpd | | totals do not include the daily usage in these calculations. 'Monthly Total', however, is unaffected by the Exceptions. |
| | Maximum Day: | 120,300 | gallo | ons on | 12/14/23 |
| | Minimum Day: | 78,400 | gallo | ons on | 12/24/23 |
| | Permitted Flow: | 360,000 | gpd | | |
| | | 28% | Avei | rage Fl | ow as a Percent of Permitted Flow |
| | | (TCEQ s | tipul | ates pl | anning/design for 3 consecutive months of >75% of permit) |

ATTACHMENT K

2022 – 2023 Laboratory Test Results



3407 Clovid Rd. Lubbock, Texas 79415 P.O. Box 16652 Lubbock, Texas Tel: (806) 796-2805 Fax : (806) 796-2825

ANALYTICAL RESULTS FOR CITY OF TAHOKA P. O. BOX 300 TAHOKA, TX 79373 PHONE: (806) 561-4211 EMAIL ADDRESS: jamesdelson43@gmail.com

Receiving Date: 01/24/22 @ 6 "C Reporting Date: 02/03/22 Project Number: NOT GIVEN Project Name: MONTHLY BOD Project Location: CENTER LAGOON Sampling Date: 01/24/22 @ 10:00 Sample Type: WASTEWATER Sample Condition: COOL & INTACT Sample Received By: MR Analyzed By: MR, JL

| | | BOD ₅ | TSS | pH* |
|----------------------------|-------------|------------------|----------|--------------|
| LAB NUMBER | SAMPLE ID | (mg/L) | (mg/L) | (s.u.) |
| Date Analysis Batch St | arted: | 01/26/22 | 01/28/22 | 01/26/22 |
| Time Analysis Batch SI | arted: | 8:50 | 9.15 | 9:10 |
| AA29505-1 | C. LAGOON | 21 | 52 | 7.81 @ 19 °C |
| Date Analysis Batch Fit | nisheđ: | 01/31/22 | 01/28/22 | 01/26/22 |
| Time Analysis Batch Fi | nished. | 10:00 | 13:00 | 10.00 |
| Blank | | 0.04 | < 3 | N/A |
| Quality Control | | 201 | N/A | 7.00 |
| True Value QC | | 198 | N/A | 7.00 |
| % Instrument Accuracy | | 102 | N/A | 100 |
| Hi - Low Limits | | 85 - 115 | N/A | 95 - 105 |
| Relative Percent Different | ence (≤ 15) | 6 | 4 | 0 |

METHODS: STD METHODS

2540 D 4500-H^{*} B

This report meets NELAC T104704437-21-20.

The analysis contained in this report applies only to the samples tested and for the exclusive use of the addressed client. Reproduction of this report wholly or in part requires written permission of the client. *15 min shelf-life expired. Reported value is for client information only.

5210 B

Land Addrig Val

Mario Rodriguez, Director.

02/03/22 Date



3407 Clovid Rd. Lubbock, Texas 79415 P.O. Box 16652 Lubbock, Texas Tel: (806) 796-2805 Fax : (806) 796-2825

ANALYTICAL RESULTS FOR CITY OF TAHOKA P. O. BOX 300 TAHOKA, TX 79373 PHONE: (806) 561-4211 EMAIL ADDRESS: jamesdeleon43@gmail.com

Receiving Date: 02/24/22 @ 6 "C Reporting Date: 03/06/22 Project Number: NOT GIVEN Project Name: MONTHLY BOD Project Location: CENTER LAGOON Sampling Date: 02/24/22 @ 10:00 Sample Type: WASTEWATER Sample Condition: COOL & INTACT Sample Received By: MR Analyzed By: MR, JL

| | | BOD ₅ | TSS | pH* |
|----------------------|----------------|------------------|----------|--------------|
| LAB NUMBER | SAMPLE ID | (ma/L) | (mg/L) | (s.u.) |
| Date Analysis Batch | Started: | 02/25/22 | 02/25/22 | 02/25/22 |
| Time Analysis Batch | Started: | 9:20 | 14:55 | 9:40 |
| AA29560-1 | C. LAGOON | 34 | 51 | 8.32 🥸 19 °C |
| Date Analysis Batch | Finished: | 03/02/22 | 02/25/22 | 02/25/22 |
| Time Analysis Batch | Finished: | 12:00 | 17:10 | 10.15 |
| Blank | | 0.15 | < 3 | N/A |
| Quality Control | | 211 | N/A | 7.00 |
| True Value QC | | 198 | N/A | 7.00 |
| % Instrument Accur | асу | 107 | N/A | 100 |
| Hi - Low Limits | | 85 - 115 | N/A | 95 - 105 |
| Relative Percent Dif | ference (s 15) | 3 | 8 | 0 |

METHODS: STD METHODS

5210 B 2540 D 4500-H* B

This report meets NELAC T104704437-21-20.

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Varia Add -26 442

Mario Rodriguez, Director.

03/06/22 Date



3407 Clovid Rd. Lubbock, Texas 79415 P.O. Box 16652 Lubbock, Texas Tel: (806) 796-2805 Fax: (806) 796-2825

ANALYTICAL RESULTS FOR CITY OF TAHOKA P. O. BOX 300 TAHOKA, TX 79373 PHONE: (806) 561-4211 EMAIL ADDRESS: jamesdelson43@gmail.com

Receiving Date: 03/23/22 @ 6 °C Reporting Date: 03/28/22 Project Number: NOT GIVEN Project Name: MONTHLY BOD Project Location: CENTER LAGOON Sampling Date: 03/23/22 @ 10:00 Sample Type: WASTEWATER Sample Condition: COOL & INTACT Sample Received By: MR Analyzed By: MR, JL

| | | BOD ₅ | TSS | pH* |
|--|----------------------|------------------|-------------------|------------------|
| LAB NUMBER | SAMPLE ID | (mo4.) | (mg/L) | (s.u.) |
| Date Analysis Batch Time Analysis Batch | Started: Started: | 03/23/22 9:35 | 03/25/22 14:45 | 03/23/22 9:56 |
| AA29617-1 | C. LAGOON | 33 | 66 | 8.6 @ 19 °C |
| Date Analysis Batch | Finished: | 03/28/22 | 03/25/22 | 03/23/22 |
| Time Analysis Batch | Finished: | 11:51 | 17:59 | 10.20 |
| Blank | | 0.02 | < 3 | N/A |
| Quality Control | | 202 | N/A | 7.00 |
| True Value QC | | 198 | N/A | 7.00 |
| % Instrument Accura | су | 102 | N/A | 100 |
| Hi - Low Limits | | 85 - 115 | N/A | 95 - 105 |
| Relative Percent Diff | erence (≤ 15) | 2 | 2 | 0 |

METHODS: STD METHODS

ETHODS 5210 B 2540 D

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Mario Rodriguez, Director.

03/28/22 Date

4500-H* B



3407 Clovid Rd. Lubbock, Texas 79415 P.O. Box 16652 Lubbock, Texas Tel: (806) 796-2805 Fax: (806) 796-2825

ANALYTICAL RESULTS FOR CITY OF TAHOKA P. O. BOX 300 TAHOKA, TX 79373 PHONE: (606) 561-4211 EMAIL ADDRESS: jamesdeleon43@gmail.com

Receiving Date: 04/26/22 @ 11 "C Reporting Date: 05/02/22 Project Number: NOT GIVEN Project Name: MONTHLY BOD Project Location: CENTER LAGOON Sampling Date: 04/26/22 @ 10:00 Sample Type: WASTEWATER Sample Condition: COOL & INTACT Sample Received By: MR Analyzed By: MR, JL

| | | BOD, | TSS | pH* |
|------------------------|--------------|----------|----------|--------------|
| LAB NUMBER | SAMPLE ID | (mg/L) | (mg/L) | (S.U.) |
| Date Analysis Batch S | tarted: | 04/27/22 | 04/29/22 | 04/27/22 |
| Time Analysis Batch S | Started: | 9:40 | 11:20 | 10:00 |
| AA29685-1 | C. LAGOON | 20 | 72 | 7.89 @ 22 °C |
| Date Analysis Batch F | inisheđ: | 05/02/22 | 04/29/22 | 04/27/22 |
| Time Analysis Batch F | inished: | 15:15 | 14:20 | 10:30 |
| Blank | | 0.10 | < 3 | N/A |
| Quality Control | | 196 | N/A | 7.00 |
| True Value QC | | 198 | N/A | 7.00 |
| % Instrument Accurac | y . | 99 | N/A | 100 |
| Hi - Low Limits | | 85 - 115 | N/A | 95 - 105 |
| Relative Percent Diffe | rence (≤ 15) | 4 | 0 | 0 |

METHODS: STD METHODS

This report meets NELAC T104704437-21-20. The analysis contained in this report applies only to the samples tested and for the exclusive use of the addressed client. Reproduction of this report

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Mario Roomava

05/02/22 Date

4500-H B

2540 D

Mario Rodriguez, Director.



3407 Clovid Rd. Lubbock, Texas 79415 P.O. Box 16652 Lubbock, Texas Tel: (806) 796-2805 Fax : (806) 796-2825 ANALYTICAL RESULTS FOR CITY OF TAHOKA P. O. BOX 300 **TAHOKA, TX 79373** PHONE: (806) 561-4211 EMAIL ADDRESS: jamesdeleon43@gmail.com

Receiving Date: 05/25/22 @ 13 *C Reporting Date: 05/30/22 Project Number: NOT GIVEN Project Name: MONTHLY BOD Project Location: CENTER LAGOON

Sampling Date: 05/25/22 @ 10:00 Sample Type: WASTEWATER Sample Condition: COOL & INTACT Sample Received By: MR Analyzed By: MR, JL

| | | 80Ds | TSS | pH* |
|------------------------|--------------|----------|----------|--------------|
| LAB NUMBER | SAMPLE ID | (mg/L) | (mg/L) | (s.u.) |
| Date Analysis Batch S | tarted: | 05/25/22 | 05/27/22 | 05/25/22 |
| Time Analysis Batch 5 | Started: | 10:10 | 15:21 | 10:30 |
| AA29757-1 | C. LAGOON | 77 | 64 | 8.84 @ 22 °C |
| Date Analysis Batch P | inished: | 05/30/22 | 05/27/22 | 05/25/22 |
| Time Analysis Batch F | inished: | 12:05 | 17:30 | 11.00 |
| Blank | | 0.03 | < 3 | N/A |
| Quality Control | | 209 | N/A | 6.98 |
| True Value QC | | 198 | N/A | 7.00 |
| % Instrument Accurac | z y | 106 | N/A | 100 |
| Hi - Low Limits | | 85 - 115 | N/A | 95 - 105 |
| Relative Percent Diffe | rence (≤ 15) | 1 | 3 | 0 |

2540 D METHODS: STD METHODS 5210 B This report meets NELAC T104704437-21-20.

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15 min shelf-life expired. Reported value is for client information only.

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Mario Rodriguez, Director.

05/30/22 Date

4500-H^{*} B

dvanced *Inalysis, Inc.*

3407 Clovid Rd. Lubbock, Texas 79415 P.O. Box 16652 Lubbock, Texas Tel: (806) 796-2805 Fax : (806) 796-2825

ANALYTICAL RESULTS FOR CITY OF TAHOKA P. O. BOX 300 TAHOKA, TX 79373 PHONE: (806) 561-4211 EMAIL ADDRESS: jamesdeleon43@gmail.com

Receiving Date: 06/24/22 @ 9 °C Reporting Date: 06/29/22 Project Number: NOT GIVEN Project Name: MONTHLY BOD Project Location: CENTER LAGOON Sampling Date: 06/24/22 @ 10:00 Sample Type: WASTEWATER Sample Condition: COOL & INTACT Sample Received By: MR Analyzed By: MR, JL

| | | BOD_5 | TSS | pH* | | | | |
|---------------------|-----------------|----------|-------------------|-------------|--|--|--|--|
| LAB NUMBER | SAMPLE ID | (mg/L) | (mg/L) | (s.u.) | | | | |
| Date Analysis Batcl | h Started: | 06/24/22 | 06/24/22 06/24/22 | | | | | |
| Time Analysis Batc | h Started: | 9:00 | 11:00 | 10:00 | | | | |
| | | | | | | | | |
| AA29822-1 | C. LAGOON | 42 | 88 | 9.1 @ 22 °C | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Date Analysis Batcl | h Finished: | 06/29/22 | 06/24/22 | 06/24/22 | | | | |
| Time Analysis Batc | h Finished: | 13:45 | 15:15 | 10:30 | | | | |
| | | | | | | | | |
| Blank | | 0.12 | < 3 | N/A | | | | |
| Quality Control | | 186 | N/A | 7.00 | | | | |
| True Value QC | | 198 | N/A | 7.00 | | | | |
| % Instrument Accu | racy | 94 | N/A | 100 | | | | |
| Hi - Low Limits | | 85 - 115 | N/A | 95 - 105 | | | | |
| Relative Percent Di | fference (≤ 15) | 2 | 4 | 0 | | | | |
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 METHODS:
 STD METHODS
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 4500-H⁺ B

 This report meets NELAC T104704437-21-20.
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0219122

06/29/22 Date

Mario Rodriguez, Director.

dvanced *Inalysis, Inc.*

3407 Clovid Rd. Lubbock, Texas 79415 P.O. Box 16652 Lubbock, Texas Tel: (806) 796-2805 Fax : (806) 796-2825

ANALYTICAL RESULTS FOR CITY OF TAHOKA P. O. BOX 300 TAHOKA, TX 79373 PHONE: (806) 561-4211 EMAIL ADDRESS: jamesdeleon43@gmail.com

Receiving Date: 07/19/22 @ 9 °C Reporting Date: 07/24/22 Project Number: NOT GIVEN Project Name: MONTHLY BOD Project Location: CENTER LAGOON Sampling Date: 07/19/22 @ 11:00 Sample Type: WASTEWATER Sample Condition: COOL & INTACT Sample Received By: MR Analyzed By: MR, JL

| | | BOD_5 | TSS | pH* | | | | |
|---------------------|-----------------|----------|-------------------|-------------|--|--|--|--|
| LAB NUMBER | SAMPLE ID | (mg/L) | (mg/L) | (s.u.) | | | | |
| Date Analysis Batcl | h Started: | 07/20/22 | 07/20/22 07/22/22 | | | | | |
| Time Analysis Batc | h Started: | 9:30 | 10:50 | 10:00 | | | | |
| | | | | | | | | |
| AA29875-1 | C. LAGOON | 51 | 67 | 9.0 @ 25 °C | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Date Analysis Batcl | h Finished: | 07/24/22 | 07/19/22 | 07/19/22 | | | | |
| Time Analysis Batc | h Finished: | 13:15 | 15:45 | 10:30 | | | | |
| | | | | | | | | |
| Blank | | 0.07 | < 3 | N/A | | | | |
| Quality Control | | 176 | N/A | 7.00 | | | | |
| True Value QC | | 198 | N/A | 7.00 | | | | |
| % Instrument Accu | racy | 89 | N/A | 100 | | | | |
| Hi - Low Limits | | 85 - 115 | N/A | 95 - 105 | | | | |
| Relative Percent Di | fference (≤ 15) | 7 | 5 | 0 | | | | |
| | | | | | | | | |

 METHODS:
 STD METHODS
 5210 B
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 4500-H⁺ B

 This report meets NELAC T104704437-21-20.
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*15 min shelf-life expired. Reported value is for client information only.

0219122

07/24/22 Date

Mario Rodriguez, Director.

ALAMO ANALYTICAL LABORATORIES, LTD.

REPORT NARRATIVE



Main: 10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121 . Fax. (210) 340-8123

| Mario Rodriguez | |
|-------------------------|-------------------------------------|
| Advanced Analysis Inc. | |
| P.O Box 16652 | |
| Lubbock , Texas - 79490 | |
| TEL: (806) 796-2805 | Email: <u>rodriguezaa@yahoo.com</u> |
| FAX: (806) 796-2825 | |
| | |

RE: City of Tohoka Dear Mario Rodriguez:

Order No.: 2208092

9/2/2022

Enclosed please find the analytical report for the sample/s received on 8/25/2022.

SAMPLE RECEIPT: Samples were received intact and with chain of custody documentation. HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the Sample Acceptance Policy unless otherwise noted in the report.

COMMENTS: No significant observations were made.

If you have any questions regarding these test results call (210) 340-8121.

Thank you,

Reddy Gosala, Ph.D Laboratory Director

Report of Laboratory Analysis

Note: The analysis contained in this report applies only to the samples tested and for the exclusive use of the addressed client. Reproduction of this report wholly or in part requires written permission of the client.



Date: 02-Sep-22

Analytical Results Report

| CLIENT: | Advanced Analysis Inc. | Project: | City of Tohoka |
|------------|------------------------|----------|----------------|
| Lab Order: | 2208092 | | - |

| Alamo Lab ID Client ID | Collection Date | Analyses | Matrix | Result | MDL | PQL | Units | DF Qua |
|----------------------------------|------------------------|-------------------|-------------------------|------------|------|-------|----------|--------|
| TestName: pH | TestNo: | SM4500-H+B | Date Analyzed 8/25/2022 | 9:45:00 AM | | Initi | als: YK | |
| 2208092-01A Center Lagoon | 8/23/2022 10:00:00 AM | pH at 25 o C | Liquid | 8.3 | 0.04 | 0.1 | pH units | 1 |
| TestName: BOD, 5 Day, 20°C | TestNo: | SM5210B | Date Analyzed 8/29/2022 | 3:45:00 PM | | Initi | als: AM | |
| 2208092-01A Center Lagoon | 8/23/2022 10:00:00 AM | Biochemical Oxyge | en Demand Liquid | 60.8 | 0.65 | 2 | mg/L | 1 |
| TestName: TOTAL SUSPENDED SOLIDS | TestNo: | SM2540D | Date Analyzed 8/29/2022 | 4:35:00 PM | | Initi | als: SM | |
| 2208092-01A Center Lagoon | 8/23/2022 10:00:00 AM | Suspended Solids | (Residue, No Liquid | 53 | 2.11 | 5 | mg/L | 1 |

beredy

H Holding times for preparation or analysis exceeded; J - Analyte detected below quantitation limits * Non-NELAP Standards ** Sub Contracted

Approved by: Reddy Gosala, Laboratory Direc Report of Laboratory Analysis
Note: The analysis contained in this report applies only to the samples tested and for the exclusive use of the addressed client. Reproduction of this report wholly or in part requires written permission of the client.

ALAMO ANALYTICAL LABORATORIES, LTD.

| CLIENT: Work Order: | Advanced Analysis Inc 2208092 | 2. | | Project | t : | City | of Tohoka | | | | QC S | SUMM | [ARY | REP | ORT |
|------------------------|----------------------------------|---------|------------|---------|------------|--------|-----------|-----|----------------|---------------|------------|---------|-----------------|------------|-------|
| | | | | %R | REC | | | %RI | EC | | Low - Hiah | | | F | ۱PD |
| Analyte | | BLK | SPK value | LCS | LCSD | RPD % | RPD Limit | MS | | | Limit | Parent | DUP | % | Limi |
| Batch ID: BOD5- | 8/24/2022 | TestNa | ame: BOI | D, 5 Da | y, 20°C | | | | | | | | | | |
| Run ID: INCUB | _220824B | Test Co | de: SM52 | 10B | | Units: | mg/L | | Analysis Date: | 8/29/2022 3:4 | 45:00 PM | Prep Da | t e: 8/2 | 4/2022 9:0 | 00:00 |
| Biochemical Oxyger | Demand | <2 | 198 | 90.9% | | | | | | | 69 - 227 | 177.0 | 175.0 | 1.000 | 20.0 |
| Batch ID: PH_W | W-8/25/2022 | TestNa | ame: pH | | | | | | | | | | | | |
| Run ID: PH_W | _220825B | Test Co | ode: SM450 | 00-H+B | | Units: | pH units | | Analysis Date: | 8/25/2022 9:4 | 45:00 AM | Prep Da | t e: 8/2 | 5/2022 9:4 | 10:00 |
| pH at 25 o C | | | 7 | 100.4% | | | | | | | 95 - 105 | 8.3 | 8.4 | 1.000 | 5.0 |

Analysis Date: 8/29/2022 4:35:00 PM

Suspended Solids (Residue, Non-Filterable) <5

Batch ID: TSS_W-8/29/2022

TSS_220829A

Approved by:

Run ID:

Laboratory QC Report Note: The analysis contained in this report applies only to the samples tested and for the exclusive use of the addressed client. Reproduction of this report wholly or in part requires written permission of the client.

Units: mg/L

TestName: TOTAL SUSPENDED SOLIDS

Test Code: SM2540D

Prep Date: 8/29/2022 8:40:00

3.000

20.0

62.0

64.0

| ADVANCED A | NALYSIS, | INC. |
|------------|----------|------|
|------------|----------|------|

3407 Clovis Rd. Lubbock, Texas 79415 P.O. Box 16652 Lubbock, Texas 79490 Tel: (806) 796-2805 Fax : (806) 796-2825

CHAIN OF CUSTODY Page (of)

| | | | | | | | | | | | | | | gamene | | | | Zhichalasha | | Sector Contractory | | - | 56745-542-023 | - | | Not Sumsing | | |
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| Project Manager: R | AYMOND VEGA | | | | | | | BILL | . TC |) | | P | 0#: | | | | | | | | - Shorthurst | | | | | | | |
| Address: 1807 MAIN | N BOX 300 | | | | | | | Con | npa | ny: | | | | | Ţ | OTA | L: | | | | | čeoren | | | and the second se | | - | |
| CITY: TAHOKA | Stat | te: TX | Zł | p: 79 | 373 | | | Atti | 1: | | | | | | - | | | | | | | | | | Party and a second second second second second second second second second second second second second second s | | | Common of |
| Phone #: 806-561-4 | 211 Fax | 样: | | | | | | Add | ires | s:SA | AME | | | | Æ | | | | | | | | | 1 | a. | | | |
| <u>E-mail: TAHOKA</u> | 1915@POKA.COM | **** | | | | | conneuco | City | : | | | | | | N | | ğl | | š | | | | | | B.2 | | | And a second sec |
| Project #: | | | | | | | | Stat | le: | | | 2 | Zip: | | SS / | | \leq | | Ī | | | | | | 223 | | | |
| Project Name: | | | | | | | anana | Pho | ne | 样: | | | | | 2 | | 51 | | | 1 | | | | | 192 | | | |
| Project Location: | | | | | | | ACTINGUES OF | Fax | 群: | | | | | | ß | 3 | Ψ. | ц Ц | ŭļ | Ē | | | | | (SN | . | | |
| | | E E | | | | M | ATR | IX | 5 | AMP | 1 .8 C | HECKS | SAM | PLING | IJ | | 2 | Ð | o o | | | | | | 6 | | | |
| A A # (Lab Use) 2-2080 92-01 | Sample Source Id | GRAB / COMPOSi | BOTTLE SIZE | # CONTAINERS | GROUNDWATER | WASTEWATER | SOIL | SLUDGE | OTHER: AUTHINGTON CONTRACTOR | PRESERVATIVE T YPE: | рН | ACTUAL TEMP FROM SAMPLE [°] C | DATE | TIME | CBOD / BOD/ | TDS / CI / SO4 | TKN / NO ₃ / NO | Alkalinity / Ha | Metals: As Ag B | Volatiles | Semivolatiles | TPH | PCB's | BTEX/MTBE | E.coli enumerati | | ta a a mu du aguna y na na an an an an an an an an an an an | EN KAN DAN DAN DAN DAN DAN DAN DAN DAN DAN D |
| AA29928-1 | CENTER LAGOON | 610 | 000 | 11 | > | 1 | | Τ | | X | [| 4 | 8-23-22 | 10.00 AM | ∇ | Π | 1 | T | Τ | Т | | П | | Т | | | T | |
| , | | 112 | m | | | Ť | iii | Ť | | · | | | 1 | | - | | | ╋ | ╈ | 1 | ╫┤ | H | rth | - | | 1-1 | ╈ | ┱ |
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| | | | | ┢ | - <u> </u> | <u> </u> | | | _ | | | ļ | 1 | | - | | _ | | ╝ | | ╇ | \square | ┝╾┥╟ | | | ЦЦ | ┹ | ┥└┥ |
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| | | | | And and and and and and and and and and a | - | | | | | | | | - | Hard Color | SW2 | | | | Т | I SALARA | | Π | | | | | | |
| | | | | | NICE OF STREET, STREET | 1 | | T | ٦ | | | | | 1 | | Π | T | T | | Т | П | П | T | T | | | Т | |
| Container type: P-Polyethy | lene G-Glass V-VOA Z-Ziplor | ck Bag | | innersentinge / | | | 5 | 1.4 | All sa | imple p | pH's, a | and Tem | peratures are ta | ken at the time | they | are r | eceiv | ed in | ∟the I | abora | itory t | Jy Lat | o Staf | ff | | <u>n</u> A | | |
| Received on Ice | V Yes | N | 0 | | | | | P | rese | rvative | Tvoe: | HNO, = | (N) H ₂ S0, = (| 'S) NaOH = (O |) HC | L = (1 | | CE = | $\widehat{\mathbf{x}}$ | Na-S | | = (ST) |) | Prese | rved i | inon a | | |
| pH paper Lot #: Q/GHSC154 | 4 Thermometer ID: AA-T- | -03 CF= | - 1.0 | \checkmark | | | | P | rese | rvative | Lot N | umber/s |); | | | | - Casero | | | | 2 - J #2992693 | | | | | | | |
| Relinguined B | 8/23/22 | Time: /2<i>02</i> | ז ק | 2 R | eteive | ed By | י: ג≁ | is | R | 25d | ví | çuq | 3 | Notes: | inionese . | | | | | | Shior Traci | aining I king Nu | inform umber: | ation | | | 200 ⁰⁰ 00000000000000000000000000000000 | |
| Selinquished By Rom | drigrez 8/23 | m | 172 | 7) R | eceivo A | ed By | Y: | | | | (| 0 | 0 | PLEASE NOTE claim arasing | : Liai whet | oilities her ba | and ised i | Dama in cor | iges. tract | AA's li or tor | ability | and c I be lir | :lients mited | s exclu to the | sive re amou | medy Int pai | for an d by t ł | γ he |
| Relinquished By: | Date: 1 | rime: | | Ć | edeive A | ed By | · | < q | 3\7 | v5(| $\overline{\mathbb{Q}}$ | 9:10 |) | client for ana shall be deen completion o | It for analysis. All claims including those for neeligence and any other cause whatsoever I be deemed way provides mode in writing and seerved by AA within 30 days after piction of the applicable service. Timp event shall AA be liable for incidental or | | | | | | | | :ver | | | | | |
| Delivered by: (Circle | One) | | \geq | | K | am | ple Co | onditi | ion | | - | Check | ked By: | consequentia | l dam | ages. | inciu Z | ding | Minor | it limi | lation | , busir | ness i | nterru | ptions | loss c | if use, | or |
| UPS - Fed Ex - Bus - U | SPS - Lone Star Overnight | t - Othe | -Self | | $\overline{\mathbf{v}}$ | Ye | Inta | ct No | 0 | | m | | tials) | related to the based upon a | ncur perf ny of | nan The at | Ore ice of nove | nt, it's Eservi stateo | suas ices hi d reas | idiarie ereuni ons oi | s, attil der by r othe | rrates i r AA, n r wise. | or suc egard | less of | rs aris Fwhet | ng out her su | ot or th clair | m is |

ALAMO ANALYTICAL LABORATORIES, LTD.

10526 Gulfdale San Antonio, TX – 78216;

| | | , | |
|-----------|-------------|------------|----------|
| Ph. (210) |) 340-8121; | Fax: (210) | 340-8123 |

Document Control No.: SOP-SAMP-REC Ver.13.1

| Sample Log-In Checklist | | | | | | | | | |
|--|--|-------------------------|-------------|----------------|-------------------|-----------------------|-----------------|----------|---|
| DATE | : 08,25,2022 | - - | ГІМЕ: | _09:4 | t0 | _ | INITIALS:_ | <u></u> | |
| CLIEN 1. | NT: Adv. Analysis Is a Chain of Custody present | <u>s</u> 1 ?? | PROJE | CT: W.O#_ | 220 | 8092 (Yes | No | | |
| 2. | Is a Chain of Custody proper | y compl | eted? | | | Yes | No | | |
| 3. | Are custody seals present? If yes, are they intact? Are they on: Sample | e | C | or o n | Shippi | Yes Yes ng Cont | No No | | |
| 4. | Are all samples tagged or lab <i>If yes</i> , do the labels match the | eled? Chain o | f Custoo | iy? | , | Yes Yes | No No | | |
| 5. | Do all shipping documents ag <i>If not</i> , describe below. | gree (i.e., | number | r of coolers a | arrived ve | s. on ticl Yes | kets) No | N/A | |
| 6. | Are samples preserved proper | ly? If no | ot, descr | ibe below. | (| Yes | No | | |
| 7. 8. | Are all samples within holdin If not, describe below. Condition of shipping contair | g times o her: Intac | on arriva | 11? or | | Yes | No | | and and the second second second second second second second second second second second second second second s Second second second second second second second second second second second second second second second second s Second second second second second second second second second second second second second second second second s |
| 9. | Condition of samples: | Intac | t | or | | | | | · · · · |
| 10. | Temperature of samples: Temp. (°C): 38 Corrected Temp. (°C): 3.8 Thermometer ID : DT1) or L2 | | | | | | | | |
| 11. | pH strip lot#: | San | nples ou | t of pH rang | ge: | | | | |
| 12. | Delivery agent: Client Ul | PS | Fed-Ex_ | Lone S | star | Alamo F | P/U Oth | er | |
| 13. | Sample disposal: Return | to client | | Alaı | no A n aly | tical Di | sposal | | |
| 14. | Location. WI Walk-In Cooler)/ | F2 (Freez | zer 2 for] | ГРН 1005 Soil | s))/ R1 (R | efrigerato | r 1 for TPH & V | OC water | r) |
| <u>Comn</u> (| nents: (Reference checklist | item nu | mber fi | rom above, | or for co | ommen | ts on resolut | ion belo | w): |
| Record of contacting client for resolution of sample discrepancies (first and retry contact) Contacted How? | | | | | | | | | |
| Name: | | Phone | Fax | Date: | | Time | 2. | | |
| Name: | | Phone | Han Fax | Date: | | Time | ·· | | |

ALAMO ANALYTICAL LABORATORIES, LTD.

REPORT NARRATIVE



Main: 10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121 . Fax. (210) 340-8123

| Mario Rodriguez | | | | | |
|-------------------------|-------------------------------------|--|--|--|--|
| Advanced Analysis Inc. | | | | | |
| P.O Box 16652 | | | | | |
| Lubbock , Texas - 79490 | | | | | |
| TEL: (806) 796-2805 | Email: <u>rodriguezaa@yahoo.com</u> | | | | |
| FAX: (806) 796-2825 | | | | | |
| FAA. (000) 790-2025 | | | | | |

RE: City of Tahoka Dear Mario Rodriguez:

Order No.: 2209095

9/30/2022

Enclosed please find the analytical report for the sample/s received on 9/23/2022.

SAMPLE RECEIPT: Samples were received intact and with chain of custody documentation. HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the Sample Acceptance Policy unless otherwise noted in the report.

COMMENTS: No significant observations were made.

If you have any questions regarding these test results call (210) 340-8121.

Thank you,

Reddy Gosala, Ph.D Laboratory Director

Report of Laboratory Analysis

Note: The analysis contained in this report applies only to the samples tested and for the exclusive use of the addressed client. Reproduction of this report wholly or in part requires written permission of the client.
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|-----------------|-----------------|------|
|-----------------|-----------------|------|



| | | A | nalytical Resu | ılts Report | | | |
|--------------------------------------|------------------------------|--------|---------------------|--|-----------------------|---------------------------|----------------|
| Client: Lab Order: Project ID: | Advanced Analysis 2209095 | s Inc. | | Collection Date: Matrix: Lab ID: | 9/22/2 WAT 2209 | 2022 10 ÈER 095-01A | :00:00 AM |
| Project Name: | City of Tahoka | | | | | | |
| <u>Client Sample I</u> | D: Center Lagoon | | | | | | |
| Analyses | | Result | Report Limit | Units | Dil | ution | Date Analyzed |
| TOTAL SUSPEN | IDED SOLIDS | | | SM2540D | | Anal | yst: SM |
| Suspended S Filterable) | olids (Residue, Non- | 79 | 5 | mg/L | 1 | 26- | Sep-22 |
| PH | | | | SM4500-H+B | | Anal | yst: YK |
| pH at 25 o C | | 8.8 | 0.1 | pH units | 1 | 22- | Sep-22 |
| BOD, 5 DAY, 20 | °C | | | SM5210B | | Anal | yst: AM |
| Biochemical (| Oxygen Demand | 64.8 | 2 | mg/L | 1 | 28- | Sep-22 |

beredity

Approved by: Reddy Gosala, Laboratory Direc

Report of Laboratory Analysis

| CLIEN Work O | T: Drder: | Advanced Analysis In 2209095 | IC. | Project: | City | y of Tahoka | | | QC | SUMN | IAR | Y REP | ORT |
|-----------------|--------------|------------------------------|------------|-----------------|----------|-------------|-----|----------------|----------------------|---------|----------------|--------------|--------|
| | | | | %REC | | | %RE | C | Low - High | | | F | RPD |
| Analyte | | | BLK SPI | Value LCS | | | MS | | Limit | Parent | DUP | % | Limi |
| Batch ID: | BOD5-9 | /23/2022 | TestName | : BOD, 5 Day, 2 | 20°C | | | | | | | | |
| Run ID: | INCUB_ | 220923B | Test Code: | SM5210B | Units: | mg/L | | Analysis Date: | 9/28/2022 3:20:00 PM | Prep Da | a te: 9 | /23/2022 10 | :00:00 |
| Biochemica | al Oxygen | Demand | <2 19 | 90.9% | | | | | 69 - 227 | 64.8 | 65.2 | 1.000 | 20.0 |
| Batch ID: | PH_WW | /-9/23/2022 | TestName | : pH | | | | | | | | | |
| Run ID: | PH_W_ | 220923A | Test Code: | SM4500-H+B | Units: | pH units | | Analysis Date: | 9/22/2022 9:35:00 AM | Prep Da | ate: 9 | /23/2022 9:3 | 35:00 |
| pH at 25 o | С | | 7 | 7 100.1% | | | | | 95 - 105 | 8.8 | 8.8 | 0.000 | 5.0 |
| Batch ID: | TSS_W | -9/26/2022 | TestName | : TOTAL SUSP | ENDED SC | DLIDS | | | | | | | |
| Run ID: | TSS_22 | 0926A | Test Code: | SM2540D | Units: | mg/L | | Analysis Date: | 9/26/2022 3:55:00 PM | Prep Da | ate: 9 | /26/2022 9:0 | 00:00 |
| Suspended | d Solids (R | esidue, Non-Filterable) | <5 | | | | | | | 79.0 | 78.0 | 1.000 | 20.0 |

peredity

Approved by: Note: The analysis contained in this report applies only to the samples tested and for the exclusive use of the addressed client. Reproduction of this report wholly or in part requires written permission of the client.

| 3407 Clovis Rd 794 | ADVANCED ANALYSI . Lubbock, Texas 79415 P.O. Bo 190 Tel: (806) 796-2805 Fax : (80 | S, II >x 166 06) 79 | NC. 552 Lubbo 96-2825 | ock, | Теха | S | | | | | | | | | , | (| CHA | IN | OF | CL | IST | OD | Y | Pag | ;e | 1 | <u> </u> | of | :] | |
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| Project Manager: R | AYMOND VEGA | | | | | | | | 811 | | 0 | | PC |)#: | | | CLP | _ | | | | | | | | | | | | |
| Address: 1807 MAIN | 1 BOX 300 | | | | | | | | Co | mp | any: | : | | | | T(| OTAL | | | | | | | | | | | | | |
| Dhana # 906 561 4 | | <u>e: </u> | <u>X 41</u> | p: | <u>793</u> | 73 | | | At | tn: | | | | | | | | | | | | | | | | 1 | | | | |
| Phone #: 000-301-44 | | ₩: | | | | | | | Ad | dre | ess: SA | ME | | | | Þ | | اہ | | | | | | | | | 19. | | | |
| Project # | 1915(QPUKA.CUM | | | | | | | | Cit | <u> </u> | | | | | | R | | 8 | | 8 S | | | | | | 1 | 8 | | | |
| Project #: | | | | | | | |] | 516 | ite: | | | L | lip: | | /SS | | 2 | | 흐. | <u>_</u> | | | | | | 22 | | | |
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| | | SITE | | | | ~ | IVIA | 418 | | | SAIVIP | LEL | MECKS | SAIVI | PLING | Z | 4 | 2 | ard | Ba | | | | | | | ē | | | |
| A A # (Lab Use) | Sample Source Id | AB / COMPO | UTTLE SIZE | CONTAINERS | ITTLE TYPE | OUNDWATEF | ASTEWATER | I. | JDGE | HER: | ESERVATIVE E: | | iual temp M sample°c | | | op (Bob) | is / ci / sc | N / NO ₃ / N | calinity / H | etals: As Ag | / Ca / Mg | latiles mirrolatilor | MIVOIAUICS | B's | EX/MTBE | U | oli enumera | | | |
| 220404501 | | ō | BC | # | B | 5 | ≷∣ | ŝ | SLI | 5 | PRI TYP | pH | ACI | DATE | TIME | 8 | Æ | Ě | ₹ | Σİ | ž : | \$ 3 | 86 | : 6 | B I | 6 | ы | | | |
| AA29972-) | CENTER LAGOON | 6 | 1000 | 11 | 2 | | ィ | | | | $\boldsymbol{\times}$ | | 4 | 9/22/22 | 10;00 am | Μ | | | | Т | T | T | Т | Τ | Т | Π | Π | П | I | Т |
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| Container type: P-Polyethy | lene G-Glass /V-VOA Z-Ziploc | k Bag |] | finance of | and the second | | | | | *Ali | sample r | H's.a | ind Tem | eratures are ta | ken at the time | thev | are re | eceiv | ved in | the | labo | raton | v bv l | ab S | taff | <u>11</u> | <u>H</u> | | | |
| Received on Ice | TYes T | | No | | / | 2 (a - a - a - a - a - a - a - a - a - a | | | | Pres | Servative | Type | HNO ₂ = | (N) H ₂ S0, = (| (S) NaOH = (O |) HC | | -1)(1 | EE = | (X)_ | Na. | -5-0 | . = (< | (T) | 1 Pr | 2500 | and u | | rrival | |
| pH paper Lot #: Q/GHSC1544 | 4 Thermometer ID: AA-T-(|)3 C | CF = 1.0 | 7 | lauros | 1440) (March | | | | Pres | ervative | Lot N | umber/e | ···/ ··2004 (| | | | | | می می می می اور این اور اور اور اور اور اور اور اور اور اور | | 5200 | | - / | L | | | | | |
| Relingy shed By: | Date: T 9/22/22 | ime: | 00 | r | Rec | eived | By: | いて | ـــــ ک | 6 | Ro | 3 | | · | Notes: | ang daab maray | a hada a jiba | 32607 E 36 | and a financial | | | Sh Tra | ippinir acking | ig Info Numb | rmatic ier: | on | | | | |
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| Delivered by: (Circle (| Dne) | | | 7 | 7 | - 6 | imp | le C | ondi | ition | | | Checl | ed By: | consequentia | Hapit | aget, l | ineru | iding | withc | out lir | nitatio | on, bi | Isines | is inte | rrupt | ions, | loss of | f use, c | or |
| UPS - Fed Ex - Bus - US | iPS - Lone Star Overnight | - Ot | her-Sel | e) | | 1 | Yes | | ct | No | | m | ∕ (Ini | tials) | related to the based upon a | ncur perfo | red by orman the at | y clie ice o pove | f serv state | s sub ices l d rea | sidiai hereu sons | ies, a nder or oth | hinate by AA herwi | ±s or : 1, rega se. | succe ardles | ssors s of v | wheth | g out er suci | or or h clain | n is |

WHITE - AA COPY YELLOW - CUSTOMER

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Document Control No.: SOP-SAMP-REC Ver.13.1

| | <u> </u> | Sample Log | g-In Checkli | <u>st</u> | | |
|--------------------------|---|-----------------------------|-------------------------------|------------------------------|----------------------|---|
| DATE | : 09 1731 2022 | TIME: | 09:15 | | IALS: | YK |
| CLIEN 1. | NT: Adv. Analysiss Is a Chain of Custody present? | PROJEC | г: W.O# <u>220</u> | 9093 to 2 | <u>.20</u> 90' No | 75 |
| 2. | Is a Chain of Custody properly c | ompleted? | | Yes | No | |
| 3. | Are custody seals present? If yes, are they intact? Are they on: Sample | or | on Shipj | Yes Yes ping Container | No | |
| 4. | Are all samples tagged or labeled <i>If yes</i> , do the labels match the Ch | 1? ain of Custody | ? | (Ves) (Yes) | No No | |
| 5. | Do all shipping documents agree <i>If not</i> , describe below. | (i.e., number o | f coolers arrived | vs. on tickets) Yes | No | N/A |
| 6. | Are samples preserved properly? | If not, describ | e below. | Yes | No | |
| 7. | Are all samples within holding ti If not, describe below. | mes on arrival? | 9 | Yes | No | |
| 8. | Condition of snipping container: | Intact or | | | | · · · · · · · · · · · · · · · · · · · |
| 9. | Condition of samples: | Intact or | | | | |
| 10. | Temperature of samples: Temp. (| (°C): <u>38</u> Cor | rected Temp. (⁰ C |): <u>3·8</u> Therm | ometer I | $D: \underbrace{\mathbf{DT1}}_{\text{or } \mathbf{L2}}$ |
| 11. | pH strip lot#: <u>B0759</u> | Samples out o | of pH range: | y | | |
| 12. | Delivery agent: Client UPS | Fed-Ex_ | /Lone Star | _Alamo P/U | _ Other | • |
| 13. | Sample disposal: Return to c | elient | Alamo Ana | lytical Disposal | \checkmark | |
| 14. | Location: WI Walk-In Cooler)/ F2 | (Freezer 2 for TP | H 1005 Soils))/ R1 (| Refrigerator 1 for | TPH & VO | DC water) |
| <u>Comn</u> (iq 22 | nents: (Reference checklist ite Jid 19093 DI NO Sam | m number fro Ple. Rocei | m above, or for | comments on i | resolutio | on below): |
| | Record of contacting client f | for resolution of Contac | sample discrepar ted How? | ncies (first and re | etry cont | act) |

| Name: | Phone | Fax | Date: | 1 | 1 | Time: | |
|-------|-------|------|-------|----------|---|-------|--|
| Name: | Phone | _Fax | Date: | <u> </u> | / | Time: | |



Main: 10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121 . Fax. (210) 340-8123

REPORT NARRATIVE

| Mario Rodriguez | |
|-------------------------|------------------------------|
| Advanced Analysis Inc. | |
| P.O Box 16652 | |
| ∟ubbock , Texas - 79490 | |
| TEL: (806) 796-2805 | Email: rodriguezaa@yahoo.com |
| FAX: (806) 796-2825 | |
| | |

RE: City of Tahoka Dear Mario Rodriguez:

Order No.: 2210096

11/2/2022

Enclosed please find the analytical report for the sample/s received on 10/21/2022.

SAMPLE RECEIPT: Samples were received intact and with chain of custody documentation. HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the Sample Acceptance Policy unless otherwise noted in the report.

If you have any questions regarding these test results call (210) 340-8121.

Thank you,

Reddy Gosala, Ph.D Laboratory Director

Report of Laboratory Analysis

Note: The analysis contained in this report applies only to the samples tested and for the exclusive use of the addressed client. Reproduction of this report wholly or in part requires written permission of the client.



Analytical Results Report

| CLIENT: | Advanced Analysis Inc. | Project: | City of Tahoka |
|------------|------------------------|----------|----------------|
| Lab Order: | 2210096 | | |

| Alamo Lab ID Client ID | Collection Date | Analyses | Matrix | Result | MDL | PQL | Units | DF Qua |
|----------------------------------|------------------------|------------------|-------------------------|---------------|-----|-------|----------|--------|
| TestName: pH | TestNo: | SM4500-H+B | Date Analyzed 10/21/202 | 22 10:20:00 A | | Initi | als: YK | |
| 2210096-01A Center Lagoon | 10/19/2022 10:00:00 AM | pH at 25 o C | Water | 8 0. | .04 | 0.1 | pH units | 1 |
| TestName: TOTAL SUSPENDED SOLIDS | TestNo: | SM2540D | Date Analyzed 10/24/202 | 22 3:55:00 PM | | Initi | als: SM | |
| 2210096-01A Center Lagoon | 10/19/2022 10:00:00 AM | Suspended Solids | s (Residue, No Water | 62 2. | .11 | 5 | mg/L | 1 |
| TestName: BOD, 5 Day, 20°C | TestNo: | SM5210B | Date Analyzed 10/26/202 | 22 3:55:00 PM | | Initi | als: AM | |
| 2210096-01A Center Lagoon | 10/19/2022 10:00:00 AM | Biochemical Oxyg | en Demand Water | 58.2 0. | .65 | 2 | mg/L | 1 |

beredy

H Holding times for preparation or analysis exceeded; J - Analyte detected below quantitation limits * Non-NELAP Standards ** Sub Contracted

Approved by: Reddy Gosala, Laboratory Direc Report of Laboratory Analysis
Note: The analysis contained in this report applies only to the samples tested and for the exclusive use of the addressed client. Reproduction of this report wholly or in part requires written permission of the client.

| CLIEN | F: Advanced Ana | lysis Inc. | | ~ | | | | QC S | SUMM | [AR] | Y REP | ORT |
|------------|---------------------------------|----------------|-----------|-----------|--------------|-----|----------------|------------------------|---------|----------------|-------------|--------|
| Work () | Order: 2210096 | | Project: | Ci | ty of Tahoka | | | | | | | |
| | | | %RI | EC | | %RE | EC | Low - High | | | F | ۲PD |
| Analyte | | BLK SPK valu | e LCS | LCSD RPD | % RPD Limit | MS | | Limit | Parent | DUP | % | Limi |
| Batch ID: | BOD5-10/21/2022 | TestName: B | DD, 5 Day | , 20°C | | | | | | | | |
| Run ID: | INCUB_221021A | Test Code: SM5 | 210B | Units | : mg/L | | Analysis Date: | 10/26/2022 3:55:00 PM | Prep Da | i te: 1 | 0/21/2022 9 | :55:00 |
| Biochemica | al Oxygen Demand | <2 198 | 89.9% | | | | | 69 - 227 | 58.2 | 56.4 | 3.000 | 20.0 |
| Batch ID: | PH_WW-10/21/2022 | TestName: pH | [| | | | | | | | | |
| Run ID: | PH_W_221021A | Test Code: SM4 | 500-H+B | Units | : pH units | | Analysis Date: | 10/21/2022 10:20:00 AM | Prep Da | i te: 1 | 0/21/2022 1 | 0:20:0 |
| pH at 25 o | С | 7 | 100.4% | | | | | 95 - 105 | 8.0 | 8.1 | 1.000 | 5.0 |
| Batch ID: | TSS_W-10/24/2022 | TestName: T(| DTAL SUS | SPENDED S | OLIDS | | | | | | | |
| Run ID: | TSS_221024A | Test Code: SM2 | 540D | Units | : mg/L | | Analysis Date: | 10/24/2022 3:55:00 PM | Prep Da | i te: 1 | 0/24/2022 8 | :35:00 |
| Suspended | d Solids (Residue, Non-Filterat | ble) <5 | | | | | | | 226.0 | 222.0 | 2.000 | 20.0 |

peredity

Approved by: Note: The analysis contained in this report applies only to the samples tested and for the exclusive use of the addressed client. Reproduction of this report wholly or in part requires written permission of the client.

| 3407 Clovis Ro 794 | ADVANCED ANALYSI 1. Lubbock, Texas 79415 P.O. Bo 490 Tel: (806) 796-2805 Fax : (8 | IS, II ox 166 06) 79 | NC. 52 Lubb 6-2825 | ock, | Теха | IS | | | | | | | | | | C | CHA | NN 1 | OF | CL | JST | OD | Y | Pa | ge | | (| of | _1 | ł . |
|---|---|----------------------------|--------------------------|--------------|-------------|-------------------------|-------------|---------------|------------|----------------------|---------------------|---------|------------------------------|----------------------|---|-------------------------|------------------------------|-------------------------------|------------------|--------------------------|--------------------------|---------------------------|---------------------------|--------------------------|-----------------------------|----------------------------|--------------------------|---------------------------------|----------------------------|-----------------|
| Company Name: Cl | TY OF TAHOKA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Manager: R | AYMOND VEGA | | | | | | | T | BIL | LT | 0 | | P |) #: | | Т | CLP | : [| T | T | | | | Т | Т | Т | Τ | | T | \Box |
| Address: 1807 MAIN | N BOX 300 | | | | | | | T | Col | mp | any: | | | | | T | DTA | L: | | | | | | | | | | | | |
| City: TAHOKA | Stat | e: T | X Zi | ip: | 793 | 73 | | Т | Att | :n: | | 1 | | | | Π | | | Т | Γ | Т | Τ | | | | | | | | |
| Phone #: 806-561-4 | 211 Fax | 荐: | | | | | | T | Ad | dre | ess: SA | ١ME | | | | F | | | | | | | | | | | 9 | | | |
| E - mail : TAHOKA | 1915@POKA.COM | | | | | | | | Cit | Y: | | | | | | Ē | / | ğ | | Š | | | | | | | 6 | | | |
| Project #: | | | | | | | | | Sta | te: | ; | | 4 | Zip: | | છે | | 2 | | Ī | | | | | | | 23 | | | |
| Project Name: | | | | | | | | | Phe | one | e #: | | | | | 2 | | 5 | | | ₹ | | | | | | 65 | | | |
| Project Location: | | | | | | | | | Fax | (#: | | | | | | ŝ | 8 | E. | 1 | <u>s</u> | ¥. | | | | | | 5 | | | |
| | | ΤE | | Т | I | | MA | ١TR | IX | | SAMF | PLEC | HECKS | SAM | PLING | JF | 2 | 2 | 2 | e l | | | | | | | io | | | |
| A A # (Lab Use) 2-2-1 () へ96-7 | Sample Source Id | GRAB / COMPOSI | 30TTLE SIZE | # CONTAINERS | ΒΟΤΤΙΕ ΤΥΡΕ | BROUNDWATER | NASTEWATER | 011 | ILUDGE | DTHER: | reservative YPe: | ¥ | ACTUAL TEMP ROM SAMPLE °C | DATE | TIME | cBOD / (BOD) | TDS / CI 7 SO4 | TKN / NO ₃ / NO | Alkalinity / Ha | Metals: As Ag B | Na / Ca / Mg | Volatiles | Semivolatiles | IPH Drb1- | RTEX/MTRF | FOG | E.coli enumerat | | | |
| 1498-200019 | | F | | t- | 5 | H | Ś | | <u> </u> | Ť | | | a | 10/10/22 | 10.00am | 17 | \leftarrow | T | Ì | + | T | T | T | 1 | ╈ | ╈ | Ť | T | Ť | T |
| ATTE SUUL | CENTER LAGOON | P2 | 200 | \mathbf{P} | ₽ | ┝┥ | ÷ | - | ᅾ | _ | | | | 21 | 10.00am | ť | | | -1 | ╺╢ | | ╈ | ┥ | ╋ | ╺╢ー | ╋ | ╋ | -+- | | - |
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| | | | | Į | L | | | | | | | | | <u> </u> | | | | | _ | _ | | | | + | ┥ | | | | ┛ | |
| | | | | | | | | | | | | | L | | | | | | | | | | | | L | 1 | | | L | |
| | | | | | | | I | | | | | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | _ | _ | | | | | | | | \square | | | -+ | ┥ | - | _ | | ╇ | ┥┥┥╸ | ╇ | | | ╋ | <u> </u> |
| | | | | Ļ | | | | | | | | | ļ | L | | | | | _ | _ | 4.74 | _ | _ | _ | ┛ | 4_ | | ┝┻╋ | ┻ | |
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| | | | | | | | | | | | | | | | | | | | | | | | | | | L | | | L | |
| Container type: P-Polyethy | lene G-Glass V-VOA Z-Ziploc | :k Bag | 1 | | | | | | J | *All | sample p | oH's, a | and Tem | peratures are ta | ken at the time | they | are r | eceiv | ed ir | the | labo | rator | y by | Lab | Staff | | | | | Contractor Pro- |
| Received on Ice | Yes | | No | | | | _ | | | Pres | servative | Туре | HNO3 = | $= (N) H_2 SO_4 = ($ | S) NaOH = (O |) HC | _ = (l | HYIC | Έ= | QR) | Na ₂ | -S ₂ O | 3 = (| ST) | Pr | eserv | ved u | pon ar | rival | M |
| pH paper Lot #: Q/GHSC154 | 4 Thermometer ID: AA-T- | 03 C | :F = 1.0 | | | $\overline{\mathbf{v}}$ | | | | Pres | servative | Lot N | umber(s | ;); | | | | | | | | | | | | | | | | |
| Relinguished Br. | Date: T | ime: / ' :9 | p an | | Rec | eivec | i By: | ım | ų | G | D G | 10 |).19- | 22 11:00 | Notes: | | | | | | | St Tr | nippin ackinį | ing Inf g Nurr | ormati ber: | on | | | | 1 |
| Relinquished BA: | pate: T 10/19/22 | ime: //:3 | 7om | | Rec | eivec | l By: | | | | | į | | | PLEASE NOTE claim arasing client for ana | : Liab whet Ivsis | ilities her ba All cla | i and I ased ii aims ii | Dama n cor | iges. Itraci | AA's | art, si | ity an al to eglige | ndeij e limi ence | ted to and a | clusi the the the | ive re amou her ca | medy f nt paid use wh | or any by the atsoev | er |
| Relinquished By: Maria Ra | Stigues 1/15 | ime: | יברו. יירו | 30 (| Rec | aivec | i By: | Z | <u>_</u> | 4 | 2/2/ | V | Q | 0950 | shall be deen completion o | ned wa | | unles able s | ervic | àe R. In Withr | writi no e out lir | ing ar vent nitati | id ree shall on h | eive AA b usine | l by A e liabl ss int | A witi e for i errun | hin 30 incide |) days a intal or loss of | fter use. o | r |
| Delivered by: (Circle UPS - Fed Ex - Bus - U | One) () Ø SPS - Lone Star Overnight | - Ot | her-gel | F | | 5 | ampl Yes | le Co Inta | ondi ct | iti d a No | - | | | ked By: itials) | loss of profits related to the based upon a | incun perfo | red b irmar the al | y clier nce of bove s | it, it's serv | s sub ices l d rea | sidiai iereu sons | ries, a inder or ot | ffilia by A herw | tes oi A, reg ise. | succi ardle | essors ss of v | s arisi wheti | ng out Ier sucl | of or n claim | is |

WHITE - AA COPY YELLOW - CUSTOMER

-

10526 Gulfdale San Antonio, TX – 78216; Ph. (210) 340-8121; Fax: (210) 340-8123

Document Control No.: SOP-SAMP-REC Ver.13.1

| | Sample Log-In Checklist | |
|-------------|--|-----------|
| DATE | : 10/21/2022 TIME: 10:05 INITIALS: V/k | |
| CLIEN 1. | Is a Chain of Custody present? PROJECT: W.O# 2210096 & 2210097 No | |
| 2. | Is a Chain of Custody properly completed? (Yes) No | |
| 3. | Are custody seals present? Yes If yes, are they intact? Yes Are they on: Sample or on Shipping Container | |
| 4. | Are all samples tagged or labeled?YesNoIf yes, do the labels match the Chain of Custody?YesNo | |
| 5. | Do all shipping documents agree (i.e., number of coolers arrived vs. on tickets) If not, describe below. Yes No N/A | |
| 6. | Are samples preserved properly? If not, describe below. (Yes) No | |
| 7. 8. | Are all samples within holding times on arrival? Yes No If not, describe below. Or | |
| 9. | Condition of samples: Intact or | |
| 10. | Temperature of samples: Temp. (°C): $4^{\circ}6$ Corrected Temp. (°C): $4^{\circ}6$ Thermometer ID (DT1) or | <u>L2</u> |
| 11. | pH strip lot#: <u>B0756</u> Samples out of pH range: | |
| 12. | Delivery agent: Client UPS Fed-Ex Lone Star Alamo P/U Other | |
| 13. | Sample disposal: Return to client Alamo Analytical Disposal | <u> </u> |
| 14. | Location: WI (Walk-In Cooler)/ F2 (Freezer 2 for TPH 1005 Soils))/ R1(Refrigerator 1 for TPH & VOC water) | |
| <u>Comr</u> | nents: (Reference checklist item number from above, or for comments on resolution below): | |
| | <u>Record of contacting client for resolution of sample discrepancies (first and retry contact)</u> <u>Contacted How?</u> | |

| Name: | Phone _ | Fax | Date: | //Time: |
|-------|---------|-----|-------|----------|
| Name: | Phone _ | Fax | Date: | / /Time: |

| Q | | | AL LAB | ORATORIES | , LTD. | Date: | 05-Dec-22 |
|-----------------------|--|-----------------------------------|--------|---------------------|--|---------------------------------------|---------------------------|
| Y | | | А | nalytical Resu | ilts Report | | |
| Clier Lab Proje | nt: Order: ect ID: | Advanced Analysis 2211125 | s Inc. | | Collection Date: Matrix: Lab ID: | 11/22/2022 1 LIQUID 2211125-01A | 0:00:00 AM |
| Proje <u>Clier</u> | ect Name: 1t Sample ID | City of Tahoka Center Lagoon | | | | | |
| Ana | lyses | | Result | Report Limit | Units | Dilution | Date Analyzed |
| тот/ | AL SUSPEND Suspended Sol Filterable) | DED SOLIDS lids (Residue, Non- | 82 | 5 | SM2540D mg/L | Anal 1 28-1 | yst: Y K Nov-22 |
| PH | pH at 25 o C | | 7.4 | 0.1 | SM4500-H+B pH units | Anal 1 23-l | yst: YK Nov-22 |
| BOD | , 5 DAY, 20°(Biochemical O | C Aygen Demand | 62.5 | 2 | SM5210B mg/L | Anal 1 28-1 | yst: AM Nov-22 |

Date: 05-Dec-22



Main: 10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121 . Fax. (210) 340-8123

REPORT NARRATIVE

| Mario Rodriguez | |
|-------------------------|-------------------------------------|
| Advanced Analysis Inc. | |
| P.O Box 16652 | |
| Lubbock , Texas - 79490 | |
| TEL: (806) 796-2805 | Email: <u>rodriguezaa@yahoo.com</u> |
| FAX: (806) 796-2825 | |
| | |

RE: City of Tehoka Dear Mario Rodriguez:

Order No.: 2212092

1/3/2023

Enclosed please find the analytical report for the sample/s received on 12/21/2022.

SAMPLE RECEIPT: Samples were received intact and with chain of custody documentation. HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the Sample Acceptance Policy unless otherwise noted in the report.

If you have any questions regarding these test results call (210) 340-8121.

Thank you,

Reddy Gosala, Ph.D Laboratory Director

Report of Laboratory Analysis

Note: The analysis contained in this report applies only to the samples tested and for the exclusive use of the addressed client. Reproduction of this report wholly or in part requires written permission of the client.



Analytical Results Report

| CLIENT: | Advanced Analysis Inc. | Project: | City of Tehoka |
|------------|------------------------|----------|----------------|
| Lab Order: | 2212092 | | - |

| Alamo Lab ID Client ID | Collection Date | Analyses | Matrix | Result | MDL | PQL | Units | DF Qua |
|----------------------------------|------------------------|------------------|-------------------------|---------------|------|-------|----------|--------|
| TestName: pH | TestNo: | SM4500-H+B | Date Analyzed 12/21/202 | 22 10:00:00 A | | Initi | als: YK | |
| 2212092-01A Center Lagoon | 12/19/2022 10:00:00 AM | pH at 25 o C | Water | 8 (| 0.04 | 0.1 | pH units | 1 |
| TestName: TOTAL SUSPENDED SOLIDS | TestNo: | SM2540D | Date Analyzed 12/23/202 | 2 4:00:00 PM | | Initi | als: YK | |
| 2212092-01A Center Lagoon | 12/19/2022 10:00:00 AM | Suspended Solids | (Residue, No Water | 86 2 | 2.11 | 5 | mg/L | 1 |
| TestName: BOD, 5 Day, 20°C | TestNo: | SM5210B | Date Analyzed 12/26/202 | 2 3:10:00 PM | | Initi | als: AM | |
| 2212092-01A Center Lagoon | 12/19/2022 10:00:00 AM | Biochemical Oxyg | en Demand Water | 63.6 (|).65 | 2 | mg/L | 1 |

beredy

H Holding times for preparation or analysis exceeded; J - Analyte detected below quantitation limits * Non-NELAP Standards ** Sub Contracted

Approved by: Reddy Gosala, Laboratory Direc Report of Laboratory Analysis
Note: The analysis contained in this report applies only to the samples tested and for the exclusive use of the addressed client. Reproduction of this report wholly or in part requires written permission of the client.

CLIENT: Advanced Analysis Inc. **QC SUMMARY REPORT** Work Order: 2212092 **Project:** City of Tehoka %REC %REC RPD Low - High Limit Limi SPK value LCS MS Parent DUP % Analyte BLK BOD5-12/21/2022 Batch ID: **TestName:** BOD, 5 Day, 20°C INCUB_221221A Test Code: SM5210B Units: mg/L Analysis Date: 12/26/2022 3:10:00 PM Prep Date: 12/21/2022 9:30:00 Run ID: **Biochemical Oxygen Demand** 198 90.4% <2 69 - 227 60.4 61.6 2.000 20.0 Batch ID: PH_WW-12/21/2022 TestName: pH Run ID: PH_W_221221A Test Code: SM4500-H+B Units: pH units Analysis Date: 12/21/2022 10:00:00 AM Prep Date: 12/21/2022 10:00:0 pH at 25 o C 7 99.9% 95 - 105 8.0 8.0 0.000 5.0 Batch ID: TSS_W-12/23/2022 TestName: TOTAL SUSPENDED SOLIDS Run ID: TSS_221223A Test Code: SM2540D Units: mg/L Analysis Date: 12/23/2022 4:00:00 PM Prep Date: 12/23/2022 9:30:00 Suspended Solids (Residue, Non-Filterable) <5 30.0 29.0 3.000 20.0

Laboratory QC Report Note: The analysis contained in this report applies only to the samples tested and for the exclusive use of the addressed client. Reproduction of this report wholly or in part requires written permission of the client.

| 3407 Clovis Ro 794 | ADVANCED ANALYSI d. Lubbock, Texas 79415 P.O. Bo 490 Tel: (806) 796-2805 Fax : (80 | S, I x 166 06) 79 | NC. 552 Lubb 96-2825 | ock, | Texa | IS | | | | | | | | | | C | НA | IN | OF | cu | ST | OD' | Y | Pag | ;e | | 1 | 0 | f | 1 |
|---|--|--------------------------------|----------------------------|------------|-------------|--|-----------|----------|----------|-----------|---------------------|---------------------------------------|----------------------------|-------------------|---|------------------------|-----------------------------|---------------------------|---|-----------------------|---|--------------------------------------|---------------------------------------|----------------------------------|---------------------------|-------------------------|--|----------------------------|---|---|
| Company Name: Cl | TY OF TAHOKA | | | | | | | | | 1997 a.e. | No. of the Party of | the proceeding of | | | ármanga saga danig di gala antar Cirine Cirine Cirine Cirine Cirine Cirine Cirine Cirine Cirine Cirine Cirine C | | | | ana ang ang ang ang ang ang ang ang ang | | | | anaiseana Marina | | | nonen nyininin | | | and a second second | anicana Matana |
| Project Manager: R | AYMOND VEGA | | | | | | | | BILI | . T(| 0 | | PC |)#: | | T T | CLP: | 4 | | _ | ╇ | ╇ | _ | | | | | | | |
| Address: 1807 MAI | N BOX 300 | | | | | | | | Con | npa | any: | | | | | T | DTAL | | | _ | | | 1 | | | | | | | |
| City: TAHOKA | Stat | e: T | <u>X Zi</u> | ip: | 7 <u>93</u> | 73 | | | Atti | 1: | | · · · · · · · · · · · · · · · · · · · | <u> </u> | <u></u> | | | | | | | | | | | | | | | | |
| Phone #: 806-561-4 | 211 Fax | <u>#:</u> | | | | | | | Adc | ire | SS: | | ×14 | $\eta \psi$ | | E | | | | | | | | | | | 9.2 | | | |
| E - mail : TAHOKA | 1915@POKA.COM | | | | | | | | City | r:S | AME | | μ_{1} | | | ろ | | 8 | | 20 | | | | | | | 8 | | | |
| Project #: | | | | | | | | | Stat | e: | | | Z | lip: | | ŝ | ľ | à | | 5. | | | | | | | 52 | | | |
| Project Name: | ······ | | | | | | | | Pho | ne | 谷: | , í | | | | Ľ | ŀ | 51 | | 515 | 5 | | | | | | 1 2 | | | |
| Project Location: | | | | | | | | | Fax | ₩: | 1 | | | | | 3 | ы Ш | Ξŀ | 213 | :13 | | | | | | | S | | | |
| | | ΤE | | | | | MA | ١TR | IX | | SAMP | LE CI | HECKS | SAM | PLING | M | | 2 | 2 | | | | | | | | Ö | | | |
| A A # (Lab Use) フク 1 フ <i>ロ</i> ヨフ - | Sample Source Id | SRAB / COMPOSI | ottle size | CONTAINERS | OTTLE TYPE | ROUNDWATER | ASTEWATER | 01. | LUDGE | THER: | RESERVATIVE 'PE: | H | ctual temp Iom Sample°C | DATE | тіме | BOD (BOD) | DS / CI / SO | KN / NO ₃ / NO | Vikalinity / Ha | Netals. As AS | va / va / ivig Valatilae | /Uldlics Amivolatijes | effit/Ulduics | cB's | STEX/MTBE | .90 | .coli enumerat | | | |
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| sceived on Ice | | | | L. | <u> </u> | | | | | Tes | ervative | iype: | | (IN) 172304 = 1 | 3) Naun - (U) | | L (ľ | UC R | | 2 | 14212-4 | 32U3 | ;-(3 |) 1) | | 538IV | ea at | Sector Sector | 111768 | Ļ |
| t paper ot #: Q/GHSC154 | 4 I I nermometer ID: AA-I-C | JS C | ∠r = 1.0 | | | | | | P | res | ervative | LOT NI | umper(s) |). | 1 | | | | | 11.20,-312 | | North Marcal Street | 17 a - 1 a - 1 | | анцасти | | an an an an an an an an an an an an an a | neuwował | Microsoftenia | , and the second |
| elinouished by: | Date: The 12/14/20 // | ime: //// | an | 1 | Rec | reived <u> <u> </u> <u> </u> </u> | BY: | ò | R | 50 | nje | ~ | | | Notes: | | | | | | and the second se | Shi Trə | ippinin acking | ig Info Numb | rmatio Ier: | л | ant classich | و المانو العن الع | · # 160 - ¹⁰⁰ 10 - 10 ⁰ - | |
| telinquished B | 2 20 2 0 $306 85 - 7 CENTER LAGOON G (510 1 P)$ mL mL mL mL mL mL mL mL | | | | | | | | | | U U | <u>۲</u> | | | PLEASE NOTE: claim arasing client for final | : Liab Whee Wis: | ilities Pr ba All cla | and I sed i ims i | Damaı n cont ncl e di | ges. ract 1g th | AA's I or toi | iabilit rt, shj Zr ne | ty and all be | d clier Himite | nts ex ed to nd an | clusi the a y oth | ve ren Imour Ier car | nedy It pair Ise w | for any d by the hatsoev | er |
| lelinquished By: | ainer type: P-Polyethylene G-Glass V-VOA Z-Ziplock Bag ived on Ice V Yes No aper Ot #: O/GHSC1544 Thermometer ID: AA-T-03 CF = 1.0 Maished By: Date: Time: Receiv Multiplication of the second | | | | | | | | | 2 | 122 | a |) q | :05 | shall be deem completion of | ed wa fthe a | ppace | unleş İble ş | | e in In | whitin notev | ent s | d rece shall A | eived AA be | by AA liable | A with 2 for 1 | hin 30 Incide | days ntal o | after af | r |
|)elivered by: (Circle JPS - Fed Ex - Bus - U | iner type: P-Polyethylene G-Glass V-VOA Z-Ziplock Bag yed on Ice V Yes No per Ot #: Q/GHSC1544 Thermometer ID: AA-T-03 CF = 1.0 wished By: Date: Time: Recei M M M M M M M M M M | | | | | | | | | | ł | m | Check (Init | ed By: tials) | consequential loss of profits related to the | incuri perfo | ages; red by prman | clier ce of | ung w nt, it's Servic | subs | idiari idiari ereun | icatio es, af ider t ar oth | in, Du Ifiliate by AA perwii | isines es or ! rega se. | s inte succe ardies | ssors s of v | arisin wheth | ioss o ig out er sut | of or th claim | ís |

10526 Gulfdale San Antonio, TX – 78216; Ph. (210) 340-8121; Fax: (210) 340-8123

Document Control No.: SOP-SAMP-REC Ver.13.1

| | Sample Log-In Checklist | | ······································ |
|----------------|---|--------------------------|--|
| DATE | : <u>12/21/2022</u> TIME: <u>09:10</u> | INITIALS: | YK |
| CLIEN 1. | T: Adv Analysis PROJECT: W.O# 22/2091 Is a Chain of Custody present? | to22120 | 14 |
| 2. | Is a Chain of Custody properly completed? |) No | |
| 3. | Are custody seals present?YesIf yes, are they intact?YesAre they on:Sample or onShipping Co | No No | |
| 4. | Are all samples tagged or labeled? If yes, do the labels match the Chain of Custody? | No No | |
| 5. | Do all shipping documents agree (i.e., number of coolers arrived vs. on t If not, describe below. | ickets)) No | N/A |
| 6. | Are samples preserved properly? If not, describe below. | No | |
| 7. 8. | Are all samples within holding times on arrival? | No | <u> </u> |
| 9. | Condition of samples: Intact or | | |
| 10. | Temperature of samples: Temp. (0 C): <u>3</u> Corrected Temp. (0 C): <u>3</u> | 3 Thermometer 1 | D: D1 or L2 |
| 11. | pH strip lot#: <u>B0756</u> Samples out of pH range: | | |
| 12. | Delivery agent: Client UPS Fed-ExLone Star Alama | o P/U Othe | r |
| 13. | Sample disposal: Return to client Alamo Analytical | Disposal | · |
| 14. | Location (WI) (Walk-In Cooler)/ F2 (Freezer 2 for TPH 1005 Soils))/ R1(Refriger | ator 1 for TPH & V | OC water) |
| <u>Comr</u> | nents: (Reference checklist item number from above, or for comm | ents on resoluti | on below): |
| | | 1999 <u></u> | |
| | Record of contacting client for resolution of sample discrepancies (fi <u>Contacted How?</u> | <u>rst and retry con</u> | <u>tact)</u> |
| Name: Name: | Phone Fax Date: / / Ti Phone Fax Date: / / Ti | ime: | |

REPORT NARRATIVE



Main: 10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121 . Fax. (210) 340-8123

| Mario Rodriguez | |
|-------------------------|-------------------------------------|
| Advanced Analysis Inc. | |
| P.O Box 16652 | |
| Lubbock , Texas - 79490 | |
| TEL: (806) 796-2805 | Email: <u>rodriguezaa@yahoo.com</u> |
| FAX: (806) 796-2825 | |
| | |

RE: City of Tahoka Dear Mario Rodriguez:

Order No.: 2301099

2/6/2023

Enclosed please find the analytical report for the sample/s received on 1/25/2023.

SAMPLE RECEIPT: Samples were received intact and with chain of custody documentation. HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the Sample Acceptance Policy unless otherwise noted in the report.

COMMENTS: No significant observations were made.

If you have any questions regarding these test results call (210) 340-8121.

Thank you,

Reddy Gosala, Ph.D Laboratory Director

Report of Laboratory Analysis

Note: The analysis contained in this report applies only to the samples tested and for the exclusive use of the addressed client. Reproduction of this report wholly or in part requires written permission of the client.

| ALAMO ANALYTICAL | . LABORATORIES, L | TD. |
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| U | | Analytical Results Report | | | | | | | | | | | | | |
|---|---|---------------------------|---------------------|--|----------------------|---------------------------|----------------|--|--|--|--|--|--|--|--|
| Client: Lab Order: Project ID: Project Name: | Advanced Analysi 2301099 City of Tahoka | is Inc. | | Collection Date: Matrix: Lab ID: | 1/23/ WAT 2301 | 2023 10 TER 099-01A | :00:00 AM | | | | | | | | |
| Client Sample I | D: CENTER LAGO | ON | | | | | | | | | | | | | |
| Analyses | | Result | Report Limit | Units | Dil | ution | Date Analyzed | | | | | | | | |
| TOTAL SUSPEN | IDED SOLIDS | | | SM2540D | | Anal | yst: YK | | | | | | | | |
| Suspended S Filterable) | olids (Residue, Non- | 86 | 5 | mg/L | 1 | 30- | Jan-23 | | | | | | | | |
| PH | | | | SM4500-H+B | | Anal | yst: YK | | | | | | | | |
| pH at 25 o C | | 8.3 | 0.1 | pH units | 1 | 25- | Jan-23 | | | | | | | | |
| BOD, 5 DAY, 20 | °C | | | SM5210B | | Anal | yst: AM | | | | | | | | |
| Biochemical (| Oxygen Demand | < 2 | 2 | mg/L | 1 | 30- | Jan-23 | | | | | | | | |

Approved by: Reddy Gosala, Laboratory Direc

Report of Laboratory Analysis

| CLIENT | Г: | Advanced Analysis Inc | 2. | | | | | | | OC | SUMN | IAR | Y REP | ORT |
|------------|-------------|-------------------------|-----------|--------------|-----------|--------|-----------|-----|----------------|-----------------------|---------|--------|--------------|--------|
| Work O | rder: | 2301099 | | Proje | ect: | City | of Tahoka | | | | | | | 0111 |
| | | | | | %REC | | | %RE | EC | Low - High | | | F | RPD |
| Analyte | | | BLK S | PK value LC | S | | | MS | | Limit | Parent | DUP | % | Limit |
| Batch ID: | BOD5-1/ | /25/2023 | TestNar | ne: BOD, 5 I | Day, 20°C | | | | | | | | | |
| Run ID: | INCUB_ | 230125A | Test Code | e: SM5210B | | Units: | mg/L | | Analysis Date: | 1/30/2023 4:00:00 PM | Prep Da | ate: 1 | /25/2023 9: | 35:00 |
| Biochemica | al Oxygen I | Demand | <2 | 198 88.9 | % | | | | | 69 - 227 | 0.0 | 0.0 | 0.000 | 20.0 |
| Batch ID: | PH_WW | /-1/25/2023 | TestNan | ne: pH | | | | | | | | | | |
| Run ID: | PH_W_2 | 230125A | Test Cod | e: SM4500-H+ | -B | Units: | pH units | | Analysis Date: | 1/25/2023 10:00:00 AM | Prep Da | ate: 1 | /25/2023 10 | :00:00 |
| pH at 25 o | с | | | 7 99.79 | % | | | | | 95 - 105 | 8.3 | 8.3 | 0.000 | 5.0 |
| Batch ID: | TSS_W- | 1/30/2023 | TestNan | ne: TOTAL | SUSPEND | ED SC | DLIDS | | | | | | | |
| Run ID: | TSS_23 | 0130A | Test Code | e: SM2540D | | Units: | mg/L | | Analysis Date: | 1/30/2023 4:20:00 PM | Prep Da | ate: 1 | /30/2023 9: | 10:00 |
| Suspended | l Solids (R | esidue, Non-Filterable) | <5 | | | | | | | | 86.0 | 84.0 | 2.000 | 20.0 |

Approved by: Note: The analysis contained in this report applies only to the samples tested and for the exclusive use of the addressed client. Reproduction of this report wholly or in part requires written permission of the client.

| 3407 Clovis Ro 794 | ADVANCED ANALYSIS, INC. 3407 Clovis Rd. Lubbock, Texas 79415 P.O. Box 16652 Lubbock, Texas 79490 Tel: (806) 796-2805 Fax : (806) 796-2825 npany Name: C; ひ・チ TahaCa | | | | | | | | | | | | | | | | (| CH/ | 41N | I O I | FCL | JST | 0[| γc | Pa | age | | (| _ (| of | | (|
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| Company Name: | City of Tahokh | | | 1-5 | | | | | | | | Seine Starking | See. | | | | | | | | | | | | | | | | | | | |
| Project Manager: C | TY OF TAHOKA / K | ay | monu | <u> _</u> V | kg | \sim | - | | BI | | ro | | | PC |) #: | | | TCLF | <u>.</u> | | | | | | | | Τ | Т | | | | Π |
| Address: 1807 MAI | N BOX 300 | | | | | | | | | mp | any: | | | | | | T | ΟΤΑ | AL: | | | | | | | | | | | | | |
| CITY: IAHOKA | <u>Stat</u> | e: I | <u>X 21</u> | ip: / | /93 | 73 | | | At | ddrace SAME | | | | | | | | | | | | | | | | | | | | | | |
| Phone #: 800-30 1-4 | 16 #: 806-561-42111 Fax #: pail : TAHOKA1915@POKA.COM pect #: pect Name: pect Location: Performance of the second se | | | | | | | | AC | are | ess: c | AIVI | | | | | Ē | | 6 | | اه | . | | | | | | 13 | 3 | | | |
| C-Mail: TATUNA | ress: 1807 MAIN BOX 300 TAHOKA State: TX Zip: 79373 ress: 1807 MAIN BOX 300 TAHOKA State: TX Zip: 79373 ress: 1806-561-4211 Fax #: rail : TAHOKA1915@POKA.COM ect #: Ect Name: ect Location: Image: Sample Source Id Image: State: TX 1 # (Lab Use) Sample Source Id Image: State: TX State: TX 2 [0.99-0] Sample Source Id Image: State: TX State: TX 3 [0.99-0] CENTER LAGOON Image: State: TX State: TX | | | | | | | | CI Ci | cy: | 9 | | | 7 | in. | | ĸ | 1 | 8 | | E S | | | | | | | a | | | | |
| Project Mame | appany Name: C: Ly . I Tuble ect Manager: CITY OF TAHOKA / Kaymond Vegaress: 1807 MAIN BOX 300 ress: 1807 MAIN BOX 300 : TAHOKA State: TX Zip: 79373 ne #: 806-561-4211 Fax #: nail : TAHOKA1915@POKA.COM ect Name: ect Location: A # (Lab Use) Sample Source Id Isod Woy # Hog | | | | | | | | Dh | | a #• | | | č | ц у. | | -IS | l | 12 | | | ∠ | 1 | | | | | 15 | | | | |
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| 2301094-01 | | GR | BO | + # | BO | GR | WA | SO | SLU | Ē | PRE | | F | ACT | DATE | TIME | ğ | P | Ě | ¥, | Be | Ra | ŝ | Sen | È | | | 5 5 | | | | |
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| Container type: P-Polyethy | ylene G-Glasz V-VOA Z-Ziploc | k Ba | 9 | | Zannadi | | | | 1 | *Ali | sample | ə pH's | s, ar | nd Temp | peratures are ta | aken at the time | thev | are | rece | ived i | n the | Jabo | rator | rv bv | Lab | Staff | | <u> </u> | _U | L] | الــــــــــــــــــــــــــــــــــــ | L- |
| Received on Ice | Yes | 7 | No | | | / | | | | Pre | servati | ve Ty | pe: l | HNO₃ = | (N) H ₂ SO ₄ = | (S) NaOH = (C | HC | :L = (| (H) | ICE | = (X) | Na | -5.0 | $D_2 = i$ | (ST) | Ir | rese | rved | HDON | arrive | ai Í | Ŕ |
| pH paper of #: Q/GHSC154 | 44 Thermometer ID: AA-T-I |)3 C | CF = 1.0 | | 7 | | | | | Pre | servati | ve Lo | t Nu | imber(s) |): | | | | | ~ | ~ | | -2- | | • / | | | | | | | - |
| Relinguished by: | $\frac{1}{\sqrt{23/23}}$ Date: T | ime: / ^ | 2:10 | | Rec | eive Y | d By | : (ر) | ð | R | ed | 210 | g. | Vez | | Notes: | 5A. | | Wite stage | 194 3 09775 | | ulsäminen | si T | hippir rackir | ning In ng Nun | iforma nber: | ticn | ag motivas | <u> Sejabatan</u> a | dictamatica, | NCC NO. | |
| Relinquished By: Maria Rod | ainer type: P-Polyethylene G-Glass V-VOA Z-Ziplock Bag ved on Ice Yes No per $A #: Q/GHSC1544$ Thermometer ID: AA-T-03 CF = 1.0 resisted fv: Date: Time: 123/23 12:10 requished By: Date: Time: 123/23 16:00 Receive 123/23 16:00 Receive 123/23 9:05 vered by: (Circle One) | | | | | | | | | | ~~/ ~ | (| J | | f | PLEASE NOTE | whet | her b | s and based | l Dam in co | ages. ntract | AA's t or to | i liabi ort, s | lity a hall t | ind cl De lim | ients nited | exclu to the | sive r amo | emedy unt pa | / for a hid by | iny the | 2.00 Your 1 |
| Relinquished By: | iner type: P-Polyethylene G-Glass V-VOA Z-Ziplock Bag ved on Ice V Yes No per Value (GHSC1544 Thermometer ID: AA-T-03 CF = 1.0 per Value (GHSC1544 Thermometer ID: AA-T-03 CF = 1.0 parts and for the form (GHSC1544 Thermometer ID: AA-T-03 CF = 1.0 per Value | | | | | | | | h | (d | Jb. | | 4 | نه ا ^ر (م | 14.1c | shall be deen completion of | ned w | aiveo appli | i unle cable | servi | ade in ce. In | writi no e | ing al | nd re shal | ceive I AA b | d by be lial | AA wi ble fo | ithin r inclu | .ause (30 day dental | s afte or | r | |
| Delivered by: (Circle UPS - Fed Ex - Bus - U | iner type: P-Polyethylene G-Glasz V-VOA Z-Ziplock Bag ed on Ice Yes No er / gt #: Q/GHSC1544 Thermometer ID: AA-T-03 CF = 1.0 paished By: Date: Time: Receive 1/23/23 1/2:10 puished By: Date: Time: Receive 1/23/23 1/6:00 Bate: Time: Receive 1/23/23 1/6:00 Bate: Time: Receive 1/23/23 1/6:00 Fed Ex - Bus - USPS - Lone Star Overnight - Other Self | | | | | | | | ionic act | dition No | ſ | | h | Check (Ini | ked By: tials) | consequentia loss of profits related to the based upon a | ii dan 5 încu 5 perf 10y of | nages rred l orma the a | , incl by cli ince i above | uding ent, il of ser e state | withc 's sub /ices l ed rea | out iir sidia nereu sons | nitati ries, i Inder or ot | ion, l affilia i by A therv | busin ates c AA, re vise. | ess in or suc gardl | cesso ess o | ption Irs ari f whe | s, loss sing ou ther s | of use at of c ach cl | e, or or aim is | |

Chain of Custody Revision 9

10526 Gulfdale San Antonio, TX – 78216; Ph. (210) 340-8121; Fax: (210) 340-8123

Document Control No.: SOP-SAMP-REC Ver.13.1

| | Sample Log-In Checklist | | |
|----------------|--|-------------------|---------------------------------------|
| DATE | <u> 125 2023</u> TIME: <u>9:05</u> | INITIALS: | <u> </u> |
| CLIEN 1. | T: Advanced PROJECT: W.O# 230 1099 Is a Chain of Custody present? | No | |
| 2. | Is a Chain of Custody properly completed? | No | |
| 3. | Are custody seals present?YesIf yes, are they intact?YesAre they on:Sample or onShipping Con | No No | |
| 4. | Are all samples tagged or labeled? If yes, do the labels match the Chain of Custody? | No No | |
| 5. | Do all shipping documents agree (i.e., number of coolers arrived vs. on tic If not, describe below. | ckets) No | N/A |
| 6. | Are samples preserved properly? If not, describe below. | No | |
| 7. 8. | Are all samples within holding times on arrival? If not, describe below. Condition of shipping container: Intact $$ or | No | |
| 9. | Condition of samples: Intact or | | · · · · · · · · · · · · · · · · · · · |
| 10. | Temperature of samples: Temp. (^{0}C) : $\underline{A'}$ Corrected Temp. (^{0}C) : $\underline{A'}$ | Thermometer | ID: <u>DT1 or 1.2</u> |
| 11. | pH strip lot#: Samples out of pH range: | | |
| 12. | Delivery agent: Client <u>UPS</u> Fed-Ex Lone Star Alamo | P/U Othe | r |
| 13. | Sample disposal: Return to client Alamo Analytical D | Disposal | |
| 14. | Location: WI (Walk-In Cooler)/ F2 (Freezer 2 for TPH 1005 Soils))/ R1(Refrigera | tor 1 for TPH & V | OC water) |
| Com | nents: (Reference checklis) item number from above, or for comme WALOV | ents on resoluti | on below): |
| | | | · · · · · · · · · · · · · · · · · · · |
| | <u>Record of contacting client for resolution of sample discrepancies (fir</u> <u>Contacted How?</u> | st and retry con | <u>itact)</u> |
| Name: Name: | Phone Fax Date: / / Tin Phone Fax Date: / / Tin | me: me: | |



Main: 10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121 . Fax. (210) 340-8123

REPORT NARRATIVE

| Mario Rodriguez | |
|-------------------------|-------------------------------------|
| Advanced Analysis Inc. | |
| P.O Box 16652 | |
| Lubbock , Texas - 79490 | |
| TEL: (806) 796-2805 | Email: <u>rodriguezaa@yahoo.com</u> |
| FAX: (806) 796-2825 | |
| | |

RE: City of Tahoka Dear Mario Rodriguez:

Order No.: 2303005

3/13/2023

Enclosed please find the analytical report for the sample/s received on 3/1/2023.

SAMPLE RECEIPT: Samples were received intact and with chain of custody documentation. HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the Sample Acceptance Policy unless otherwise noted in the report.

COMMENTS: No significant observations were made.

If you have any questions regarding these test results call (210) 340-8121.

Thank you,

Reddy Gosala, Ph.D Laboratory Director

Report of Laboratory Analysis

Note: The analysis contained in this report applies only to the samples tested and for the exclusive use of the addressed client. Reproduction of this report wholly or in part requires written permission of the client.

| ALAMO ANALYTICAL | LABORATORIES, LTD. |
|------------------|--------------------|
|------------------|--------------------|



| | | Analytical Results Report | | | | | | | | | | | | | |
|--------------------------------------|------------------------------|---------------------------|---------------------|--|------------------------|--------------------------|----------------|--|--|--|--|--|--|--|--|
| Client: Lab Order: Project ID: | Advanced Analysis 2303005 | s Inc. | | Collection Date: Matrix: Lab ID: | 2/27/2 WAT 23030 | 2023 10 ER 005-01A | :00:00 AM | | | | | | | | |
| Project Name: | City of Tahoka | | | | | | | | | | | | | | |
| <u>Client Sample I</u> | D: Center Lagoon | | | | | | | | | | | | | | |
| Analyses | | Result | Report Limit | Units | Dilu | ution | Date Analyzed | | | | | | | | |
| TOTAL SUSPEN | IDED SOLIDS | | | SM2540D | | Anal | yst: YK | | | | | | | | |
| Suspended S Filterable) | olids (Residue, Non- | 64 | 5 | mg/L | 1 | 06- | Mar-23 | | | | | | | | |
| PH | | | | SM4500-H+B | | Anal | yst: YK | | | | | | | | |
| pH at 25 o C | | 7.5 | 0.1 | pH units | 1 | 01- | Mar-23 | | | | | | | | |
| BOD, 5 DAY, 20 | °C | | | SM5210B | | Anal | yst: AM | | | | | | | | |
| Biochemical (| Oxygen Demand | 31.2 | 2 | mg/L | 1 | 06- | Mar-23 | | | | | | | | |

Approved by: Reddy Gosala, Laboratory Direc

Report of Laboratory Analysis

| CLIEN Work O | T: Drder: | Advanced Analysis In 2303005 | с. | Project: | City | y of Tahoka | | | QC | SUMN | IARY | ? REP | ORT |
|-----------------|--------------|---------------------------------|------------|------------------|----------|-------------|-----|----------------|---------------------|---------|----------|-------------|--------|
| | | | | %REC | | | %RI | EC | Low - High | | | F | ۲PD |
| Analyte | | | BLK SP | K value LCS | | | MS | | Limit | Parent | DUP | % | Limi |
| Batch ID: | BOD5-3/1 | /2023 | TestName | e: BOD, 5 Day, 2 | 20°C | | | | | | | | |
| Run ID: | INCUB_2 | 30301A | Test Code: | SM5210B | Units: | mg/L | | Analysis Date: | 3/6/2023 4:00:00 PM | Prep Da | ate: 3/2 | 1/2023 9:40 |):00 A |
| Biochemica | al Oxygen D | emand | <2 1 | 98 90.9% | | | | | 69 - 227 | 31.2 | 30.3 | 3.000 | 20.0 |
| Batch ID: | PH_WW- | 3/1/2023 | TestName | e: pH | | | | | | | | | |
| Run ID: | PH_W_23 | 30301B | Test Code: | SM4500-H+B | Units: | pH units | | Analysis Date: | 3/1/2023 9:55:00 AM | Prep Da | ate: 3/* | 1/2023 9:55 | 5:00 A |
| pH at 25 o | С | | | 7 99.4% | | | | | 95 - 105 | 7.5 | 7.6 | 1.000 | 5.0 |
| Batch ID: | TSS_W-3 | /6/2023 | TestName | e: TOTAL SUSP | ENDED SC | DLIDS | | | | | | | |
| Run ID: | TSS_2303 | 306A | Test Code: | SM2540D | Units: | mg/L | | Analysis Date: | 3/6/2023 4:30:00 PM | Prep Da | ate: 3/6 | 3/2023 8:45 | 5:00 A |
| Suspended | d Solids (Re | sidue, Non-Filterable) | <5 | | | | | | | 23.4 | 22.6 | 3.000 | 20.0 |

peredity

Approved by: Note: The analysis contained in this report applies only to the samples tested and for the exclusive use of the addressed client. Reproduction of this report wholly or in part requires written permission of the client.

| 3407 Clovis Ro 79 | ADVANCED ANALYSI I. Lubbock, Texas 79415 P.O. Bo 490 Tel: (806) 796-2805 Fax : (8 | I <mark>S, IN</mark> 5x 1665 06) 796 | C. 2 Lubbo -2825 | ock, T | ſexas | S | | | P | મ | \$6 | | | | C | CHA | ١N | OF | CU | STC | DY | 'P | age | <u>}</u> | / | / | of | <u> </u> | |
|---|---|--|------------------------|--------------|-------------|-------------|-------------------------|---|--------------------|-----------------------|--------------|-------------------------------|---------------------------------------|---|------------------------------|----------------------------|------------------------------|-------------------------------|------------------------------|------------------------------------|-----------------------------|-----------------------------|------------------|-----------------------------|------------------------|-----------------------|------------------------------|----------------|----------------|
| Company Name: Cl | TY OF TAHOKA | | | | | | | L. | | | | | | Tria anna agus anna anna 1 | | | (analytical) | - | - | napicos | - | - | | - | | | - | | |
| Project Manager: R | AYMOND VEGA | | | | | | | B | ILL | <u>ro</u> | | |)#: | | | CLP | <u>':</u> | | _ | | | | | | | | | | |
| Address: 1807 MAI | N BOX 300 | | | | | | | | om | any: | | | | | | | L: | | - | _ | | | | | | | | | |
| City: TAHOKA | Stat | <u>:e: TX</u> | ZI | p: 7 | 937 | 73 | | | <u>ttn:</u> | | | | | | | | | | | | | | | | | | | | |
| Phone #: 806-561-4 | 211 Fax | <u>#:</u> | | <u> </u> | | | | | ddr | ess: S/ | AME | | | | Ŧ | | | | | | l | | i | | | 2.2 | | | |
| E - mail: Tahoka19 | 15@poka.com | | | | | | | | ity: | | · · | | 10 | | K | | 8 | | | | | | | | | 38 | | | |
| Project #: | | | | | | | | 15 | tate | : | | | .ip: | ····· | SS | | 10 | | el - | 2 | | | | | | 322 | | | |
| Project Name: | | ····· | | | | | | <u> </u> | hon | e #: | | | | · | X | | <u>}</u> | <u>د ا</u> | | | | | | | | Σ | | | |
| Project Location: | | | | <u> </u> | | | | F | ax # , | | | 115 0100 | | ALLALC | [8] | ŭ | ş. | \geq | 513 | 5 | | | 1 | | | s) | 1 | | |
| | | SITE | | | | ا ۲ | VIA | IKD | | SAIVI | rit C | MECKS | <u>SAIVI</u> | PLING | N | 24 | 2 | aro | | | | | 1 | | : | ē. | | | |
| A A # (Lab Use) 2 3 0 3 00 | Sample Source Id Sーの) | GRAB / COMPO | BOTTLE SIZE | # CONTAINERS | BOTTLE TYPE | GROUNDWATER | VVAS JEWALEK | SUIL | OTHER: | PRESERVATIVE TYPE: | Hd | ACTUAL TEMP FROM SAMPLE °C | DATE | TIME | свор (вор | 402 / CI / SC | TKN / NO ₃ / N | Alkalinity / H | Nia / Ca / Ma | Volatiles | Semivolatiles | ТРН | PCB's | BTEX/MTBE | FOG | E.coli enumera | | | |
| AB30 (51-1 | CENTER LAGOON | G | ιL | 17 | P | 1. | ィ | I | I | $\square X$ | l | 110 | 2/27/23 | 10:00 am | N | Π | | | Т | Τ | Γ | | П | П | | Τ | Т | Π | Π |
| | | | | | | | | T | T | | 1 | | 1 | 1 | П | | П | Ť | T | T | İ I | Π | T | T | Ť | | T | Π | |
| | · · · · · · · · · · · · · · · · · · · | ++ | | | | | ╈ | | | | \mathbf{t} | <u>├</u> ─── | | | Н | | | ╈ | ╺╢╴ | ╧ | | Н | | m | Ť | ╧ | | \square | |
| | ····· | ╋ | | | | | ┥ | | + | | +- | | | 1 | ┢┥ | | ┝┥ | + | ╡ | | | \square | H | ╧ | | ┉ | ┿ | + | \mathbf{H} |
| | ······ | ╋ | | ┞╴┨ | | | ╋ | ╋ | | | | | <u> </u> | ╂──── | ┡┥ | ⊢┥ | ┝┼ | ╉ | ╼╬╼ | | | | ┝╼╣ | ┝━╋ | ╡ | ╢ | ┿╸ | ╇ | |
| | | ╇ | | | | | _ | Į. | Ļ | | <u> </u> | | <u></u> | <u> </u> | | Ц | ЦĻ | ╧ | ┹ | _ | | Щ | Щ | ┙ | | ┛ | 4- | ╇ | ЦЦ. |
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| | | TT | | | | | Т | | T | | Î – | | | 1 | | | | T | | | | | | | | | Т | П | |
| | | ++ | | t t | | | 1 | | | | 1 | | İ | 1 | П | Н | H | 1 | | | 1 | Η | | Ħ | | | +- | H | |
| | ······································ | \mathbf{t} | | | | + | ╈ | ╞ | | | 1 | <u> </u> | 1 | 1 | H | H | Ħ | Ť | ┉ | ┢ | ł | | H | Ħ | Ť | ╉ | 1- | H | |
| Container type: P-Polvethy | viene G-Glass V-VOA Z-Ziplor | ck Bag | | | | | | <u>.</u> | *A1 | sample | oH's a | and Tem | Deratures are ta | aken at the time | thev | are | receiv | ed in | the l | abora | tory F | ov La | b Sta | | | ![| <u></u> | <u>#[</u> | |
| Received on Ice | V Yes Γ | | No | | 7 | | | | Pre | servative | Type | : HNO- = | (N) $H_{2}SO_{2} =$ | (S) NaOH = (C |) HC | L ≈ (| (H) I(| CE = | (X) | NaS | S-0- = | = (ST |) | Pres | erver | d uno | n arriv | val Í | |
| nH naper Lot # O/GHSC154 | L L | ' 03E | = 1 N | \checkmark | | | | | Pro | servative | a l ot N | lumber/e | · · · · · · · · · · · · · · · · · · · | | , | - (| | | | | 2-3 | | <u></u> | dimensional dimensional | | | | | - |
| Ralinguchar Rig | nate: 1 | ime. | | | Recž | - Ned | Bv: | | | | | 1 | /- | Motoci | | | | | | | | | | | | e compañía de la | 000000000000000 | | _ |
| | 2/27/22 | 11:4 | 07a | | | <u> </u> | $\overline{\mathbf{A}}$ | ·~~ | 0 | K | σð | n'r | \sim | notes: | | | | | | and share | Ship Trac | pining king N | Inform umber | iation | | | | | 1 |
| Relinquished By: Rod | Lrigviz 2/27/2 | ime: | 6:a | | Rece | eived | By: | -(/ | 4 | | | | | PLEASE NOTE claim arasing client for ana | : Liab wheti | bilitie her b All cl | s and based i lajans j | Dama in con ncjuđ | ges. tract | نا AA's li or tort ose fð | ability t, skal | / and I be li | client imited | s excl 1/10 th any | usive e an other | reme ount Scaus | dy for | they | , ¢ |
| Relinquished By: | Date: 1 | ime: | | | Reco | ived | By: | / | \mathbb{N} | $\sqrt{2}$ | | Ł | 3/1/2 | shall-ba deen concequentia | ned wi of the a al dam | aiveð applio iages | cable s | servic ding v | le in v e. In v vithou | writing no eve ut limi | nt sh tation | all AA | be la iness | / AA v able fi interr | within or inc | ident | Bys aft al or Iss of u | ifr use, or | |
| Delivered by: (Circle UPS - Fed Ex - Bus - U | One) SPS - Lone Star Overnight | : - Oth | er-seh | 3 | [v | Sa | mple li (es [| e Cor ntaci | ndition t No | 1 | 'n | Check | ked B y : tials) / | loss of profits related to the based upon a | s incur e perfo any of | red b orma the a | by clies ince of above | nt, it's f servi stated | subs ces h reas | idiarie ereuno ons or | es, aff der by r othe | iliates / AA, i rwise | or su regarc | diess (| ors a of wh | rising ther | out of such a | or claim is | s |

10526 Gulfdale

San Antonio, TX – 78216; Ph. (210) 340-8121; Fax: (210) 340-8123 Document Control No.: SOP-SAMP-REC Ver.13.1

| | Sample Log-In Checklist | | A |
|------------|--|-------------------------|-------------------|
| DATE | : <u>311123</u> TIME: <u>9:26</u> | INITIALS:_ | |
| CLIE 1. | T: Advanced Analy PROJECT: W.O# 2303 Is a Chain of Custody present? | <u>005</u> No | N |
| 2. | Is a Chain of Custody properly completed? | No | |
| 3. | Are custody seals present?YesIf yes, are they intact?YesAre they on:Sample or onShipping Con | Nø No tainer | |
| 4. | Are all samples tagged or labeled? If yes, do the labels match the Chain of Custody? | No No | |
| 5. | Do all shipping documents agree (i.e., number of coolers arrived vs. on tion If not, describe below. | ckets) No | N/A |
| 6. | Are samples preserved properly? If not, describe below. (Yes | No | |
| 7. | Are all samples within holding times on arrival? | No | |
| 8. | Condition of shipping container: Intact or | | |
| 9. | Condition of samples: Intact or | te gathing the same the | |
| 10. | Temperature of samples: Temp. (0 C): <u>2</u> Corrected Temp. (0 C): <u>2</u> . \leq | Thermometer | ID : (DT1 dr L2 |
| 11. | pH strip lot#: Samples out of pH range: | | |
| 12. | Delivery agent: Client UPS Fed-Ex Lone Star Alamo | P/U Othe | ſ |
| 13. | Sample disposal: Return to client Alamo Analytical D | isposal | |
| 14. | Location: WI (Walk-In Cooler)/ F2 (Freezer 2 for TPH 1005 Soils))/ R1(Refrigerat | or 1 for TPH & V | OC water) |
| Comr | nents: (Reference checklist item number from above, or for commen | nts on resoluti | on below): |
| ······ | | lè | f |
| Nome | Record of contacting client for resolution of sample discrepancies (firs Contacted How? | t and retry con | <u>'</u> tact) |
| Name: | Phone Fax Date: / / Tim Phone Fax Date: / / Tim | ne: | |

REPORT NARRATIVE



Main: 10526 Gulfdale • San Antonio, Texas 78216-3601 • (210) 340-8121 . Fax. (210) 340-8123

| Mario Rodriguez | |
|-------------------------|-------------------------------------|
| Advanced Analysis Inc. | |
| P.O Box 16652 | |
| Lubbock , Texas - 79490 | |
| TEL: (806) 796-2805 | Email: <u>rodriguezaa@yahoo.com</u> |
| FAX: (806) 796-2825 | |
| | |

RE: City of Tahoka Dear Mario Rodriguez:

Order No.: 2303138

4/3/2023

Enclosed please find the analytical report for the sample/s received on 3/22/2023.

SAMPLE RECEIPT: Samples were received intact and with chain of custody documentation. HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the Sample Acceptance Policy unless otherwise noted in the report.

COMMENTS: No significant observations were made.

If you have any questions regarding these test results call (210) 340-8121.

Thank you,

Reddy Gosala, Ph.D Laboratory Director

Report of Laboratory Analysis

Note: The analysis contained in this report applies only to the samples tested and for the exclusive use of the addressed client. Reproduction of this report wholly or in part requires written permission of the client.

| | | A | nalytical Resu | ılts Report | | | |
|--------------------------------------|------------------------------|--------|---------------------|--|---------------------------|------------------------|---------------|
| Client: Lab Order: Project ID: | Advanced Analysis 2303138 | s Inc. | | Collection Date: Matrix: Lab ID: | 3/20/20 WATE 230313 | 23 10:00 R 8-01A | 0:00 AM |
| Project Name: | City of Tahoka | | | | | | |
| Client Sample I | D: Center Lagoon | | | | | | |
| Analyses | | Result | Report Limit | Units | Diluti | ion | Date Analyzed |
| TOTAL SUSPEN | IDED SOLIDS | | | SM2540D | | Analyst | t: YK |
| Suspended S Filterable) | olids (Residue, Non- | 40 | 5 | mg/L | 1 | 27-Ma | nr-23 |
| РН | | | | SM4500-H+B | | Analys | t: YK |
| pH at 25 o C | | 7.5 | 0.1 | pH units | 1 | 22-Ma | nr-23 |
| BOD, 5 DAY, 20 | °C | | | SM5210B | | Analys | t: AM |
| Biochemical (| Dxygen Demand | 31.6 | 2 | mg/L | 1 | 27-Ma | ar-23 |

Approved by: Reddy Gosala, Laboratory Direc

Report of Laboratory Analysis

| CLIEN Work O | T: Drder: | Advanced Analysis In 2303138 | IC. | | Project | t: | City | v of Tahoka | | | QC | SUMN | IARY | (REPO | ORT |
|-----------------|--------------|------------------------------|---------|----------|----------|---------|--------|-------------|-----|----------------|----------------------|---------|---------|-------------|------|
| | | | | | %F | REC | | | %RE | EC | Low - High | 1 | | R | ₹PD |
| Analyte | | | BLK | SPK valu | E LCS | LCSD | RPD % | RPD Limit | MS | | Limit | Parent | DUP | % | Limi |
| Batch ID: | BOD5-3 | /22/2023 | TestN | ame: BO |)D, 5 Da | y, 20°C | | | | | | | | | |
| Run ID: | INCUB_ | 230322A | Test Co | ode: SM5 | 210B | | Units: | mg/L | | Analysis Date: | 3/27/2023 3:20:00 PM | Prep Da | ate: 3/ | 22/2023 9:3 | 0:00 |
| Biochemica | al Oxygen | Demand | <2 | 198 | 87.9% | | | | | | 69 - 227 | 31.6 | 30.2 | 5.000 | 20.0 |
| Batch ID: | PH_WW | /-3/22/2023 | TestN | ame: pH | [| | | | | | | | | | |
| Run ID: | PH_W_2 | 230322A | Test Co | ode: SM4 | 500-H+B | | Units: | pH units | | Analysis Date: | 3/22/2023 9:50:00 AM | Prep Da | ate: 3/ | 22/2023 9:5 | 0:00 |
| pH at 25 o | С | | | 7 | 99.4% | | | | | | 95 - 105 | 7.5 | 7.5 | 0.000 | 5.0 |
| Batch ID: | TSS_W- | -3/27/2023 | TestN | ame: TO | DTAL SU | JSPENI | DED SO | DLIDS | | | | | | | |
| Run ID: | TSS_23 | 0327A | Test Co | ode: SM2 | 540D | | Units: | mg/L | | Analysis Date: | 3/27/2023 3:45:00 PM | Prep Da | ate: 3/ | 27/2023 8:5 | 5:00 |
| Suspended | d Solids (R | esidue, Non-Filterable) | <5 | | | | | | | | | 40.0 | 38.0 | 5.000 | 20.0 |

| 3407 Clovis R 75 | ADVANCED ANALYSI d. Lubbock, Texas 79415 P.O. Bo 9490 Tel: (806) 796-2805 Fax: (80 1TX OF TAHOKA | S, INC. x 16652 L 06) 796-28 | ubbo 325 | ock, T | exas | 5 | | | | PH | <u></u> | 3.5 | | | | :HA | /IN | OF | : Cl | JST | OD | γ | Pa | ge | | (| 0 | f | 1 |
|---------------------------|--|---|-------------|--|---|-------|-------------------------|------------|---------------|-------------------|--------------|--|--|---|---------------------------|-------------------------|--------------------------|---------------|--------------------------|----------------|--|---------------------------|--------------------------|---------------------------|---------------------------|----------------------------|---|----------------------|---------|
| Project Manager | | | | | | | | | | 70 | - 10-11 M | Dr | } #• | | <u> </u> | | . 1 | T | Т | 1 | ł | 1 | T | kangeraan | 1 | 1 | l l | | |
| Address 1807 MA | N BOX 300 | | · · · · · · | | | | ····. | | 0.000 | nanv | | 100 | J m. | n | T | DTA | | -+ | -+ | -+ | + | - | | | | | | | |
| City. TAHOKA | Stat | A. TY | 71 | m• 7 | 027 | 72 | | | មាររ ទំទំគ | · Posta | | | | | Hì | 1 | | | -+ | - | - | | | | | | | | |
| Phone #: 806-561-4 | 4211 Fax | #• | C= 1 | 2001 | 301 | 10 | | | dda | race SI | AME | | | | Ы | | | | | | | | | | | 5 | | | |
| E - mail : TAHOKA | 1915@POKA.COM | | | | | | | | ifw: | | | | | ······································ | J | | 8 | | S | | | | | | | .2. | | | |
| Project #: | | | | | | | | S | tate | e: | | 7 | ip: | | S X | | Š | | 원 | | | | | | | 236 | | | |
| Project Name: | ····· | | | | | | | Ρ | hor | 1e #: | | | | | l S ∣ | | ۹, | | 8 | ٤l | | | | | | 92 | | | |
| Project Location: | | | | | ••••• | | | F | ax ‡ | ‡: | | | | ····· | 5 | <u>и</u> | IH ₃ / | Ľ I | 3 | R | | | | | | SIV SIV | | | |
| | n af fransk fra mondelsen besken af sen skrigerek fra de forskelder men se franskelder men met fransk fra se s Na | Ľ | | Π | T | | MA. | TRIX | | SAMI | PLE C | HECKS | SAM | IPLING | B | \leq | ٤ | P | ũ | S | | | | | | 5 | | | |
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| A A # (Lab Use) | Sample Source Id | / COMP | e size | rainer: | E TYPE | IDWAT | WATER | | | VATIVE | | TEMP | | | | с / | NO ₃ / | nity / | s: As A | Ca / P | les | olatile | | 'NTBE | | enume | | | |
| | 2303 (380) | GRAB , | BOTTL | # CON | BOTTL | GROUN | WASTE | SLUDG | OTHER | PRESER TYPE: | Ha | ACTUAL FROM S | DATE | TIME | CBOD | -Sq1 | TKN / | Alkali | Metal | Na / | Volati | Semiv | | RTFX/ | FOG | E.coli e | | | |
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| | | | | \mathbf{H} | | | ╈ | ┢ | ╈ | 1 | | | | <u> </u> | | | | | - | | ╈ | - | ╈ | ╋ | 1 | | | | |
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| | | ╋ | | ┢─┤ | | | _ | ╇ | ╇ | 1 | | | <u> </u> | | | | | _ | | | ╉ | ╞ | ┢ | ╞ | ╬ | | | - | |
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| | | | | | 1000 | | | Alter atte | | 1 | | | | | | | Π | | | - Contractor | Т | Τ | Τ | Т | | | | | |
| | | | | | and the second se | | | Т | Т | 1 | 1 | | 1 | | Π | | Π | | | | Т | | Τ | Т | Τ | Γ | | | |
| Container type: P-Polyeth | vlene G-Glassy V-VOA Z-Ziploc | ck Bag | | an an an an an an an an an an an an an a | | | | | *A | II sample | pH's, | and Tem | peratures are ta | aken at the time | they | are i | receiv | vedi | n the | labo | orator | y by i | Lab S | Staff | | | | | |
| Received on Ice | Yes | No | | | 7 | | 9.00.000 | | Pr | eservative | ⊧†уре | : HNO3 = | : (N) H ₂ S0 ₄ = | (S) NaOH = (O |) HC | L = (| (H) (I | CE = | = (X) |)Na; | 2-S2C | 1 ₃ = (\$ | ST) | Pi | reser | vedu | pon a | rrival | P |
| pH paper Lot #: Q/GHSC15 | 44 Thermometer ID: AA-T- | 03 CF = | 1.0 | 1 | 10-1-1 1 | | | | Pr | eservative | Lot N | lumber(s |): | | | | | <u> </u> | | | f an an an an an an an an an an an an an | dan tahun 1990 ta | c 1 402 - | and a con | | | in an an an an an an an an an an an an an | | |
| Reling/shed_By: | Date: T $3/1/1 \ge 3$ | ime: /20/2,3 | //: | Ra | Reò | eived | By: &∨ | ک | 6 | Red | +1.(| m. | / | Notes: | | | | 064434623 | | | S T | hippini racking | ing Inf g Num | ormat iber: | lon | | | | |
| Relinguished IV: | Rodn Date: 2/2 | ime: 0/27 | 16 | :09 | Rece | eived | By: | ~ | | | | <u>) </u> | | PLEASE NOTE claim arasing | : Liab whet | ilities ter b | s and ased | Dam in co | ages ntrac | AA' tort | s liabi ort, s | lity ar hall bi | nd cli e limi | ents e ited ti | exclus the | ive re amou | medy nt pai | for an 1 by th | y ne |
| Relinguished By: | Date: T | ime: | | | Rece | eived | By: | 9 | 7 | $\sqrt{\epsilon}$ | ð | T | 3/2 | client for ana shall be deen completion o | lysis eg wa f the a | All Cl Ged Ipplic | aims i Unlei cable | inclu Se 🙆 | ding Scie if ce. I | those vrit | for n event | eglige nd rec shall | ence a ceivea AA b | and a d by A e liab | ny oti A wit le for | ner ca hin 30 incide | use w D days ental q | hatsoe after (| ver |
| Delivered by: (Circle | · One) | | | ſ | | Sź | ample | e Con | ditic | on | | Chec | ked By: | consequentia | l dam | ages, | , inclu | iding | with | out li | mitat | on, b | u i ie | iss int | erup | tions, | loss | f use, | or |
| UPS - Fed Ex - Bus - l | JSPS - Lone Star Overnight | - Other | -sei | f) | V | 1 | Yes | ntact | No | i | or | | tials) | related to the based upon a | ncur perfo ny of | rea b ormai the a | nce o nce o | Sent Sent | | aprei isons | inder or ot | herwi | A, De ise. | sardle | ss of | wheth | ier su | h clair | m is |

10526 Gulfdale

San Antonio, TX – 78216; Ph. (210) 340-8121; Fax: (210) 340-8123

Document Control No.: SOP-SAMP-REC Ver.13.1

| Sample Log-In Checklist | | | | | | | | |
|---|---|-------------------|---------------|--|--|--|--|--|
| DATE | : <u>912123</u> TIME: <u>9115</u> | INITIALS: | 9 | | | | | |
| CLIEN 1. | Is a Chain of Custody present? (Yes) | <u>3 138</u> № | | | | | | |
| 2. | Is a Chain of Custody properly completed? | No | | | | | | |
| 3. | Are custody seals present?YesIf yes, are they intact?YesAre they on:Sample or onShipping Cont | No No | | | | | | |
| 4. | Are all samples tagged or labeled? If yes, do the labels match the Chain of Custody? | No No | | | | | | |
| 5. | Do all shipping documents agree (i.e., number of coolers arrived vs. on tic If not, describe below. | kets) No | N/A | | | | | |
| 6. | Are samples preserved properly? If not, describe below. | No | | | | | | |
| 7. 8. | Are all samples within holding times on arrival? <i>If not</i> , describe below. Condition of shipping container: Intact or | No | | | | | | |
| 9. | Condition of samples: Intact or | | | | | | | |
| 10. | Temperature of samples: Temp. (0 C) \mathcal{F} Corrected Temp. (0 C) \mathcal{F} | Thermometer | ID: DT1 or L2 | | | | | |
| 11. | pH strip lot#: Samples out of pH range: | | | | | | | |
| 12. | Delivery agent: Client UPS Fed-Ex Lone Star Alamo | P/U Othe | r | | | | | |
| 13. | Sample disposal: Return to client Alamo Analytical Di | sposal | | | | | | |
| 14. | Location: WI (Walk-In Cooler)/ F2 (Freezer 2 for TPH 1005 Soils))/ R1(Refrigerate | or 1 for TPH & V | OC water) | | | | | |
| <u>Comments:</u> (Reference checklist item number from above, or for comments on resolution below): | | | | | | | | |
| | | X | be | | | | | |
| | · | | | | | | | |

<u>Record of contacting client for resolution of sample discrepancies (first and retry contact)</u> <u>Contacted How?</u>

| Name: | Phone | Fax | Date: | / | / | Time: |
|-------|-------|------|-------|---|---|-------|
| Name: | Phone | _Fax | Date: | / | / | Time: |



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Raymond Vega City of Tahoka PO BOX 300 Tahoka, Texas 79373 Generated 4/28/2023 4:53:10 PM

JOB DESCRIPTION

General

5 6

JOB NUMBER

820-8181-1

Eurofins Lubbock 6701 Aberdeen Ave. Suite 8 Lubbock TX 79424





See page two for job notes and contact information.

Eurofins Lubbock

Job Notes

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

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization

aylor

Generated 4/28/2023 4:53:10 PM

Authorized for release by Holly Taylor, Project Manager Holly.Taylor@et.eurofinsus.com (806)794-1296

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| Chain of Custody | 13 |
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| | |

Qualifiers

| Qualifiers | S | 3 | | |
|-------------------|--|---|--|--|
| General Chemistry | | | | |
| Qualifier | Qualifier Description | | | |
| HF | Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. | | | |
| U | Indicates the analyte was analyzed for but not detected. | 5 | | |

Glossary

| Quaimer | Qualitier Description | |
|----------------|---|----|
| HF | Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. | _ |
| U | Indicates the analyte was analyzed for but not detected. | 5 |
| Glossary | | 6 |
| Abbreviation | These commonly used abbreviations may or may not be present in this report. | |
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis | |
| %R | Percent Recovery | |
| CFL | Contains Free Liquid | 0 |
| CFU | Colony Forming Unit | 0 |
| CNF | Contains No Free Liquid | |
| DER | Duplicate Error Ratio (normalized absolute difference) | 9 |
| Dil Fac | Dilution Factor | |
| DL | Detection Limit (DoD/DOE) | |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample | |
| DLC | Decision Level Concentration (Radiochemistry) | |
| EDL | Estimated Detection Limit (Dioxin) | |
| LOD | Limit of Detection (DoD/DOE) | |
| LOQ | Limit of Quantitation (DoD/DOE) | |
| MCL | EPA recommended "Maximum Contaminant Level" | 13 |
| MDA | Minimum Detectable Activity (Radiochemistry) | |
| MDC | Minimum Detectable Concentration (Radiochemistry) | |
| MDL | Method Detection Limit | |
| ML | Minimum Level (Dioxin) | |
| MPN | Most Probable Number | |
| MQL | Method Quantitation Limit | |
| NC | Not Calculated | |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) | |
| NEG | Negative / Absent | |
| POS | Positive / Present | |
| PQL | Practical Quantitation Limit | |
| PRES | Presumptive | |
| QC | Quality Control | |
| RER | Relative Error Ratio (Radiochemistry) | |
| RL | Reporting Limit or Requested Limit (Radiochemistry) | |
| RPD | Relative Percent Difference, a measure of the relative difference between two points | |
| TEF | Toxicity Equivalent Factor (Dioxin) | |
| TEQ | Toxicity Equivalent Quotient (Dioxin) | |
| TNTC | Too Numerous To Count | |

Job ID: 820-8181-1

Laboratory: Eurofins Lubbock

Narrative

Job Narrative 820-8181-1

Receipt

The sample was received on 4/20/2023 10:59 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 10.7°C

General Chemistry

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

13

Matrix: Water

Lab Sample ID: 820-8181-1

Project/Site: General

Client: City of Tahoka

Client Sample ID: Center Lagoon

Date Collected: 04/20/23 08:58 Date Received: 04/20/23 10:59

| General Chemistry | | | | | | | | | |
|-------------------------------|--------|-----------|------|------|-----------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total Suspended Solids (SM | 159 | | 40.0 | 40.0 | mg/L | | | 04/27/23 10:44 | 1 |
| 2540D) | | | | | | | | | |
| рН (SM 4500 Н+ В) | 8.8 | HF | | | SU | | | 04/26/23 12:36 | 1 |
| Temperature (SM 4500 H+ B) | 16.7 | HF | | | Degrees C | | | 04/26/23 12:36 | 1 |
| Biochemical Oxygen Demand (SM | 52.0 | | 6.00 | 6.00 | mg/L | | 04/21/23 18:37 | 04/21/23 20:02 | 1 |
| 5210B) | | | | | | | | | |

Eurofins Lubbock
_

Method: SM 2540D - Solids, Total Suspended (TSS)

| Lab Sample ID: MB 860-100713/ | 1 | | | | | | | | | | | Client S | Sample ID: | Metho | d Blank |
|---|--------|------|-----------|-------|-------|--------|------|--------|--------|------------|-------|-----------|-------------|---|----------|
| Matrix: Water | | | | | | | | | | | | | Prep | Type: T | otal/NA |
| Analysis Batch: 100713 | | | | | | | | | | | | | | | |
| | | MB | MB | | | | | | | | | | | | |
| Analyte | Re | sult | Qualifier | | RL | | MDL | Unit | | D | Р | repared | Analy | zed | Dil Fac |
| Total Suspended Solids | < | 4.00 | U | | 4.00 | | 4.00 | mg/L | | | | | 04/27/23 | 10:44 | 1 |
| Lab Sample ID: LCS 860-100713 | s/2 | | | | | | | | | C | lient | t Sample | ID: Lab C | ontrol | Sample |
| Matrix: Water | | | | | | | | | | | | | Prep | Type: T | otal/NA |
| Analysis Batch: 100713 | | | | | | | | | | | | | | | |
| | | | | Spike | | LCS | LCS | | | | | | %Rec | | |
| Analyte | | | | Added | | Result | Qua | lifier | Unit | | D | %Rec | Limits | | |
| Total Suspended Solids | | | | 100 | | 81.00 | | | mg/L | | | 81 | 80 - 120 | | |
| Lab Sample ID: LCSD 860-10071 | 13/3 | | | | | | | | CI | lient | San | nple ID: | Lab Contre | ol Sam | ple Dup |
| Matrix: Water | | | | | | | | | | | | · · · · | Prep | Type: T | otal/NA |
| Analysis Batch: 100713 | | | | | | | | | | | | | | | |
| | | | | Spike | | LCSD | LCS | D | | | | | %Rec | | RPD |
| Analyte | | | | Added | | Result | Qua | lifier | Unit | | D | %Rec | Limits | RPD |) Limit |
| Total Suspended Solids | | | | 100 | | 82.00 | | | mg/L | | _ | 82 | 80 - 120 | 1 | 10 |
| Method: SM 4500 H+ B - pH | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| Lab Sample ID: 820-8181-1 DU | | | | | | | | | | | 0 | Client Sa | ample ID: (| Center | Lagoon |
| Matrix: Water | | | | | | | | | | | | | Prep | Type: T | fotal/NA |
| Analysis Batch: 100515 | | | | | | | | | | | | | | | |
| | Sample | Sam | ple | | | DU | DU | | | | | | | | RPD |
| Analyte | Result | Qua | lifier | | | Result | Qua | lifier | Unit | | D | | | RPD | Limit |
| pH | 8.8 | HF | | | | 8.8 | | | SU | ~ | | | | 0.6 | 5 20 |
| Iemperature | 16.7 | HF | | | | 16.0 | | | Degree | es C | | | | 4 | 4 20 |
| Method: SM 5210B - BOD, 5 | -Day | | | | | | | | | | | | | | |
| Lab Sample ID: SCB 860-100611 | 1/2 | | | | | | | | | | | Client S | Sample ID: | Metho | d Blank |
| Matrix: Water | | | | | | | | | | | | | Pren | Type: T | |
| Analysis Batch: 100611 | | | | | | | | | | | | | | .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | |
| | : | SCB | SCB | | | | | | | | | | | | |
| Analyte | Re | sult | Qualifier | | RL | | MDL | Unit | | D | Р | repared | Analy | zed | Dil Fac |
| Biochemical Oxygen Demand | 0.9 | 660 | | 0.00 | 00020 | 0.000 | 0020 | mg/L | | | | - | 04/21/23 | 19:48 | 1 |
| | | | | | 0 | | 0 | | | | | | | | |
| | | | | | | | | | | | | | | | |
| Lab Sample ID: USB 860-100611 | 1/1 | | | | | | | | | | | Client S | sample ID: | Metho | |
| Matrix: Water | | | | | | | | | | | | | Prep | Type: T | otal/NA |
| Analysis Batch: 100611 | | ICD | | | | | | | | | | | | | |
| Analyta | Bo | | Ouglifier | | ы | | мы | Unit | | п | | roparod | Analy | rad | Dil Eac |
| Rischamical Oxygon Domand | | Suit | Quaimer | | 00020 | 0.000 | | mg/l | | - <u> </u> | г | repareu | Allaly | 2eu | |
| | 0.2 | .000 | | 0.00 | 00020 | 0.000 | 0020 | mg/∟ | | | | | 04/21/25 | 19.40 | 1 |
| Lab Sample ID: LCS 860-100611 | 13 | | | | | | | | | C | lion | t Sample | D ID I ah C | ontrol | Sample |
| Matrix: Water | | | | | | | | | | | nem | Jample | Pron | Type: T | |
| Analysis Batch: 100611 | | | | | | | | | | | | | rieh | ., he. 1 | |
| stanyoro Batori. 100011 | | | | Spike | | LCS | LCS | | | | | | %Rec | | |
| Analyte | | | | Added | | Result | Qua | lifier | Unit | | D | %Rec | Limits | | |
| Biochemical Oxygen Demand | | | | 198 | | 211.6 | | | mg/L | | — | 107 | 85 - 115 | | |
| 1 S S S S S S S S S S S S S S S S S S S | | | | | | | | | | | | | | | |

1 2 3 4 5 6 7 8 9 10 11 12 13

General Chemistry

Prep Batch: 99920

| Lab Sample ID 820-8181-1 | Client Sample ID Center Lagoon | Prep Type Total/NA | Matrix Water | Method BOD Prep | Prep Batch |
|-----------------------------|-----------------------------------|--------------------|-----------------|--------------------|------------|
| Analysis Batch: 10051 | 5 | | | | |
| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
| 820-8181-1 | Center Lagoon | Total/NA | Water | SM 4500 H+ B | |
| 820-8181-1 DU | Center Lagoon | Total/NA | Water | SM 4500 H+ B | |
| Analysis Batch: 10061 | 1 | | | | |
| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
| 820-8181-1 | Center Lagoon | Total/NA | Water | SM 5210B | 99920 |
| SCB 860-100611/2 | Method Blank | Total/NA | Water | SM 5210B | |
| USB 860-100611/1 | Method Blank | Total/NA | Water | SM 5210B | |
| LCS 860-100611/3 | Lab Control Sample | Total/NA | Water | SM 5210B | |
| Analysis Batch: 10071 | 3 | | | | |
| Lab Sample ID | Client Sample ID | Ргер Туре | Matrix | Method | Prep Batch |
| 820-8181-1 | Center Lagoon | Total/NA | Water | SM 2540D | |
| MB 860-100713/1 | Method Blank | Total/NA | Water | SM 2540D | |
| LCS 860-100713/2 | Lab Control Sample | Total/NA | Water | SM 2540D | |
| LCSD 860-100713/3 | Lab Control Sample Dup | Total/NA | Water | SM 2540D | |

Client Sample ID: Center Lagoon Date Collected: 04/20/23 08:58 Date Received: 04/20/23 10:59

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|----------------------|------------------|----------------------|-----|--------|---------|---------|-----------------|----------------------------------|------------|--------------------|
| Ргер Туре | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Analysis | SM 2540D | | 1 | 100 mL | 1000 mL | 100713 | 04/27/23 10:44 | DR | EET HOU |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | | | 100515 | 04/26/23 12:36 | TL | EET HOU |
| Total/NA Total/NA | Prep Analysis | BOD Prep SM 5210B | | 1 | 100 mL | 300 mL | 99920 100611 | 04/21/23 18:37 04/21/23 20:02 | ALL ALL | EET HOU EET HOU |

Laboratory References:

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

Lab Sample ID: 820-8181-1 Matrix: Water 5 6

Temperature

SM 4500 H+ B

Laboratory: Eurofins Houston Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below. Authority Identification Number Expiration Date Program Texas NELAP T104704215-23-50 06-30-23 The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification. Analysis Method Prep Method Matrix Analyte

Water

Client: City of Tahoka Project/Site: General

| Method | Method Description | Protocol | Laboratory |
|--------------|-------------------------------|----------|------------|
| SM 2540D | Solids, Total Suspended (TSS) | SM | EET HOU |
| SM 4500 H+ B | pH | SM | EET HOU |
| SM 5210B | BOD, 5-Day | SM | EET HOU |
| BOD Prep | Preparation, BOD | SM | EET HOU |

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

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

Sample Summary

| | - | - | |
|------------------------|---|---|--|
| Client: City of Tahoka | | | |
| Project/Site: General | | | |

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 820-8181-1 | Center Lagoon | Water | 04/20/23 08:58 | 04/20/23 10:59 |

| 20-8181 Chain of Custody | Work Order Comments gram: UST/PST PRP Brownfields RRC Superfund te of Project: | oorting: Level II Level II PST/UST TRRP Level IV | Preservative Codes None: NO DI Water: H,O | Cool: Cool MeOH: Me HCL: HC HNO 3; HN H50 4; H 7 NaH50 4; HP NaH50 4; NABIS Na 25 203; Na50 3 Zn Acetate+NaOH: Zn NaOH: Actorbic Acid: SAPC Sample Comments | Mo Ni K Se Ag SiO ₂ Na Sr TI Sn U V Zn TI U Hg: 1631/245.1/7470 /7471 wetktons ustynegetated. | Received by: (Signature) Date/Time |
|---|--|--|---|---|--|--|
| Chain of Custody Houston, TX (281) 240-4200, Dalas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 PM | i (if different) any Name: Sa WA C Stat | itate ZIP: a crives to ne to be with the not Del | d ANALYSIS REQUEST | eived by eived by A 30pm A | 2xas 11 AI Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn 110 : BRCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag fent company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and cc maniple submitted to Eurofins Nenco, jut not analyzed. These terms will be enforced unless previout | Date/Time Relinquished by: (Signature) M U10113 2 (0:594 4 |
| urofins Environment Testing Xenco | oject Manager: Roy mond Veg C Bill to: mpany Name: C124 of Talucce Compa ddress: R07 Main Box 200 Addres | ity, State ZIP: Tahoka Tanan 2003 City, St none: 806-561-4211 Email: Ja | roject Name: Turn Around Coject Number: | Opicit Location: Due Date: impler's Name: impler's Name: 0 #: IAT starts the day recelled 0 #: AMPLE RECEIPT AMPLE RECEIPT Temp Blank: ves Vo Tamples Received Intact: Ves voler Custody Seals: Yes rample Custody Seals: Yes ample Received Intact: Ves coler Custody Seals: Yes ample Intact: Ves coler Custody Seals: Yes ample Intact: Correction Flactor: ample Intact: Ves contractory Seals: Yes ample Intact: Corrected Temperature: contractory Seals: Ves ooler Custody Seals: Yes ample Intervers: Corrected Temperature: contractory Matrix Sample Identification Matrix Andro Matrix Andro Matrix Andro Matrix Sample Identification Matrix | Total 200.7 / 6010 200.8 / 6020: BRCRA 13PPM Tey irrcle Method(s) and Metal(s) to be analyzed TCLP / SPLP 601 dec: Signature of this document and relinquishment of samples constitutes a valid purchase order from de service. Eurofins Xenco will be albe only for the cost of samples and shall not assume any responsibility for Eurofins Xenco. Aminimum charge of \$85.00 will be applied to each project and a charge of \$56 reachs as | Relinquished by: (Signature) Received by: (Signature) Received by: (Signature) |

Loc: 820 **8181**

4/28/2023

Client: City of Tahoka

Login Number: 8181 List Number: 1 Creator: Ruggles, Ashley

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

Job Number: 820-8181-1

List Source: Eurofins Lubbock

Client: City of Tahoka

Login Number: 8181 List Number: 2 Creator: Canadilla, Surelis

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

Job Number: 820-8181-1

List Source: Eurofins Houston

List Creation: 04/21/23 02:56 PM

13

<6mm (1/4").



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Raymond Vega City of Tahoka PO BOX 300 Tahoka, Texas 79373 Generated 6/2/2023 7:29:26 AM

JOB DESCRIPTION

C. Lagoon

5 6

JOB NUMBER

820-8593-1

Eurofins Lubbock 6701 Aberdeen Ave. Suite 8 Lubbock TX 79424



See page two for job notes and contact information.



Eurofins Lubbock

Job Notes

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

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization

aylor

Generated 6/2/2023 7:29:26 AM

Authorized for release by Holly Taylor, Project Manager Holly.Taylor@et.eurofinsus.com (806)794-1296

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Qualifiers

| Qualifiers | Qualifiers | | | | | |
|----------------|---|----|--|--|--|--|
| General Chen | nistry | | | | | |
| Qualifier | Qualifier Description | | | | | |
| HF | Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. | | | | | |
| U | Indicates the analyte was analyzed for but not detected. | | | | | |
| Glossary | | 6 | | | | |
| Abbreviation | These commonly used abbreviations may or may not be present in this report. | | | | | |
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis | | | | | |
| %R | Percent Recovery | | | | | |
| CFL | Contains Free Liquid | 0 | | | | |
| CFU | Colony Forming Unit | Ο | | | | |
| CNF | Contains No Free Liquid | | | | | |
| DER | Duplicate Error Ratio (normalized absolute difference) | 9 | | | | |
| Dil Fac | Dilution Factor | | | | | |
| DL | Detection Limit (DoD/DOE) | | | | | |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample | | | | | |
| DLC | Decision Level Concentration (Radiochemistry) | | | | | |
| EDL | Estimated Detection Limit (Dioxin) | | | | | |
| LOD | Limit of Detection (DoD/DOE) | | | | | |
| LOQ | Limit of Quantitation (DoD/DOE) | | | | | |
| MCL | EPA recommended "Maximum Contaminant Level" | 13 | | | | |
| | | | | | | |

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|---|
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

Job ID: 820-8593-1

Laboratory: Eurofins Lubbock

Narrative

Job Narrative 820-8593-1

Receipt

The sample was received on 5/24/2023 2:58 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 19.9°C

General Chemistry

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

Project/Site: C. Lagoon

Client: City of Tahoka

Client Sample ID: C. Lagoon Date Collected: 05/24/23 14:12

Date Received: 05/24/23 14:58

| Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------|--------------------------------------|--------------------------------------|---|--|--|--|--|---|
| 121 | | 26.7 | 26.7 | mg/L | | | 05/30/23 11:04 | 1 |
| | | | | | | | | |
| 9.0 | HF | | | SU | | | 06/01/23 14:00 | 1 |
| 16.0 | HF | | | Degrees C | | | 06/01/23 14:00 | 1 |
| 38.5 | | 12.0 | 12.0 | mg/L | | 05/25/23 15:25 | 05/25/23 18:11 | 1 |
| | Result 121 9.0 16.0 38.5 | ResultQualifier1219.09.0HF16.0HF38.5 | Result Qualifier RL 121 26.7 9.0 HF 16.0 HF 38.5 12.0 | Result Qualifier RL MDL 121 26.7 26.7 26.7 9.0 HF 16.0 HF 38.5 12.0 12.0 | Result Qualifier RL MDL Unit 121 26.7 26.7 26.7 mg/L 9.0 HF SU Degrees C 38.5 12.0 12.0 mg/L | Result Qualifier RL MDL Unit D 121 26.7 26.7 26.7 mg/L D 9.0 HF SU D D D 16.0 HF Degrees C 38.5 12.0 12.0 mg/L | Result Qualifier RL MDL Unit D Prepared 121 26.7 26.7 26.7 mg/L D Prepared 9.0 HF SU D D Prepared 16.0 HF Degrees C 38.5 12.0 12.0 mg/L 05/25/23 15:25 | Result Qualifier RL MDL Unit D Prepared Analyzed 121 26.7 26.7 26.7 mg/L D Prepared Analyzed 9.0 HF SU 06/01/23 14:00 06/01/23 14:00 06/01/23 14:00 16.0 HF Degrees C 06/01/23 14:00 06/01/23 14:00 38.5 12.0 12.0 mg/L 05/25/23 15:25 05/25/23 18:11 |

Lab Sample ID: 820-8593-1 Matrix: Water

Method: SM 2540D - Solids, Total Suspended (TSS)

| Lab Sample ID: MB 860-105346/1 | | | | | | | | | | Client S | Sample ID: Meti | nod Bla | nk |
|---------------------------------------|--------------|-----------|----------------|-------|--------|--------|----------|------------|------|-----------------|-----------------|--------------|-----|
| Analysis Batch: 105346 | | | | | | | | | | | Fieb iybe | . 10tal/1 | |
| Analysis Datch. 100040 | MB | MB | | | | | | | | | | | |
| Analyte | Result | Qualifier | DI | | мы | Unit | | п | D | ronarod | Analyzed | | Fac |
| Total Suspended Solids | <1.00 | | | | 4 00 | ma/l | | | | repareu | | | 1 |
| | \$4.00 | 0 | 4.00 | | 4.00 | iiig/L | | | | | 00/00/20 11:04 | | 1 |
| Lab Sample ID: LCS 860-105346/2 | | | | | | | | CI | ient | Sample | ID: Lab Contro | ol Samp | ole |
| Matrix: Water | | | | | | | | | | | Prep Type | : Total/I | NA |
| Analysis Batch: 105346 | | | | | | | | | | | | | |
| | | | Spike | LCS | S LCS | | | | | | %Rec | | |
| Analyte | | | Added | Resu | t Qua | lifier | Unit | | D | %Rec | Limits | | |
| Total Suspended Solids | | | 100 | 109. | 0 | | mg/L | | | 109 | 80 - 120 | | |
| Lab Sample ID: 1 CSD 960 405246/2 | 5 | | | | | | <u> </u> | liant | Com | | Lab Control Sa | male D | |
| Lab Sample ID: LCSD 860-105346/3 | | | | | | | C | nent | Sam | ipie iD: i | Lab Control Sa | | up |
| Matrix: Water | | | | | | | | | | | Prep Type | : Iotal/I | NA |
| Analysis Batch: 105346 | | | 0 | 1.001 | | - | | | | | % D | | |
| Ameluda | | | Spike Added | Deaul | | U | 11 | | | % Dee | %Rec | | PU |
| Tetal Supported Salida | | | Added | ACSU | | litier | | | _ | %Rec | | | |
| Total Suspended Solids | | | 100 | 105. | 0 | | mg/L | | | 105 | 80 - 120 | 4 | 10 |
| Method: SM 5210B - BOD, 5-Da | ау | | | | | | | | | | | | _ |
| Lab Sample ID: SCB 860-105403/2 | | | | | | | | | | Client S | Sample ID: Met | nod Bla | nk |
| Matrix: Water | | | | | | | | | | | Prep Type | : Total/N | NA |
| Analysis Batch: 105403 | | | | | | | | | | | | | |
| | SCB | SCB | | | | | | | | | | | |
| Analyte | Result | Qualifier | RL | | MDL | Unit | | D | Ρ | repared | Analyzed | Dil F | Fac |
| Biochemical Oxygen Demand | 0.8970 | | 0.0000020 | 0.00 | 00020 | mg/L | | | | | 05/25/23 17:56 | ; | 1 |
| | | | 0 | | 0 | | | | | | | | |
| Lab Sample ID: USB 860 405402/4 | | | | | | | | | | Client S | Comple ID: Mot | and Bla | nk |
| Lab Sample ID. USB 860-105403/1 | | | | | | | | | | Chefit 3 | | | |
| Matrix. Water | | | | | | | | | | | Prep Type | . Total/f | NA |
| Analysis Batch: 105403 | | LIED | | | | | | | | | | | |
| A L -d- | USB Davik | 055 | | | | 11 | | - | - | | A | | |
| Analyte Bischemical Overgan Damand | Result | Qualifier | | | | Unit | | - <u> </u> | P | repared | | | |
| Biochemical Oxygen Demand | <0.00000200 | 0 | 0.0000020 | 0.00 | 000020 | mg/L | | | | | 05/25/25 17:20 |) | 1 |
| | | | 0 | | 0 | | | | | | | | |
| Lab Sample ID: LCS 860-105403/3 | | | | | | | | CI | ient | Sample | D: Lab Contro | ol Samp | ole |
| Matrix: Water | | | | | | | | | | - | Prep Type | · Total/I | NA |
| Analysis Batch: 105403 | | | | | | | | | | | | | |
| - | | | Spike | LCS | S LCS | | | | | | %Rec | | |
| Analyte | | | Added | Resu | lt Qua | lifier | Unit | | D | %Rec | Limits | | |
| Biochemical Oxygen Demand | | | 198 | 196. | 7 | | mg/L | | _ | 99 | 85 - 115 | | |

Biochemical Oxygen Demand

Eurofins Lubbock

Job ID: 820-8593-1

General Chemistry

Prep Batch: 104908

| Lab Sample ID | Client Sample ID | Ргер Туре | Matrix | Method | Prep Batch |
|-----------------------|------------------------|-----------|---------|--------------------|------------|
| 820-8593-1 | C. Lagoon | Total/NA | Water | BOD Prep | |
| Analysis Batch: 10534 | 6 | | | | |
| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
| 820-8593-1 | C. Lagoon | Total/NA | Water | SM 2540D | |
| MB 860-105346/1 | Method Blank | Total/NA | Water | SM 2540D | |
| LCS 860-105346/2 | Lab Control Sample | Total/NA | Water | SM 2540D | |
| LCSD 860-105346/3 | Lab Control Sample Dup | Total/NA | Water | SM 2540D | |
| Analysis Batch: 10540 | 3 | | | •• • | |
| 20-8503-1 | | Prep Type | Water | Wethod SM 5210B | 10/908 |
| SCB 860-105403/2 | Method Blank | Total/NA | Water | SM 5210B | 104300 |
| USB 860-105403/1 | Method Blank | Total/NA | Water | SM 5210B | |
| LCS 860-105403/3 | Lab Control Sample | Total/NA | Water | SM 5210B | |
| Analysis Batch: 10585 | 57 | | | | |
| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
| 820-8593-1 | C. Lagoon | Total/NA | Water | SM 4500 H+ B | |

Client Sample ID: C. Lagoon Date Collected: 05/24/23 14:12 Date Received: 05/24/23 14:58

| - | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|----------------------|------------------|----------------------|-----|--------|---------|---------|------------------|----------------------------------|----------|--------------------|
| Prep Туре | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Analysis | SM 2540D | | 1 | 150 mL | 1000 mL | 105346 | 05/30/23 11:04 | ОН | EET HOU |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | | | 105857 | 06/01/23 14:00 | TL | EET HOU |
| Total/NA Total/NA | Prep Analysis | BOD Prep SM 5210B | | 1 | 50 mL | 300 mL | 104908 105403 | 05/25/23 15:25 05/25/23 18:11 | HN HN | EET HOU EET HOU |

Laboratory References:

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

Lab Sample ID: 820-8593-1 Matrix: Water 5 6

Accreditation/Certification Summary

Laboratory: Eurofins Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Pr | Program Identification Number | | Expiration Date |
|--|--|--|---|-------------------------|
| Texas | NE | ELAP | T104704215-23-50 | 06-30-23 |
| | | | | |
| The following analytes the agency does not o | are included in this report, bu fer certification. | It the laboratory is not certifi | ied by the governing authority. This list ma | ay include analytes for |
| The following analytes the agency does not o Analysis Method | are included in this report, bu fer certification. Prep Method | it the laboratory is not certifi Matrix | ied by the governing authority. This list ma Analyte | ay include analytes for |

Client: City of Tahoka Project/Site: C. Lagoon

| Method | Method Description | Protocol | Laboratory |
|--------------|-------------------------------|----------|------------|
| SM 2540D | Solids, Total Suspended (TSS) | SM | EET HOU |
| SM 4500 H+ B | pH | SM | EET HOU |
| SM 5210B | BOD, 5-Day | SM | EET HOU |
| BOD Prep | Preparation, BOD | SM | EET HOU |

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

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

Sample Summary

| Client: City of Tahoka | |
|-------------------------|--|
| Project/Site: C. Lagoon | |

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 820-8593-1 | C. Lagoon | Water | 05/24/23 14:12 | 05/24/23 14:58 |

| ^{Loc: 820} 8593 urofi | NS Environment Testing Xenco | Chain of Houston, TX (281) 249-420 Midland, TX (432) 704-5440, 5 EL Paso, TX (915) 582-5433, 1 Hobbs, NM (575) 392-7550, | Custody , Dallas, TX (214) 902-0300 an Antonio, TX (210) 509-3334 ubbock, TX (806) 794-1296 Cafsbad, NM (575) 988-3199 | B20-8593 Chain of Custody | |
|---|--|--|--|--|-------------------------------------|
| Project Manager: | Jaymord Vege | Bill to: (if different) | | Work Order Comments | |
| Address: | 01 Juin Bax 300 | Company Name: Address: | SAMP | State of Project: | |
| City, State ZIP: | Jaca Tr 79373 | City, State ZIP: | | Reporting: Level II 🗌 Level III 🗍 PST/UST | TRRP Level IV |
| Phone: | 06.561-421/ Emi | I LVega @ talvta | re/i maya & takka | Deliverables: EDD 🗌 ADaPT 🗍 | Other: |
| Project Name: | ц | irn Around | ANALYSIS REQUE | ST Pre | eservative Codes |
| Project Number: | Routin | Pres. | | None: N | 40 DI Water: H ₂ O |
| Project Location: | Due Date | | | Cool: Co | ool MeOH: Me |
| Sampler's Name: | TAT starts the lab, if | the day received by received by 4:30pm | | HCL: HC | HNO ₃ : HN |
| SAMPLE RECEIPT | Tenuo Blank: Yes No Wet Ice: | Yes No | | 1: PO4: H | НР |
| Samples Received Intact: | Yes No Thermometer ID: | L C d | | NaHSO | 4: NABIS |
| Cooler Custody Seals: | Yes No (N) Correction Factor: | the base | | Na ₂ S ₂ O | 3; NaSO 3 |
| Sample Custody Seals: Total Containers: | Yes No N/A Temperature Reading: Corrected Temperature | 5.61 | 55 | Zn Acet: NaOH+A | ate+NaOH: Zn Ascorbic Acid: SAPC |
| Sample Identificati | on Matrix Date Time | Depth Grab/ # of C | I | Sa | ample Comments |
| C. Lacond | S/aH20 2: K | Comp | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| Total 200.7 / 6010 Circle Method(s) and | 200.8 / 6020: 8RCRA 13 Metal(s) to be analyzed TCLP | PPM Texas 11 AI Sb As Ba Be / SPLP 6010 : 8RCRA Sb As Ba B | B Cd Ca Cr Co Cu Fe Pb Mg e Cd Cr Co Cu Pb Mn Mo Ni Si | Mn Mo Ni K Se Ag SiO ₂ Na Sr Tl Sn L e Ag Tl U Hg: 1631/245.1/7470 / | U V Zn /7471 |
| Notice: Signature of this document of service. Eurofins Xenco will be lit of Eurofins Xenco. A minimum char | and relinquishment of samples constitutes a valid purchase bibe only for the cost of samples and shall not assume any re ge of \$85.00 will be applied to each project and a charge of | order from client company to Eurofins Xenco, its at sponsibility for any losses or expenses incurred by t \$5 for each sample submitted to Eurofins Xenco, b | lifetes and subcontractors. It assigns standard term, he client if such losses are due to circumstances bey at not analyzed. These terms will be enforced unless | i and conditions and the control previously negotiated. | |
| Relinquished by: (Sign | nature) Regeived by: (Signat | urg) Dațe/Time | Relinquished by: (Signatu | e) Received by: (Signature) | Date/Time |
| 1 de Onlo | m lehorder | USA 5/24/- | 2 2 | | |
| m | | r, 2':5 | BPN 4 | | |
| 0 | | | 0 | | C NCOC und NCOCLOCADO |

Page 13 of 15

6/2/2023

Login Sample Receipt Checklist

Client: City of Tahoka

Login Number: 8593 List Number: 1 Creator: Triplett, Colby

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

Job Number: 820-8593-1

List Source: Eurofins Lubbock

Client: City of Tahoka

Login Number: 8593 List Number: 2 Creator: Pena, Jesiel

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

Job Number: 820-8593-1

List Source: Eurofins Houston

List Creation: 05/25/23 01:09 PM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Raymond Vega City of Tahoka PO BOX 300 Tahoka, Texas 79373 Generated 6/26/2023 4:19:45 PM

JOB DESCRIPTION

C Lagoon

JOB NUMBER

820-8917-1

Eurofins Lubbock 6701 Aberdeen Ave. Suite 8 Lubbock TX 79424







Eurofins Lubbock

Job Notes

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

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Authorization

aylor

Generated 6/26/2023 4:19:45 PM 1

Authorized for release by Holly Taylor, Project Manager Holly.Taylor@et.eurofinsus.com (806)794-1296

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Qualifiers

| Qualifiers | S | 3 |
|------------|--|---|
| General Ch | nemistry | |
| Qualifier | Qualifier Description | |
| HF | Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. | |
| U | Indicates the analyte was analyzed for but not detected. | 5 |

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|---|
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

Job ID: 820-8917-1

Laboratory: Eurofins Lubbock

Narrative

Job Narrative 820-8917-1

Receipt

The sample was received on 6/19/2023 10:22 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 14.5°C

General Chemistry

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

Project/Site: C Lagoon

Client: City of Tahoka

Client Sample ID: C Lagoon Date Collected: 06/19/23 08:53

Date Received: 06/19/23 10:22

Lab Sample ID: 820-8917-1 Matrix: Water

Watrix: Water

| General Chemistry | | | | | | | | | |
|---|--------|-----------|------|------|-----------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total Suspended Solids (SM | 76.0 | | 16.0 | 16.0 | mg/L | | | 06/22/23 10:33 | 1 |
| 2540D) | | | | | | | | | |
| рН (SM 4500 H+ B) | 9.1 | HF | | | SU | | | 06/20/23 16:21 | 1 |
| Temperature (SM 4500 H+ B) | 19.8 | HF | | | Degrees C | | | 06/20/23 16:21 | 1 |
| Biochemical Oxygen Demand (SM 5210B) | 21.7 | | 12.0 | 12.0 | mg/L | | 06/20/23 14:45 | 06/20/23 17:45 | 1 |

Method: SM 2540D - Solids, Total Suspended (TSS)

| Lab Sample ID: MB 860-109093/1 | | | | | | | | | | Client S | Sample ID: Met | hod I | Blank |
|--|--------|-----------|----------|------------|-------------|--------|------|------------|-------|----------|-----------------------------|-----------------|----------------|
| Matrix: Water | | | | | | | | | | | Prep Type | e: Tot | al/NA |
| Analysis Batch: 109093 | | | | | | | | | | | | | |
| | MB | MB | | | | | | | | | | | |
| Analyte | Result | Qualifier | R | L | MDL | Unit | | D | Р | repared | Analyzed | | Dil Fac |
| Total Suspended Solids | <4.00 | U | 4.0 | 0 | 4.00 | mg/L | | | | | 06/22/23 10:3 | 3 | 1 |
| Lab Sample ID: LCS 860-109093/2 | | | | | | | | CI | lient | Sample | e ID: Lab Conti | ol Sa | mple |
| Matrix: Water | | | | | | | | | | | Prep Type | e: Tot | al/NA |
| Analysis Batch: 109093 | | | | | | | | | | | | | |
| | | | Spike | LC | S LCS | 5 | | | | | %Rec | | |
| Analyte | | | Added | Res | ult Qua | lifier | Unit | | D | %Rec | Limits | | |
| Total Suspended Solids | | | 100 | 103 | 5.0 | | mg/L | | _ | 103 | 80 - 120 | | |
| _ Lab Sample ID: LCSD 860-109093/3 | | | | | | | с | lient | Sam | nple ID: | Lab Control Sa | ample | e Dun |
| Matrix: Water | | | | | | | Ĩ | | | | Pren Type | a: Tot | al/NA |
| Analysis Batch: 109093 | | | | | | | | | | | | | |
| Analysis Batch. 100000 | | | Snike | 1.09 | | .n | | | | | %Rec | | RPD |
| Analyte | | | | Pos | | lifior | Unit | | п | %Pac | /intee | חסכ | Limit |
| Tatal Supponded Solida | | | | 100 | | | mall | | _ | 100 | | | 10 |
| | | | 100 | 108 | .0 | | mg/L | | | 109 | 00 - 120 | 0 | 10 |
| Lab Sample ID: SCB 860-109443/2 Matrix: Water Analysis Batch: 109443 | | | | | | | | | | Client S | Sample ID: Met Prep Type | hod e: Tot | Blank al/NA |
| | SCB | SCB | | | | | | | | | | | |
| Analyte | Result | Qualifier | R | L | MDL | Unit | | <u>D</u> | Р | repared | Analyzed | | Dil Fac |
| Biochemical Oxygen Demand | 0.7380 | | 0.000002 | 0.0 | 000020 | mg/L | | | | | 06/20/23 17:1 | 3 | 1 |
| _ | | | | 0 | 0 | | | | | | | | |
| Lab Sample ID: USB 860-109443/1 | | | | | | | | | | Client | Sample ID: Mot | hod | Rlank |
| Matrix: Water | | | | | | | | | | onent c | | | |
| Analysis Detaby 400442 | | | | | | | | | | | Fieb ish | . 100 | allin |
| Analysis Batch: 109443 | LICE | | | | | | | | | | | | |
| • • • | 058 | 058 | _ | | | | | _ | _ | | | | |
| Analyte | Result | Qualifier | R | L | MDL | Unit | | _ <u> </u> | P | repared | Analyzed | | |
| Biochemical Oxygen Demand | 0.1100 | | 0.000002 | 0 0.0 0 | 000020 0 | mg/L | | | | | 06/20/23 17:1 | 1 | 1 |
| Lab Sample ID: LCS 860-109443/3 | | | | | | | | CI | lient | Sample | D: I ah Conti | ol Sa | mnle |
| Matrix: Water | | | | | | | | | | Jumpic | Dron Tun | v Tot | al/NA |
| Analysis Batch: 109443 | | | | | | | | | | | i ieb iybe | | |
| Anarysis Daton. 103443 | | | Snike | 17 | S I CS | | | | | | %Rec | | |
| Analyto | | | | Pac | | lifier | Unit | | Р | %Pac | Limite | | |
| | | | 109 | 107 | | miei | mc/ | | _ | | | | |
| Biochemical Oxygen Demand | | | 190 | 187 | .∠ | | mg/L | | | 95 | 00 - 115 | | |

Job ID: 820-8917-1

2 3 4 5 6 7 8 9 10 11 12 13

General Chemistry

Prep Batch: 108746

LCS 860-109443/3

Lab Control Sample

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------------|------------------------|-----------|--------|--------------|------------|
| 820-8917-1 | C Lagoon | Total/NA | Water | BOD Prep | |
| Analysis Batch: 10880 | 3 | | | | |
| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
| 820-8917-1 | C Lagoon | Total/NA | Water | SM 4500 H+ B | |
| Analysis Batch: 10909 | 3 | | | | |
| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
| 820-8917-1 | C Lagoon | Total/NA | Water | SM 2540D | |
| MB 860-109093/1 | Method Blank | Total/NA | Water | SM 2540D | |
| LCS 860-109093/2 | Lab Control Sample | Total/NA | Water | SM 2540D | |
| LCSD 860-109093/3 | Lab Control Sample Dup | Total/NA | Water | SM 2540D | |
| Analysis Batch: 10944 | 3 | | | | |
| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
| 820-8917-1 | C Lagoon | Total/NA | Water | SM 5210B | 108746 |
| SCB 860-109443/2 | Method Blank | Total/NA | Water | SM 5210B | |
| USB 860-109443/1 | Method Blank | Total/NA | Water | SM 5210B | |

Total/NA

Water

SM 5210B

Client Sample ID: C Lagoon Date Collected: 06/19/23 08:53 Date Received: 06/19/23 10:22

| _ | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|--------------|-----|--------|---------|---------|--------|----------------|---------|---------|
| Ргер Туре | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Analysis | SM 2540D | | 1 | 250 mL | 1000 mL | 109093 | 06/22/23 10:33 | ОН | EET HOU |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | | | 108803 | 06/20/23 16:21 | TL | EET HOU |
| Total/NA | Prep | BOD Prep | | | | | 108746 | 06/20/23 14:45 | HN | EET HOU |
| Total/NA | Analysis | SM 5210B | | 1 | 50 mL | 300 mL | 109443 | 06/20/23 17:45 | ALL | EET HOU |

Laboratory References:

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

Lab Sample ID: 820-8917-1 Matrix: Water

Accreditation/Certification Summary

5 6 7

9

Laboratory: Eurofins Houston Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below. Authority Identification Number Expiration Date Program Texas NELAP T104704215-23-50 06-30-23 The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification. Analysis Method Prep Method Matrix Analyte SM 4500 H+ B Water Temperature

Client: City of Tahoka Project/Site: C Lagoon

| Method | Method Description | Protocol | Laboratory |
|--------------|-------------------------------|----------|------------|
| SM 2540D | Solids, Total Suspended (TSS) | SM | EET HOU |
| SM 4500 H+ B | pH | SM | EET HOU |
| SM 5210B | BOD, 5-Day | SM | EET HOU |
| BOD Prep | Preparation, BOD | SM | EET HOU |

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

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

Sample Summary

| Client: City of Tahoka | |
|------------------------|--|
| Project/Site: C Lagoon | |

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 820-8917-1 | C Lagoon | Water | 06/19/23 08:53 | 06/19/23 10:22 |
Reporting: Level II C Level III PST/UST TRRP Level IV Superfund DI Water: H₂O Revised Date: 08/25/2020 Rev. 2020.2 HNO 3: HN NaOH: Na MeOH: Me VaOH+Ascorbic Acid: SAPC **Preservative Codes** Sample Comments Date/Time Zn Acetate+NaOH: Zn ð Brownfields RRC Na 25 203: NaSO 3 8RCRA 13PPM Texas 11 AI Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr TI Sn U V Zn Other: NaHSO 4: NABIS Hg: 1631 / 245.1 / 7470 / 7471 820-8917 Chain of Custody None: NO H3PO 4: HP H₂S0 4: H₂ Cool: Cool www.xenco.com Page HCL: HC Work Order Comments ADaPT Received by: (Signature) EDD State of Project: of Eurofins Xenco. A minimum charge of \$55.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated Deliverables: 7h 8.5 TCLP/SPLP6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be flable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to chrcumstances beyond the contro Program: ANALYSIS REQUEST Relinquished by: (Signature) where org inverse Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Chain of Custody Sam 249 19/23 1022 STIC DOD Date/Time 6 # of Cont Pres. Parameters C Bill to: (if different) Company Name: Comp Email: C'VCQA Grab/ IRay City, State ZIP: TAT starts the day received by the lab, if received by 4:30pm on C 11.0 Rush Address: Ş Depth Turn Around Received by: (Signature) 6/19/23 825300 Routine Due Date: Corrected Temperature: Sampled Wet Ice: Temperature Reading: 30×300 Time **Environment Testing** Correction Factor: Thermometer ID: N.9 5 a hund Yes Lo Sampled 137 Date Circle Method(s) and Metal(s) to be analyzed Matrix ILY MON Main Rub. 561-421 Xenco Í Yes No G 200.8 / 6020: Temp Blank: No No Yes No aluta Relinquished by: (Signature) 807 rofins Sample Identification 20000 Samples Received Intact: Total 200.7 / 6010 Sample Custody Seals: Cooler Custody Seals: SAMPLE RECEIPT Total Containers: Project Number: Project Location: Sampler's Name: Project Manager: Company Name: City, State ZIP: Project Name: Loc: 820 8917 Address: Phone: :# Od

Page 13 of 15

5 6 7

<mark>12</mark> 13

Login Sample Receipt Checklist

Client: City of Tahoka

Login Number: 8917 List Number: 1 Creator: Triplett, Colby

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

Job Number: 820-8917-1

List Source: Eurofins Lubbock

<6mm (1/4").

Client: City of Tahoka

Login Number: 8917 List Number: 2 Creator: Babar, Syed

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

Job Number: 820-8917-1

List Source: Eurofins Houston

List Creation: 06/20/23 12:12 PM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Raymond Vega City of Tahoka PO BOX 300 Tahoka, Texas 79373 Generated 7/24/2023 6:18:27 PM

JOB DESCRIPTION

C. Lagoon

JOB NUMBER

820-9272-1

Eurofins Lubbock 6701 Aberdeen Ave. Suite 8 Lubbock TX 79424







Eurofins Lubbock

Job Notes

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Authorization

aylor

Generated 7/24/2023 6:18:27 PM

1

5

Authorized for release by Holly Taylor, Project Manager Holly.Taylor@et.eurofinsus.com (806)794-1296

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Qualifiers

| Qualifiers | S | 3 | |
|------------|--|---|--|
| General Ch | nemistry | | |
| Qualifier | Qualifier Description | | |
| HF | Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. | | |
| U | Indicates the analyte was analyzed for but not detected. | 5 | |

Glossary

| Quanner | Qualitier Description | |
|----------------|---|-----|
| HF | Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. | |
| U | Indicates the analyte was analyzed for but not detected. | 5 |
| Glossary | | 6 |
| Abbreviation | These commonly used abbreviations may or may not be present in this report. | |
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis | - 7 |
| %R | Percent Recovery | |
| CFL | Contains Free Liquid | 0 |
| CFU | Colony Forming Unit | 0 |
| CNF | Contains No Free Liquid | |
| DER | Duplicate Error Ratio (normalized absolute difference) | 9 |
| Dil Fac | Dilution Factor | |
| DL | Detection Limit (DoD/DOE) | |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample | |
| DLC | Decision Level Concentration (Radiochemistry) | |
| EDL | Estimated Detection Limit (Dioxin) | |
| LOD | Limit of Detection (DoD/DOE) | |
| LOQ | Limit of Quantitation (DoD/DOE) | |
| MCL | EPA recommended "Maximum Contaminant Level" | 13 |
| MDA | Minimum Detectable Activity (Radiochemistry) | |
| MDC | Minimum Detectable Concentration (Radiochemistry) | |
| MDL | Method Detection Limit | |
| ML | Minimum Level (Dioxin) | |
| MPN | Most Probable Number | |
| MQL | Method Quantitation Limit | |
| NC | Not Calculated | |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) | |
| NEG | Negative / Absent | |
| POS | Positive / Present | |
| PQL | Practical Quantitation Limit | |
| PRES | Presumptive | |
| QC | Quality Control | |
| RER | Relative Error Ratio (Radiochemistry) | |
| RL | Reporting Limit or Requested Limit (Radiochemistry) | |
| RPD | Relative Percent Difference, a measure of the relative difference between two points | |
| TEF | Toxicity Equivalent Factor (Dioxin) | |
| TEQ | Toxicity Equivalent Quotient (Dioxin) | |
| TNTC | Too Numerous To Count | |

Job ID: 820-9272-1

Laboratory: Eurofins Lubbock

Narrative

Job Narrative 820-9272-1

Receipt

The sample was received on 7/17/2023 11:04 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 14.3°C

General Chemistry

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

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Project/Site: C. Lagoon

Client: City of Tahoka

Client Sample ID: C. Lagoon Date Collected: 07/17/23 09:48

Date Received: 07/17/23 11:04

Lab Sample ID: 820-9272-1 Matrix: Water

Water .

5

| General Chemistry | | | | | | | | | |
|--------------------------------------|--------|-----------|------|------|-----------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total Suspended Solids (SM | 96.7 | | 26.7 | 26.7 | mg/L | | | 07/21/23 12:21 | 1 |
| 2540D) | | | | | | | | | |
| рН (SM 4500 Н+ В) | 9.0 | HF | | | SU | | | 07/19/23 16:41 | 1 |
| Temperature (SM 4500 H+ B) | 20.0 | HF | | | Degrees C | | | 07/19/23 16:41 | 1 |
| Biochemical Oxygen Demand (SM 5210B) | 34.0 | | 12.0 | 12.0 | mg/L | | 07/18/23 12:44 | 07/18/23 16:01 | 1 |

Method: SM 2540D - Solids, Total Suspended (TSS)

| | | | | | | | | | | | | Client S | Sample ID: | Method | l Blank |
|-------------------------------------|--------|-------|-----------|-------|-------|--------|------|--------|--------|-------|------|----------|-------------------|---|---------|
| Matrix: Water | | | | | | | | | | | | | Prep [·] | Type: To | otal/NA |
| Analysis Batch: 113433 | | | | | | | | | | | | | | | |
| | | MB | MB | | | | | | | | | | | | |
| Analyte | R | esult | Qualifier | | RL | | MDL | Unit | | D | P | repared | Analy | zed | Dil Fac |
| Total Suspended Solids | ~ | <4.00 | U | | 4.00 | | 4.00 | mg/L | | | | | 07/21/23 | 12:21 | 1 |
| Lab Sample ID: LCS 860-113433/2 | | | | | | | | | | CI | ient | Sample | e ID: Lab C | ontrol S | Sample |
| Matrix: Water | | | | | | | | | | | | | Prep [·] | Type: To | otal/NA |
| Analysis Batch: 113433 | | | | | | | | | | | | | | | |
| | | | | Spike | | LCS | LCS | | | | | | %Rec | | |
| Analyte | | | | Added | | Result | Qua | lifier | Unit | | D | %Rec | Limits | | |
| Total Suspended Solids | | | | 100 | | 107.0 | | | mg/L | | | 107 | 80 - 120 | | |
| Lab Sample ID: LCSD 860-113433/ | 3 | | | | | | | | С | lient | Sam | ple ID: | Lab Contro | ol Samp | ole Dup |
| Matrix: Water | | | | | | | | | | | | · · · | Prep [·] | Type: To | otal/NA |
| Analysis Batch: 113433 | | | | | | | | | | | | | | | |
| | | | | Spike | | LCSD | LCS | D | | | | | %Rec | | RPD |
| Analyte | | | | Added | | Result | Qua | lifier | Unit | | D | %Rec | Limits | RPD | Limit |
| Total Suspended Solids | | | | 100 | | 105.0 | | - | mg/L | | _ | 105 | 80 - 120 | 2 | 10 |
| Lab Sample ID: 820-9272-1 DU | | | | | | | | | | | | Clie | nt Sample | ID: C. I | agoon |
| Matrix: Water | | | | | | | | | | | | | Prep ' | Type: To | otal/NA |
| Analysis Batch: 113433 | | | | | | | | | | | | | | .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | |
| Analysis Baton. Horos | Sample | Sam | ple | | | DU | DU | | | | | | | | RPD |
| Analyte | Result | Qua | lifier | | | Result | Qua | lifier | Unit | | р | | | RPD | l imit |
| Total Suspended Solids | 96.7 | Quu | | | | 94.00 | Quu | | ma/l | | _ | | | 3 | 10 |
| | 00.1 | | | | | 01.00 | | | iiig/L | | | | | | |
| Method: SM 5210B - BOD, 5-D | ау | | | | | | | | | | | | | | |
| Lab Sample ID: SCB 860-113749/2 | | | | | | | | | | | | Client S | Sample ID: | Method | Blank |
| Matrix: Water | | | | | | | | | | | | | Prep | Type: To | otal/NA |
| Analysis Batch: 113749 | | | | | | | | | | | | | | | |
| Analysis Baton. Horse | | SCB | SCB | | | | | | | | | | | | |
| Analyte | R | osult | Qualifier | | RI | | мы | Unit | | п | Р | ronarod | Δnalv | hor | Dil Fac |
| Biochemical Oxygen Demand | 0 | 9000 | quamor | 0.00 | 00020 | 0.000 | 0020 | ma/l | | | | opulou | 07/18/23 | 13.42 | 1 |
| Dicchomical Chygon Domana | 0. | 0000 | | 0.00 | 00020 | 0.000 | 0020 | iiig/E | | | | | 01710/20 | 10.12 | |
| Lab Sample ID: USB 860-113749/1 | | | | | | | | | | | | Client S | Sample ID: | Methor | l Blank |
| Matrix: Water | | | | | | | | | | | | | Pren | Type: To | otal/NA |
| Analysis Batch: 113749 | | | | | | | | | | | | | Trop | .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | |
| Analysis Baten. 110745 | | USB | USB | | | | | | | | | | | | |
| Analyte | R | esult | Qualifier | | RI | | мрі | Unit | | D | P | repared | Analy | zed | Dil Fac |
| Biochemical Oxygen Demand | 0 | 2000 | | | 00020 | 0 000 | 0020 | ma/l | | | • | | 07/18/23 | 13:39 | 1 |
| Listining oxygen Demand | 0. | _000 | | 0.00 | 0 | 0.000 | 0 | g/L | | | | | 01/10/20 | .0.00 | |
| — — | | | | | | | | | | | | | | | |
| Lab Sample ID: LCS 860-113749/3 | | | | | | | | | | CI | ient | Sample | D: Lab C | ontrol S | Sample |
| Matrix: Water | | | | | | | | | | | | | Prep [·] | Type: To | otal/NA |

| Analysis Batch: 113749 | | | | | | | | |
|---------------------------|-------|--------|-----------|------|---|------|----------|------|
| | Spike | LCS | LCS | | | | %Rec | |
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Biochemical Oxygen Demand | 198 | 222.6 | | mg/L | | 112 | 85 - 115 | |

Eurofins Lubbock

Job ID: 820-9272-1

Prep Type

Prep Type

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Matrix

Water

Matrix

Water

Matrix

Water

Water

Water

Water

Water

Method

Method

Method

SM 2540D

SM 2540D

SM 2540D

SM 2540D

SM 2540D

SM 4500 H+ B

BOD Prep

General Chemistry

Analysis Batch: 113110

Analysis Batch: 113433

Client Sample ID

Client Sample ID

Client Sample ID

Lab Control Sample

Lab Control Sample Dup

C. Lagoon

C. Lagoon

C. Lagoon

C. Lagoon

Method Blank

Prep Batch: 112890 Lab Sample ID

820-9272-1

Lab Sample ID

Lab Sample ID

MB 860-113433/1

LCS 860-113433/2

820-9272-1 DU

LCSD 860-113433/3

820-9272-1

820-9272-1

Prep Batch

Prep Batch

Prep Batch

7

Analysis Batch: 113749

| Lab Sample ID 820-9272-1 | Client Sample ID C. Lagoon | Prep Type Total/NA | Matrix Water | Method SM 5210B | Prep Batch 112890 |
|-----------------------------|-------------------------------|-----------------------|-----------------|--------------------|----------------------|
| SCB 860-113749/2 | Method Blank | Total/NA | Water | SM 5210B | 4 |
| USB 860-113749/1 | Method Blank | Total/NA | Water | SM 5210B | |
| LCS 860-113749/3 | Lab Control Sample | Total/NA | Water | SM 5210B | |

Client Sample ID: C. Lagoon Date Collected: 07/17/23 09:48 Date Received: 07/17/23 11:04

| _ | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|----------------------|------------------|----------------------|-----|--------|---------|---------|------------------|----------------------------------|----------|--------------------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Analysis | SM 2540D | | 1 | 150 mL | 1000 mL | 113433 | 07/21/23 12:21 | ОН | EET HOU |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | | | 113110 | 07/19/23 16:41 | TL | EET HOU |
| Total/NA Total/NA | Prep Analysis | BOD Prep SM 5210B | | 1 | 50 mL | 300 mL | 112890 113749 | 07/18/23 12:44 07/18/23 16:01 | HN HN | EET HOU EET HOU |

Laboratory References:

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

0 0 8

 Lab Sample ID: 820-9272-1 Matrix: Water
 3

 Prepared
 4

 or Analyzed
 Analyst
 Lab

 21/23 12:21
 OH
 EET HOU

 19/23 16:41
 TL
 EET HOU

 18/22 12:44
 UN
 EET HOU

Accreditation/Certification Summary

Laboratory: Eurofins Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority Texas | | ogram | Identification Number | Expiration Date |
|---|---|--|---|---------------------------|
| | | ELAP | T104704215-23-50 | 06-30-24 |
| | | | | |
| The following analytes the agency does not of | are included in this report, bu fer certification. | It the laboratory is not certifi | ied by the governing authority. This list ma | ay include analytes for w |
| The following analytes the agency does not of Analysis Method | are included in this report, bu fer certification . Prep Method | it the laboratory is not certifi Matrix | ied by the governing authority. This list ma Analyte | ay include analytes for w |

Client: City of Tahoka Project/Site: C. Lagoon

| Method | Method Description | Protocol | Laboratory |
|--------------|-------------------------------|----------|------------|
| SM 2540D | Solids, Total Suspended (TSS) | SM | EET HOU |
| SM 4500 H+ B | рН | SM | EET HOU |
| SM 5210B | BOD, 5-Day | SM | EET HOU |
| BOD Prep | Preparation, BOD | SM | EET HOU |

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

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

Sample Summary

| Client: City of Tahoka | |
|-------------------------|--|
| Project/Site: C. Lagoon | |

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 820-9272-1 | C. Lagoon | Water | 07/17/23 09:48 | 07/17/23 11:04 |

| 820-9272 Chain of Custody | Work Order Comments Work Order Comments 5T/PST PRP[Brownfields RRC Superfund :: | Preservative Codes None: NO DI Water: H ₂ O None: NO DI Water: H ₂ O Cool: Cool MeOH: Me H, SO 4; H 7 NaOH: Na H, SO 4; H 7 NaOH: Na H, SO 4; H 7 NaOH: Na NaHSO NaOH: Na NaOH: Na NaOH: Na NaOH: Na NaOH: Na NaOH: Na NaOH: Na NaOH: Na NaOH: Na NaOH: Na NaOH: Na NaOH: Na NaOH: Na NaOH: Na NaOH: Na NaOH: Na NaOH: Na NaOH: Na NaOH: Na NaOH: Na NaOH: Na NaOH: Ascorbic Acid: SAPC Sample Comments NaOH NaOH: Ascorbic Acid: SAPC | Se Ag SiO ₂ Na Sr TI Sn U V Zn Hg: 1631/245.1/7470/7471 | eceived by: (Signature) Date/Time |
|--|--|--|--|---|
| ain of Custody 281) 240-4200, Dallas, TX (214) 902-0300 9) 704-5440, San Antonio, TX (210) 509-3334 5) 585-3443, Lubbock, TX (806) 794-1296 5) 392-7550, Carlsbad, NM (575) 988-3199 7 N 8, S | Program: US State of Project: Reporting: Lev | ANALYSIS REQUEST | As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K o As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U ns Xenco, its affiliates and subcontractors. It assigns standard terms and conditions as incumed by the client if such losses are due to clicumstances beyond the control rofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated. | Date/Time Relinquished by: (Signature) Re |
|)fins Environment Testing Xenco Hobs, NM (57 | April Mond Vene Bill to: (11 different) City of Japa Vene Company Name: (207 Main Box 300 Address: tabalca Tx 79373 City, State ZIP: BOb - Stel - 42-11 Email: | Turn Around Turn Around Image: Second seco | 010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA SE comment and relinquishment of samples constitutes a valid purchase order from dirent company to Eurofit will be liable only for its or samples and shall not assume any responsibility for any losses or expension than charge of \$55.00 will be applied to each project and a charge of \$55 for each sample submitted to Eurofit | y (Signature) Received by: (Signature) |
| Loc: 820 9272 | Project Manager: Company Name: Address: City, State ZIP: Phone: | Project Name: Project Number: Sampler's Name: PO #: SAMPLE RECEIPT Samples Received In Cooler Custody Seat Sample Containers: Total Containers: | Total 200.7 / 60 Circle Method(s) Notce: Signature of this do of service: Eurofins Xenco. of Eurofins Xenco. Aminim | Relingueshed by |

7/24/2023

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Chain of Custody Record



🔅 eurofins |

| Lubbock, 1X / 9424 Phone: 806-794-1296 | | • | | | Environmer | int Testing |
|---|--|---|---|--|--|--------------------|
| Client Information (Sub Contract Lab) | Sampler | Lab F Tayl | M: or Hally | Carrier Tracking No(s); | COC No: 820-7377 1 | |
| client contact Shipping/Receiving | Phone: | E-Ma Holly | ii: y Taylor@et.eurofinsus.com | State of Origin: Texas | Page: Page 1 of 1 | |
| Company Eurofins Environment Testing South Centr | | | Accreditations Required (See note): NELAP Texas | | Job.#⊱ 1820-9272-1 | ļ |
| Address: 4145 Greenbriar Dr | Due Date Requested: 7/24/2023 | | Analysis Re | quested | Preservation Codes: M Hexane | |
| City: Stafford | TAT Requested (days): | | | | B NaOH None C Zn Acetate O AsNaO2 | |
| state, Zp: TX, 77477 | | | | | E National Revealed Revea | |
| Phone: 281-240-4200(Tel) | HO# | | Γ | | F MeOH SH2SO4 G Amchlar SH2SO4 H Ascorbic Acid T TSP Dodec | cahydrate |
| Email: | # OM | | D, 5-D, 10, 5-D, 10, 5-D, | | lice V MCAA | |
| Project Name: General | Project #: 82000937 | | (М)) ОЯ qer Блеqт | | K EDTA w prr4⊷o L EDA Y Trizzma L EDA Z other(speci | (Âi |
| Site: | #MOSS | | 14_001 A_002 A_002 A_005 A_00 | | Other | |
| Sample Identification Client ID (Lab ID) | Sample Date Time | Sample Matrix Type Severate C=Comp, Ceresteold, G=Grab) Bronneau, Avour) | 2844200 H+t bH 28400 28400 28400 Celete 24,116340 Celete 24,116341 Htt 4,241 | | Special Instructions/N | ei ei |
| 0.1 agoon (820-8772-1) | 7/17/7 08:48 | Rest field Cone. | | | | |
| | Central | | | | | |
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| | | | | | | |
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| | | | | | | |
| Vole. Since laboratory accreditations are subject to change, Eurofins Envi vole: Since laboratory accreditations are subject to change, Eurofins Envi procreditation can be not currently for antical accreditation in the State of Organ (| ronment Testing South Central, LLC places the stated above for analysis/tests/matrix being an the central of the series of the s | e ownership of method, and alyzed, the samples must be | I E Evident compliance upon our subcor shipped back to the Eurofins Environment Test | tract laboratories. This sample shipmen g South Central, LLC laboratory or othe | t is forwarded under chain-of-custody. It instructions will be provided. Any chai | If the unges to |
| Possible Hazard Identification | | I and a management | e current to date, return the signed chain of Cus | ooy arcesung to said compliance to Euro assessed if samples are refain | inis covironment lesurig sourt central ted tonner than 1 month) | |
| Unconfirmed | | | Return To Client | Disposal By Lab | hive For Months | |
| Deliverable Requested: I II, III, IV Other (specify) | Primary Deliverable Rank: 2 | | Special Instructions/QC Requirem | ents: | | |
| Empty Kit Relinquished by | Date: | | Time: | Method of Shipment | | |
| Reinquished by: | Dave 17/7/23 17 | ZCO Company | Received by FedEX | Date/Time: | Company | |
| Relinquished by: FedEX | Date/Time: | Company | Received by: | Date/Time: 7/18/2 | 023 10 06 Company E | ដ |
| telinquished by: | Date/Time: | Company | Received by: | Date/Time: | IR ID-HOU-338 IN | |
| Custody Seals Intact: Custody Seal No. | | | Cooler Temperature(s) °C and Other F | emarks: C/F -0.3 | 0.1.1. | |
| | | | - | Corrected | emp • • • Ver 06/08/2(| 100 |

Login Sample Receipt Checklist

Client: City of Tahoka

Login Number: 9272 List Number: 1 Creator: Triplett, Colby

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

Job Number: 820-9272-1

List Source: Eurofins Lubbock

13

<6mm (1/4").

Client: City of Tahoka

Login Number: 9272 List Number: 2 Creator: Pena, Jesiel

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

Job Number: 820-9272-1

List Source: Eurofins Houston

List Creation: 07/18/23 01:12 PM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Raymond Vega City of Tahoka PO BOX 300 Tahoka, Texas 79373 Generated 8/28/2023 5:23:41 PM

JOB DESCRIPTION

C. Lagoon

JOB NUMBER

820-9753-1

Eurofins Lubbock 6701 Aberdeen Ave. Suite 8 Lubbock TX 79424



See page two for job notes and contact information.



Eurofins Lubbock

Job Notes

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

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization

aylor

Generated 8/28/2023 5:23:41 PM 1

5

Authorized for release by Holly Taylor, Project Manager Holly.Taylor@et.eurofinsus.com (806)794-1296

Table of Contents

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| | |

3

Qualifiers

| General Chemis | stry |
|----------------|--|
| Qualifier | Qualifier Description |
| HF | Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time. |
| U | Indicates the analyte was analyzed for but not detected. |
| 0 | |

Glossary

| пг | rarameter with a notuling time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time. | |
|----------------|---|----|
| U | Indicates the analyte was analyzed for but not detected. | 5 |
| Glossary | | 6 |
| Abbreviation | These commonly used abbreviations may or may not be present in this report. | |
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis | 7 |
| %R | Percent Recovery | |
| CFL | Contains Free Liquid | 0 |
| CFU | Colony Forming Unit | 0 |
| CNF | Contains No Free Liquid | 0 |
| DER | Duplicate Error Ratio (normalized absolute difference) | 9 |
| Dil Fac | Dilution Factor | |
| DL | Detection Limit (DoD/DOE) | |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample | |
| DLC | Decision Level Concentration (Radiochemistry) | |
| EDL | Estimated Detection Limit (Dioxin) | |
| LOD | Limit of Detection (DoD/DOE) | |
| LOQ | Limit of Quantitation (DoD/DOE) | |
| MCL | EPA recommended "Maximum Contaminant Level" | 13 |
| MDA | Minimum Detectable Activity (Radiochemistry) | |
| MDC | Minimum Detectable Concentration (Radiochemistry) | |
| MDL | Method Detection Limit | |
| ML | Minimum Level (Dioxin) | |
| MPN | Most Probable Number | |
| MQL | Method Quantitation Limit | |
| NC | Not Calculated | |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) | |
| NEG | Negative / Absent | |
| POS | Positive / Present | |
| PQL | Practical Quantitation Limit | |
| PRES | Presumptive | |
| QC | Quality Control | |
| RER | Relative Error Ratio (Radiochemistry) | |
| RL | Reporting Limit or Requested Limit (Radiochemistry) | |
| RPD | Relative Percent Difference, a measure of the relative difference between two points | |
| TEF | Toxicity Equivalent Factor (Dioxin) | |
| TEQ | Toxicity Equivalent Quotient (Dioxin) | |
| TNTC | Too Numerous To Count | |

Job ID: 820-9753-1

Laboratory: Eurofins Lubbock

Narrative

Job Narrative 820-9753-1

Receipt

The sample was received on 8/21/2023 11:54 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 14.6°C

General Chemistry

Method 2540D: Due to the matrix, the initial volume(s) used for the following sample(s) deviated from the standard procedure: total suspended solids. The reporting limits (RLs) have been adjusted proportionately.

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

Matrix: Water

Lab Sample ID: 820-9753-1

Project/Site: C. Lagoon

Client: City of Tahoka

Client Sample ID: C. Lagoon Date Collected: 08/21/23 09:05

Date Received: 08/21/23 11:54

| General Chemistry | | | | | | | | | |
|-------------------------------|--------|-----------|------|------|-----------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total Suspended Solids (SM | 82.7 | | 26.7 | 26.7 | mg/L | | | 08/28/23 08:07 | 1 |
| 2540D) | | | | | | | | | |
| рН (SM 4500 Н+ В) | 8.9 | HF | | | SU | | | 08/28/23 12:19 | 1 |
| Temperature (SM 4500 H+ B) | 18.2 | HF | | | Degrees C | | | 08/28/23 12:19 | 1 |
| Biochemical Oxygen Demand (SM | 20.9 | | 12.0 | 12.0 | mg/L | | 08/22/23 21:15 | 08/22/23 22:22 | 1 |
| 5210B) | | | | | | | | | |

Method: SM 2540D - Solids, Total Suspended (TSS)

| Lab Sample ID: MB 860-119004/1 | | | | | | | | | | | | Client S | Sample ID: | Metho | d Blank |
|--|---------|-------|-----------|-------|-------|--------|------|--------|--------|------------|------|----------|---------------------|---|-------------------|
| Matrix: Water | | | | | | | | | | | | | Prep | Type: T | otal/NA |
| Analysis Batch: 119004 | | | | | | | | | | | | | | | |
| | _ | MB | MB | | | | | | | _ | _ | <u>.</u> | | _ | |
| Analyte Total Supported Solida | R | esult | Qualifier | | | | MDL | Unit | | . <u>D</u> | Р | repared | Analy | zed | Dil Fac |
| | < | 4.00 | U | | 4.00 | | 4.00 | mg/∟ | | | | | 08/28/23 | 08:07 | .1 |
| Lab Sample ID: LCS 860-119004/2 Matrix: Water | | | | | | | | | | CI | ient | Sample | e ID: Lab C Prep | ontrol : Type: T | Sample otal/NA |
| Analysis Batch: 119004 | | | | | | | | | | | | | | | |
| | | | | Spike | | LCS | LCS | | | | | | %Rec | | |
| Analyte | | | | Added | | Result | Qua | lifier | Unit | | D | %Rec | Limits | | |
| Total Suspended Solids | | | | 100 | | 92.00 | | | mg/L | | | 92 | 80 - 120 | | |
| Lab Sample ID: I CSD 860-119004/3 | 2 | | | | | | | | C | liont | Sam | | Lab Contr | ol Samı | |
| Matrix: Water | · | | | | | | | | | | oun | ipic ib. | Pren | Type: T | otal/NA |
| Analysis Batch: 119004 | | | | | | | | | | | | | i iop | .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | otunita |
| | | | | Spike | | LCSD | LCS | D | | | | | %Rec | | RPD |
| Analyte | | | | Added | | Result | Qua | lifier | Unit | | D | %Rec | Limits | RPD | Limit |
| Total Suspended Solids | | | | 100 | | 89.00 | | | mg/L | | _ | 89 | 80 - 120 | 3 | 10 |
| Method: SM 4500 H+ B - pH | | | | | | | | | | | | | | | |
| Lab Sample ID: 820-9753-1 DU | | | | | | | | | | | | Clie | nt Sample | | adoon |
| Matrix: Water | | | | | | | | | | | | one | Prep | Type: T | otal/NA |
| Analysis Batch: 119103 | | | | | | | | | | | | | | .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | |
| ····· · | Sample | Sam | ple | | | DU | DU | | | | | | | | RPD |
| Analyte | Result | Qua | lifier | | | Result | Qua | lifier | Unit | | D | | | RPD | Limit |
| рН | 8.9 | HF | | | | 8.9 | | | SU | | _ | | | 0.1 | 20 |
| Temperature | 18.2 | HF | | | | 18.2 | | | Degree | es C | | | | 0 | 20 |
| Method: SM 5210B - BOD, 5-D | ay | | | | | | | | | | | | | | |
| Lab Sample ID: SCB 860-118984/2 | | | | | | | | | | | | Client 9 | Sample ID: | Metho | d Blank |
| Matrix: Water | | | | | | | | | | | | onent | Pren | Type: T | otal/NA |
| Analysis Batch: 118984 | | | | | | | | | | | | | | .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | |
| ····· · | | SCB | SCB | | | | | | | | | | | | |
| Analyte | R | esult | Qualifier | | RL | | MDL | Unit | | D | Ρ | repared | Analy | zed | Dil Fac |
| Biochemical Oxygen Demand | 0. | 9900 | | 0.00 | 00020 | 0.000 | 0020 | mg/L | | | | | 08/22/23 | 21:31 | 1 |
| | | | | | 0 | | 0 | | | | | | | | |
| Lab Sample ID: USB 860-118984/1 | | | | | | | | | | | | Client S | Sample ID: | Metho | d Blank |
| Matrix: Water | | | | | | | | | | | | | Prep | Type: T | otal/NA |
| Analysis Batch: 118984 | | | | | | | | | | | | | | | |
| | | USB | USB | | | | | | | | | | | | |
| Analyte | R | esult | Qualifier | | RL | | MDL | Unit | | D | Ρ | repared | Analy | zed | Dil Fac |
| Biochemical Oxygen Demand | <0.0000 | 0200 | U | 0.00 | 00020 | 0.000 | 0020 | mg/L | | | | | 08/22/23 | 21:29 | 1 |
| | | | | | 0 | | 0 | | | | | | | | |
| Lab Sample ID: LCS 860-118984/3 | | | | | | | | | | С | ient | Sample | D. I ah C | ontrol | Sample |
| Matrix: Water | | | | | | | | | | | | Jumpic | Pren | Type: T | otal/NA |
| Analysis Batch: 118984 | | | | | | | | | | | | | | 1000 | |
| • | | | | Spike | | LCS | LCS | | | | | | %Rec | | |
| Analyte | | | | Added | | Result | Qua | lifier | Unit | | D | %Rec | Limits | | |
| Biochemical Oxygen Demand | | | | 198 | | 191.4 | | | mg/L | | | 97 | 85 - 115 | | |

5 6

2 3 4 5 6 7 8 9 10 11 12 13

General Chemistry

Prep Batch: 118383

| Lab Sample ID | Client Sample ID | Ргер Туре | Matrix | Method | Prep Batch |
|-----------------------|------------------------|-----------|--------|--------------|------------|
| 820-9753-1 | C. Lagoon | Total/NA | Water | BOD Prep | |
| Analysis Batch: 11898 | 34 | | | | |
| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
| 820-9753-1 | C. Lagoon | Total/NA | Water | SM 5210B | 118383 |
| SCB 860-118984/2 | Method Blank | Total/NA | Water | SM 5210B | |
| USB 860-118984/1 | Method Blank | Total/NA | Water | SM 5210B | |
| LCS 860-118984/3 | Lab Control Sample | Total/NA | Water | SM 5210B | |
| Analysis Batch: 11900 |)4 Client Sample ID | Pren Type | Matrix | Method | Prep Batch |
| 820-9753-1 | C. Lagoon | Total/NA | Water | SM 2540D | |
| MB 860-119004/1 | Method Blank | Total/NA | Water | SM 2540D | |
| LCS 860-119004/2 | Lab Control Sample | Total/NA | Water | SM 2540D | |
| LCSD 860-119004/3 | Lab Control Sample Dup | Total/NA | Water | SM 2540D | |
| Analysis Batch: 11910 |)3 | | | | |
| Lab Sample ID | Client Sample ID | Ргер Туре | Matrix | Method | Prep Batch |
| 820-9753-1 | C. Lagoon | Total/NA | Water | SM 4500 H+ B | |
| 820-9753-1 DU | C. Lagoon | Total/NA | Water | SM 4500 H+ B | |

Client Sample ID: C. Lagoon Date Collected: 08/21/23 09:05 Date Received: 08/21/23 11:54

| _ | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|--------------|-----|--------|---------|---------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Analysis | SM 2540D | | 1 | 150 mL | 1000 mL | 119004 | 08/28/23 08:07 | OH | EET HOU |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | | | 119103 | 08/28/23 12:19 | TL | EET HOU |
| Total/NA | Prep | BOD Prep | | | | | 118383 | 08/22/23 21:15 | ALL | EET HOU |
| Total/NA | Analysis | SM 5210B | | 1 | 50 mL | 300 mL | 118984 | 08/22/23 22:22 | ALL | EET HOU |

Laboratory References:

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

Lab Sample ID: 820-9753-1 Matrix: Water

5 6

Accreditation/Certification Summary

Laboratory: Eurofins Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | | ogram | Identification Number | Expiration Date |
|---|---|---|---|----------------------------|
| Texas | N | ELAP | T104704215-23-51 | 06-30-24 |
| | | | | |
| The following analytes the agency does not of | are included in this report, bu fer certification. | it the laboratory is not certif | ied by the governing authority. This list ma | ay include analytes for wh |
| The following analytes the agency does not of Analysis Method | are included in this report, bu fer certification . Prep Method | It the laboratory is not certif Matrix | ied by the governing authority. This list ma Analyte | ay include analytes for wh |

Client: City of Tahoka Project/Site: C. Lagoon

| Method | Method Description | Protocol | Laboratory |
|--------------|-------------------------------|----------|------------|
| SM 2540D | Solids, Total Suspended (TSS) | SM | EET HOU |
| SM 4500 H+ B | pH | SM | EET HOU |
| SM 5210B | BOD, 5-Day | SM | EET HOU |
| BOD Prep | Preparation, BOD | SM | EET HOU |

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

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

Sample Summary

| Client: City of Tahoka | |
|-------------------------|--|
| Project/Site: C. Lagoon | |

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 820-9753-1 | C. Lagoon | Water | 08/21/23 09:05 | 08/21/23 11:54 |

| 9753 ofins | Environment Te Xenco | sting | Mid EL | ouston, TX and, TX (4: Paso, TX (5 | Tain of (281) 240-4200, (281) 240-4200, (281) 240-5440, 5al (15) 585-3443, Lu | Custody Dallas, TX (214) 902-0300 A Antonio, TX (210) 509-333 Jubbock, TX (806) 794-1296 | 24 | 820-9753 Ch | ain of Custody | |
|--|--|--|---|--|--|--|--|---|---|----------------------------------|
| | | | Н | bbs, NM (| 75) 392-7550, C | arlsbad, NM (575) 988-3199 | PHB | . S www.xenco.c | com Page | of |
| Project Manager: Ray | movel Vega | | Bill to: (if diffe | rent) | | | | Work Ord | er Comments | |
| Company Name: U.Y.Y | Al a har | 007 | Company Na Addrace: | ne: | Y | 0.8.0 | Progra | im: USI/PSIPKP of Project: | Brownneids | |
| City, State ZIP: | 7. 79.3 | 000 | City, State ZIF | |) | ave - | Report | ting: Level II 🗌 Level III 🗌 | | TRRP Level IV |
| Phone: Bry54 | 1-421 | Email: | | | | | Delive | rables: EDD | | ther: |
| Project Name: | - | Turn | Around | | | AN | ALYSIS REQUEST | | Preser | vative Codes |
| Project Number: | | Routine | Rush | Pres. Code | | | | | None: NO | DI Water: H ₂ O |
| Project Location: | | Due Date: | | | | | | | Cool: Cool | MeOH: Me |
| Sampler's Name: | | TAT starts the the tab. if rec | day received by eived by 4:30pm | | | | | | HCL: HC | NH 3: UN HO |
| | | | | sua | | | | | | |
| SAMPLE KECEIPI Te | mp Blank: Yes No | Wet Ice: | | ameto | | | | | NaHSO 4: NP | ABIS |
| Cooler Custody Seals: Yes | No (1) Correction | Factor: | 1.0- | bara | | | | | Na ₂ S ₂ O ₃ : N | aSO 3 |
| Sample Custody Seals: Yes | No 🕅 Temperatu | rre Reading: | 14.7 | | | | | | Zn Acetate+ | -NaOH: Zn |
| Total Containers: | L Corrected | Temperature: | 9.41 | | J | ζ | | | NaOH+Asco | Irbic Acid: SAPC |
| Sample Identification | Matrix Date Sampled | Time Sampled | Depth Gra | b/ #of np Cont | U d G | 5- | | | Samp | le Comments |
| C Lacon | 5/11/2 | 9.05 a | 1 | 2 | 2 | 7 | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
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| | | | | | | | | | | |
| Total 200.7 / 6010 200 Circle Method(s) and Metal(: | .8 / 6020: Ε s) to be analyzed | BRCRA 13PF TCLP/S | M Texas 1 PLP 6010 : 8 | I AI SŁ | o As Ba Be Sb As Ba Be | B Cd Ca Cr Co Cu e Cd Cr Co Cu Pb | u Fe Pb Mg Mn M Mn Mo Ni Se Ag T | o Ni K Se Ag SiO ₂ Na I U Hg: 1631 / 24 | a Sr Tl Sn U V 45.1 / 7470 / 74 | ' Zn (71 |
| Notice: Signature of this document and relind of service. Eurofins Xenco will be liable only fr of Eurofins Xenco. A minimum charge of \$85. | utshment of samples constitutes a or the cost of samples and shall nc 00 will be applied to each project | a valid purchase ord of assume any respo and a charge of \$5 | ler from client com insibility for any lo: for each sample su | pany to Euro ses or exper bmitted to I | fins Xenco, its affil ises Incurred by th curofins Xenco, bu | lates and subcontractors. It as: e client if such losses are due to t not analyzed. These terms will | signs standard terms and cond o circumstances beyond the co Il be enforced unless previously | ttons ntrol negotlated. | | |
| Relinguished by (Signature) | Received | by: (Signatur | (a | | Date/Time | Relinquishe | d by: (Signature) | Received by: (Signa | ature) | Date/Time |
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| | | | | | | | | | The view | N LARE VOLEN EVEN IN TO THE TANK |

8/28/2023

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| Eurofins Lubbock | | | | | | | | | ł | F | | | | | |
|--|---------------------------------|--------------------------------------|-----------------------------------|---|--|-------------------|-------------|------------|-------------------------|------------------------------|---------------|---------------------|---|-------------------------------|-------------------|
| 6701 Aberdeen Ave. Suite 8 Lubbock, TX 79424 Phone: 806-794-1996 | 0 | hain o | f Cust | ody R | ecord | | | | | к.п К.п | | | 🔅 eurofins | Environ | ment Testing |
| Client Information (Sub Contract Lab) | Sampler | | | Lab Ph Taylo | r Holly | | | | C | nier Trackin | g Na(s): | | COC No: 820-7670.1 | | |
| Client Contact: Shipping/Receiving | Phone: | | | E-Mail: Holly | Taylor@e | Leurofir | ISUS.COM | | ле Те | te of Origin: Xas | | | Page: Page 1 of 1 | | |
| Company: Eurofins Environment Testing South Centr | | | | | Accreditation | s Require exas | d (See not | e): | | | | | Job #: 820-9753-1 | | |
| Address: 4145 Greenbriar Dr | Due Date Requester 8/28/2023 | H | | | | | A, | alvsis | Reque | isted | | | Preservation Co | des: | u ľ |
| City. Stafford | TAT Requested (da) | ŝ | | | | | | { | _ | | | 5 pro 11 | A HCL B NaOH C Zn Acetate | N None | Ň |
| State, Zp: TX, 77477 | | | | | | | | | | | | | D Nitric Acid E NaHSO4 | P Nazua Q Nazsc R Nazsz | ට ය ග ය |
| Phone: 281-240-4200(Tel) | PO 井 | | | | i)) Jay | | | | | | | | G Amehlor G Amehlor H Ascorbic Acid | S H2SO4 | t xdecahydrate |
| Emali: | WO 株 | | | | 000180 81-1) _ 0 D, 6- D | | | | | | | | I Ice J Di Water | V MCAA | - ō |
| Project Name: General | Project #: 82000937 | | | | rep BC | | | | | | | 6 | | Y Trizma Z other (s | (vjicecify) |
| Site: | SSOW# | | | | Tthiti Ete()/ BOD_P | | | | | | | | Other | | |
| | | Cample | Sample Type | Matrix (^{Wu} water, ^{Sana} olid, | analiter can teachtfol an 210B_Calc/ | D | | | | | | | 11956111(578) | | |
| Sample Identification Client ID (Lab ID) | Sample Date | Time | G≔grab) ⊧ | T=Taque, A=Air) | < (3, () ≺{}-то _ SM | 254 | | | | | | | Special In | nstruction | s/Note: |
| C. Lagoon (820-9753-1) | 8/21/23 | 09:05 Central | | Water | × | × | <u>~</u> | | | | | | 1(8) | | |
| | | | | | - | | | | | | | | | | |
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| | | | | | | | | | | | | | C/F:-0.3 Corrected Terr | ip / | |
| Note: Since laboratory accreditations are subject to change, Eurofins Environment laboratory does not currently maintain accreditation in the State of Origin listed ab | Testing South Centre | lí, LLC places tr natrix being an | te ownership o alyzed, the sar | noles must be | /te & accredi shipped back | tation con | hptiance up | ion our su | boontract Testing Sc | laboratories with Central | . This san | hpie shipme | ent is forwarded under c | hain-of-custo | dy. If the |
| accreditation status should be brought to Eurofins Environment Testing South Cer Possible Hazard Identification | itral, LLC attention im/ | nediately. If all | requested acc | reditations are | current to da | e Dispo | the signed | Chain of | Custody a | itlesting to s | aid compli | ance to Eu | rofins Environment Test | ling South Ca | intral, LLC. |
| Unconfirmed | | | | | | Return 7 | o Client | | Disp | osal By L | ab. | []] <u>></u> | chive For | Month | ú |
| Deliverable Requested: 1, 11 III, 1V Other (specify) | Primary Delivera | ble Rank: 2 | | | Specia | Instruc | tions/QC | Requir | ements. | | | | | | |
| Empty Kit Relinquished by | | Date: | | | Time; | | | | | Method o | of Shipmen | - 7 - | | | |
| Relinquished by: | Date/Time: | | | Company | Rec | eived by: | | | | | DaterTic | ne: | | Company | |
| Relinquished by | Date/Time: | | | Jompany | Rec | eived by: | | | 5 | | Date/Tr | ^{me:} 8/22 | 1/2023 9:23 | Company | Q |
| Relinquished by: | Date/Time: | | <u> </u> | Company | Rec | eived | - | | Э. | a.Kc | < CDate/Ti | me: | | Company | |
| Custody Seals Intact Custody Seal No. ∆ Yes ∆ No | | | | | 0 | ler Temp | "(s)ampia | C and Off | ier Rema | S. | | | | | |
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Ver: 06/08/2021

8/28/2023

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11 12 13

Login Sample Receipt Checklist

Client: City of Tahoka

Login Number: 9753 List Number: 1 Creator: Triplett, Colby

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

Job Number: 820-9753-1

List Source: Eurofins Lubbock

<6mm (1/4").

Client: City of Tahoka

Login Number: 9753 List Number: 2 Creator: Baker, Jeremiah

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

Job Number: 820-9753-1

List Source: Eurofins Houston

List Creation: 08/22/23 11:28 AM

13



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Raymond Vega City of Tahoka PO BOX 300 Tahoka, Texas 79373 Generated 9/29/2023 11:13:41 AM

JOB DESCRIPTION

C. Lagoon

5 6

JOB NUMBER

820-10198-1

Eurofins Lubbock 6701 Aberdeen Ave. Suite 8 Lubbock TX 79424



See page two for job notes and contact information.


Eurofins Lubbock

Job Notes

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

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization

aylor

Generated 9/29/2023 11:13:41 AM

1

5

Authorized for release by Holly Taylor, Project Manager Holly.Taylor@et.eurofinsus.com (806)794-1296

Table of Contents

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3

5

Qualifiers

| General Chemistry | | | | | | | |
|-------------------|--|--|--|--|--|--|--|
| Qualifier | Qualifier Description | | | | | | |
| HF | Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time. | | | | | | |
| U | Indicates the analyte was analyzed for but not detected. | | | | | | |
| HF U | Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time. Indicates the analyte was analyzed for but not detected. | | | | | | |

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|---|
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

Job ID: 820-10198-1

Laboratory: Eurofins Lubbock

Narrative

Job Narrative 820-10198-1

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

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

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

Receipt

The sample was received on 9/21/2023 11:15 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 19.0°C

General Chemistry

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

Project/Site: C. Lagoon

Client: City of Tahoka

Client Sample ID: C. Lagoon

Date Collected: 09/21/23 10:30 Date Received: 09/21/23 11:15

Lab Sample ID: 820-10198-1 Matrix: Water

Watrix. Water

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| General Chemistry | | | | | | | | | |
|--------------------------------------|--------|-----------|------|------|-----------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total Suspended Solids (SM | 76.0 | | 40.0 | 40.0 | mg/L | | | 09/27/23 09:24 | 1 |
| 2540D) | | | | | | | | | |
| pH (SM 4500 H+ B) | 8.8 | HF | | | SU | | | 09/25/23 13:34 | 1 |
| Temperature (SM 4500 H+ B) | 19.1 | HF | | | Degrees C | | | 09/25/23 13:34 | 1 |
| Biochemical Oxygen Demand (SM 5210B) | 23.7 | | 12.0 | 12.0 | mg/L | | 09/22/23 13:26 | 09/22/23 15:14 | 1 |

Method: SM 2540D - Solids, Total Suspended (TSS)

| Lab Sample ID: MB 860-123641/1 | | | | | | | | | | Client S | Sample ID: Me | thod | Blank |
|--|------------|-----------|-----------|------|--------|--------|------|-------|----------|----------|---------------------------|-----------------|------------------|
| Matrix: Water | | | | | | | | | | | Prep Tvr | oe: To | tal/NA |
| Analysis Batch: 123641 | | | | | | | | | | | | | |
| · · · · · · · · · · · · · · · · · · · | МВ | МВ | | | | | | | | | | | |
| Analyte | Result | Qualifier | RL | | MDL | Unit | | D | Р | repared | Analyzed | | Dil Fac |
| Total Suspended Solids | <4.00 | U | 4.00 | | 4.00 | mg/L | | | | • | 09/27/23 09: | 24 | 1 |
| | | | | | | Ū | | | | | | | |
| Lab Sample ID: LCS 860-123641/2 | | | | | | | | CI | lient | Sample | ID: Lab Con | trol S | ample |
| Matrix: Water | | | | | | | | | | | Prep Typ | be: To | tal/NA |
| Analysis Batch: 123641 | | | | | | | | | | | | | |
| | | | Spike | LC | S LCS | 6 | | | | | %Rec | | |
| Analyte | | | Added | Resu | lt Qua | lifier | Unit | | D | %Rec | Limits | | |
| Total Suspended Solids | | | 100 | 105. | 0 | | mg/L | | _ | 105 | 80 - 120 | | |
| | | | | | | | | | | | | | |
| Lab Sample ID: LCSD 860-123641/3 | 3 | | | | | | С | lient | Sam | ple ID: | Lab Control S | Samp | le Dup |
| Matrix: Water | | | | | | | | | | | Prep Typ | be: To | tal/NA |
| Analysis Batch: 123641 | | | | | | | | | | | | | |
| | | | Spike | LCS | D LCS | 5D | | | | | %Rec | | RPD |
| Analyte | | | Added | Resu | It Qua | lifier | Unit | | D | %Rec | Limits | RPD | Limit |
| Total Suspended Solids | | | 100 | 103. | 0 | | mg/L | | | 103 | 80 - 120 | 2 | 10 |
| Lab Sample ID: SCB 860-123687/2 Matrix: Water | ay | | | | | | | | | Client S | Sample ID: Me Prep Typ | ethod be: To | Blank otal/NA |
| Analysis Batch: 123687 | | | | | | | | | | | | | |
| | SCB | SCB | | | | | | | | | | | |
| Analyte | Result | Qualifier | RL | : | MDL | Unit | | D | Р | repared | Analyzed | | Dil Fac |
| Biochemical Oxygen Demand | 0.8700 | | 0.0000020 | 0.00 | 000020 | mg/L | | | | | 09/22/23 14: | 14 | 1 |
| | | | C | | 0 | | | | | | | | |
| Lab Sample ID: USB 860-123687/1 | | | | | | | | | | Client S | Sample ID: Me | thod | Blank |
| Matrix: Water | | | | | | | | | | | Prep Tvr | e: To | tal/NA |
| Analysis Batch: 123687 | | | | | | | | | | | | | |
| · · · · · · · · · · · · · · · · · · · | USB | USB | | | | | | | | | | | |
| Analyte | Result | Qualifier | RL | | MDL | Unit | | D | Р | repared | Analyzed | | Dil Fac |
| Biochemical Oxygen Demand | <0.0000200 | U | 0.0000020 | 0.0 | 000020 | mg/L | | | | • | 09/22/23 14: | 11 | 1 |
| | | | C | | 0 | | | | | | | | |
| Γ | | | | | | | | _ | | | | | _ |
| Lab Sample ID: LCS 860-123687/3 | | | | | | | | CI | lient | Sample | D: Lab Con | trol S | ample |
| Matrix: Water | | | | | | | | | | | Prep Typ | be: To | tal/NA |
| Analysis Batch: 123687 | | | | | | | | | | | | | |
| | | | Spike | LC | S LCS | 5 | | | _ | | %Rec | | |
| Analyte | | | Added | Resu | It Qua | lifier | Unit | | <u>D</u> | %Rec | Limits | | |
| Biochemical Oxygen Demand | | | 198 | 169. | 4 | | mg/L | | | 86 | 85 - 115 | | |

Biochemical Oxygen Demand

General Chemistry

Prep Batch: 123014

LCS 860-123687/3

Lab Control Sample

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------------|------------------------|-----------|--------|--------------|------------|
| 820-10198-1 | C. Lagoon | Total/NA | Water | BOD Prep | |
| Analysis Batch: 12328 | 35 | | | | |
| Lab Sample ID | Client Sample ID | Ргер Туре | Matrix | Method | Prep Batch |
| 820-10198-1 | C. Lagoon | Total/NA | Water | SM 4500 H+ B | |
| Analysis Batch: 12364 | 11 | | | | |
| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
| 820-10198-1 | C. Lagoon | Total/NA | Water | SM 2540D | |
| MB 860-123641/1 | Method Blank | Total/NA | Water | SM 2540D | |
| LCS 860-123641/2 | Lab Control Sample | Total/NA | Water | SM 2540D | |
| LCSD 860-123641/3 | Lab Control Sample Dup | Total/NA | Water | SM 2540D | |
| Analysis Batch: 12368 | 37 | | | | |
| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
| 820-10198-1 | C. Lagoon | Total/NA | Water | SM 5210B | 123014 |
| SCB 860-123687/2 | Method Blank | Total/NA | Water | SM 5210B | |
| USB 860-123687/1 | Method Blank | Total/NA | Water | SM 5210B | |

Total/NA

Water

SM 5210B

Client Sample ID: C. Lagoon Date Collected: 09/21/23 10:30 Date Received: 09/21/23 11:15

| _ | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|--------------|-----|--------|---------|---------|--------|----------------|---------|---------|
| Ргер Туре | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Analysis | SM 2540D | | 1 | 100 mL | 1000 mL | 123641 | 09/27/23 09:24 | SA | EET HOU |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | | | 123285 | 09/25/23 13:34 | KEG | EET HOU |
| Total/NA | Prep | BOD Prep | | | | | 123014 | 09/22/23 13:26 | ALL | EET HOU |
| Total/NA | Analysis | SM 5210B | | 1 | 50 mL | 300 mL | 123687 | 09/22/23 15:14 | HN | EET HOU |

Laboratory References:

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

Lab Sample ID: 820-10198-1 Matrix: Water 5 6

Accreditation/Certification Summary

Laboratory: Eurofins Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | F | rogram | Identification Number | Expiration Date |
|---|--|--|---|-------------------------|
| Texas | | IELAP | T104704215-23-53 | 06-30-24 |
| | | | | |
| The following analytes the agency does not of | are included in this report, l fer certification. | but the laboratory is not certif | ied by the governing authority. This list ma | ay include analytes for |
| The following analytes the agency does not of Analysis Method | are included in this report, t fer certification . Prep Method | but the laboratory is not certif Matrix | ied by the governing authority. This list ma Analyte | ay include analytes for |

Client: City of Tahoka Project/Site: C. Lagoon

| Method | Method Description | Protocol | Laboratory |
|--------------|-------------------------------|----------|------------|
| SM 2540D | Solids, Total Suspended (TSS) | SM | EET HOU |
| SM 4500 H+ B | pH | SM | EET HOU |
| SM 5210B | BOD, 5-Day | SM | EET HOU |
| BOD Prep | Preparation, BOD | SM | EET HOU |

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

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

Sample Summary

| | | | - | - | |
|------------|----------------|--|---|---|--|
| Client: Ci | ty of Tahoka | | | | |
| Project/S | ite: C. Lagoon | | | | |

| | | Maderia | O alla atta d | Desciond |
|---------------|------------------|---------|----------------|----------------|
| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
| 820-10198-1 | C. Lagoon | Water | 09/21/23 10:30 | 09/21/23 11:15 |

Superfund Reporting: Level II Cevel II PST/UST TRRP CEVEI IV DI Water: H₂O Revised Date: 08/25/2020 Rev. 2020.2 MeOH: Me HNO 3: HN NaOH: Na Sample Comments **Preservative Codes** NaOH+Ascorbic Acid: SAPC Date/Time ō Zn Acetate+NaOH: Zr Program: UST/PST PRP Brownfields RRC Na 25 203: NaSO 3 8RCRA 13PPM Texas 11 AI Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr TI Sn U V Zn Other: NaHSO 4: NABIS Hg: 1631 / 245.1 / 7470 / 747⁻ 820-10198 Chain of Custody None: NO H₂S0 4: H₂ H₃PO 4: HP Page. Cool: Cool Work Order Comments HCL: HC ADaPT Received by: (Signature) www.xenco.com EDD State of Project: of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated. Deliverables: TCLP/SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of estimates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control nouscon, 1 x (281) 240-420, Dallas, 1 x (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 PK 8. S ANALYSIS REQUEST Relinquished by: (Signature) Y Veyer la hole or a wind string at Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Chain of Custody 11:15 00 251 7 42 Date/Time 0 τ 1/21/23 # of Cont Pres. Parameters 5 Bill to: (if different) Company Name: Comp Grab/ 12-4 City, State ZIP: TAT starts the day received by the lab, if received by 4:30pm (Yes) No ŝ 10 Address: Rush Depth Turn Around Receised by: (Signature) Email: Routine 10 30 an Corrected Temperature: Sampled Due Date: Wet Ice: Time 156,300 **Temperature Reading:** Environment Testing Correction Factor: Thermometer ID: abbe 79372 Veg a 9-21-23 Sampled Yes No Date Circle Method(s) and Metal(s) to be analyzed 8 1-421 Matrix n w h Xenco MOMPO Temp Blank: 200.8 / 6020: 10 Yes JNo 806-5W Yes No Ta haka ĉ Yes Relinquished by: (Signature) fins 20 Sample Identification 1. 6 4900 A Samples Received Intact: Total 200.7 / 6010 Cooler Custody Seals: Sample Custody Seals SAMPLE RECEIPT 10198 Total Containers: Project Manager: Loc: 820 Company Name: Project Number Project Location: Sampler's Name: City, State ZIP: Project Name: "ma Address: Phone: :# Od

5 6 7

<mark>12</mark> 13

Login Sample Receipt Checklist

Client: City of Tahoka

Login Number: 10198 List Number: 1 Creator: Triplett, Colby

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

Job Number: 820-10198-1

List Source: Eurofins Lubbock

<6mm (1/4").

Client: City of Tahoka

Login Number: 10198 List Number: 2 Creator: Baker, Jeremiah

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

List Source: Eurofins Houston

List Creation: 09/22/23 10:20 AM

<6mm (1/4").



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Raymond Vega City of Tahoka PO BOX 300 Tahoka, Texas 79373 Generated 10/25/2023 6:44:17 PM

JOB DESCRIPTION

C Lagoon

5 6

JOB NUMBER

820-10592-1

Eurofins Lubbock 6701 Aberdeen Ave. Suite 8 Lubbock TX 79424





Eurofins Lubbock

Job Notes

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

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization

aylor

Generated 10/25/2023 6:44:17 PM

Authorized for release by Holly Taylor, Project Manager Holly.Taylor@et.eurofinsus.com (806)794-1296

1

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| | |

3

Qualifiers

| General Chemi | stry |
|----------------------|--|
| Qualifier | Qualifier Description |
| HF | Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time. |
| U | Indicates the analyte was analyzed for but not detected. |

Glossary

| пг | rarameter with a notuling time of 15 minutes. Test performed by laboratory at cheft's request. Sample was analyzed outside of hold time. | |
|----------------|--|----|
| U | Indicates the analyte was analyzed for but not detected. | 5 |
| Glossary | | 6 |
| Abbreviation | These commonly used abbreviations may or may not be present in this report. | |
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis | 7 |
| %R | Percent Recovery | |
| CFL | Contains Free Liquid | 0 |
| CFU | Colony Forming Unit | Ο |
| CNF | Contains No Free Liquid | |
| DER | Duplicate Error Ratio (normalized absolute difference) | 9 |
| Dil Fac | Dilution Factor | |
| DL | Detection Limit (DoD/DOE) | |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample | |
| DLC | Decision Level Concentration (Radiochemistry) | |
| EDL | Estimated Detection Limit (Dioxin) | |
| LOD | Limit of Detection (DoD/DOE) | |
| LOQ | Limit of Quantitation (DoD/DOE) | |
| MCL | EPA recommended "Maximum Contaminant Level" | 13 |
| MDA | Minimum Detectable Activity (Radiochemistry) | |
| MDC | Minimum Detectable Concentration (Radiochemistry) | |
| MDL | Method Detection Limit | |
| ML | Minimum Level (Dioxin) | |
| MPN | Most Probable Number | |
| MQL | Method Quantitation Limit | |
| NC | Not Calculated | |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) | |
| NEG | Negative / Absent | |
| POS | Positive / Present | |
| PQL | Practical Quantitation Limit | |
| PRES | Presumptive | |
| QC | Quality Control | |
| RER | Relative Error Ratio (Radiochemistry) | |
| RL | Reporting Limit or Requested Limit (Radiochemistry) | |
| RPD | Relative Percent Difference, a measure of the relative difference between two points | |
| TEF | Toxicity Equivalent Factor (Dioxin) | |
| TEQ | Toxicity Equivalent Quotient (Dioxin) | |
| TNTC | Too Numerous To Count | |
| | | |

Job ID: 820-10592-1

Laboratory: Eurofins Lubbock

Narrative

Job Narrative 820-10592-1

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

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

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

Receipt

The sample was received on 10/19/2023 10:35 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 10.2°C

General Chemistry

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

Client: City of Tahoka Project/Site: C Lagoon

Client Sample ID: C Lagoon Date Collected: 10/19/23 08:57

Date Received: 10/19/23 10:35

Lab Sample ID: 820-10592-1 Matrix: Water

watrix: water

5

| General Chemistry | | | | | | | | | |
|--|--------|-----------|------|------|-----------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total Suspended Solids (SM 2540D) | 82.0 | | 20.0 | 20.0 | mg/L | | | 10/23/23 10:13 | 1 |
| pH (SM 4500 H+ B) | 8.5 | HF | | | SU | | | 10/20/23 16:53 | 1 |
| Temperature (SM 4500 H+ B) | 14.1 | HF | | | Degrees C | | | 10/20/23 16:53 | 1 |
| Biochemical Oxygen Demand (SM _5210B) | 31.5 | | 12.0 | 12.0 | mg/L | | 10/20/23 16:34 | 10/20/23 17:03 | 1 |

Method: SM 2540D - Solids, Total Suspended (TSS)

| Lab Sample ID: MB 860-127508/1 | | | | | | | | | | | | Client S | ample ID: | Method | Blank |
|---------------------------------|--------|-------|-----------|-------|-------|--------|-------|--------|--------|------------|------|-----------------|------------|-------------|---------|
| Matrix: Water | | | | | | | | | | | | | Prep | Туре: То | otal/NA |
| Analysis Batch: 127508 | | | | | | | | | | | | | | | |
| | | МВ | MB | | | | | | | | | | | | |
| Analyte | R | esult | Qualifier | | RL | | MDL | Unit | | <u>D</u> . | P | repared | Analy | zed | Dil Fac |
| Total Suspended Solids | < | <4.00 | U | | 4.00 | | 4.00 | mg/L | | | | | 10/23/23 | 10:13 | 1 |
| | | | | | | | | | | CI | ient | Sample | ID: Lab C | ontrol S | Sample |
| Matrix: Water | | | | | | | | | | | | | Prep | Type: To | otal/NA |
| Analysis Batch: 127508 | | | | | | | | | | | | | | | |
| | | | | Spike | | LCS | LCS | | | | | | %Rec | | |
| Analyte | | | | Added | | Result | Qua | lifier | Unit | | D | %Rec | Limits | | |
| Total Suspended Solids | | | | 100 | | 97.00 | | | ma/l | | - | 97 | 80 120 | | |
| | | | | 100 | | 07.00 | | | iiig/E | | | 01 | 001120 | | |
| Lab Sample ID: LCSD 860-127508/ | 3 | | | | | | | | С | lient : | Sam | ple ID: I | Lab Contro | ol Samp | ole Dup |
| Matrix: Water | | | | | | | | | | | | - - | Prep | Type: To | otal/NA |
| Analysis Batch: 127508 | | | | | | | | | | | | | | | |
| | | | | Spike | | LCSD | LCS | D | | | | | %Rec | | RPD |
| Analyte | | | | Added | | Result | Qua | lifier | Unit | | D | %Rec | Limits | RPD | Limit |
| Total Suspended Solids | | | | 100 | | 100.0 | | | mg/L | | _ | 100 | 80 - 120 | 3 | 10 |
| _ _ | | | | | | | | | | | | | | | |
| Lab Sample ID: 820-10592-1 DU | | | | | | | | | | | | Clie | ent Sample | D: CL | agoon |
| Matrix: Water | | | | | | | | | | | | | Prep | Type: To | otal/NA |
| Analysis Batch: 127508 | | | | | | | | | | | | | | | |
| | Sample | Sam | ple | | | DU | DU | | | | | | | | RPD |
| Analyte | Result | Qua | lifier | | | Result | Qua | lifier | Unit | | D | | | RPD | Limit |
| Total Suspended Solids | 82.0 | | | | | 85.50 | | | mg/L | | _ | | | 4 | 10 |
| Method: SM 5210B - BOD 5-D | av | | | | | | | | | | | | | | |
| | ay | | | | | | | | | | | | | | |
| Lab Sample ID: SCB 860-128041/2 | | | | | | | | | | | | Client S | ample ID: | Method | d Blank |
| Matrix: Water | | | | | | | | | | | | | Prep | Type: To | otal/NA |
| Analysis Batch: 128041 | | | | | | | | | | | | | | | |
| ····· , ··· ····· | | SCB | SCB | | | | | | | | | | | | |
| Analyte | R | esult | Qualifier | | RL | | MDL | Unit | | D | Р | repared | Analy | zed | Dil Fac |
| Biochemical Oxygen Demand | 0. | 9690 | | 0.00 | 00020 | 0.000 | 00020 | ma/L | | · — · | | | 10/20/23 | 16:17 | 1 |
| | | | | | 0 | | 0 | 0 | | | | | | | |
| | | | | | | | | | | | | | | | |
| Lab Sample ID: USB 860-128041/1 | | | | | | | | | | | | Client S | ample ID: | Method | d Blank |
| Matrix: Water | | | | | | | | | | | | | Prep | Type: To | otal/NA |
| Analysis Batch: 128041 | | | | | | | | | | | | | | | |
| | | USB | USB | | | | | | | | | | | | |
| Analyte | R | esult | Qualifier | | RL | | MDL | Unit | | D | Ρ | repared | Analy | zed | Dil Fac |
| Biochemical Oxygen Demand | 0. | 1200 | | 0.00 | 00020 | 0.000 | 00020 | mg/L | | | | | 10/20/23 | 16:14 | 1 |
| | | | | | 0 | | 0 | | | | | | | | |
| | | | | | | | | | | ~ | | Commit | | a natural d | Samula |
| Lab Sample ID: LCS 860-128041/3 | | | | | | | | | | U | ient | Sample | Lab C | | |
| watrix: Water | | | | | | | | | | | | | Prep | ivpe: To | otal/NA |

| Analysis Batch: 128041 | | | | | | | | |
|---------------------------|-------|--------|-----------|------|---|------|----------|------|
| | Spike | LCS | LCS | | | | %Rec | |
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Biochemical Oxygen Demand | 198 | 205.8 | | mg/L | | 104 | 85 - 115 | |

General Chemistry

Prep Batch: 127382

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------------|------------------------|-----------|--------|--------------|------------|
| 820-10592-1 | C Lagoon | Total/NA | Water | BOD Prep | |
| Analysis Batch: 12740 | 4 | | | | |
| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
| 820-10592-1 | C Lagoon | Total/NA | Water | SM 4500 H+ B | |
| Analysis Batch: 12750 | 8 | | | | |
| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
| 820-10592-1 | C Lagoon | Total/NA | Water | SM 2540D | |
| MB 860-127508/1 | Method Blank | Total/NA | Water | SM 2540D | |
| LCS 860-127508/2 | Lab Control Sample | Total/NA | Water | SM 2540D | |
| LCSD 860-127508/3 | Lab Control Sample Dup | Total/NA | Water | SM 2540D | |
| 820-10592-1 DU | C Lagoon | Total/NA | Water | SM 2540D | |
| Analysis Batch: 12804 | 1 | | | | |
| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
| 820-10592-1 | C Lagoon | Total/NA | Water | SM 5210B | 127382 |
| SCB 860-128041/2 | Method Blank | Total/NA | Water | SM 5210B | |
| USB 860-128041/1 | Method Blank | Total/NA | Water | SM 5210B | |
| LCS 860-128041/3 | Lab Control Sample | Total/NA | Water | SM 5210B | |

Client Sample ID: C Lagoon Date Collected: 10/19/23 08:57 Date Received: 10/19/23

| 08:57 | | | | | | | | Μ | latrix: Water | |
|-------|--------|-----|--------|-----------|--------|--------|-------------|---------|---------------|--|
| 10:35 | | | | | | | | | | |
| | Datab | | Dil | I 141 - I | Ein al | Datab | Description | | | |
| 1 | Batch | | DII | Initial | Finai | Batch | Prepared | | | |
| | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab | |

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|--------------|-----|--------|---------|---------|--------|----------------|---------|---------|
| Ргер Туре | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Analysis | SM 2540D | | 1 | 200 mL | 1000 mL | 127508 | 10/23/23 10:13 | SA | EET HOU |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | | | 127404 | 10/20/23 16:53 | KEG | EET HOU |
| Total/NA | Prep | BOD Prep | | | | | 127382 | 10/20/23 16:34 | ALL | EET HOU |
| Total/NA | Analysis | SM 5210B | | 1 | 50 mL | 300 mL | 128041 | 10/20/23 17:03 | HN | EET HOU |

Laboratory References:

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

Lab Sample ID: 820-10592-1 4 5

8 9

9

Laboratory: Eurofins Houston

| Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below. | |
|---|--|
| | |

| thority | Progra | am | Identification Number | Expiration Date | |
|---|--|----------------------------------|--|------------------------|--|
| as | NELA | Р | T104704215-23-53 | 06-30-24 | |
| T I (II) I (| | | - d booth - management - other site. This list | | |
| for which the agency d | are included in this report, bu oes not offer certification. | It the laboratory is not certili | ed by the governing authority. This list | t may include analytes | |
| for which the agency d Analysis Method | are included in this report, bu oes not offer certification. Prep Method | Matrix | ed by the governing authority. This list | t may include analytes | |

Client: City of Tahoka Project/Site: C Lagoon

| Method | Method Description | Protocol | Laboratory |
|--------------|-------------------------------|----------|------------|
| SM 2540D | Solids, Total Suspended (TSS) | SM | EET HOU |
| SM 4500 H+ B | pH | SM | EET HOU |
| SM 5210B | BOD, 5-Day | SM | EET HOU |
| BOD Prep | Preparation, BOD | SM | EET HOU |

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

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

Sample Summary

| Client: City of Tahoka | |
|------------------------|--|
| Project/Site: C Lagoon | |

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 820-10592-1 | C Lagoon | Water | 10/19/23 08:57 | 10/19/23 10:35 |

Superfund Level IV DI Water: H₂O Revised Date: 08/25/2020 Rev. 2020.7 MeOH: Me HNO 3: HN NaOH: Na NaOH+Ascorbic Acid: SAPC Sample Comments Date/Time **Preservative Codes** Zn Acetate+NaOH: Zn ð PST/UST TRRP UST/PST PRP Brownfields RRC Na 25 203: NaSO 3 8RCRA 13PPM Texas11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO, Na Sr Tl Sn U V Zn Other: NaHSO 4: NABIS Hg: 1631 / 245.1 / 7470 / 7471 820-10592 Chain of Custody None: NO H 3PO 4: HP H₂S0 4: H₂ Cool: Cool www.xenco.com Page Work Order Comments HCL: HC ADaPT Received by: (Signature) Reporting: Level II 🔲 Level III 🗌 EDD State of Project: rofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously neodatated. Deliverables: Program: TCLP/SPLP6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U and relieves standard relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control Ph 8.5 Relinquished by: (Signature) ANALYSIS REQUEST Email: / rega Chalder. org & Ray ord Rea Will from Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 ame Chain of Custody 55_ 47 10/11/23 10:35m Date/Time 0.8 Grab/ # of Comp Cont Pres. Code Parameters C Bill to: (if different) Company Name: City, State ZIP: 10.2 TAT starts the day received by the lab, if received by 4:30pm 0.2 Yes No 10. Address: Rush Depth **Turn Around** Received by (Signature) 0/19/2 B:570 Routine Due Date: Corrected Temperature: Wet Ice: Sampled Temperature Reading: Time **Environment Testing** 9373 Correction Factor: 1607, May A BOX 300 Thermometer ID: Sampled ant Yes (Date Circle Method(s) and Metal(s) to be analyzed 206-561-421 Matrix Kanmene Xenco Temp Blank: N/A Ż 200.8 / 6020: -40 NY .. ٩N d The hole Yes No Yes No Ye Relinguished by: (Signature) ofins Sample Identification Samples Received Intact: Total 200.7 / 6010 C hag oon Sample Custody Seals: Cooler Custody Seals: SAMPLE RECEIPT **Fotal Containers:** Project Number: Project Manager: Project Location: Sampler's Name: Company Name: 10592 City, State ZIP: Project Name: Address: Phone: PO #:

Loc: 820

| Eurofins Lubbock | | | | | | 01.01.01 | | | |
|--|--|--|---|--|--|--|--|--|--|
| 6701 Aberdeen Ave. Suite 8 Lubbock, TX 79424 | Cha | tin of Cus | tody Rec | ord | | | | 🔅 eurofin | IS Environment Testing |
| Client Information (Sub Contract Lab) | Sampler | | Lab PM: Taylor H | olly | | Canter Trackin | g No(s): | COC Ne: 820-8215.1 | |
| Client Contact Shipping/Receiving | Phone: | | E-Mail: Holly Tay | lor@et.eurofinsi | us.com | State of Origin Texas | | Page: Page 1 of 1 | |
| Company: Eurofins Environment Testing South Centr | | | NEL | ditations Required (AP Texas | (See note): | | | Job #: 820-10592-1 | |
| Address: 4145 Greenbriar Dr | Due Date Requested: 10/26/2023 | | | | Analysis R | Requested | : | Preservation C | M Hexane |
| City: Stafford | TAT Requested (days): | | | | | | | B NaOH | N None O AsNaO2 |
| State, Zip: TX, 77477 | | | ····· | <u></u> | | | | D Nitric Acid E NaHSO4 | P Na204S Q Na2SO3 |
| Phone: 281-240-4200(Tel) | PO # | | <u>a</u> | ву ———————————————————————————————————— | | | | G Amchlor | S H2SO4 |
| Email: | WO# | | <u>or Ne</u> | D, 5-D | | | | J DI Water | V Acetone V MCAA |
| Project Name: | Project #: 82000937 | | (Yea | ep BC | | | | EDA | Y Trizma Z other (specify) |
| Site: | SSOW#: | | in kle | OD_Pr | | | | | |
| | Sar | Sample Type (C=comp, | Matrix Smold Smold | 15210B_Calc/1 40D 14500_H+/ pH | | | | tal Number . | |
| | | | ios Coole | | | | | X | |
| C Lagoon (820-10592-1) | 10/19/23 Ce | | Water | × × × | | | | Ţ | 212 |
| | | | | | | | | | <u>ک</u> |
| | | | | | | | | ANY TANK | 4 |
| | | | | | | | | | |
| | | | | | - | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Note: Since laboratory accreditations are subject to change, Eurofins Environmen laboratory does not currently maintain accreditation in the State of Origin listed ab accreditation status should be brought to Eurofins Environment Testing South Ce | . Testing South Central, LLC ove for analysis/tests/matrix tral, LLC attention immedia | places the ownership being analyzed, the sately. If all requested ac | of method, analyte & mples must be shipp creditations are curre | accreditation compl ed back to the Eurol nt to date, relum the | iance upon our subc fins Environment Te a signed Chain of Cu | contract laboratories sting South Central, ustody attesting to s | . This sample shipm LLC laboratory or o ald compliance to El | nent is forwarded under ther instructions will be urofins Environment Te | r chain-of-custody. If the ; provided. Any changes to ;sting South Central, LLC. |
| Possible Hazard Identification Unconfirmed | | | - (0 | Return To | al (A fee may b | Disposal By L | amples are ret | ained longer than Archive For | 1 1 month) Months |
| Deliverable Requested: 1 II III, IV Other (specify) | Primary Deliverable F | tank: 2 | (0 | pecial Instructio | ons/QC Requirer | ments. | | | 1 |
| Empty Kit Relinquished by: | Date | | Tim | 14 | | Method c | of Shipment: | 1 | |
| Relinquished by: | Date/Time; | | Company | Received by: | | ŀ | Date/Time: | | Company |
| Reinquistred by: | Date/Time: | | Company | Received by: | human | 5 | Date/Time: | 25 0 2000/00/ | Company EX |
| Relinquished by: | Dale/Time: | | Company | Received by | * * | - () = * < | Date/Time: | - <u></u> | Company |
| Custody Seals Intact Custody Seal No. | | | | Cooler Tempera | ture(s) °C and Other | r Remarks; | | , , | |
| | | | | | | | | | Ver 06/08/2021 |

6 7 8

Login Sample Receipt Checklist

Client: City of Tahoka

Login Number: 10592 List Number: 1 Creator: Triplett, Colby

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

Job Number: 820-10592-1

List Source: Eurofins Lubbock

<6mm (1/4").

Client: City of Tahoka

Login Number: 10592 List Number: 2 Creator: Baker, Jeremiah

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

Job Number: 820-10592-1

List Source: Eurofins Houston

List Creation: 10/20/23 11:33 AM

<6mm (1/4").



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Raymond Vega City of Tahoka PO BOX 300 Tahoka, Texas 79373 Generated 11/30/2023 2:33:34 PM

JOB DESCRIPTION

C Lagoon

JOB NUMBER

820-11030-1

Eurofins Lubbock 6701 Aberdeen Ave. Suite 8 Lubbock TX 79424







Eurofins Lubbock

Job Notes

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

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization

aylor

Generated 11/30/2023 2:33:34 PM

1

5

Authorized for release by Holly Taylor, Project Manager Holly.Taylor@et.eurofinsus.com (806)794-1296

Table of Contents

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| | |

3

Qualifiers

| General Chemi | stry |
|----------------------|--|
| Qualifier | Qualifier Description |
| HF | Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time. |
| U | Indicates the analyte was analyzed for but not detected. |

Glossary

| пг | rarameter with a notuling time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time. | |
|----------------|---|----|
| U | Indicates the analyte was analyzed for but not detected. | 5 |
| Glossary | | 6 |
| Abbreviation | These commonly used abbreviations may or may not be present in this report. | |
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis | 7 |
| %R | Percent Recovery | |
| CFL | Contains Free Liquid | 0 |
| CFU | Colony Forming Unit | 0 |
| CNF | Contains No Free Liquid | 0 |
| DER | Duplicate Error Ratio (normalized absolute difference) | 9 |
| Dil Fac | Dilution Factor | |
| DL | Detection Limit (DoD/DOE) | |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample | |
| DLC | Decision Level Concentration (Radiochemistry) | |
| EDL | Estimated Detection Limit (Dioxin) | |
| LOD | Limit of Detection (DoD/DOE) | |
| LOQ | Limit of Quantitation (DoD/DOE) | |
| MCL | EPA recommended "Maximum Contaminant Level" | 13 |
| MDA | Minimum Detectable Activity (Radiochemistry) | |
| MDC | Minimum Detectable Concentration (Radiochemistry) | |
| MDL | Method Detection Limit | |
| ML | Minimum Level (Dioxin) | |
| MPN | Most Probable Number | |
| MQL | Method Quantitation Limit | |
| NC | Not Calculated | |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) | |
| NEG | Negative / Absent | |
| POS | Positive / Present | |
| PQL | Practical Quantitation Limit | |
| PRES | Presumptive | |
| QC | Quality Control | |
| RER | Relative Error Ratio (Radiochemistry) | |
| RL | Reporting Limit or Requested Limit (Radiochemistry) | |
| RPD | Relative Percent Difference, a measure of the relative difference between two points | |
| TEF | Toxicity Equivalent Factor (Dioxin) | |
| TEQ | Toxicity Equivalent Quotient (Dioxin) | |
| TNTC | Too Numerous To Count | |

Job ID: 820-11030-1

Laboratory: Eurofins Lubbock

Narrative

Job Narrative 820-11030-1

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

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

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

Receipt

The sample was received on 11/21/2023 9:57 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 10.1°C

General Chemistry

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

Client: City of Tahoka Project/Site: C Lagoon

Client Sample ID: C Lagoon Date Collected: 11/21/23 08:39

Date Received: 11/21/23 09:57

Lab Sample ID: 820-11030-1 Matrix: Water

General Chemistry Analyte RL MDL Unit Dil Fac Result Qualifier D Prepared Analyzed Total Suspended Solids (SM 20.0 20.0 mg/L 11/27/23 17:43 69.0 1 2540D) pH (SM 4500 H+ B) 7.8 HF SU 11/27/23 15:01 1 Degrees C 11/27/23 15:01 Temperature (SM 4500 H+ B) 12.6 HF 1 12.0 11/22/23 14:03 11/22/23 14:58 1 **Biochemical Oxygen Demand (SM** 36.7 12.0 mg/L 5210B)
Lab Sample ID: LCS 860-132607/3

Matrix: Water

Method: SM 2540D - Solids, Total Suspended (TSS)

| Lab Sample ID: MB 860-132668/1 | | | | | | | | | | | | Client S | ample ID: | Metho | d Blank |
|--------------------------------------|--------|-------|-----------|-------|-------|--------|------|--------|------|-------|------|-----------|------------|-----------|---------|
| Matrix: Water | | | | | | | | | | | | | Prep | Type: T | otal/NA |
| Analysis Batch: 132668 | | | | | | | | | | | | | | | |
| | | MB | MB | | | | | | | | | | | | |
| Analyte | R | esult | Qualifier | | RL | | MDL | Unit | | D | P | repared | Analy | zed | Dil Fac |
| Total Suspended Solids | ~ | <4.00 | U | | 4.00 | | 4.00 | mg/L | | | | | 11/27/23 | 3 17:43 | 1 |
| Lab Sample ID: LCS 860-132668/2 | | | | | | | | | | CI | ient | Sample | D: Lab C | ontrol | Sample |
| Matrix: Water | | | | | | | | | | | | | Prep | Type: T | otal/NA |
| Analysis Batch: 132668 | | | | | | | | | | | | | | | |
| | | | | Spike | | LCS | LCS | | | | | | %Rec | | |
| Analyte | | | | Added | | Result | Qua | lifier | Unit | | D | %Rec | Limits | | |
| Total Suspended Solids | | | | 100 | | 106.0 | | | mg/L | | _ | 106 | 80 - 120 | | |
| Lab Sample ID: LCSD 860-132668/3 | 3 | | | | | | | | C | lient | Sam | ple ID: I | Lab Contr | ol Sam | ole Dup |
| Matrix: Water | | | | | | | | | | | | | Prep | Type: T | otal/NA |
| Analysis Batch: 132668 | | | | | | | | | | | | | | | |
| | | | | Spike | | LCSD | LCS | D | | | | | %Rec | | RPD |
| Analyte | | | | Added | | Result | Qua | lifier | Unit | | D | %Rec | Limits | RPD | Limit |
| Total Suspended Solids | | | | 100 | | 102.0 | | | mg/L | | _ | 102 | 80 - 120 | 4 | 10 |
| Lab Sample ID: 820-11030-1 DU | | | | | | | | | | | | Clie | ent Sample | e ID: C I | Lagoon |
| Matrix: Water | | | | | | | | | | | | | Prep | Type: T | otal/NA |
| Analysis Batch: 132668 | | | | | | | | | | | | | | | |
| | Sample | Sam | ple | | | DU | DU | | | | | | | | RPD |
| Analyte | Result | Qua | lifier | | | Result | Qua | lifier | Unit | | D | | | RPD | Limit |
| Total Suspended Solids | 69.0 | | | | | 74.00 | | | mg/L | | _ | | | 7 | 10 |
| Method: SM 5210B - BOD, 5-D | ay | | | | | | | | | | | | | | |
| _ Lab Sample ID: SCB 860-132607/2 | | | | | | | | | | | | Client S | ample ID: | Metho | d Blank |
| Matrix: Water | | | | | | | | | | | | | Prep | Type: T | otal/NA |
| Analysis Batch: 132607 | | | | | | | | | | | | | | .,, | |
| · | | SCB | SCB | | | | | | | | | | | | |
| Analyte | R | esult | Qualifier | | RL | | MDL | Unit | | D | P | repared | Analy | zed | Dil Fac |
| Biochemical Oxygen Demand | 0. | 7980 | | 0.00 | 00020 | 0.000 | 0020 | ma/L | | | | | 11/22/23 | 3 13:23 | 1 |
| | | | | | 0 | | 0 | Ū | | | | | | | |
| Lab Sample ID: USB 860-132607/1 | | | | | | | | | | | | Client S | ample ID: | Metho | d Blank |
| Matrix: Water | | | | | | | | | | | | | Prep | Type: T | otal/NA |
| Analysis Batch: 132607 | | | | | | | | | | | | | | | |
| | | USB | USB | | | | | | | | | | | | |
| Analyte | R | esult | Qualifier | | RL | | MDL | Unit | | D | P | repared | Analy | zed | Dil Fac |
| Biochemical Oxygen Demand | 0. | 1200 | | 0.00 | 00020 | 0.000 | 0020 | mg/L | | | | | 11/22/23 | 3 13:20 | 1 |
| | | | | | 0 | | 0 | | | | | | | | |

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

| Analysis Batch: 132607 | | | | | | | | |
|---------------------------|-------|--------|-----------|------|---|------|----------|--|
| | Spike | LCS | LCS | | | | %Rec | |
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Biochemical Oxygen Demand | 198 | 195.7 | | mg/L | | 99 | 85 - 115 | |

Page 7 of 16

Job ID: 820-11030-1

General Chemistry

Prep Batch: 132339

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch | | | |
|-----------------------|--|-----------|--------|--------------|------------|--|--|--|
| 820-11030-1 | C Lagoon | Total/NA | Water | BOD Prep | | | | |
| Analysis Batch: 13260 | 70 | | | | | | | |
| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch | | | |
| 820-11030-1 | C Lagoon | Total/NA | Water | SM 5210B | 132339 | | | |
| SCB 860-132607/2 | Method Blank | Total/NA | Water | SM 5210B | | | | |
| USB 860-132607/1 | Method Blank | Total/NA | Water | SM 5210B | | | | |
| LCS 860-132607/3 | Lab Control Sample | Total/NA | Water | SM 5210B | | | | |
| Analysis Batch: 13264 | 49 | | | | | | | |
| Lab Sample ID | Client Sample ID | Ргер Туре | Matrix | Method | Prep Batch | | | |
| 820-11030-1 | C Lagoon | Total/NA | Water | SM 4500 H+ B | | | | |
| Analysis Batch: 1326 | 58 | | | | | | | |
| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch | | | |
| 820-11030-1 | C Lagoon | Total/NA | Water | SM 2540D | | | | |
| MB 860-132668/1 | Method Blank | Total/NA | Water | SM 2540D | | | | |
| LCS 860-132668/2 | Lab Control Sample | Total/NA | Water | SM 2540D | | | | |
| LCSD 860-132668/3 | LCSD 860-132668/3 Lab Control Sample Dup | | Water | SM 2540D | | | | |
| 820-11030-1 DU | C Lagoon | Total/NA | Water | SM 2540D | | | | |

Matrix: Water

5 6

Lab Sample ID: 820-11030-1

Client Sample ID: C Lagoon Date Collected: 11/21/23 08:39 Date Received: 11/21/23 09:57

| - | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|----------------------|------------------|----------------------|-----|--------|---------|---------|------------------|----------------------------------|----------|--------------------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Analysis | SM 2540D | | 1 | 200 mL | 1000 mL | 132668 | 11/27/23 17:43 | SA | EET HOU |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | | | 132649 | 11/27/23 15:01 | KEG | EET HOU |
| Total/NA Total/NA | Prep Analysis | BOD Prep SM 5210B | | 1 | 50 mL | 300 mL | 132339 132607 | 11/22/23 14:03 11/22/23 14:58 | HN HN | EET HOU EET HOU |

Laboratory References:

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

9

Laboratory: Eurofins Houston

| Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below. | |
|---|--|
| | |

| nonty | Progra | am | Identification Number | Expiration Date |
|---|---|----------------------------------|--|------------------------|
| as | NELAI | P | T104704215-23-53 | 06-30-24 |
| T I (II) I (| are included in this report by | ut the leberatory is not cortifi | ad by the governing outbority. This list | t may include analytee |
| for which the agency d | oes not offer certification. | at the laboratory is not certin | ed by the governing authority. This is | t may include analytes |
| for which the agency d Analysis Method | oes not offer certification. Prep Method | Matrix | Analyte | t may include analytes |

Client: City of Tahoka Project/Site: C Lagoon

| Method | Method Description | Protocol | Laboratory |
|--------------|-------------------------------|----------|------------|
| SM 2540D | Solids, Total Suspended (TSS) | SM | EET HOU |
| SM 4500 H+ B | pH | SM | EET HOU |
| SM 5210B | BOD, 5-Day | SM | EET HOU |
| BOD Prep | Preparation, BOD | SM | EET HOU |

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

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

Sample Summary

Client: City of Tahoka Project/Site: C Lagoon

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 820-11030-1 | C Lagoon | Water | 11/21/23 08:39 | 11/21/23 09:57 |

| | e: 820 1030 °ofin | S Fovironment Testing | Houstor | Chain of Custody | P # A | |
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| Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Series. It assigns standard terms and conditions c.e. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control fins Xenco. Aminimum charge of \$85.00 will be applied to each project and a charge of \$55 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated elingfulshed br: (Signature) Raceived by: (Signature) Date/Time Relinquished by: (Signature) Received by: (Signature) Date/Time U.M. A control of the control of the control of the client of the client of the client of the client of the client of the client of the client of the control of the client o | otal 200.7 / 6010 le Method(s) and M | 200.8 / 6020: 8RCRA 13 etal(s) to be analyzed TCLP. | PPM Texas 11 AI / SPLP 6010 : 8RCR/ | I I I I I I I Sb As Ba Be Cd Ca Cr Co Cu Fe A Sb As Ba Be Cd Cr Co Cu Ph Mn | P N N N N N N N N N N N N N N N N N N N | Sr Tl Sn U V Zn 5.1 / 7470 / 7471 |
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5

<mark>12</mark> 13

I

Login Sample Receipt Checklist

Client: City of Tahoka

Login Number: 11030 List Number: 1 Creator: Triplett, Colby

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

Job Number: 820-11030-1

List Source: Eurofins Lubbock

<6mm (1/4").

Client: City of Tahoka

Login Number: 11030 List Number: 2 Creator: Baker, Jeremiah

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

Job Number: 820-11030-1

List Source: Eurofins Houston

List Creation: 11/22/23 01:35 PM

<6mm (1/4").



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Raymond Vega City of Tahoka PO BOX 300 Tahoka, Texas 79373 Generated 1/5/2024 1:38:38 PM

JOB DESCRIPTION

C Lagoon

5 6

JOB NUMBER

820-11465-1

Eurofins Lubbock 6701 Aberdeen Ave. Suite 8 Lubbock TX 79424



See page two for job notes and contact information.



Eurofins Lubbock

Job Notes

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

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization

aylor

Generated 1/5/2024 1:38:38 PM

Authorized for release by Holly Taylor, Project Manager Holly.Taylor@et.eurofinsus.com (806)794-1296

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| | |

3

Qualifiers

| General Chemistry | | | | | | |
|-------------------|--|--|--|--|--|--|
| Qualifier | Qualifier Description | | | | | |
| HF | Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time. | | | | | |
| U | Indicates the analyte was analyzed for but not detected. | | | | | |
| 0 | | | | | | |

Glossary

| ΠF | Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time. | |
|----------------|--|----|
| U | Indicates the analyte was analyzed for but not detected. | 5 |
| Glossary | | 6 |
| Abbreviation | These commonly used abbreviations may or may not be present in this report. | |
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis | 7 |
| %R | Percent Recovery | |
| CFL | Contains Free Liquid | 0 |
| CFU | Colony Forming Unit | 0 |
| CNF | Contains No Free Liquid | |
| DER | Duplicate Error Ratio (normalized absolute difference) | 9 |
| Dil Fac | Dilution Factor | |
| DL | Detection Limit (DoD/DOE) | |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample | |
| DLC | Decision Level Concentration (Radiochemistry) | |
| EDL | Estimated Detection Limit (Dioxin) | |
| LOD | Limit of Detection (DoD/DOE) | |
| LOQ | Limit of Quantitation (DoD/DOE) | |
| MCL | EPA recommended "Maximum Contaminant Level" | 13 |
| MDA | Minimum Detectable Activity (Radiochemistry) | |
| MDC | Minimum Detectable Concentration (Radiochemistry) | |
| MDL | Method Detection Limit | |
| ML | Minimum Level (Dioxin) | |
| MPN | Most Probable Number | |
| MQL | Method Quantitation Limit | |
| NC | Not Calculated | |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) | |
| NEG | Negative / Absent | |
| POS | Positive / Present | |
| PQL | Practical Quantitation Limit | |
| PRES | Presumptive | |
| QC | Quality Control | |
| RER | Relative Error Ratio (Radiochemistry) | |
| RL | Reporting Limit or Requested Limit (Radiochemistry) | |
| RPD | Relative Percent Difference, a measure of the relative difference between two points | |
| TEF | Toxicity Equivalent Factor (Dioxin) | |
| TEQ | Toxicity Equivalent Quotient (Dioxin) | |
| TNTC | Too Numerous To Count | |

Job ID: 820-11465-1

Eurofins Lubbock

Job Narrative 820-11465-1

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

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

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

Receipt

The sample was received on 12/27/2023 11:01 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 7.0°C

General Chemistry

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

Project/Site: C Lagoon

Client: City of Tahoka

Client Sample ID: C. Lagoon

Date Collected: 12/27/23 10:05 Date Received: 12/27/23 11:01

Lab Sample ID: 820-11465-1 Matrix: Water

Watrix. Water

5

| General Chemistry | | | | | | | | | |
|-------------------------------|--------|-----------|------|------|-----------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total Suspended Solids (SM | 80.0 | | 20.0 | 20.0 | mg/L | | | 12/29/23 10:48 | 1 |
| 2540D) | | | | | | | | | |
| рН (SM 4500 H+ B) | 7.5 | HF | | | SU | | | 01/05/24 12:34 | 1 |
| Temperature (SM 4500 H+ B) | 11.6 | HF | | | Degrees C | | | 01/05/24 12:34 | 1 |
| Biochemical Oxygen Demand (SM | 26.2 | | 12.0 | 12.0 | mg/L | | 12/28/23 17:30 | 12/28/23 17:49 | 1 |
| 5210B) | | | | | | | | | |

Method: SM 2540D - Solids, Total Suspended (TSS)

| Lab Sample ID: MB 860-138624/1 | | | | | | | | | | | | Client S | Sample ID: | Metho | d Blank |
|---|--------|-------|-----------|-------|-------|--------|------|--------|--------------|----------|------|----------|------------|---|----------|
| Matrix: Water | | | | | | | | | | | | | Prep | Type: T | otal/NA |
| Analysis Batch: 138624 | | | | | | | | | | | | | | | |
| | | MB | MB | | | | | | | | | | | | |
| Analyte | R | esult | Qualifier | | RL | | MDL | Unit | | <u> </u> | Р | repared | Analy | zed | Dil Fac |
| Total Suspended Solids | < | 4.00 | U | | 4.00 | | 4.00 | mg/L | | | | | 12/29/23 | 10:48 | 1 |
| Lab Sample ID: LCS 860-138624/ | 2 | | | | | | | | | CI | ient | Sample | ID: Lab C | ontrol | Sample |
| Matrix: Water | | | | | | | | | | | | | Prep | Type: T | otal/NA |
| Analysis Batch: 138624 | | | | | | | | | | | | | | | |
| | | | | Spike | | LCS | LCS | | | | | | %Rec | | |
| Analyte | | | | Added | | Result | Qua | lifier | Unit | | D | %Rec | Limits | | |
| Total Suspended Solids | | | | 100 | | 105.0 | | | mg/L | | | 105 | 80 - 120 | | |
| Lab Sample ID: LCSD 860-13862 | 4/3 | | | | | | | | CI | lient | Sam | nle ID: | I ab Contr | ol Samı | nle Dun |
| Matrix: Water | | | | | | | | | | | | | Prep | Type: T | otal/NA |
| Analysis Batch: 138624 | | | | | | | | | | | | | | | |
| | | | | Spike | | LCSD | LCS | D | | | | | %Rec | | RPD |
| Analyte | | | | Added | | Result | Qua | lifier | Unit | | D | %Rec | Limits | RPD | Limit |
| Total Suspended Solids | | | | 100 | | 104.0 | | | mg/L | | _ | 104 | 80 - 120 | 2 | 10 |
| Method: SM 4500 H+ B - pH | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| Lab Sample ID: 820-11465-1 DU | | | | | | | | | | | | Clie | nt Sample | ID: C. I | Lagoon |
| Matrix: Water | | | | | | | | | | | | | Prep | Type: T | otal/NA |
| Analysis Batch: 139421 | | | | | | | | | | | | | | | |
| | Sample | Sam | ple | | | DU | DU | | | | | | | | RPD |
| Analyte | Result | Qua | lifier | | | Result | Qua | lifier | | | D | | | | |
| | 1.5 | HF | | | | 11.0 | | | 50 Degree | - C | | | | 0.3 | 20 |
| | 11.0 | 111 | | | | 11.0 | | | Degree | 50 | | | | J | 20 |
| Method: SM 5210B - BOD, 5- | Day | | | | | | | | | | | | | | |
| Lab Sample ID: SCB 860-138928/ | 2 | | | | | | | | | | | Client S | Sample ID: | Metho | d Blank |
| Matrix: Water | - | | | | | | | | | | | onente | Pren | Type: T | otal/NA |
| Analysis Batch: 138928 | | | | | | | | | | | | | | .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | |
| | | SCB | SCB | | | | | | | | | | | | |
| Analyte | Re | esult | Qualifier | | RL | | MDL | Unit | | D | Р | repared | Analy | zed | Dil Fac |
| Biochemical Oxygen Demand | 0.9 | 9300 | | 0.000 | 00020 | 0.000 | 0020 | mg/L | | | | - | 12/28/23 | 17:13 | 1 |
| | | | | | 0 | | 0 | | | | | | | | |
| | 4 | | | | | | | | | | | Client | Semale ID: | Matha | d Diank |
| Matrix: Water | 1 | | | | | | | | | | | Client | Bron | | |
| Analysis Batch: 138928 | | | | | | | | | | | | | Fieh | Type. T | Otal/INA |
| Analysis Datch. 130320 | | USB | USB | | | | | | | | | | | | |
| Analyte | Re | esult | Qualifier | | RL | | MDL | Unit | | D | Р | repared | Analy | zed | Dil Fac |
| Biochemical Oxygen Demand | 0.04 | 4000 | | 0.000 | 00020 | 0.000 | 0020 | mg/L | | | | • | 12/28/23 | 17:09 | 1 |
| | | | | | 0 | | 0 | - | | | | | | | |
| L ab Sample ID: 1 CS 860 128028/ | • | | | | | | | | | 0 | iont | Comple | | ontrol (| Sampla |
| Lab Sample ID. LCS 600-138928/ Matrix: Wator | 3 | | | | | | | | | U | ient | Sample | Dron | Type: T | otal/NA |
| Analysis Batch: 138028 | | | | | | | | | | | | | Fieh | iype. I | |
| Analysis Daton. 130320 | | | | Spike | | LCS | LCS | | | | | | %Rec | | |
| Analyte | | | | Added | | Result | Qua | lifier | Unit | | D | %Rec | Limits | | |
| Biochemical Oxygen Demand | | | | 198 | | 185.3 | | | mg/L | | _ | 94 | 85 - 115 | | |
| <u> </u> | | | | | | | | | | | | | | | |

General Chemistry

Prep Batch: 138540

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------------|------------------------|-----------|--------|--------------|------------|
| 820-11465-1 | C. Lagoon | Total/NA | Water | BOD Prep | |
| Analysis Batch: 13862 | 24 | | | | |
| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
| 820-11465-1 | C. Lagoon | Total/NA | Water | SM 2540D | |
| MB 860-138624/1 | Method Blank | Total/NA | Water | SM 2540D | |
| LCS 860-138624/2 | Lab Control Sample | Total/NA | Water | SM 2540D | |
| LCSD 860-138624/3 | Lab Control Sample Dup | Total/NA | Water | SM 2540D | |
| Analysis Batch: 13892 | 28 | | | | |
| Lab Sample ID | Client Sample ID | Ргер Туре | Matrix | Method | Prep Batch |
| 820-11465-1 | C. Lagoon | Total/NA | Water | SM 5210B | 138540 |
| SCB 860-138928/2 | Method Blank | Total/NA | Water | SM 5210B | |
| USB 860-138928/1 | Method Blank | Total/NA | Water | SM 5210B | |
| LCS 860-138928/3 | Lab Control Sample | Total/NA | Water | SM 5210B | |
| Analysis Batch: 13942 | 21 | | | | |
| Lab Sample ID | Client Sample ID | Ргер Туре | Matrix | Method | Prep Batch |
| 820-11465-1 | C. Lagoon | Total/NA | Water | SM 4500 H+ B | |
| 820-11465-1 DU | C. Lagoon | Total/NA | Water | SM 4500 H+ B | |

Matrix: Water

5 6

Lab Sample ID: 820-11465-1

Client Sample ID: C. Lagoon Date Collected: 12/27/23 10:05 Date Received: 12/27/23 11:01

| _ | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|--------------|-----|--------|---------|---------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Analysis | SM 2540D | | 1 | 200 mL | 1000 mL | 138624 | 12/29/23 10:48 | SA | EET HOU |
| Total/NA | Analysis | SM 4500 H+ B | | 1 | | | 139421 | 01/05/24 12:34 | KEG | EET HOU |
| Total/NA | Prep | BOD Prep | | | 50 1 | | 138540 | 12/28/23 17:30 | ALL | EET HOU |
| Total/NA | Analysis | SM 5210B | | 1 | 50 mL | 300 mL | 138928 | 12/28/23 17:49 | ALL | EET HOU |

Laboratory References:

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

9

Laboratory: Eurofins Houston

| Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below. | |
|---|--|
| | |

| nority | Progra | am | Identification Number | Expiration Date | |
|---|---|---------------------------------|---|------------------------|--|
| as | NELA | P | T104704215-23-53 | 06-30-24 | |
| The following enalytee | are included in this report by | it the leberatory is not certif | ind by the governing outbority. This list | t may include analytee | |
| for which the agency of | oes not offer certification. | | led by the governing authority. This list | t may include analytes | |
| for which the agency of Analysis Method | oes not offer certification. Prep Method | Matrix | Analyte | t may include analytes | |

Client: City of Tahoka Project/Site: C Lagoon

| Method | Method Description | Protocol | Laboratory |
|--------------|-------------------------------|----------|------------|
| SM 2540D | Solids, Total Suspended (TSS) | SM | EET HOU |
| SM 4500 H+ B | pH | SM | EET HOU |
| SM 5210B | BOD, 5-Day | SM | EET HOU |
| BOD Prep | Preparation, BOD | SM | EET HOU |

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

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

Sample Summary

| Client: City of Tahoka | |
|------------------------|--|
| Project/Site: C Lagoon | |

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 820-11465-1 | C. Lagoon | Water | 12/27/23 10:05 | 12/27/23 11:01 |

)fins Environment Testing

Loc: 820 11465

Chain of Custody Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199



| Work Order Comments | /PST PRP Brownfields RRC Superfund | | III CLEVELIII PST/UST TRRP LEVELIV | EDD DAPT Other: | Preservative Codes | None: NO DI Water: H ₂ O | Cool: Cool MeOH: Me | HCL: HC HNO 3: HN | H, DO . HP | NaHSO 4: NABIS | Na 2 S 2 O 3: Na S O 3 | Zn Acetate+NaOH: Zn | NaOH+Ascorbic Acid: SAPC | Sample Comments | | | | | Se Ag SiO ₂ Na Sr TI Sn U V Zn Hg: 1631/245.1/7470/7471 | | ceived by: (Signature) Date/Time | |
|-----------------------------|--|---------------------|------------------------------------|---------------------------|--------------------|-------------------------------------|---------------------|--------------------------------|-----------------------------|-----------------------------------|------------------------------|---------------------------------|----------------------------|------------------------------|-------------|----------|--|--|---|---|---|--------------|
| | Program: UST/ | State of Project: | Reporting: Level | POKA, COM Deliverables: 1 | ANALYSIS REQUEST | | | | | | | 59 | | | 2 | | | | . Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K S \s Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U | enco, its affiliates and subcontractors. It assigns standard terms and conditions curred by the client if such bosses are due to circumstances beyond the control is Xenco, but not analyzed. These terms will be enforced unless previously negotilated. | ate/Time Relinquished by: (Signature) Rec | 1011 511 |
| Mou A Bill to: (#different) | Company Name: | A.M. Box 3MAddress: | 10 793 72 City, State ZIP: | 211 Email: KUrga @ | Turn Around | Routine Rush Code | Due Date: | TAT starts the day received by | Vor MAN WAY FOR MAN AND MAN | Thermometer ID: | Correction Factor: | Temperature Reading: Zel | Corrected Temperature: 7.0 | Date Time Depth Grab/ # of A | XIAL XIGIOS | S | | | 8RCRA 13PPM Texas 11 AI Sb As /zed TCLP/SPLP 6010 : 8RCRA Sb A | constitutes a valid purchase order from client company to Eurofins Xi s and shall not assume any responsibility for any losses or expenses in each project and a charge of \$5 for each sample submitted to Eurofin | Regeived by Gignature) Da | A game horas |
| Project Manager: | Company Name: C:+U OF | Address: 1807 m | City, State ZIP: TA ho Ko | Phone: (86) 56 1- 4 | Project Name: | Project Number: | Project Location: | Sampler's Name: | SAMPLE RECEIPT Temn Rlank. | Samples Received Intact: (Yes) No | Cooler Custody Seals: Yes No | Sample Custody Seals: Yes No NA | Total Containers: | Sample Identification Matrix | C. Lacoon | 5 | | | Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analy | otice: Signature of this document and relinquishment of sample. f service: Eurofins Xenco will be liable only for the cost of sample f Eurofins Xenco. A minimum charge of \$85.00 will be applied to | Relinquished by: (Signature) | An inthe m |

levised Date: 08/25/2020 Rev. 2020.2

12 13

| bock | . Suite 8 | |
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| ŪĮ | Abe | yoo |
| 5 | 701 | qq |

Chain of Custody Record



🔅 eurofins | Environment

| ubbock, TX 79424 Phone: 806-794-1296 | | | stouy R | ecold | | | 6 3 | | 2 | Environment Testi | ъ |
|---|--|---|---|--|---|--|--|---|---|---|------------|
| Client Information (Sub Contract Lab) | Sampler | | Taylo | M: Sr Holly | | Can | er Tracking A | (s)) | COC No: 820-8729.1 | | |
| Nent Contact Shipping/Receiving | Phone: | | E-Mail HOIly | : Taylor@et.eurofinsu | mco.st | Te Stat | s of Origin: 23.S | | Page: Page 1 of 1 | | |
| ompany: Eurofins Environment Testing South Centr | | | | Accreditations Required (NELAP Texas | See note): | | | | Job #: 820-11465-1 | | <u> </u> |
| Adress: 4145 Greenbriar Dr | Due Date Requested: 1/8/2024 | | | | Analysi | s Reque | sted | | Preservation C | odes: M Hexane | |
| 3Hy. Stafford | TAT Requested (days): | | | | | . | | [| A HCL B NaOH C Zn Acetate | N None O AsNaO2 Na2045 | |
| state, Zip. TX, 77477 | | | | | | | | | E NaHSOA | R Na2SO3 R Na2SO3 R Na2S2O3 | |
| hone: 281-240-4200(Tel) | PO# | | | ÆP | | | | | F MECH G Amchlar H Ascorbic Aci | S H2SO4 T TSP Dodecahydrate | _ |
| imait: | ₩0# | | | נחנ ס (ניוק): פים (ניוק): | | | | |) ice | V Acetone V MCAA VV nH 4-5 | |
| Toject Name: General | Project #: 82000937 | | | interaction (1/02) DB den CB den | | | | | L EDTA | Y Trizma 2 other (specify) | _ |
| Site: | SSOW#. | | | 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00 | | | | | Other | | |
| sample Identification - Client ID (Lab ID) | Sample Date 11 | Sample Type ble (C=comp e G=grab) | Matrix (M=watar, S=uelld, O=vrasteld, BT=Tiasus, A=Air) | 284600 ⁻ H+\ bH 5240D 2840D 284510B ⁻ Celev 2440C-100 ⁻ Celev 2440C-100 ⁻ Celev | | | | | Special Special | Instructions/Note: | 1 1 |
| 0. Lagoon (820-11465-1) | 10:0 12/27/23 10:0 | 2 2 2 2 | veres cores Water | × × × | | | | | | | - 1 |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
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| | | | | | | | | | | IR ID:HOU-369 - | |
| | | | | | | | | +- | Corrected Ter | в О́О | |
| | | - | | | | | | - | | | |
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| tote: Stree laboratory accreditations are subject to change. Eurofins Environmen aboratory does not currently maintain accreditation in the State of Origin listed ab socreditation status should be brought to Eurofins Environment Testing South Ce | A Testing South Central, LLC powe for analysis/tests/matrix burder for analysis/tests/matrix burder. | laces the ownersh eing analyzed, the ly. If all requested | ip of method, anal samples must be accreditations are | yte & accreditation compli shipped back to the Eurof current to dete, return the | ance upon our ins Environmer signed Chain | subcontract is the Testing Sou of Custody at | borratories. T th Central, LL esting to said | his sample sl C laboratory compliance t | lipment is forwarded unde or other instructions will be o Eurofins Environment To | r chain-of-custody If the provided. Any changes to seting South Central, LLC. | Г <u> </u> |
| Possible Hazard Identification | | | ĺ | Sample Disposa | il (A fee ma | iy be asse | sed if sar | nples are | etained longer than | 1 month) | T |
| Unconfirmed | | | | Return To | Client | Dispe | sal By Lat | | Archive For | Months | - |
| Jeliverable Requested: I II III, IV Other (specify) | Primary Deliverable Ra | ink. 2 | | Special Instructio | ns/ <u>OC Req</u> u | urements: | | | | | |
| Empty Kit Relinquished by | Date: | | | Time: | | | Method of S | thipment: | | | Г |
| telinquished by: | 80/LC/LB | 2041 | Company | Received by: | Feola | 8 | | Date/Time: | | Company | |
| celinquished by: Fedex | Date/Fime: | | Company | Received by: | X | A. | | Date/Time: 12175 | 10 01 | Company | |
| Relinquished by: | Date/Time: | | Company | Received by: | 10-1 | | | Date/Time: | | Company | |
| Custody Seals Intact: Custody Seal No. | | | | Cooler Temperal | ture(s) °C and (| Other Remark | | | | | _ |
| | | | | - | | | | ĺ | | Ver 06/08/2021 | 1 |

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Login Sample Receipt Checklist

Client: City of Tahoka

Login Number: 11465 List Number: 1 Creator: Triplett, Colby

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

Job Number: 820-11465-1

List Source: Eurofins Lubbock

Client: City of Tahoka

Login Number: 11465 List Number: 2 Creator: Jimenez, Nicanor

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

Job Number: 820-11465-1

List Source: Eurofins Houston

List Creation: 12/28/23 02:18 PM

13

<6mm (1/4").

ATTACHMENT L

Pollutant Analysis of Treated Effluent Laboratory Results & Chain of Custody



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Raymond Vega City of Tahoka PO BOX 300 Tahoka, Texas 79373 Generated 3/18/2024 12:26:58 PM

JOB DESCRIPTION

C Lagoon

JOB NUMBER

820-12174-1

Eurofins Lubbock 6701 Aberdeen Ave. Suite 8 Lubbock TX 79424







Eurofins Lubbock

Job Notes

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

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization

aylor

Generated 3/18/2024 12:26:58 PM

1

5

Authorized for release by Holly Taylor, Project Manager Holly.Taylor@et.eurofinsus.com (806)794-1296

Page 2 of 28

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| | |

3

5

Qualifiers

General Chemistry

| Qualifier | Qualifier Description |
|-----------|--|
| HF | Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time. |
| U | Indicates the analyte was analyzed for but not detected. |

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|---|
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

Eurofins Lubbock

Job Narrative 820-12174-1

Receipt

The sample was received on 2/22/2024 10:03 AM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 9.1° C.

General Chemistry

Method 350.1: The matrix spike duplicate (MSD) recoveries for analytical batch 860-147820 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method SM 4500 CI G: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-147656 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Subcontract non-Sister

See attached subcontract report.

Client Sample Results

0.200

10.0

20.0

6.67

0.250

12.0

128

4.92

2300

1240

46.7

22.3

<0.250 UHF

7.70 HF

18.1 HF

Client: City of Tahoka Project/Site: C Lagoon

General Chemistry

Ammonia (EPA 350.1)

pH (SW846 9040C)

Nitrogen, Kjeldahl (EPA 351.2)

Phosphorus Total (EPA 365.1)

Temperature (SW846 9040C)

Total Suspended Solids (SM

Carbonaceous Biochemical

Specific Conductance (SM 2510B)

Total Dissolved Solids (SM 2540C)

Chlorine, Total Residual (SM 4500 Cl

Oxygen Demand (SM5210B CBOD)

Analyte

2540D)

G)

Client Sample ID: C Lagoon Date Collected: 02/22/24 08:51 Date Received: 02/22/24 1

| 0:03 | | | | | | | | | |
|------|--------|-----------|------|-------|------|---|----------------|----------------|---------|
| | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| | 9.65 | | 1.00 | 0.508 | mg/L | | | 02/29/24 19:35 | 10 |
| 2) | 128 | | 20.0 | 8.90 | mg/L | | 03/01/24 09:29 | 03/06/24 19:23 | 10 |

0.143 mg/L

SU

10.0 umho/cm @

25C

20.0 mg/L

6.67 mg/L

0.250 mg/L

12.0 mg/L

Degrees C

Job ID: 820-12174-1

Lab Sample ID: 820-12174-1 **Matrix: Water**

03/01/24 19:51

03/01/24 17:40

03/01/24 17:40

03/01/24 17:40

02/27/24 22:22

02/29/24 19:57

02/29/24 14:48

02/23/24 10:00 02/23/24 15:03

5 |1 |2 |3

10

10

10

1

1

1

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5 6 7

Method: 350.1 - Nitrogen, Ammonia

| Lab Sample ID: MB 860-147820 Matrix: Water |)/164 | | | | | | | | (| Clie | ent Sam | ple ID: M Prep Ty | ethod pe: To | Blank tal/NA |
|---|----------------|-----------|-------|-------|--------|--------|-------|--------------|------------|----------|----------|-----------------------------------|-----------------|-----------------|
| Analysis Batch: 147820 | мр | мр | | | | | | | | | | | | |
| Analyta | IVIB Bosult | MB | | ы | | ו וחוא | Init | | п | D | roparod | Apoly | - | Dil Eac |
| Analyte | | | | 0 100 | | | na/l | | · <u> </u> | F | repareu | $-\frac{\text{Allaly}}{02/20/24}$ | 18.10 - | |
| Annona | <0.0500 | 0 | | 0.100 | 0.0 | 0500 1 | ng/∟ | | | | | 02/29/24 | 10.10 | I |
| Lab Sample ID: MB 860-147820 | 0/56 | | | | | | | | (| Clie | ent Sam | ple ID: M | ethod | Blank |
| Matrix: Water | | | | | | | | | | | | Prep Ty | pe: To | tal/NA |
| Analysis Batch: 147820 | | | | | | | | | | | | | | |
| | МВ | MB | | | | | | | | | | | | |
| Analyte | Result | Qualifier | | RL | I | MDL (| Jnit | | D | Ρ | repared | Analy | zed | Dil Fac |
| Ammonia | <0.0508 | U | | 0.100 | 0.0 | 0508 r | ng/L | | | | | 02/29/24 | 13:04 | 1 |
| | | | | | | | | | | | | | | |
| Lab Sample ID: LCS 860-14782 | 0/165 | | | | | | | CI | ient | Sar | nple ID | : Lab Cor | ntrol Sa | ample |
| Matrix: Water | | | | | | | | | | | | Prep Ty | pe: To | tal/NA |
| Analysis Batch: 147820 | | | | | | | | | | | | | | |
| | | | Spike | | LCS | LCS | - | | | _ | | %Rec | | |
| Analyte | | | Added | | Result | Quali | fier | Unit | | D | %Rec | Limits | | |
| Ammonia | | | 1.00 | | 1.085 | | | mg/L | | | 108 | 90 - 110 | | |
| Lab Sample ID: 1 CS 960 14792 | 0/57 | | | | | | | | iont | 6 | | | strol S | amplo |
| Matrix: Wator | .0/37 | | | | | | | | ent | Jai | inple iD | Prop Ty | no: To | |
| Analysis Batch: 147820 | | | | | | | | | | | | Fiebily | pe. 10 | |
| Analysis Batch. 147020 | | | Snike | | LCS | LCS | | | | | | %Rec | | |
| Analyte | | | | | Result | Qualit | fier | Unit | | п | %Rec | Limits | | |
| Ammonia | | | 1 00 | | 0.9831 | Quuin | | ma/l | | _ | 98 | 90 - 110 | | |
| | | | | | 0.000 | | | <u>g</u> / _ | | | | 00-110 | | |
| Lab Sample ID: LCSD 860-1478 | 320/166 | | | | | | С | lient S | Sam | ple | ID: Lab | Control | Sampl | e Dup |
| Matrix: Water | | | | | | | | | | | | Prep Ty | pe: To | tal/NA |
| Analysis Batch: 147820 | | | | | | | | | | | | | - - | |
| | | | Spike | | LCSD | LCSD |) | | | | | %Rec | | RPD |
| Analyte | | | Added | | Result | Quali | fier | Unit | | D | %Rec | Limits | RPD | Limit |
| Ammonia | | | 1.00 | | 1.085 | | | mg/L | | _ | 108 | 90 - 110 | 0 | 20 |
| — Г .. . | | | | | | | | | | | | | | _ |
| Lab Sample ID: LCSD 860-1478 | 320/58 | | | | | | C | lient S | Sam | ple | ID: Lab | Control | Sampl | e Dup |
| Matrix: Water | | | | | | | | | | | | Prep Ty | pe: To | tal/NA |
| Analysis Batch: 147820 | | | | | | | | | | | | ~ - | | |
| | | | Spike | | LCSD | LCSD |) | | | _ | ~ - | %Rec | | RPD |
| Analyte | | | Added | | Result | Quali | fier | Unit | | <u>D</u> | %Rec | | | Limit |
| | | | 1.00 | | 1.015 | | | mg/L | | | 102 | 90 - 110 | 3 | 20 |
| Method: 351.2 - Nitrogen, 1 | Total Kjel | dahl | | | | | | | | | | | | |
| Lab Sample ID: MB 860-147764 | 1/32-4 | | | | | | | | | Clie | nt Sam | nle ID· M | ethod | Blank |
| Matrix: Water | | | | | | | | | | | in oan | Pren Tv | ne: To | tal/NA |
| Analysis Batch: 150055 | | | | | | | | | | | | Prep Ba | atch: 1 | 47764 |

| | MB | MB | | | | | | | |
|--------------------|---------|-----------|-------|--------|------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Nitrogen, Kjeldahl | <0.0890 | U | 0.200 | 0.0890 | mg/L | | 03/01/24 09:29 | 03/06/24 18:42 | 1 |

5 6

Method: 351.2 - Nitrogen, Total Kjeldahl (Continued)

| Mariyte MB MB MDL Unit D Prepared Analyzed Dil Fac Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Nitrogen, Kjeldahi -0.0890 U 0.200 0.0900 mg/L D Prepared Analyzed Dil Fac Matrix: Water Analysis Spike LCS LCS LCS LCS Mitrix Nitrogen, Kjeldahi 2.00 1.992 Unit D Wree Wree Nitrogen, Kjeldahi 2.00 1.992 Unit D Wree Wree Nitrogen, Kjeldahi 2.00 1.992 Client Sample ID: Lab Control Sample Dup Matrix: Water Analysis Spike LCSD LCSD Client Sample ID: Lab Control Sample Dup Nitrogen, Kjeldahi 2.00 1.967 Unit D Wree Wree Nitrogen, Kjeldahi 2.00 1.967 Client Sample ID: Lab Control Sample Nitrogen, Kjeldahi 0.0200 0.2498 mg/L D Wree Natrix: Water Analysis Batch: 147764 Client Sample ID: Lab Control Sample Nitrogen, Kjeldahi 0.200 0.2498 mg/L <td< th=""><th>Lab Sample ID: MB 860-147 Matrix: Water</th><th>7764/4-A</th><th></th><th></th><th></th><th></th><th></th><th></th><th>CI</th><th>ient S</th><th>Samp</th><th>Die ID: M Prep Ty</th><th>ethod pe: To</th><th>Blank tal/NA</th></td<> | Lab Sample ID: MB 860-147 Matrix: Water | 7764/4-A | | | | | | | CI | ient S | Samp | Die ID: M Prep Ty | ethod pe: To | Blank tal/NA |
|--|--|-------------|-----------|-------|-----|--------|-----------|----------|--------|--------|-------|----------------------|-----------------|-----------------|
| AnalysicResultQualifierRLMULUnitDPreparedAnalyzedDIFacNitrogen, Kjeldahi<0.0890 | Analysis Datch. 130033 | МВ | мв | | | | | | | | | гтер Ба | | 4//04 |
| Nitrogen, Kjeldahl | Analyte | Result | Qualifier | | RL | I | MDL Unit | | D | Prepar | ed | Analyz | ed | Dil Fac |
| Lab Sample ID: LCS 860-147764/33-A Client Sample ID: Lab Control Sample Martix: Water Prep Batch: 147764 Analytes Added Analyte Added Nitrogen, Kjeldahi 2.00 Lab Sample ID: LCS D 860-147764/34-A Client Sample ID: Lab Control Sample Dup Martix: Water | Nitrogen, Kjeldahl | <0.0890 | U | 0. | 200 | 0.0 | 890 mg/L | | 03 | /01/24 | 09:29 | 03/06/24 | 18:29 | 1 |
| Matrix: Water Prep Batch: 147764 Analysis Batch: 150055 Spike LCS LCS %Rec Analyte Added 1.992 mg/L 100 90.110 Lab Sample ID: LCSD 860-147764/34-A Client Sample ID: Lab Control Sample Dup Prep Batch: 147764 Matrix: Water Prep Kieldahi 2.00 1.992 mg/L 100 90.110 Lab Sample ID: LCSD 860-147764/34-A Client Sample ID: Lab Control Sample Dup Prep Batch: 147764 Analyte Added Result Qualifier Prep Batch: 147764 Analyte Added 1.967 mg/L D %Rec Nitrogen, Kjeldahi 2.00 1.967 mg/L D %Rec Prep Batch: 147764 Kitrogen, Kjeldahi 2.00 1.967 mg/L D %Rec Prep Type: Total/NA Analyte Added 1.967 mg/L D %Rec Limits Prep Batch: 147764 Matrix: Water Client Sample ID: Lab Control Sample Prep Batch: 147764 Prep Batch: 147764 Prep Batch: 147764 Matrix: Water Added 0.200 0.2499 mg/L D %Rec Analyte Added 0.200 0.2499 mg/L D D Hothod: | Lab Sample ID: LCS 860-14 | 7764/33-A | | | | | | Cli | ent Sa | ample |) ID: | Lab Cor | trol S | ample |
| Analysis Batch: 150055 Prop Batch: 147764 Analyte Added Result Qualifier Unit D %Rec Limits Analyte Added 2.00 1.992 Unit D %Rec Limits Lab Sample ID: LCSD 860-147764/34-A Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA Prep Type: Total/NA Analyte Added 2.00 1.967 Unit D %Rec RPD Analyte Added 2.00 1.967 Unit D %Rec RPD Analyte Added 2.00 1.967 Unit D %Rec RPD Analyte // Water Added 2.00 1.967 Unit D %Rec RPD Analyte // Water Added 2.00 1.967 Unit D %Rec RPD Analyte // Water Added 0.200 0.2498 Unit D %Rec Imits Analyte // Water Added 0.200 0.2498 mg/L D %Rec Imits Analyte // Nitrogen, Kjeldahl 0.200 0.2498 Mg/L D %Rec Imits Analyte // Phoephorus, Total 0.200 0.2498 Mg/L | Matrix: Water | | | | | | | | | | | Prep Ty | pe: To | tal/NA |
| AnalyteAdded AddedResult Result QualifierUnit unit mg/LD b %Rec%Rec timitsNitrogen, Kjeldahl2.001.992Unit mg/LD w/Rec0.0.110Lab Sample ID: LCSD 860-147764/34-A Matrix: Water AnalyteCilent Sample ID: Lab Control Sample Dup | Analysis Batch: 150055 | | | | | | | | | | | Prep Ba | tch: 1 | 47764 |
| Analyte Added Result Qualifier Unit D Vike Limits Nitrogen, Kjeldahi 2:00 1:992 0:01 0:01 0:010 Lab Sample ID: LCSD 560-147764/34-A Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA Analyte Added Result Qualifier Unit D %Rec RPD Analyte Added Result Qualifier Unit D %Rec RPD Limits Nitrogen, Kjeldahi 2:00 1:967 mg/L D %Rec RPD Limits Analyte Added Result Qualifier Unit D %Rec RPD Limits Nitrogen, Kjeldahi D10: LLCS 860-147764/5-A Added Result Qualifier Unit D %Rec RPD Limits Analyte Added 0:200 0:2498 mg/L D %Rec Limits D Nitrosen, Kjeldahi Prep Type: Total/NA Natix: Water Analyte Result Qualifier Unit D YRec Limits D | | | | Spike | | LCS | LCS | | _ | | | %Rec | | |
| Nillogen, Kjeldahi 2.00 1.992 mgL 1.00 90.110 Lab Sample ID: LCSD 860-147764/34-A Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA Analyte Added Result Qualifier Unit D %Rec RPD Analyte Added 2.00 1.967 Watrk: Water Water Water Nitrogen, Kjeldahi D %Rec RPD Lab Sample ID: LLCS 860-147764/5-A Client Sample ID: Lab Control Sample D Ymp Limits Prep Type: Total/NA Analyte Added Result Qualifier Unit D %Rec RPD Matrix: Water Analyte Added Result Qualifier Unit D %Rec Water Analyte Added 0.000 0.2498 mgL D %Rec Dil Fac Matrix: Water | Analyte | | | Added | | Result | Qualifier | Unit | [|) %R | ec _ | Limits | | |
| Lab Sample ID: LCSD 860-147764/34-A Client Sample ID: Lab Control Sample Dup Matrix: Water Prep Batch: 150055 Prep Batch: 147764 Analyte Added Result Qualifier Unit D %Rec RPD Analyte Added Result Qualifier Unit D %Rec RPD Matrix: Water | Nitrogen, Kjeldani | | | 2.00 | | 1.992 | | mg/L | | 10 | 00 | 90 - 110 | | |
| Matrix: Water Analysis Batch: 150055 Prep Type: Total/NA Prep Batch: 147764 Analyte Added Result Qualifier Initogen, Kjeldahi Unit D %Rec RPD Limits Lab Sample ID: LLCS 860-147764/5-A Matrix: Water Client Sample ID: Lab Control Sample Prep Type: Total/NA Prep Type: Total/NA Analyte Added Result Qualifier Unit D %Rec RPD Analyte Added Result Qualifier Unit D %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits Analyte Added O.200 0.2498 mg/L D %Rec Method: 365.1 - Phosphorus, Total Elient Sample ID: MB 860-148079/93 Client Sample ID: Method Blank Prep Type: Total/NA Matrix: Water Analysis Batch: 148079 MB MB Client Sample ID: Method Blank Prep Type: Total/NA Analyte Result Qualifier RL 0.0143 D 030/01/24 19:21 Dil Fac Phosphorus Total 0.0250 0.2440 mg/L D %Rec Limits Analyte Added 0.250 0.2440 mg/L D %Rec Limits Prosphorus Total 0.250 0.2440 mg/L D %Rec <td>Lab Sample ID: LCSD 860-</td> <td>147764/34-A</td> <td></td> <td></td> <td></td> <td></td> <td>C</td> <td>Client S</td> <td>ampl</td> <td>e ID:</td> <td>Lab</td> <td>Control</td> <td>Sampl</td> <td>e Dup</td> | Lab Sample ID: LCSD 860- | 147764/34-A | | | | | C | Client S | ampl | e ID: | Lab | Control | Sampl | e Dup |
| Analysis Batch: 150055 Prep Batch: 147764 Analyte Added Result Qualifier Unit D %Rec RPD Nitrogen, Kjeldahi 2:00 1.967 mg/L D %Rec RPD Lab Sample ID: LLCS 860-147764/5-A Client Sample ID: Lab Control Sample Prep Batch: 147764 Prep Type: Total/NA Analyte Added Result Qualifier Unit D %Rec Imits Analyte Added Result Qualifier Unit D %Rec Imits Nitrogen, Kjeldahi 0.200 0.2498 Unit D %Rec Imits Nitrogen, Kjeldahi 0.200 0.2498 Unit D %Rec Imits Matrix: Water Analyte Result Qualifier Unit D %Rec Imits Analyte Result Qualifier NB MB NB NB NB NB Analysis Batch: 148079 MB MB NB NB NB NB NB Analysis Batch: 148079 MB MB NB NB NB NB NB Analysis Batch: 148079 Qualifier Result Qualifier Naltic D </td <td>Matrix: Water</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Prep Ty</td> <td>pe: To</td> <td>tal/NA</td> | Matrix: Water | | | | | | | | | | | Prep Ty | pe: To | tal/NA |
| Spike AnalyteLCSDLCSD%Rec QualifierRPD Unit Mg/LMRec DRPD MercLimits LRPD LLimits LRPD LLimits LRPD LLimits LRPD LLimits LRPD LLimits LRPD LLimits LRPD LLimits LRPD LLimits LRPD LLimits LRPD LLimits LRPD | Analysis Batch: 150055 | | | | | | | | | | | Prep Ba | tch: 1 | 47764 |
| Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit Nitrogen, Kjeldahi 2.00 1.967 1.967 98 90.110 1 20 Lab Sample ID: LLCS 860-147764/5-A Matrix: Water Client Sample ID: Lab Control Sample Prep Type: Total/NA Analyte Spike LLCS LLCS Unit D %Rec Limits Prep Type: Total/NA Nitrogen, Kjeldahi 0.200 0.2498 Unit D %Rec Limits 50.150 Method: 365.1 - Phosphorus, Total Client Sample ID: MB 860-148079/93 Client Sample ID: Method Blank Prep Type: Total/NA Analyte Result Qualifier RL 0.0143 mg/L D %Rec DII Fac Phosphorus Total -0.0143 U 0.0200 0.0143 mg/L D Prepared Analyzed DII Fac Phosphorus Total -0.0143 U 0.0200 0.0143 mg/L D %Rec Limits Matrix: Water Analyte Result Qualifier< | | | | Spike | | LCSD | LCSD | | | | | %Rec | | RPD |
| Nirogen, Kjeldahi 2:00 1:967 mg/L 98 90.110 1 20 Lab Sample ID: LLCS 860-147764/5-A Matrix: Water Prep Type: Total/NA Analysis Batch: 150055 Spike LLCS LLCS Prep Type: Total/NA Analyte Added Result Qualifier Unit D %Rec Limits Method: 365.1 - Phosphorus, Total Client Sample ID: MB 860-148079/93 Client Sample ID: Method Blank Prep Type: Total/NA Matrix: Water Result Qualifier NIDL Unit D %Rec Limits Analyte Result Qualifier NIDL Unit D Prep Type: Total/NA Analyte Result Qualifier NIDL Unit D %Rec Analyte Result Qualifier 0.0143 mg/L D Prep Type: Total/NA Analyte Result Qualifier 0.0143 mg/L D Prep Type: Total/NA Analyte Result Qualifier 0.0143 mg/L D Prep Type: Total/NA Analyte Result Qualifier 0.0200 0.0143 mg/L D %Rec Analyte Added Result Qualifier | Analyte | | | Added | | Result | Qualifier | Unit | |) %R | ec _ | Limits | RPD | Limit |
| Lab Sample ID: LLCS 860-147764/5-A Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Total/NA Analysis Batch: 150055 Spike Analysis Batch: 150055 Spike Analyte Added Nitrogen, Kjeldahl 0.200 Method: 365.1 - Phosphorus, Total Client Sample ID: MB 860-148079/93 Matrix: Water Client Sample ID: MB 860-148079/93 Matrix: Water MB MB Analysis Batch: 148079 MB MB Analyte Result Qualifier Phosphorus Total -0.0143 U Lab Sample ID: LCS 860-148079/94 Client Sample ID: Lab Control Sample Matrix: Water Analyte Analyte Result Qualifier Phosphorus Total -0.0143 U Lab Sample ID: LCS 860-148079/94 Client Sample ID: Lab Control Sample Matrix: Water Analyte Analysis Batch: 148079 Spike Analyte Spike Phosphorus Total 0.250 O.2240 Unit D Matrix: Water Analyte Analyte Added Phosphorus Total 0.250 <td>Nitrogen, Kjeldahl</td> <td></td> <td></td> <td>2.00</td> <td></td> <td>1.967</td> <td></td> <td>mg/L</td> <td></td> <td>9</td> <td>98</td> <td>90 - 110</td> <td>1</td> <td>20</td> | Nitrogen, Kjeldahl | | | 2.00 | | 1.967 | | mg/L | | 9 | 98 | 90 - 110 | 1 | 20 |
| Matrix: Water Prep Type: Total/NA Analysis Batch: 150055 Spike LLCS LLCS Prep Batch: 147764 Analyte Added Result Qualifier Unit D %Rec Limits | Lab Sample ID: LLCS 860-1 | 47764/5-A | | | | | | Cli | ent Sa | ample | D: | Lab Cor | trol S | ample |
| Analysis Batch: 150055 Prep Batch: 147764 Analyte Added Result Qualifier Unit D %Rec Limits - Nitrogen, Kjeldahi 0.200 0.2498 mg/L 0 25 50.150 - Method: 365.1 - Phosphorus, Total Client Sample ID: MB 860-148079/93 Client Sample ID: Method Blank Prep Type: Total/NA Matrix: Water Result Qualifier MDL Unit D Prep add Analyzed Dil Fac Phosphorus Total 0.0143 U 0.0143 mg/L D Prepared Analyzed Dil Fac Phosphorus Total 0.0200 0.0143 mg/L D Prepared Analyzed Dil Fac Analysis Batch: 148079 0.0200 0.0143 mg/L D Prepared Analyzed Dil Fac Phosphorus Total 0.0200 0.0143 mg/L D Meec Limits Prep Type: Total/NA Analysis Batch: 148079 Added Result Qualifier Unit | Matrix: Water | | | | | | | | | | | Prep Tv | pe: To | tal/NA |
| Spike AnalyteLLCS Added 0.200LLCS QualifierLLCS QualifierUnit mg/LD P %Rec 125%Rec Limits 50.150Method:365.1 - Phosphorus, TotalLab Sample ID: MB 860-148079/93 Matrix: Water Analysis Batch: 148079MB MB MB MB 4nalysis Batch: 148079Analyte Phosphorus TotalMB Result QualifierResult QualifierMDL NDL NO.0200Unit NDL <td>Analysis Batch: 150055</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Prep Ba</td> <td>tch: 1</td> <td>47764</td> | Analysis Batch: 150055 | | | | | | | | | | | Prep Ba | tch: 1 | 47764 |
| AnalyteAddedResultQualifierUnitD%RecLimitsNitrogen, Kjeldahi0.2000.2498mg/L012550.150Method: 365.1 - Phosphorus, TotalLab Sample ID: MB 860-148079/93 Matrix: Water Analysis Batch: 148079MBMBClient Sample ID: Method Blank Prep Type: Total/NAAnalyteResultQualifierRL0.0200MDLUnitDPreparedAnalyzed | | | | Spike | | LLCS | LLCS | | | | | %Rec | | |
| Nitrogen, Kjeldahi 0.200 0.2498 mg/L 125 50.150 Method: 365.1 - Phosphorus, Total Itab Sample ID: MB 860-148079/93 Matrix: Water Analysis Batch: 148079 Client Sample ID: Method Blank Prep Type: Total/NA Analyte Result Qualifier RL MDL Unit D Prepared Analyzed 03/01/24 19:21 Dil Fac 03/01/24 19:21 Lab Sample ID: LCS 860-148079/94 Matrix: Water Analysis Batch: 148079 Result Qualifier MDL Unit D Prepared 0.0143 Analyzed 0.0143 Dil Fac 0.0143 Analyte Result Qualifier RL MDL Unit D Prepared 0.03/01/24 19:21 Dil Fac 0.03/01/24 19:21 Lab Sample ID: LCS 860-148079/94 Matrix: Water Analysis Batch: 148079 Spike Added LCS Result LCS Qualifier Unit mg/L D %Rec %Rec Limits Limits 90 - 110 Lab Sample ID: LCSD 860-148079/95 Matrix: Water Analysis Batch: 148079 Spike Added LCSD Result LCSD Qualifier D %Rec %Rec RPD Limits Analyte Phosphorus Total Spike 0.250 LCSD 0.250 LCSD Qualifier D %Rec %Rec <td>Analyte</td> <td></td> <td></td> <td>Added</td> <td></td> <td>Result</td> <td>Qualifier</td> <td>Unit</td> <td>0</td> <td>) %R</td> <td>ec</td> <td>Limits</td> <td></td> <td></td> | Analyte | | | Added | | Result | Qualifier | Unit | 0 |) %R | ec | Limits | | |
| Method: 365.1 - Phosphorus, Total Lab Sample ID: MB 860-148079/93 Matrix: Water Analysis Batch: 148079 Client Sample ID: Method Blank Prep Type: Total/NA Analyte Result <0.0143 Qualifier U RL 0.0200 MDL 0.0143 Unit mg/L D Prepared 03/01/24 19:21 Dil Fac 03/01/24 19:21 Lab Sample ID: LCS 860-148079/94 Matrix: Water Analysis Batch: 148079 Spike Added LCS Result 0.250 Client Sample ID: Lab Control Sample Prep Type: Total/NA Analyte Phosphorus Total Spike 0.250 LCS 0.2440 Client Sample ID: Lab Control Sample Prep Type: Total/NA Lab Sample ID: LCSD 860-148079/95 Matrix: Water Analysis Batch: 148079 Spike 0.2440 LCS LCS 0.2440 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA Lab Sample ID: LCSD 860-148079/95 Matrix: Water Analysis Batch: 148079 Spike Added 0.250 LCSD 0.2450 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA Analyte Phosphorus Total Spike 0.250 LCSD 0.2450 LCSD mg/L D %Rec Simits 90.110 RPD 0 Limits 20 | Nitrogen, Kjeldahl | | | 0.200 | | 0.2498 | | mg/L | | 1 | 25 | 50 - 150 | | |
| Lab Sample ID: MB 860-148079/93 Matrix: Water Analysis Batch: 148079MB MB MB MB MB Analysis Batch: 148079Client Sample ID: Method Blank Prep Type: Total/NAAnalyteResult QualifierRL QualifierMDL 0.0200Unit 0.0143D mg/LPrepared 0.3/01/24 19:21Analyzed Dil Fac 0.3/01/24 19:21Dil Fac 0.3/01/24 19:21Lab Sample ID: LCS 860-148079/94 Matrix: Water Analysis Batch: 148079Spike AddedLCS Result QualifierClient Sample ID: Lab Control Sample Prep Type: Total/NAAnalyte Phosphorus TotalSpike 0.250LCS 0.2440Client Sample ID: Lab Control Sample Prep Type: Total/NALab Sample ID: LCSD 860-148079/95 Matrix: Water Analysis Batch: 148079Spike 0.2440LCS Result QualifierD Wint mg/LMRc WRec WRec Prep Type: Total/NALab Sample ID: LCSD 860-148079/95 Matrix: Water Analysis Batch: 148079Spike Added 0.250LCSD Result QualifierClient Sample ID: Lab Control Sample Dup Prep Type: Total/NAAnalyte Phosphorus TotalSpike 0.250LCSD 0.2450LCSD Watrix: Ma | Method: 365.1 - Phosph | orus, Total | | | | | | | | | | | | |
| Matrix: Water Analysis Batch: 148079 MB MB MB MB Prep Type: Total/NA Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Phosphorus Total <0.0143 | Lab Sample ID: MB 860-148 | 3079/93 | | | | | | | CI | ient S | Samp | ole ID: M | ethod | Blank |
| MB MB Analysis Batch: 148079 Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Phosphorus Total <0.0143 | Matrix: Water | | | | | | | | | | | Prep Ty | pe: To | tal/NA |
| MBMBAnalyteResultQualifierRLMDLUnitDPreparedAnalyzedDil FacPhosphorus Total<0.0143 | Analysis Batch: 148079 | | | | | | | | | | | | | |
| AnalyteResultQualifierRLMDLUnitDPreparedAnalyzedDil FacPhosphorus Total<0.0143 | | MB | MB | | | | | | _ | _ | | | | |
| Phosphorus total<0.0143 U0.02000.0143 mg/L03/01/24 19:211Lab Sample ID: LCS 860-148079/94 Matrix: Water Analysis Batch: 148079Client Sample ID: Lab Control Sample Prep Type: Total/NAAnalyte Phosphorus TotalSpike 0.250LCS 0.2440Client Sample ID: Lab Control Sample Prep Type: Total/NALab Sample ID: LCSD 860-148079/95 Matrix: Water Analysis Batch: 148079Spike 0.250LCS 0.2440Unit mg/LD %Rec 98%Rec 90 - 110Lab Sample ID: LCSD 860-148079/95 Matrix: Water Analysis Batch: 148079Spike Added 0.250LCSD 0.2450Client Sample ID: Lab Control Sample Dup Prep Type: Total/NAAnalyte Phosphorus TotalSpike 0.250LCSD 0.2450LCSD mg/LMatrix 98%Rec 98RPD Limit Limit 20 | Analyte | Result | Qualifier | | RL | I | MDL Unit | | D | Prepar | ed | Analyz | | Dil Fac |
| Lab Sample ID: LCS 860-148079/94 Matrix: Water Analysis Batch: 148079Client Sample ID: Lab Control Sample Prep Type: Total/NAMatrix: Water Analysis Batch: 148079Spike Added 0.250LCS 0.2440LCS Waiting Unit mg/LD 9 %Rec 98%Rec Limits 90 - 110Lab Sample ID: LCSD 860-148079/95 Matrix: Water Analysis Batch: 148079Client Sample ID: Lab Control Sample Dup Prep Type: Total/NALab Sample ID: LCSD 860-148079/95 Matrix: Water Analysis Batch: 148079Spike Added 0.250LCSD LCSD LCSD LCSD LCSD LCSD LCSD Matrix: Water Analysis Batch: 148079Spike Added 0.250LCSD LCSD LCSD LCSD LCSD LCSD LCSD LCSD Natrix: Water Analysis Batch: 148079Spike Added 0.250LCSD LCSD LCSD LCSD LCSD LCSD LCSD NAtrix: Water Analysis Batch: 148079Spike Added 0.250LCSD LCSD LCSD LCSD LCSD LCSD LCSD NAtrix: Water Analysis Batch: 148079Spike Added 0.250LCSD LCSD Qualifier Matrix <td>Phosphorus Iotal</td> <td>< 0.0143</td> <td>U</td> <td>0.0</td> <td>200</td> <td>0.0</td> <td>143 mg/L</td> <td></td> <td></td> <td></td> <td></td> <td>03/01/24</td> <td>19:21</td> <td>1</td> | Phosphorus Iotal | < 0.0143 | U | 0.0 | 200 | 0.0 | 143 mg/L | | | | | 03/01/24 | 19:21 | 1 |
| Matrix: Water Analysis Batch: 148079Prep Type: Total/NAAnalyte Phosphorus TotalSpike AddedLCS | Lab Sample ID: LCS 860-14 | 8079/94 | | | | | | Cli | ent Sa | ample | D: | Lab Cor | trol S | ample |
| Analysis Batch: 148079SpikeLCSLCSLCSMRecAnalyteAddedResultQualifierUnitD%RecLimitsPhosphorus Total0.2500.2440mg/LD%RecLimitsLab Sample ID: LCSD 860-148079/95 Matrix: Water Analysis Batch: 148079Client Sample ID: Lab Control Sample Dup Prep Type: Total/NAAnalyteSpikeLCSDLCSD%RecRPDAnalyteAddedResultQualifierUnitD%RecRPDPhosphorus Total0.2500.2450mg/LD%RecRPDLimits0.2500.24500.24500.24500.24500.2450 | Matrix: Water | | | | | | | | | - C. | | Prep Ty | pe: To | tal/NA |
| Spike Analyte Phosphorus TotalSpike AddedLCS ResultLCS QualifierUnit mg/LD P %Rec 98%Rec Limits 90 - 110Lab Sample ID: LCSD 860-148079/95 Matrix: Water Analysis Batch: 148079Client Sample ID: Lab Control Sample Dup Prep Type: Total/NAAnalyte Phosphorus TotalSpike Added 0.250LCSD 0.2440Client mg/LMatrix Prep Type: Total/NAAnalyte Phosphorus TotalSpike 0.250LCSD 0.2450WRec mg/LRPD Prep Type: Total/NA | Analysis Batch: 148079 | | | | | | | | | | | | | |
| Analyte Phosphorus TotalAdded 0.250Result 0.2440Qualifier mg/LUnit mg/LD %Rec 98Limits 90 - 110Lab Sample ID: LCSD 860-148079/95 Matrix: Water Analysis Batch: 148079Client Sample ID: Lab Control Sample Dup Prep Type: Total/NAAnalyte Phosphorus TotalSpike 0.250LCSD 0.2450WRec gualifierWRec yrep Type: Total/NAAnalyte Phosphorus Total0.2500.2450Unit mg/LD yrep Type: TotalRPD yrep Type: Total/NA | | | | Spike | | LCS | LCS | | | | | %Rec | | |
| Phosphorus Total0.2500.2440mg/L9890 - 110Lab Sample ID: LCSD 860-148079/95 Matrix: Water Analysis Batch: 148079Client Sample ID: Lab Control Sample Dup Prep Type: Total/NAAnalyte Phosphorus TotalSpike 0.250LCSD 0.2450%Rec mg/LRPD 98Analyte 90 - 110020 | Analyte | | | Added | | Result | Qualifier | Unit | 0 |) %R | ес | Limits | | |
| Lab Sample ID: LCSD 860-148079/95 Matrix: Water Analysis Batch: 148079Client Sample ID: Lab Control Sample Dup Prep Type: Total/NAAnalysis Batch: 148079SpikeLCSDVRecRPDAnalyte Phosphorus TotalAdded 0.250Result 0.2450Qualifier mg/LUnit mg/LD 98%Rec 98RPD Limits 20 | Phosphorus Total | | | 0.250 | | 0.2440 | | mg/L | | | 98 | 90 - 110 | | |
| Matrix: Water Prep Type: Total/NA Analysis Batch: 148079 Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec RPD Phosphorus Total 0.250 0.2450 0.2450 mg/L D %Rec RPD | Lab Sample ID: LCSD 860- | 148079/95 | | | | | (| Client S | ampl | e ID: | Lab | | Sampl | e Dup |
| Analysis Batch: 148079SpikeLCSDKecRPDAnalyteAddedResultQualifierUnitD%RecLimitsRPDPhosphorus Total0.2500.24500.2450mg/LD9890 - 110020 | Matrix: Water | | | | | | | | | | | Prep Tv | pe: To | tal/NA |
| AnalyteSpikeLCSDLCSD%RecRPDAnalyteAddedResultQualifierUnitD%RecLimitsRPDLimitPhosphorus Total0.2500.24500.2450mg/L9890 - 110020 | Analysis Batch: 148079 | | | | | | | | | | | | | |
| AnalyteAddedResultQualifierUnitD%RecLimitsRPDLimitPhosphorus Total0.2500.24500.24509890 - 110020 | | | | Spike | | LCSD | LCSD | | | | | %Rec | | RPD |
| Phosphorus Total 0.250 0.2450 mg/L 98 90 - 110 0 20 | Analyte | | | Added | | Result | Qualifier | Unit | 0 |) %R | ес | Limits | RPD | Limit |
| | Phosphorus Total | | | 0.250 | | 0.2450 | | mg/L | | | 98 | 90 - 110 | 0 | 20 |

5 6

Method: SM 2510B - Conductivity, Specific Conductance

| Lab Sample ID: MB 860-147894/8 Matrix: Water | 2 | | | | | | | | C | Clie | ent Sam | ple ID: M Prep Ty | ethod pe: To | Blank tal/NA |
|---|--|----------------------|--|-------------------|---|---------------------------|---|--|---------------------|---|---|--|--|--|
| Analysis Batch: 147894 | | | | | | | | | | | | | | |
| Anchite | MB | MB | | ы | | | 11 | | _ | п. | | Analy | | |
| Specific Conductance | <10.0 | U | | 10.0 | | 10.0 | umho 25C | /cm @ | <u> </u> | | repareu | 03/01/24 | 17:11 | 1 |
| Lab Sample ID: LCS 860-147894/3 | 39 | | | | | | | Cli | ent S | Sar | nple ID | : Lab Cor | ntrol S | ample |
| Matrix: Water | | | | | | | | | | | | Prep Tv | pe: To | tal/NA |
| Analysis Batch: 147894 | | | | | | | | | | | | | | |
| | | | Spike | | LCS | LCS | 5 | | | | | %Rec | | |
| Analyte | | | Added | | Result | Qua | lifier | Unit | | D | %Rec | Limits | | |
| Specific Conductance | | | 1410 | | 1412 | | | umho/c @ 25C | m | _ | 100 | 85 - 115 | | |
| Lab Sample ID: LCSD 860-147894 | 4/40 | | | | | | C | lient S | Samp | ole | ID: Lab | | Sampl | e Dup |
| Analysis Batch: 147894 | | | | | | | | | | | | герту | pe. 10 | |
| Analysis Datch. 147034 | | | Snike | | | LCS | SD OF | | | | | %Rec | | RPD |
| Analyte | | | Added | | Result | Qua | lifier | Unit | | D | %Rec | Limits | RPD | Limit |
| Specific Conductance | | | 1410 | | 1412 | | | umho/c @ 25C | m | _ | 100 | 85 - 115 | 0 | 20 |
| | Total D | issolve | d (TDS | 5) | | | | | | | | | | |
| Method: SM 2540C - Solids, Lab Sample ID: MB 860-147301/1 | | | <u> </u> | , | | | | | C | lie | ent Sam | ple ID: M | ethod | Blank |
| Method: SM 2540C - Solids, Lab Sample ID: MB 860-147301/1 Matrix: Water Analysis Batch: 147301 | мв | мв | <u> </u> | , | | | | | C | Clie | ent Sam | ple ID: M Prep Ty | ethod pe: To | Blank tal/NA |
| Method: SM 2540C - Solids, Lab Sample ID: MB 860-147301/1 Matrix: Water Analysis Batch: 147301 Analyte | MB Result | MB Qualifier | | , RL | | MDL | Unit | | D | Clie Pi | ent Sam | ple ID: M Prep Ty Analyz | ethod pe: To ^{zed} | Blank tal/NA Dil Fac |
| Method: SM 2540C - Solids, Lab Sample ID: MB 860-147301/1 Matrix: Water Analysis Batch: 147301 <u>Analyte</u> Total Dissolved Solids | MB Result <5.00 | MB Qualifier U | | RL 5.00 | | MDL 5.00 | Unit mg/L | | D _ | Pi | ent Sam | ple ID: M Prep Ty | ethod pe: To zed 22:22 | Blank tal/NA Dil Fac |
| Method: SM 2540C - Solids, Lab Sample ID: MB 860-147301/1 Matrix: Water Analysis Batch: 147301 <u>Analyte</u> Total Dissolved Solids Lab Sample ID: LCS 860-147301/2 Matrix: Water Analysis Batch: 147301 | MB Result <5.00 | MB Qualifier U | | RL 5.00 | | MDL 5.00 | Unit mg/L | Cli | D ent \$ | Pi Sar | ent Sam repared nple ID | Prep Ty Prep Ty - Analyz 02/27/24 : Lab Cor Prep Ty | ethod pe: To 22:22 htrol S pe: To | Blank tal/NA Dil Fac 1 ample tal/NA |
| Method: SM 2540C - Solids, Lab Sample ID: MB 860-147301/1 Matrix: Water Analysis Batch: 147301 <u>Analyte</u> Total Dissolved Solids Lab Sample ID: LCS 860-147301/2 Matrix: Water Analysis Batch: 147301 | MB Result <5.00 | MB Qualifier U | Spike | RL 5.00 | LCS | MDL 5.00 | Unit mg/L | Cli | D | Pi Sar | ent Sam repared mple ID | Prep Ty Prep Ty - Analyz 02/27/24 : Lab Cor Prep Ty %Rec | ethod pe: To 22:22 htrol S pe: To | Blank tal/NA Dil Fac 1 ample tal/NA |
| Method: SM 2540C - Solids, Lab Sample ID: MB 860-147301/1 Matrix: Water Analysis Batch: 147301 Analyte Total Dissolved Solids Lab Sample ID: LCS 860-147301/2 Matrix: Water Analysis Batch: 147301 Analyte | MB Result <5.00 | MB Qualifier U | Spike | RL 5.00 | LCS Result | MDL 5.00 LCS Qua | Unit mg/L | Cli Unit | D | Pi Sar | repared mple ID %Rec | Analyz Analyz 02/27/24 Lab Cor Prep Ty %Rec Limits | ethod pe: To 22:22 htrol S pe: To | Blank tal/NA Dil Fac 1 ample tal/NA |
| Method: SM 2540C - Solids, Lab Sample ID: MB 860-147301/1 Matrix: Water Analysis Batch: 147301 Analyte Total Dissolved Solids Lab Sample ID: LCS 860-147301/2 Matrix: Water Analysis Batch: 147301 Analyte Total Dissolved Solids | MB Result <5.00 2 | MB Qualifier U | Spike Added 1000 | RL 5.00 | LCS Result 1110 | MDL 5.00 LCS Qua | Unit mg/L | Cli <u>Unit</u> mg/L | D | Pi Bar | repared mple ID | Analyz - Analyz 02/27/24 : Lab Cor Prep Ty %Rec Limits 80 - 120 | ethod pe: To 22:22 htrol S pe: To | Blank tal/NA Dil Fac 1 ample tal/NA |
| Method: SM 2540C - Solids, Lab Sample ID: MB 860-147301/1 Matrix: Water Analysis Batch: 147301 Analyte Total Dissolved Solids Lab Sample ID: LCS 860-147301/2 Matrix: Water Analysis Batch: 147301 Analyte Total Dissolved Solids Lab Sample ID: LCSD 860-147301 Matrix: Water | MB <u>Result</u> <5.00 2 | MB Qualifier U | Spike Added 1000 | RL 5.00 | LCS Result 1110 | MDL 5.00 LCS Qua | Unit mg/L | Cli <u>Unit</u> mg/L Client S | C D Cent S | Pr Sar | ent Sam repared mple ID <u>%Rec</u> 111 ID: Lab | Analyz - Analyz 02/27/24 : Lab Cor Prep Ty %Rec Limits 80 - 120 • Control Prep Ty | ethod pe: To 22:22 htrol S pe: To Sampl pe: To | Blank tal/NA Dil Fac 1 ample tal/NA |
| Method: SM 2540C - Solids, Lab Sample ID: MB 860-147301/1 Matrix: Water Analysis Batch: 147301 Analyte Total Dissolved Solids Lab Sample ID: LCS 860-147301/2 Matrix: Water Analysis Batch: 147301 Analyte Total Dissolved Solids Lab Sample ID: LCSD 860-147301 Matrix: Water Analysis Batch: 147301 | MB <u>Result</u> <5.00 2 | MB Qualifier U | Spike Added 1000 | RL 5.00 | LCS Result 1110 | MDL 5.00 LCS Qua | Unit mg/L | Cli Unit mg/L Client S | C D lent \$ | Pi Sar | repared mple ID <u>%Rec</u> 111 ID: Lab | Analyz - Analyz 02/27/24 : Lab Cor Prep Ty %Rec Limits 80 - 120 • Control Prep Ty | ethod pe: To 22:22 htrol S pe: To Sampl pe: To | Blank tal/NA Dil Fac 1 ample tal/NA |
| Method: SM 2540C - Solids, Lab Sample ID: MB 860-147301/1 Matrix: Water Analysis Batch: 147301 Analyte Total Dissolved Solids Lab Sample ID: LCS 860-147301/2 Matrix: Water Analysis Batch: 147301 Analyte Total Dissolved Solids Lab Sample ID: LCSD 860-147301 Matrix: Water Analysis Batch: 147301 | MB <u>Result</u> <5.00 2 | MB Qualifier U | Spike Added 1000 Spike | RL 5.00 | LCS Result 1110 LCSD | MDL 5.00 LCS Qua | Unit mg/L | Cli Unit mg/L Client S | C ent \$ | Pr Sar | repared mple ID <u>%Rec</u> 111 ID: Lab | Analyz - Analyz 02/27/24 : Lab Cor Prep Ty %Rec Limits 80 - 120 • Control Prep Ty %Rec | ethod pe: To 22:22 htrol S pe: To Sampl pe: To | Blank tal/NA Dil Fac 1 ample tal/NA e Dup tal/NA RPD |
| Method: SM 2540C - Solids, Lab Sample ID: MB 860-147301/1 Matrix: Water Analysis Batch: 147301 Analyte Total Dissolved Solids Lab Sample ID: LCS 860-147301/2 Matrix: Water Analysis Batch: 147301 Analyte Total Dissolved Solids Lab Sample ID: LCSD 860-147301 Matrix: Water Analysis Batch: 147301 Analyte Total Dissolved Solids | MB Result <5.00 2 | MB Qualifier U | Spike Added 1000 Spike Added | RL 5.00 | LCS Result 1110 LCSD Result | MDL 5.00 LCS Qua | Unit mg/L s alifier | Cli Unit client S | C D ent \$ | D D D D D D | repared mple ID <u>%Rec</u> ID: Lab | Analyz Analyz 02/27/24 Lab Cor Prep Ty %Rec Limits 80 - 120 Control Prep Ty %Rec Limits 20 - 420 | ethod pe: To 22:22 ntrol S pe: To Sampl pe: To | Blank tal/NA Dil Fac 1 ample tal/NA e Dup tal/NA RPD Limit |
| Method: SM 2540C - Solids, T Lab Sample ID: MB 860-147301/1 Matrix: Water Analysis Batch: 147301 Analyte Total Dissolved Solids Lab Sample ID: LCS 860-147301/2 Matrix: Water Analysis Batch: 147301 Analyte Total Dissolved Solids Lab Sample ID: LCS 860-147301/2 Matrix: Water Analyte Total Dissolved Solids Lab Sample ID: LCSD 860-147301 Matrix: Water Analysis Batch: 147301 Matrix: Water Analysis Batch: 147301 Analysis Batch: 147301 Analysis Batch: 147301 Analysis Batch: 147301 | MB Result <5.00 2 | MB Qualifier U | Spike Added 1000 Spike Added 1000 | RL 5.00 | LCS Result 1110 LCSD Result 1111 | MDL 5.00 Qua | Unit mg/L alifier | Cli mg/L Client S Unit mg/L | C ent \$ | Pi Sar D | repared nple ID <u>%Rec</u> 111 ID: Lab | Analyz - Analyz 02/27/24 : Lab Cor Prep Ty %Rec Limits 80 - 120 %Rec Limits 80 - 120 | ethod pe: To 22:22 htrol S pe: To Sampl pe: To RPD 0 | Blank tal/NA Dil Fac 1 ample tal/NA e Dup tal/NA RPD Limit 10 |
| Method: SM 2540C - Solids, Lab Sample ID: MB 860-147301/1 Matrix: Water Analysis Batch: 147301 Analyte Total Dissolved Solids Lab Sample ID: LCS 860-147301/2 Matrix: Water Analysis Batch: 147301 Analyte Total Dissolved Solids Lab Sample ID: LCSD 860-147301 Matrix: Water Analysis Batch: 147301 Analyte Total Dissolved Solids Lab Sample ID: LLCS 860-147301 Matrix: Water Analysis Batch: 147301 | MB <u>Result</u> <5.00 2 1/3 | MB Qualifier U | Spike Added 1000 Spike Added 1000 | RL 5.00 | LCS Result 1110 LCSD Result 1111 | MDL 5.00 Qua | Unit mg/L difier | Cli mg/L Client S Unit mg/L Cli | C ent \$ | Pi Sar De De Sar | ent Sam repared mple ID <u>%Rec</u> 111 ID: Lab | Analyz OZ/27/24 Lab Cor Prep Ty %Rec Limits 80 - 120 Control Prep Ty %Rec Limits 80 - 120 Control Prep Ty %Rec Limits 80 - 120 Control Prep Ty %Rec Limits 80 - 120 Control Prep Ty %Rec Limits 80 - 120 Control Prep Ty | ethod pe: To 22:22 htrol S pe: To Sampl pe: To 0 htrol S pe: To | Blank tal/NA Dil Fac 1 ample tal/NA e Dup tal/NA RPD Limit 10 ample tal/NA |
| Method: SM 2540C - Solids, Lab Sample ID: MB 860-147301/1 Matrix: Water Analysis Batch: 147301 Analyte Total Dissolved Solids Lab Sample ID: LCS 860-147301/2 Matrix: Water Analysis Batch: 147301 Analyte Total Dissolved Solids Lab Sample ID: LCSD 860-147301 Matrix: Water Analysis Batch: 147301 Analyte Total Dissolved Solids Lab Sample ID: LLCS 860-147301 Matrix: Water Analysis Batch: 147301 | MB Result <5.00 2 1/3 | MB Qualifier U | Spike Added 1000 Spike Added 1000 Spike | RL 5.00 | LCS Result 1110 LCSD Result 1111 | MDL 5.00 Qua | Unit mg/L Mifier | Cli mg/L Client S Unit mg/L Cli | C ent \$ Gamp | D D Sar | ent Sam repared mple ID <u>%Rec</u> 111 ID: Lab <u>%Rec</u> 111 mple ID | Analyz - Analyz 02/27/24 : Lab Cor Prep Ty %Rec Limits 80 - 120 • Control Prep Ty %Rec Limits 80 - 120 • Control Prep Ty %Rec Limits 80 - 120 • Control Prep Ty %Rec Limits 80 - 120 • Control Prep Ty %Rec Limits 80 - 120 • Control Prep Ty %Rec Limits 80 - 120 • Control Prep Ty %Rec Limits 80 - 120 • Control Prep Ty %Rec Limits 80 - 120 • Control Prep Ty %Rec Limits 80 - 120 • Control Prep Ty %Rec Limits 80 - 120 • Control Prep Ty %Rec Limits 80 - 120 • Control Prep Ty %Rec Limits 80 - 120 • Control Prep Ty %Rec Limits 80 - 120 • Control Prep Ty %Rec Limits 80 - 120 • Control Prep Ty %Rec Limits 80 - 120 • Control Prep Ty %Rec Limits 80 - 120 | ethod pe: To 22:22 ntrol S pe: To Sampl pe: To 0 ntrol S pe: To | Blank tal/NA Dil Fac 1 ample tal/NA e Dup tal/NA RPD Limit 10 ample tal/NA |
| Method: SM 2540C - Solids, T Lab Sample ID: MB 860-147301/1 Matrix: Water Analysis Batch: 147301 Analyte Total Dissolved Solids Lab Sample ID: LCS 860-147301/2 Matrix: Water Analysis Batch: 147301 Analyte Total Dissolved Solids Lab Sample ID: LCS 860-147301/2 Matrix: Water Analyte Total Dissolved Solids Lab Sample ID: LCSD 860-147301 Matrix: Water Analysis Batch: 147301 Analysis Batch: 147301 Lab Sample ID: LLCS 860-147301 Matrix: Water Analysis Batch: 147301 Matrix: Water Analysis Batch: 147301 Matrix: Water Analysis Batch: 147301 Matrix: Water Analysis Batch: 147301 Matrix: Water Analysis Batch: 147301 | MB Result <5.00 2 1/3 | MB Qualifier U | Spike Added 1000 Spike Added 1000 Spike Added | RL 5.00 | LCS Result 1110 LCSD Result 1111 | MDL 5.00 LCS Qua | Unit mg/L alifier C alifier | Cli mg/L Client S Unit mg/L Cli Unit | C ent \$ Samp | D D D D D D D D D D D D D | ent Sam repared nple ID <u>%Rec</u> 111 ID: Lab <u>%Rec</u> %Rec | Analyz OZ/27/24 Analyz OZ/27/24 Lab Cor Prep Ty %Rec Limits 80 - 120 Control Prep Ty %Rec Limits 80 - 120 Limits 80 - 120 Control Prep Ty %Rec Limits 80 - 120 | ethod pe: To 22:22 ntrol S pe: To Sampl pe: To 0 ntrol S pe: To | Blank tal/NA Dil Fac 1 ample tal/NA e Dup tal/NA RPD Limit 10 ample tal/NA |
Job ID: 820-12174-1

5 6

Method: SM 2540D - Solids, Total Suspended (TSS)

| Lab Sample ID: MB 860-147706/1 Matrix: Water | | | | | | | Cli | ent Sarr | ple ID: M Prep Ty | ethod pe: Tot | Blank tal/NA |
|--|---------------|------------------|------------|--------|-----------|----------|----------|----------|----------------------|---------------------|-----------------|
| Analysis Batch: 147706 | | | | | | | | | | | |
| Analyto | MB | MB Qualifier | Б | | | | n 6 | Proparad | Analys | od | Dil Eac |
| Total Suspended Solids | <4.00 | U | <u>4.0</u> | 0 | 4.00 mg/L | | <u> </u> | repareu | | 19:57 | 1 Dil Fac |
| Lab Sample ID: LCS 860-147706/2 Matrix: Water | | | | | | Clie | ent Sa | mple ID | : Lab Cor Prep Ty | itrol Sa pe: Tot | ample tal/NA |
| Analysis Batch: 147706 | | | Spike | LCS | LCS | | | | %Rec | | |
| Analyte | | | Added | Result | Qualifier | Unit | D | %Rec | Limits | | |
| Total Suspended Solids | | | 10.0 | 11.30 | | mg/L | | 113 | 80 - 120 | | |
| Lab Sample ID: LCSD 860-147706/3 | 3 | | | | • | Client S | ample | D: Lat | Control | Sample | e Dup tal/NA |
| Analysis Batch: 147706 | | | | | | | | | | | |
| ·····,···· | | | Spike | LCSD | LCSD | | | | %Rec | | RPD |
| Analyte | | | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Total Suspended Solids | | | 10.0 | 11.30 | | mg/L | | 113 | 80 - 120 | 0 | 10 |
| Method: SM 4500 CI G - Chlori | ine, R | esidua | l | | | | | | | | |
| Matrix: Water Analysis Batch: 147656 | МВ | МВ | | | | | | | Prep Ty | pe: Tot | tal/NA |
| Analyte | Result | Qualifier | R | L | MDL Unit | | D F | Prepared | Analyz | ed | Dil Fac |
| Chlorine, Total Residual | <0.0500 | U | 0.050 | 0 0. | 0500 mg/L | - | | | 02/29/24 | 14:48 | 1 |
| Lab Sample ID: LCS 860-147656/4 Matrix: Water Analysis Batch: 147656 | | | | | | Clie | ent Sa | mple ID | : Lab Cor Prep Ty | itrol Sa pe: Tot | ample tal/NA |
| | | | Spike | LCS | LCS | | | | %Rec | | |
| Analyte | | | Added | Result | Qualifier | Unit | D | %Rec | Limits | | |
| Chlorine, Total Residual | | | 0.250 | 0.2699 | | mg/L | | 108 | 85 - 115 | | |
| Lab Sample ID: LCSD 860-147656/ Matrix: Water Analysis Batch: 147656 | 5 | | | | (| Client S | ample | ID: Lat | Control S Prep Ty | Samplo pe: Tot | e Dup tal/NA |
| | | | Spike | LCSD | LCSD | | | | %Rec | | RPD |
| Analyte | | | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Chlorine, Total Residual | | | 0.250 | 0.2572 | | mg/L | | 103 | 85 - 115 | 5 | 20 |
| Method: SM5210B CBOD - Ca | rbona | aceous | BOD, 5 D | ay | | | | | | | |
| Lab Sample ID: SCB 860-147369/2 Matrix: Water | | | | | | | Cli | ent San | ple ID: M Prep Ty | ethod pe: Tot | Blank tal/NA |
| Analysis Batch: 147369 | | | | | | | | | | • | |
| | | ~~~ | | | | | | | | | |
| Analyta | SCB | SCB | | | | | | | | | |
| | SCB Result | SCB Qualifier | R | L | MDL Unit | | D_F | Prepared | Analyz | ed | Dil Fac |

Job ID: 820-12174-1

Method: SM5210B CBOD - Carbonaceous BOD, 5 Day (Continued)

| Lab Sample ID: USB 860-147369/1 Matrix: Water Analysis Batch: 147369 | | | | | | | | Cli | ent Sam | ple ID: Method Prep Type: To | l Blank otal/NA |
|--|---------|-----------|-----------|--------|-------|-------|------|-------|----------|----------------------------------|--------------------|
| | USB | USB | | | | | | | | | |
| Analyte | Result | Qualifier | RL | I | MDL | Unit | I | DF | Prepared | Analyzed | Dil Fac |
| Carbonaceous Biochemical Oxygen | 0.09000 | | 0.0000020 | 0.0000 | 020 | mg/L | | | | 02/23/24 10:52 | 1 |
| Demand | | | 0 | | 0 | | | | | | |
| Lab Sample ID: LCS 860-147369/3 Matrix: Water Analysis Batch: 147369 | | | | | | | Clie | nt Sa | imple ID | : Lab Control S Prep Type: To | Sample otal/NA |
| - | | | Spike | LCS | LCS | | | | | %Rec | |
| Analyte | | | Added | Result | Quali | ifier | Unit | D | %Rec | Limits | |
| Carbonaceous Biochemical Oxygen Demand | | | 198 | 203.2 | | | mg/L | | 103 | 85 - 115 | |

Eurofins Lubbock

General Chemistry

Prep Batch: 146675

LCSD 860-147820/58

Lab Control Sample Dup

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------------|------------------------|-----------|--------|--------------|-------------|
| 820-12174-1 | C Lagoon | Total/NA | Water | BOD Prep | |
| Analysis Batch: 1473 | 01 | | | | |
| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
| 820-12174-1 | C Lagoon | Total/NA | Water | SM 2540C | •• |
| MB 860-147301/1 | Method Blank | Total/NA | Water | SM 2540C | |
| LCS 860-147301/2 | Lab Control Sample | Total/NA | Water | SM 2540C | |
| LCSD 860-147301/3 | Lab Control Sample Dup | Total/NA | Water | SM 2540C | |
| LLCS 860-147301/4 | Lab Control Sample | Total/NA | Water | SM 2540C | |
| Analysis Batch: 1473 | 69 | | | | |
| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
| 820-12174-1 | C Lagoon | Total/NA | Water | SM5210B CBOD | 146675 |
| SCB 860-147369/2 | Method Blank | Total/NA | Water | SM5210B CBOD | |
| USB 860-147369/1 | Method Blank | Total/NA | Water | SM5210B CBOD | |
| LCS 860-147369/3 | Lab Control Sample | Total/NA | Water | SM5210B CBOD | |
| Analysis Batch: 1476 | 56 | | | | |
| I ah Sample ID | Client Sample ID | Pren Tyne | Matrix | Method | Pron Batch |
| 820-12174-1 | | Total/NA | Water | SM 4500 CI G | Thep Bateri |
| MB 860-147656/3 | Method Blank | Total/NA | Water | SM 4500 CLG | |
| LCS 860-147656/4 | Lab Control Sample | Total/NA | Water | SM 4500 CI G | |
| LCSD 860-147656/5 | Lab Control Sample Dup | Total/NA | Water | SM 4500 CI G | |
| └ Analvsis Batch: 1477 | 06 | | | | |
| Lab Sample ID | Client Sample ID | Ргер Туре | Matrix | Method | Prep Batch |
| 820-12174-1 | C Lagoon | Total/NA | Water | SM 2540D | |
| MB 860-147706/1 | Method Blank | Total/NA | Water | SM 2540D | |
| LCS 860-147706/2 | Lab Control Sample | Total/NA | Water | SM 2540D | |
| LCSD 860-147706/3 | Lab Control Sample Dup | Total/NA | Water | SM 2540D | |
| Prep Batch: 147764 | | | | | |
| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
| 820-12174-1 | C Lagoon | Total/NA | Water | 351.2 | |
| MB 860-147764/32-A | Method Blank | Total/NA | Water | 351.2 | |
| MB 860-147764/4-A | Method Blank | Total/NA | Water | 351.2 | |
| LCS 860-147764/33-A | Lab Control Sample | Total/NA | Water | 351.2 | |
| LCSD 860-147764/34-A | Lab Control Sample Dup | Total/NA | Water | 351.2 | |
| LLCS 860-147764/5-A | Lab Control Sample | Total/NA | Water | 351.2 | |
| Analysis Batch: 1478 | 20 | | | | |
| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
| 820-12174-1 | C Lagoon | Total/NA | Water | 350.1 | |
| MB 860-147820/164 | Method Blank | Total/NA | Water | 350.1 | |
| MB 860-147820/56 | Method Blank | Total/NA | Water | 350.1 | |
| LCS 860-147820/165 | Lab Control Sample | Total/NA | Water | 350.1 | |
| LCS 860-147820/57 | Lab Control Sample | Total/NA | Water | 350.1 | |
| LCSD 860-147820/166 | Lab Control Sample Dup | Total/NA | Water | 350.1 | |

350.1

Water

Total/NA

3/18/2024

General Chemistry

Analysis Batch: 147885

LLCS 860-147764/5-A

Lab Control Sample

| Lab Sample ID | Client Sample ID | Ргер Туре | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|----------|------------|
| 820-12174-1 | C Lagoon | Total/NA | Water | 9040C | |
| Analysis Batch: 1478 | 94 | | | | |
| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
| 820-12174-1 | C Lagoon | Total/NA | Water | SM 2510B | |
| MB 860-147894/82 | Method Blank | Total/NA | Water | SM 2510B | |
| LCS 860-147894/39 | Lab Control Sample | Total/NA | Water | SM 2510B | |
| LCSD 860-147894/40 | Lab Control Sample Dup | Total/NA | Water | SM 2510B | |
| Analysis Batch: 1480 | 79 | | | | |
| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
| 820-12174-1 | C Lagoon | Total/NA | Water | 365.1 | |
| MB 860-148079/93 | Method Blank | Total/NA | Water | 365.1 | |
| LCS 860-148079/94 | Lab Control Sample | Total/NA | Water | 365.1 | |
| LCSD 860-148079/95 | Lab Control Sample Dup | Total/NA | Water | 365.1 | |
| Analysis Batch: 1500 | 55 | | | | |
| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
| 820-12174-1 | C Lagoon | Total/NA | Water | 351.2 | 147764 |
| MB 860-147764/32-A | Method Blank | Total/NA | Water | 351.2 | 147764 |
| MB 860-147764/4-A | Method Blank | Total/NA | Water | 351.2 | 147764 |
| LCS 860-147764/33-A | Lab Control Sample | Total/NA | Water | 351.2 | 147764 |
| LCSD 860-147764/34-A | Lab Control Sample Dup | Total/NA | Water | 351.2 | 147764 |

Total/NA

351.2

Water

Client Sample ID: C Lagoon Date Collected: 02/22/24 08:51 Date Received: 02/22/24 10:03

Lab Sample ID: 820-12174-1 Matrix: Water

| — | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|--------------|-----|--------|---------|---------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Analysis | 350.1 | | 10 | 10 mL | 10 mL | 147820 | 02/29/24 19:35 | ADL | EET HOU |
| Total/NA | Prep | 351.2 | | | 2 mL | 20 mL | 147764 | 03/01/24 09:29 | LD | EET HOU |
| Total/NA | Analysis | 351.2 | | 10 | | | 150055 | 03/06/24 19:23 | LD | EET HOU |
| Total/NA | Analysis | 365.1 | | 10 | 10 mL | 10 mL | 148079 | 03/01/24 19:51 | HN | EET HOU |
| Total/NA | Analysis | 9040C | | 1 | | | 147885 | 03/01/24 17:40 | SC | EET HOU |
| Total/NA | Analysis | SM 2510B | | 1 | | | 147894 | 03/01/24 17:40 | SC | EET HOU |
| Total/NA | Analysis | SM 2540C | | 1 | 50 mL | 200 mL | 147301 | 02/27/24 22:22 | FN | EET HOU |
| Total/NA | Analysis | SM 2540D | | 1 | 600 mL | 1000 mL | 147706 | 02/29/24 19:57 | FN | EET HOU |
| Total/NA | Analysis | SM 4500 CI G | | 5 | 10 mL | 10 mL | 147656 | 02/29/24 14:48 | SCI | EET HOU |
| Total/NA | Prep | BOD Prep | | | | | 146675 | 02/23/24 10:00 | HN | EET HOU |
| Total/NA | Analysis | SM5210B CBOD | | 1 | 50 mL | 300 mL | 147369 | 02/23/24 15:03 | HN | EET HOU |

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

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

Eurofins Lubbock

9

Laboratory: Eurofins Albuquerque

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|------------|---------|-----------------------|-----------------|
| Arizona | State | AZ0682 | 10-20-24 |
| New Mexico | State | NM9425, NM0901 | 02-26-25 |
| Oregon | NELAP | NM100001 | 02-26-25 |
| Texas | NELAP | T104704424-23-16 | 05-31-24 |

Laboratory: Eurofins Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program Identification Num | | Identification Number | Expiration Date |
|---|--|---------------------------------------|--|---------------------------------|
| exas | NELAF | C | T104704215 | 06-30-24 |
| | | | | |
| The following analyte | s are included in this repo | rt, but the laboratory is i | not certified by the governing author | ity. This list may include anal |
| The following analytes for which the agency | s are included in this repo does not offer certification | rt, but the laboratory is ı | not certified by the governing author | ity. This list may include anal |
| The following analytes for which the agency Analysis Method | s are included in this repo does not offer certification Prep Method | rt, but the laboratory is ı Matrix | not certified by the governing author Analyte | ity. This list may include anal |

Method Summary

Client: City of Tahoka Project/Site: C Lagoon

10

| Method | Method Description | Protocol | Laboratory |
|--------------|------------------------------------|----------|------------|
| 350.1 | Nitrogen, Ammonia | EPA | EET HOU |
| 351.2 | Nitrogen, Total Kjeldahl | EPA | EET HOU |
| 365.1 | Phosphorus, Total | EPA | EET HOU |
| 9040C | pH | SW846 | EET HOU |
| SM 2510B | Conductivity, Specific Conductance | SM | EET HOU |
| SM 2540C | Solids, Total Dissolved (TDS) | SM | EET HOU |
| SM 2540D | Solids, Total Suspended (TSS) | SM | EET HOU |
| SM 4500 CI G | Chlorine, Residual | SM | EET HOU |
| SM5210B CBOD | Carbonaceous BOD, 5 Day | SM | EET HOU |
| 300.0 | EPA 300.0 | EPA | EETALB |
| 351.2 | Nitrogen, Total Kjeldahl | EPA | EET HOU |
| BOD Prep | Preparation, BOD | SM | EET HOU |
| • | • | | |

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975 EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

| Client: City of Tahoka |
|------------------------|
| Project/Site: C Lagoon |

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 320-12174-1 | C Lagoon | Water | 02/22/24 08:51 | 02/22/24 10:03 |



Environment Testing

Eurofins Environment Testing South Central, LLC 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

March 01, 2024

Holly Taylor Eurofins Lubbock 6701 Aberdeen Ave Suite 8 Lubbuck, TX 79424 TEL: (806) 794-1296 FAX

RE: Permint Renewal 820 12174 1

OrderNo.: 2402B49

Dear Holly Taylor:

Eurofins Environment Testing South Central, LLC received 1 sample(s) on 2/23/2024 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

| Hall Environmental Analysis | | Analytical Report Lab Order 2402B49 Date Reported: 3/1/2024 | | | | |
|--|-----------------|---|-----------------|--------------------|---------------------|-------------------------------------|
| CLIENT: Eurofins Lubbock Project: Permint Renewal 820 12174 1 | | Client Coll | t San lectio | nple ID on Date | :C Lago :2/22/20 | oon (820-12174-1) 024 7:51:00 AM |
| Lab ID: 2402B49-001 | Matrix: AQUEOUS | Re | ceive | d Date | : 2/23/20 |)24 8:34:00 AM |
| Analyses | Result | RL Q | Jual | Units | DF | Date Analyzed |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: RBC |
| Chloride | 430 | 50 | * | mg/L | 100 | 2/23/2024 1:26:05 PM |
| Nitrogen, Nitrate (As N) | ND | 1.0 | | mg/L | 10 | 2/23/2024 12:21:25 PM |
| Sulfate | 150 | 5.0 | | mg/L | 10 | 2/23/2024 12:21:25 PM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

D н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

- В Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value J

Analyte detected below quantitation limits

Sample pH Not In Range Р RL

Reporting Limit

Page 1 of 2

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Eurofins Lubbock

Project: Permint Renewal 820 12174 1

| Sample ID: MB | SampT | ype: ME | SampType: MBLK | | | PA Method | 5 | | | |
|--|--|--|--|-----------------------------------|---|--|---|-----------|----------|------|
| Client ID: PBW | Batch | n ID: R1 | 03315 | F | RunNo: 1 | 03315 | | | | |
| Prep Date: | Analysis D | ate: 2/ | 23/2024 | 5 | SeqNo: 3 | 821262 | Units: mg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 0.50 | | | | | | | | |
| Nitrogen, Nitrate (As N) | ND | 0.10 | | | | | | | | |
| Sulfate | ND | 0.50 | | | | | | | | |
| | | | | | | | | | | |
| Sample ID: LCS | SampT | ype: LC | S | Tes | tCode: El | PA Method | 300.0: Anions | 3 | | |
| Sample ID: LCS Client ID: LCSW | SampT Batch | ype: LC | S 03315 | Tes | tCode: El | PA Method 03315 | 300.0: Anions | 6 | | |
| Sample ID: LCS Client ID: LCSW Prep Date: | SampT Batch Analysis D | ype: LC DID: R1 Pate: 2/ | S 03315 23/2024 | Tes F S | tCode: El RunNo: 10 SeqNo: 3 | PA Method 03315 821263 | 300.0: Anions Units: mg/L | 3 | | |
| Sample ID: LCS Client ID: LCSW Prep Date: Analyte | SampT Batch Analysis D Result | ype: LC ID: R1 Pate: 2/ PQL | : S 03315 23/2024 SPK value | Tes F S SPK Ref Val | tCode: Ef RunNo: 10 SeqNo: 3 %REC | PA Method 03315 821263 LowLimit | 300.0: Anions Units: mg/L HighLimit | s %RPD | RPDLimit | Qual |
| Sample ID: LCS Client ID: LCSW Prep Date: Analyte Chloride | SampT Batch Analysis D Result 4.9 | ype: LC n ID: R1 pate: 2/ PQL 0.50 | S 03315 23/2024 SPK value 5.000 | Tes F S SPK Ref Val 0 | tCode: El RunNo: 1 SeqNo: 3 %REC 98.7 | PA Method 03315 821263 LowLimit 90 | 300.0: Anions Units: mg/L HighLimit 110 | %RPD | RPDLimit | Qual |
| Sample ID: LCS Client ID: LCSW Prep Date: Analyte Chloride Nitrogen, Nitrate (As N) | SampT Batch Analysis D Result 4.9 2.6 | ype: LC n ID: R1 Pate: 2/ PQL 0.50 0.10 | S 03315 23/2024 SPK value 5.000 2.500 | Tes F SPK Ref Val 0 0 | tCode: Ef RunNo: 1 GeqNo: 3 %REC 98.7 104 | PA Method 03315 821263 LowLimit 90 90 | 300.0: Anions Units: mg/L HighLimit 110 110 | %RPD | RPDLimit | Qual |

Qualifiers:

* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

- в
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- J
- Analyte detected below quantitation limits Р
- Sample pH Not In Range RL Reporting Limit

Page 2 of 2

WO#:

2402B49

01-Mar-24

| | | | | | | | | | 1 |
|-------------------------------------|-----------------------------------|------------------------------|-----------------|----------------------|---|-----------------------------------|--------------|-------------------------------------|-----|
| 🔅 eurof | ins Env | ironment | Testin | Eurofins Envir | onment Testi Cen | ing South htral, LLC | | nis Log In Check List | |
| | 1 20111 | | TEI | Al L: 505-345-397 | 4901 Ha buquerque, N 75 FAX: 505- | WKINS NE NM 87109 -345-4107 | an | iple Log-In Check List | |
| Client Name: | Eurofins Lui | bock | J Work | Order Numbe | allenvironm | ental.com 9 | | ReptNo: 1 | 4 |
| olient Name. | | JOOCK | Work | | | | | | 5 |
| Received By: | Cheyenne | Cason | 2/23/20 | 24 8:34:00 Al | N | Chene | | | |
| Completed By: | Cheyenne | Cason | 2/23/20 | 24 9:17:20 AI | M | and | | | |
| Reviewed By: | L | 2 | 2/23/- | 24 | | | | | 7 |
| Chain of Cu | stody | | | | | | , | | 8 |
| 1. Is Chain of C | Custody compl | ete? | | | Yes 🗹 | No | | Not Present | 9 |
| 2. How was the | e sample delive | ered? | | | <u>FedEx</u> | | | | |
| Log In 3 Was an atter | mat made to c | ool the sampl | ec? | | Yes 🗸 | No | | | |
| J. Was an aller | mpt made to c | oor the samp | 65 ! | | | | | | |
| 4. Were all sam | ples received | at a temperat | ture of >0° C i | to 6.0°C | Yes 🗹 | No | | | 12 |
| 5. Sample(s) in | ı proper contai | ner(s)? | | | Yes 🗹 | No | | | 13 |
| 6. Sufficient sar | mple volume fo | or indicated te | est(s)? | | Yes 🗹 | No | | | 1 / |
| 7. Are samples | (except VOA a | and ONG) pro | perly preserve | ed? | Yes 🗹 | No | | _ | |
| 8. Was preserve | ative added to | bottles? | | | Yes 🗌 | No | \checkmark | NA | |
| 9. Received at I | least 1 vial with | n headspace | <1/4" for AQ V | /OA? | Yes 🗌 | No | | | |
| 10. Were any sa | mple containe | rs received b | roken? | | Yes 🗆 | No | ✓ | # of preserved | |
| 11. Does paperw | vork match bot | tle labels? | , | | Yes 🔽 | No | | for pH: (<2 or >12 unless noted) | |
| 12 Are matrices | correctly ident | tified on Chai | n of Custody? | | Yes 🗹 | No | | Adjusted? | |
| 13. Is it clear wh | at analyses we | ere requested | ? | | Yes 🗹 | No | | | |
| 14. Were all hold (If no, notify | ling times able customer for a | to be met? uthorization.) | | | Yes 🗹 | No | | Checked by: $M = 723/24$ | |
| Special Hanc | iling (if app | licable) | | | | | | | |
| 15. Was client r | notified of all di | screpancies v | with this order | ? | Yes 🗌 | No | | NA 🗹 | |
| Perso | n Notified: | | | Date: | | | - | | |
| By Wł | nom: | | | Via: | 🗌 eMail | Phone | Fax | In Person | |
| Regar | ding: | | | | | | | | |
| Client | Instructions: | | | | | | | | |
| | omarka. | | | | | | | | |
| 17. <u>Cooler Info</u> Cooler N | lo Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed | Ву | | |
| 1 | 0.6 | Good | Yes | Morty | | | | | |
| | | | | | | | | | |

| Eurofins Lubbock 6701 Aberdeen Ave. Suite 8 Lubbock, TX 79424 Phones Prez 7044706 | Ch | ain of (| Custo | dy Re | cord | | | | 🐼 eurofins | Environment Testing |
|---|---|---|---|--|--|--|---|---|---|---|
| | Sampler | | | Lab PM: | | | Carrier Tracking | No(s): | COC Ne: | |
| Client Information (Sub Contract Lab) | | | | Taylor, | Holly | | State of Origin: | | 820-8904.1 Bane | |
| Client contact: Shipping/Receiving | Phone: | | | Holly.Ta | iylor@et.eurofinsus.c | mo | Texas | | Page 1 of 1 | - |
| Company: Eurofins Environment Testing South Centr | | | | AC | reditations Required (See LAP - Texas | note): | | | Job #: 820-12174-1 | |
| Address: Address: | Due Date Requested: | | | | 1 | Analysis Re | guested | | Preservation Coc | 08: M - Haxane |
| | TAT Requested (days): | | | | | | | | B - HCL B - NaOH C - Zh Acetate | N - None O - AsNaO2 |
| raduperque State, Zp: Nut, 877109 | | | | | ,əbirol | | | | D - Nitric Acid E - NaHSO4 | P - Na204S Q - Na2SO3 R - Na2S2O3 |
| Phone: 505-345-3975(Tel) | PO#: | | | (| ate, Ch | | | | F - MeOH G - Amchlor H - Ascorbic Acid | S - H2SO4 T - TSP Dodecahydrate |
| Emai: | WO#: | | | OF NC | (0)/ 11N /(9 | | | | 1 - Ice J - DI Water | V - MCAA V - MCAA VV - BH 4-5 |
| Project Name. Permit Renewal | Project #: 82000937 | | | səY) ө | i no se telluë | | | | K - EDA | Y - Trizma Z other (specify) |
| olle: | #MOSS | | | Iqmsč | ,ebiioli | | | | Other: | |
| | ő | mple (C= 1 | mple M Vpe (w | atrix witer and/oil, eld Filtered | erform MS/M UB (Nitrate, Cf utfate | | | | 2402 2402 | 649 |
| Sample Identification - Client ID (Lab ID) | sample Late | | grap BTT | Code: X | s s d | | | | apecial II | sunctions/wore. |
| C Lagoon (820-12174-1) | 2/22/24 | 8:51 | | /ater | × | | | | 8 | |
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| | | | | | | | | | | |
| Note: Since laboratory accreditations are subject to change. Eurofins Environment laboratory does not currently maintain accreditation in the State of Ongin tisted abo accreditation status should be brought to Eurofins Environment Testing South Cent | nt Testing South Central, LL bove for analysis/tests/matri entral, LLC attention immedi | C places the o ix being analyz lately. If all req | wnership of me ed, the sample juested accredi | tthod, analyte s must be sh tations are cu | & accreditation compliand pped back to the Eurofins irrent to date, return the sig | te upon our subco Environment Test gned Chain of Cus | ntract laboratories. ing South Central, i stody attesting to sa | This sample shipm. LC laboratory or oth id compliance to Eu | ent is forwarded under c ner instructions will be p rofins Environment Test | nain-of-custody. If the ovided. Any changes to ng South Central, LLC. |
| Possible Hazard Identification | | | | | Sample Disposal (| A fee may be | assessed if se | imples are reta | ined longer than 1 | month) |
| Unconfirmed | | | | | Return To Cli | ent | Disposal By Le | 0 [A | chive For | Months |
| Deliverable Requested: I, II, III, IV, Other (specify) | Primary Deliverable | Rank: 2 | | | Special Instructions | /QC Kequirem | ents: | | | |
| Empty Kit Relinquished by: | Dat | ë | | Ξ. | me: | | Method of | Shipment | | |
| Relinquished by: | C/CC/Juliana | L1 H | 00 Com | pany | Received by: | Fee | her | DatedTime: 2/23/24 | 1 0634 | Company |
| Relinquished by: | Date/Time: | | Com | pany | Received by: | | | Date/Time: | | Company |
| Relinquished by: | Date/Time: | * | Com | pany | Received by: | | | Date/Time: | | Oompany |
| Custody Seals Intact: Custody Seal No.: | | | | | Cooler Temperature | (a) °C and Other I | Remarks: | | | |
| 0 160 D 100 | | | | | | | | | | Ver. 06/08/2021 |

12174 Fins

Environment Testing

Chain of Custody

Houston, TX (281) 240-4200, Daltas, TX (214) 902-0300 Mildland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Cartebad, NM (575) 988-3199 Little Rock, AR (501) 224-5060



| Ore O. Life of T. Marina Comments Instruction Demonstrate Instruction Resonance Comments Instruction Resonance Comments Instruction Resonance Resonance P. Marina And Y. Strand Comments </th <th>Nome: O. L. M. 1. J. March S. M. 173 S. Morress. Communities of Program. Ustrass. Program. Program.</th> <th></th> <th>Daymo</th> <th>bud</th> <th>Vega</th> <th></th> <th>Bill to: (if differ</th> <th>ent)</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>Wor</th> <th>k Order C</th> <th>omments</th> <th></th> <th></th> | Nome: O. L. M. 1. J. March S. M. 173 S. Morress. Communities of Program. Ustrass. Program. | | Daymo | bud | Vega | | Bill to: (if differ | ent) | | | | | | | | Wor | k Order C | omments | | |
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| er: | er: control CEEPT Targe Blank: The factor of the main from the main from the factor of the main from the factor of the main from the factor of the main from the main from the factor of the main from the main fro | | | | | Turn | Around | _ | | | | ANAL | YSIS RI | EQUEST | | | | Presei | vative Codes | (6) |
| Oricit Description Description Description Month in | Out Out <td>er:</td> <td></td> <td></td> <td></td> <td>Routine</td> <td>C Rush</td> <td>Pres. Code</td> <td></td> <td></td> <td>A</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>None: NO</td> <td>DI Water:</td> <td>H₂O</td> | er: | | | | Routine | C Rush | Pres. Code | | | A | | | | | | | None: NO | DI Water: | H ₂ O |
| Image: Instrument of the second sec | min Transmission <thtransmission< th=""> Transmission</thtransmission<> | on: | | | | Due Date: | | | | | ŝą | | 1. | | 9 | | | Cool: Cool | MeOH: M | ø |
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Section 7. Pollutant Analysis of Treated Effluent (Instructions Page 58)

Is the facility in operation? Yes □ No □

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

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

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

| Dollutant | Average | Max | No. of | Sample | Sample |
|-------------------------------------|---------|-------|---------|--------|-----------|
| Polutant . | Conc. | Conc. | Samples | Туре | Date/Time |
| CBOD ₅ , mg/l | | | | | |
| Total Suspended Solids, mg/l | | | | | |
| Ammonia Nitrogen, mg/l | | | | | |
| Nitrate Nitrogen, mg/l | | | | | |
| Total Kjeldahl Nitrogen, mg/l | | | | | |
| Sulfate, mg/l | | | | | |
| Chloride, mg/l | | | | | |
| Total Phosphorus, mg/l | | | | | |
| pH, standard units | | | | | |
| Dissolved Oxygen*, mg/ l | | | | | |
| Chlorine Residual, mg/l | | | | | |
| E.coli (CFU/100ml) freshwater | | | | | |
| Entercocci (CFU/100ml) | | | | | |
| saltwater | | | | | |
| Total Dissolved Solids, mg/l | | | | | |
| Electrical Conductivity, | | | | | |
| µmohs/cm, † | | | ŀ | | |

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

TCEQ-10054 (06/01/2017) Domestic Wastewater Permit Application, Technical Reports Page 11 of 79

| Eurofins Lubbock 8701 Aberdeen Ava. Suite 8 Lubbock, TX 79424 Phone: 808-794.1286 | 0 | hain o | of Cust | ody R | ecol | <u>a</u> | | | | | 10-20 | 8 | hark | | | | | <u> </u> | eurofin | | Environa | nent Tr | estin |
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| Phone: 281-240-4200(Tel) | PO # | | | | <u>. Vi</u> | | | ogen (| | | | | | <u></u> | | <u></u> | 10010 | | F MeOH G America Antonio Anton | -i (n - | HZSO4 | , lecialhyd | late |
| Email: | WO # | | | | or No (o) | р СВС | | hi Nîtr | | | | | | | | | | | l Ice Di Water | ن سرچ | Acetone | | |
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| C*Lagoon (820-12174-1) | 2122124 | 08:51 | | Water | ₿ | × j | × | × | × | × | × | × [2] | × | | | | 5 D | A CONTRACTOR OF A CONTRACT OF | |
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| Note: Since leporatory accreditations are subject to change. Eurofine Environ laboratory does not currently maintain accreditation in the State of Orion liste | ment Testing South Centre d above for analysishests | al, LLC places Imathix being a | the ownership | of method, and | lyte & acc | reditation vack to th | | liance: | vipon a | | contra | at labo | Centra | | sanp | le shij | official | is forwarded under | thein-of-custody. If the |
| accreditation status should be brought to Eurofins Environment Testing Sout | Central, LLC attention iπ | nmediately. If | all requested ac | creditations an | e cument à | o date; n | turn th | e:sign | ed Che | lin of | ustod | attes | und de la companya de la companya de la companya de la companya de la companya de la companya de la companya de La companya de la companya de la companya de la companya de la companya de la companya de la companya de la comp | said co | mpliar | Б. Б | Eurof | ins Environment Te | sting South:Central, LLC |
| Possible Hazard Identification | | | | : - - | 2 | Rep. | spos | Ciler Ciler | Tee. | nay. | | sess | ed if | Samp | Yes a | | Arch | ed longer than hive.For | 1 month) Months |
| Deliverable Requested, I, II, III IV Other (specify) | Primary Deliver | able Rank: | 2 | | Spe | cial Ins | truction | 0/sric | .C.Re | quire | ment | 10 | | | | | 1 | | |
| Empty Kit Relinquished by | | Date: | | | Time: | | | | | | | ~ | lethod | of Ship | arient. | | | | |
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| Custody Seals Intact. Custody Seal No. ∆ Yes ∆ No | | - | | | | Sooter T | ember: | ilure(s | °C an | d Offe | ir Rem | erks; | | | | | | | |
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Client: City of Tahoka

Login Number: 12174 List Number: 1 Creator: Triplett, Colby

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

Job Number: 820-12174-1

List Source: Eurofins Lubbock

Client: City of Tahoka

Login Number: 12174 List Number: 2 Creator: Baker, Jeremiah

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

Job Number: 820-12174-1

List Source: Eurofins Houston

List Creation: 02/23/24 10:57 AM