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

Plain Language Summary Template and Instructions for Beneficial Land Use of Biosolids Permit Applications

This template is intended as a guide to assist applicant's in developing a plain language summary as required by 30 Texas Administrative Code Chapter 39. Applicant's may modify the template as necessary to accurately describe their facility as long as the summary includes the following information: (1) the function of the proposed land application unit; (2) the expected proposed land application acreage; (3) the expected pollutants that may be land applied; and (4) how the applicant will control those pollutants, so that the proposed land application site will not have an adverse impact on human health or the environment.

Fill in the blanks below to describe your land application unit and application. Instructions or examples are provided below. Make any other edits necessary to improve readability or grammar and to comply with the rule requirements.

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

ENGLISH TEMPLATE FOR BIOSOLIDS BENEFICIAL LAND USE NEW/RENEWAL/AMENDMENT APPLICATIONS

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.

Denali Water Solutions LLC (CN604718486) operates Reavis South Farm RN105616734. an authorizes the land application of wastewater treatment plant Class B biosolids and water treatment plant residuals for beneficial use on approximately 655.14 acres. The facility is located approximately 4.3 miles southwest of the intersection of Farm-to-Market Road 2221 and Mile Seven Road, in La Joya, Hidalgo County, Texas 78576.

Renewal which authorizes the land application of wastewater treatment plant Class B biosolids and water treatment plant residuals for beneficial use on approximately 655.14 acres This permit will not authorize a discharge of pollutants into water in the state.

Land application of Biosolids is expected to contain Arsenic, Cadmium, Chromium, Copper, Lead, Mercury, Molybdenum, Nickel, Selenium and Zinc (mg/kg). Examples of best management practices implemented by Denali Water Solutions LLC include but

PLANTILLA EN ESPAÑOL PARA SOLICITUDES NUEVAS/RENOVACIÓN/ENMIENDAS DE BIOSÓLIDOS USO BENEFICIOSO DE LA TIERRA

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.

Denali Water Solutions LLC (CN604718486) opera Reavis South Farm RN105616734. Autoriza la aplicación al suelo de biosólidos Clase B de la planta de tratamiento de aguas residuales y residuos de la planta de tratamiento de agua para uso beneficioso en aproximadamente 655.14 acres. La instalación está ubicada aproximadamente a 4.3 millas al suroeste de la intersección de Farm-to-Market Road 2221 y Mile Seven Road, en La Joya, Condado de Hidalgo, Texas 78576.

Renovación que autoriza la aplicación al suelo de biosólidos Clase B de la planta de tratamiento de aguas residuales y residuos de la planta de tratamiento de agua para uso beneficioso en aproximadamente 655.14 acres. Este permiso no autorizará una descarga de contaminantes al agua en el estado.

Se espera que la aplicación terrestre de biosólidos contenga arsénico, cadmio, cromo, cobre, plomo, mercurio, molibdeno, níquel, selenio y zinc (mg/kg). Los ejemplos de mejores prácticas de gestión implementadas por Denali Water Solutions LLC incluyen, entre otros: monitoreo de contaminantes metálicos, reducción de patógenos, reducción de la atracción de vectores, zonas de amortiguamiento de unidades de aplicación al suelo aplicables, monitoreo del suelo y limitación de la aplicación en la dosis agronómica adecuada en función de las necesidades del cultivo.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

NOTICE OF RECEIPT OF APPLICATION AND INTENT TO OBTAIN A BENEFICIAL LAND USE PERMIT RENEWAL

PERMIT NO. WQ0004861000

APPLICATION. Denali Water Solutions LLC, P.O. Box 550, Russellville, Arkansas 72811, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew beneficial land use Permit No. WQ0004861000 to authorize the land application of wastewater treatment plant Class B biosolids and water treatment plant residuals for beneficial use on approximately 655.14 acres. The beneficial land use site is located approximately 4.3 miles southwest of the intersection of Farm-to-Market Road 2221 and Mile Seven Road, near the city of La Joya, in Hidalgo County, Texas 78560. TCEQ received this application on June 10, 2024. The permit application will be available for viewing and copying at Speer Memorial Library, 801 East 12th Street, Mission, in Hidalgo County, Texas prior to the date this notice is published in the newspaper. The application, including any updates, and associated notices are available electronically at the following webpage: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/sludge-applications. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-98.509166,26.279166&level=18

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

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

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

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

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

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

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

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

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

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

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

Further information may also be obtained from Denali Water Solutions LLC at the address stated above or by calling Ms. Jayla Dagen, Environmental Manager, at 501-859-7737

Issuance Date: August 28, 2025

COMISIÓN DE CALIDAD AMBIENTAL DE TEXAS

AVISO DE RECIBO DE SOLICITUD Y
INTENCIÓN DE OBTENER UNA RENOVACIÓN BENEFICIOSA
DEL PERMISO DE USO DE SUELO

NÚMERO DE PERMISO N.º WQ0004861000

SOLICITUD. Denali Water Solutions LLC, P.O. Box 550, Russellville, Arkansas 72811, tiene aplicado a la Comisión de Calidad Ambiental de Texas (TCEQ) para renovar el uso beneficioso de la tierra Permiso No. WQ0004861000 para autorizar la aplicación terrestre de planta de tratamiento de aguas residuales biosólidos clase B y residuos de plantas de tratamiento de agua para uso beneficioso en aproximadamente 655.14 acres. El sitio de uso beneficioso del suelo está ubicado aproximadamente a 4.3 millas al suroeste de la intersección de Farm-to-Market Road 2221 y Mile Seven Road, cerca de la ciudad de La Joya, en Condado de Hidalgo, Texas 78560. TCEQ recibió esta solicitud el 10 de junio de 2024. La solicitud estará disponible para ver y copiar en Speer Memorial Library, 801 East 12th. Street, Mission, en el Condado de Hidalgo, Texas, antes de la fecha de publicación de este aviso en el periódico. La aplicación, incluidas las actualizaciones y los avisos asociados, están disponibles, electrónicamente en la siguiente página web: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/sludge-applications. Este El enlace a un mapa electrónico de la ubicación general del sitio o instalación se proporciona como cortesía pública. y no forma parte de la solicitud o aviso. Para conocer la ubicación exacta, consulte la aplicación. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-98.509166,26.279166&level=18

AVISO DE IDIOMA ALTERNATIVO. Aviso de idioma alternativo en https://www.tceq.texas.gov/permitting/wastewater/pending-permits/sludge-applications. El aviso de idioma alternativo en inglés está disponible en https://www.tceq.texas.gov/permitting/wastewater/pending-permits/sludge-applications.

AVISO ADICIONAL. El Director Ejecutivo de la TCEQ ha determinado que la solicitud está administrativamente completa y llevará a cabo una revisión técnica de la solicitud. Una vez completada la revisión técnica de la solicitud, el Director Ejecutivo puede preparar un bosquejo del permiso y emitirá una decisión preliminar sobre la solicitud. **El aviso de la solicitud y la decisión preliminar se publicarán y enviarán por correo a aquellos que están en la lista de correo de todo el condado y a aquellos que están en la lista de correo para esta solicitud. Ese aviso contendrá la fecha límite para enviar comentarios públicos.**

COMENTARIO PÚBLICO / REUNIÓN PÚBLICA. Puede enviar comentarios públicos o solicitar una reunión pública sobre esta solicitud. El propósito de una reunión pública es para brindar la oportunidad de enviar comentarios o hacer preguntas sobre la solicitud. La

TCEQ convocará una reunión pública si el Director Ejecutivo determina que existe un grado significativo de interés público en la solicitud o si lo solicita un legislador local. Una reunión pública no es una audiencia de caso impugnado.

OPORTUNIDAD PARA UNA AUDIENCIA DE CASO IMPUGNADO. Después de la fecha límite para presentar comentarios públicos, el Director Ejecutivo considerará todos los comentarios oportunos y preparará una respuesta a todos los comentarios públicos relevantes y materiales, o significativos. **A menos que la solicitud se remita directamente para una audiencia de caso impugnado, la respuesta a los comentarios y la decisión del Director Ejecutivo sobre la solicitud se enviarán por correo a todos los que hayan presentado comentarios públicos y a las personas que estén en la lista de correo para esta solicitud. Si se reciben comentarios, el correo también proporcionará instrucciones para solicitar la reconsideración de la decisión del Director Ejecutivo y para solicitar una audiencia de caso impugnado. Una persona que pueda verse afectada por la solicitud puede solicitar una audiencia.** Una audiencia de caso impugnado es un procedimiento legal similar a un juicio civil en un tribunal de distrito estatal.

PARA SOLICITAR UNA AUDIENCIA DE CASO IMPUGNADO, DEBE INCLUIR LOS SIGUIENTES ELEMENTOS EN SU SOLICITUD: su nombre, dirección, número de teléfono; nombre del solicitante y número de permiso propuesto; la ubicación y distancia de su propiedad/actividades en relación con la instalación propuesta; una descripción específica de cómo se vería afectado negativamente por la instalación de una manera que no es común para el público en general; una lista de todas las cuestiones de hecho controvertidas que presente durante el periodo de comentarios y la declaración "[Yo/nosotros] solicito/amos una audiencia de caso impugnado". Si la solicitud de audiencia de caso impugnado se presenta en nombre de un grupo o asociación, la solicitud debe designar al representante del grupo para recibir correspondencia futura; identificar por nombre y dirección física a un miembro individual del grupo que se vería afectado negativamente por la instalación o actividad propuesta; proporcionar la información discutida anteriormente con respecto a la ubicación y distancia del miembro afectado de la instalación o actividad; explicar cómo y por qué el miembro se vería afectado; y explicar cómo los intereses que el grupo busca proteger están relacionados con el propósito del grupo.

Tras el cierre de todos los periodos de comentarios y solicitudes aplicables, el Director Ejecutivo remitirá la solicitud y cualquier solicitud de reconsideración o de una audiencia de caso impugnado a los Comisionados de la TCEQ para su consideración en una reunión programada de la Comisión.

La Comisión sólo podrá conceder una solicitud de audiencia de un asunto impugnado sobre cuestiones que el solicitante haya presentado en sus observaciones oportunas que no hayan sido retiradas posteriormente. **Si se concede una audiencia, el tema de una audiencia se limitará a cuestiones de hecho en disputa o cuestiones mixtas de hecho y de derecho relacionadas con preocupaciones relevantes y materiales sobre la calidad del agua presentadas durante el periodo de comentarios. La TCEQ puede actuar sobre una solicitud para renovar un permiso sin brindar la oportunidad de una audiencia de caso impugnado si se cumplen ciertos criterios.**

LISTA DE CORREO. Si envían comentarios públicos, una solicitud de una audiencia de caso impugnado o una reconsideración de la decisión del Director Ejecutivo, se le agregará a la lista de correo de esta solicitud específica para recibir futuros avisos públicos enviados por correo por la Oficina del Secretario Oficial. Además, puede solicitar ser colocado en: (1) la lista de correo permanente para un nombre de solicitante específico y número de permiso; y/o (2) la lista de correo para un condado específico. Si desea ser colocado en la lista de correo permanente y/o del condado, especifique claramente qué lista(s) y envíe su solicitud a la Oficina del Secretario Oficial de la TCEQ a la dirección a continuación.

INFORMACIÓN DISPONIBLE EN LÍNEA. Para obtener detalles sobre el estado de la solicitud, visite la Base de Datos Integrada de los Comisionados en www.tceq.texas.gov/goto/cid. Busque en la base de datos utilizando el número de permiso para esta aplicación**,** que se proporciona en la parte superior de este aviso.

CONTACTOS E INFORMACIÓN DE LA AGENCIA. Todos los comentarios y solicitudes públicas deben enviarse electrónicamente a http://www14.tceq.texas.gov/epic/eComment/, o por escrito a Texas Commission on Environmental Quality, Office of the Chief Clerk, MC-105, P.O. Box 13087, Austin, Texas 78711-3087. Tenga en cuenta que cualquier información de contacto que proporcione, incluido su nombre, número de teléfono, dirección de correo electrónico y dirección física, se convertirá en parte del registro público de la agencia. Para obtener más información sobre esta solicitud de permiso o el proceso de permisos, llame al Programa de Educación Pública de la TCEQ, sin cargo, al 1-800-687-4040 o visite su sitio web en www.tceq.texas.gov/goto/pep. Si desea información en español, puede llamar al 1-800-687-4040.

También se puede obtener más información de Denali Water Solutions LLC en la dirección indicada anteriormente o llamando a Jayla Dagen al 501-859-7737.

Fecha de emisión: 28 de agosto de 2025

Leah Whallon

From: John Martinez
Sent: Tuesday, August 26, 2025 3:30 PM
To: Leah Whallon
Subject: RE: [EXT]RE: Original documents for Sludge Class B Permit WQ0004861000

Hi Leah,

Yes, this will work. The financial assurance is acceptable for WQ0004861000.

Thanks,
John Martinez

John M. Martinez
Financial Analyst II
TCEQ
Financial Assurance Unit, MC-184
12100 Park 35 Circle, Bldg. A
Austin, TX 78753
Phone number 512-239-1738
John.martinez@tceq.texas.gov

From: Leah Whallon <Leah.Whallon@Tceq.Texas.Gov>
Sent: Tuesday, August 26, 2025 3:24 PM
To: John Martinez <John.Martinez@tceq.texas.gov>
Subject: FW: [EXT]RE: Original documents for Sludge Class B Permit WQ0004861000

Hi John,

I received the attached document explaining the additional assured is covered. Is this acceptable?

Thank you,

Leah Whallon
Water Quality Division
Application Review & Processing Team
512-239-0084
leah.whallon@tceq.texas.gov

From: Lynn Erpelding <Lynn_Erpelding@ajg.com>
Sent: Tuesday, August 26, 2025 2:27 PM

To: Leah Whallon <Leah.Whallon@Tceq.Texas.Gov>
Subject: RE: [EXT]RE: Original documents for Sludge Class B Permit WQ0004861000

Leah,
I have attached the excess additional insured wording from the policy.

Thank you,

Lynn Erpelding, CIC, CISR
Client Service Manager II

Gallagher

Insurance | Risk Management | Consulting

Gallagher 1490 Market Street, Suite 3 Lake Charles LA 70601
D: 337-475-7442
lynn_erpelding@ajg.com | linkedin.com/in/lynn erpelding | AJG.com

Arthur J. Gallagher Risk Management Services LLC
CA License No. 0D69293

From: Leah Whallon <Leah.Whallon@Tceq.Texas.Gov>
Sent: Wednesday, August 20, 2025 9:18 AM
To: Lynn Erpelding <Lynn_Erpelding@ajg.com>
Subject: RE: [EXT]RE: Original documents for Sludge Class B Permit WQ0004861000

Good Morning Lynn,

I am following up on the Denali Water Solutions LLC Class B permit WQ0004861000. Mr. Engelke is no longer with TCEQ and further information has been provided on what is needed for the insurance documents to be accepted for this permit. The attached documents are all acceptable.

The only item needed at this time is for this item:

Excess Policy
Per Occurrence Limit: ___$5,000,000_____

Policy Limit: _____$5,000,000_____

Policy Number: ___EXC4279462_____

Effective Date: ___6/30/2024_____

We would need the Additional Insured Endorsement for the insurance policy because the permit is under the name Denali Water Solutions, LLC and the insurance policy is for Dispatch Parent, LLC. We have the additional Insured Endorsement for the other policy but not for the Excess Policy listed above.

Also, I have been able to confirm the wet-ink original signatures are not needed at this time and the electronic copies can be accepted.

Please let me know if you have any questions.

Thank you,

Leah Whallon
Texas Commission on Environmental Quality
Water Quality Division
512-239-0084
leah.whallon@tceq.texas.gov

How is our customer service? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

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From: Lynn Erpelding <Lynn_Erpelding@ajg.com>
Sent: Wednesday, March 19, 2025 9:09 AM
To: Leah Whallon <Leah.Whallon@Tceq.Texas.Gov>
Cc: Jacob Engelke <Jacob.Engelke@tceq.texas.gov>
Subject: FW: [EXT]RE: Original documents for Sludge Class B Permit WQ0004861000

Good morning,
I've attached the Colony Insurance endorsement that notes Denali Water Solutions LLC as a Named Insured on the General Liability policy.

I do have a question regarding the wet signatures, why is a wet signature required? It is going to be hard to get this completed. I have to send the request to our partners; they send to Colony to get signed and notarized.
I know things change but, in the past, the emailed signature was sufficient.
Let me know.

CERTIFICATE OF INSURANCE FOR COMMERCIAL LIABILITY

Name and Address of Insurer (herein called the "Insurer"):
COLONY INSURANCE COMPANY
Colony Insurance Company
24 EAST WASHINGTON STREET
SUITE 950
CHICAGO, IL 60602

Name and Physical and Mailing Addresses of Insured (herein called the "Insured"):

Dispatch Parent LLC

220 South Commerce Avenue, 1st Floor
Russellville AR 72801

Additional Insured: Texas Commission on Environmental Quality
Physical Address: 12100 Park 35 Circle, MC 184, Austin, TX 78753
Mailing Address: MC 184, P. O. Box 13087, Austin, TX 78711-3087

Facilities covered: (*list for each facility: permit number, name, and physical and mailing addresses:*

LANDOWNER	***COUNTY***	***LOCATION***	***MAILING ADDRESS***	***LONGITUDE***	***LATITUDE***	***TCEQ Permit Numbers***
Reavis Farm	*Hidalgo*	*1.25 miles W of intersection of FM 2221 and Seven Mile Road*	*PO Box 550 Russellville AR 72811*	*-98.492998*	*26.340893°*	*WQ0004463000*
Reavis South Farm	*Hidalgo*	*1.25 mi West of intersection of FM 2221 and Seven Mile Road*	*PO Box 550 Russellville AR 72811*	*-0.98503236*	*26.284132°*	*WQ0004861000*
Davis Ranch	*Cameron*	*South Side of the intersection of Hwy 100 and FM 3069, 2.5 miles E of Los Fresnos, TX*	*PO Box 550 Russellville AR 72811*	*-97.438639*	*26.057462°*	*WQ0005379000*

Reavis-McCook South Farm	*Hidalgo*	*NE corner of intersection of CR 3239 and mile 16 road, approx. 1.78 miles S of the intersection of FM 490 and CR 3239, approx 2.75 miles W of McCook TX*	*PO Box 550 Russellville AR 72811*	*-98.428516*	*26.463211°*	*WQ0004924000*
Garza Trust Farm	*Hidalgo*	*NE corner of intersection of CR 2380 and mile 7 Road in Hidalgo County*	*PO Box 550 Russellville AR 72811*	*-98.497603*	*26.342944°*	*WQ0005286000*
Henderson Liberty Farms	*Liberty*	*Adjacent intersection of Devers Woods Road and FM 61*	*PO Box 550 Russellville AR 72811*	*-94.50334*	*29.99982°*	*WQ0004460000*
Garza Farm	*Hidalgo*	*I .7 miles N of intersection of Mile 7 Road and FM 2221*	*PO Box 550 Russellville AR 72811*	*-98.475078*	*26.339728°*	*WQ0005441000*
Carrales Ranch	*Hidalgo*	*.25 miles SE of intersection of Mile 7 Road and FM 2221*	*PO Box 550 Russellville AR 72811*	*-98.472345*	*26.326807°*	*WQ0005442000*

Reavis Old Pit	*Hidalgo*	*4.2 MI SW of INTXN FM 2221 & 7 MI Rd*	*PO Box 550 Russellville AR 72811*	*-98.50624*	*26.294813°*	*WQ0005442000*
Bolding Farm	*Greg*	*2 MI S of INTXN FM 2276 & Old Kilgore Hwy*	*PO Box 550 Russellville AR 72811*	*-94.810836*	*32.391895°*	*WQ0005442000*

Primary Policy
Per Occurrence Limit: ___$1,000,000_____

Policy Limit: _____$2,000,000_____

Policy Number: ___PACE4279461_____

Effective Date: ___6/30/2024_____

Excess Policy
Per Occurrence Limit: ___$5,000,000_____

Policy Limit: _____$5,000,000_____

Policy Number: ___EXC4279462_____

Effective Date: ___6/30/2024_____

The Insurer hereby certifies that it has issued to the Insured a commercial liability policy of insurance identified above to provide coverage for bodily injury and property damage to compensate persons injured or property damaged as a result of Class B sewage sludge land application at the facilities identified above.

The Insurer further warrants that such policy conforms in all respects with the requirements of 30 Texas Administrative Code (TAC) §37.9100 (relating to Commercial Liability Insurance), as applicable and as such regulations were constituted on the date shown immediately below. It is agreed that any provision of the policy inconsistent with such regulations is hereby amended to eliminate such inconsistency.

Whenever requested by the executive director of the Texas Commission on Environmental Quality, the Insurer agrees to furnish to the executive director a duplicate original of the policy listed above, including all endorsements thereon.

I hereby certify that the wording of this certificate is identical to the wording specified in 30 TAC §37.9145 (relating to Certificate of Insurance for Commercial Liability) as such regulations

were constituted on the date shown immediately below. The undersigned Insurer certifies that it is authorized to transact or be a surplus lines insurer eligible to engage in the business of insurance in Texas and it has a minimum financial strength rating of A- as assigned by the A.M. Best Company.

Authorized signature of Insurer: _____

Name of person signing: David Corry

Title of person signing: President, Colony Insurance Company

Signature of witness or notary: _____

Date: November 20, 2024

MICHELE HENSLEE
Notary Public, State of Texas
Comm. Expires 06-27-2028
Notary ID 3922152

CERTIFICATE OF INSURANCE FOR ENVIRONMENTAL IMPAIRMENT

Name and Address of Insurer (herein called the "Insurer"):
COLONY INSURANCE COMPANY
COLONY INSURANCE COMPANY
24 EAST WASHINGTON STREET
SUITE 950
CHICAGO, IL 60602

Name and Physical and Mailing Addresses of Insured (herein called the "Insured"):

Dispatch Parent, LLC

220 South Commerce Avenue, 1st Floor
Russellville AR 72801

Additional Insured: Texas Commission on Environmental Quality
Physical Address: 12100 Park 35 Circle, MC 184, Austin, TX 78753
Mailing Address: MC 184, P. O. Box 13087, Austin, TX 78711-3087

Facilities covered: (*list for each facility: permit number, name, and physical and mailing addresses*):

LANDOWNER	***COUNTY***	***LOCATION***	***MAILING ADDRESS***	***LONGITUDE***	***LATITUDE***	***TCEQ Permit Numbers***
Reavis Farm	*Hidalgo*	*1.25 miles W of intersection of FM 2221 and Seven Mile Road*	*PO Box 550 Russellville AR 72811*	*-98.492998*	*26.340893°*	*WQ0004463000*
Reavis South Farm	*Hidalgo*	*1.25 mi West of intersection of FM 2221 and Seven Mile Road*	*PO Box 550 Russellville AR 72811*	*-0.98503236*	*26.284132°*	*WQ0004861000*
Davis Ranch	*Cameron*	*South Side of the intersection of Hwy 100 and FM 3069, 2.5 miles E of Los Fresnos, TX*	*PO Box 550 Russellville AR 72811*	*-97.438639*	*26.057462°*	*WQ0005379000*

Reavis-McCook South Farm	*Hidalgo*	*NE corner of intersection of CR 3239 and mile 16 road, approx. 1.78 miles S of the intersection of FM 490 and CR 3239, approx 2.75 miles W of McCook TX*	*PO Box 550 Russellville AR 72811*	*-98.428516*	*26.463211°*	*WQ0004924000*
Garza Trust Farm	*Hidalgo*	*NE corner of intersection of CR 2380 and mile 7 Road in Hidalgo County*	*PO Box 550 Russellville AR 72811*	*-98.497603*	*26.342944°*	*WQ0005286000*
Henderson Liberty Farms	*Liberty*	*Adjacent intersection of Devers Woods Road and FM 61*	*PO Box 550 Russellville AR 72811*	*-94.50334*	*29.99982°*	*WQ0004460000*
Garza Farm	*Hidalgo*	*I .7 miles N of intersection of Mile 7 Road and FM 2221*	*PO Box 550 Russellville AR 72811*	*-98.475078*	*26.339728°*	*WQ0005441000*
Carrales Ranch	*Hidalgo*	*.25 miles SE of intersection of Mile 7 Road and FM 2221*	*PO Box 550 Russellville AR 72811*	*-98.472345*	*26.326807°*	*WQ0005442000*

Reavis Old Pit	*Hidalgo*	*4.2 MI SW of INTXN FM 2221 & 7 MI Rd*	*PO Box 550 Russellville AR 72811*	*-98.50624*	*26.294813°*	*WQ0005442000*
Bolding Farm	*Greg*	*2 MI S of INTXN FM 2276 & Old Kilgore Hwy*	*PO Box 550 Russellville AR 72811*	*-94.810836*	*32.391895°*	*WQ0005442000*

Primary Policy
Per Occurrence Limit: ___$1,000,000_____

Policy Limit: _____$2,000,000_____

Policy Number: ___PACE4279461_____

Effective Date: ___6/30/2024_____

Excess Policy
Per Occurrence Limit: ___$5,000,000_____

Policy Limit: _____$5,000,000_____

Policy Number: ___EXC4279462_____

Effective Date: ___6/30/2024_____

The Insurer hereby certifies that it has issued to the Insured an environmental impairment policy of insurance identified above to provide financial assurance for corrective action related to the facilities identified above. The Insurer further warrants that such policy conforms in all respects with the requirements of 30 Texas Administrative Code (TAC) §37.9105 (relating to Environmental Impairment Insurance), as applicable and as such regulations were constituted on the date shown immediately below.

It is agreed that any provision of the policy inconsistent with such regulations is hereby amended to eliminate such inconsistency.

Whenever requested by the executive director of the Texas Commission on Environmental Quality, the Insurer agrees to furnish to the executive director a duplicate original of the policy listed above, including all endorsements thereon.

I hereby certify that the wording of this certificate is identical to the wording specified in 30 TAC §37.9155 (relating to Certificate of Insurance for Environmental Impairment) as such regulations were constituted on the date shown immediately below. The undersigned Insurer certifies that it is authorized to transact or be a surplus lines insurer eligible to engage in the business of insurance in Texas and it has a minimum financial strength rating of A- as assigned by the A.M. Best Company.

Authorized signature of Insurer: _____

Name of person signing: David Corry

Title of person signing: President, Colony Insurance Company

Signature of witness or notary: _____

Date: November 20, 2024

MICHELE HENSLEE
Notary Public, State of Texas
Comm. Expires 06-27-2028
Notary ID 3922152

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

NAMED INSURED ENDORSEMENT

This endorsement modifies insurance provided under the following:

EnviroPACE Insurance Policy

SCHEDULE

Named Insured(s):

VERIS ENVIRONMENTAL, LLC
AWS DREDGE, LLC
ORGANIX RECYCLING, LLC
SWANSON BARK & WOOD PRODUCTS, INC.
UNITED MULCH & SOIL COMPANY
DENALI WATER SOLUTIONS LLC
DISPATCH MANAGEMENT, LLC
DISPATCH INTERMEDIATE, LLC
DISPATCH ACQUISITION HOLDING, LLC
DISPATCH RECYCLING CORP HOLDING, LP
DISPATCH RECYCLING HOLDINGS, LLC
DISPATCH RECYCLING INTERMEDIATE, LLC
NUTERRA HOLDINGS, LLC
DISPATCH TERRA ACQUISITION, LLC
TERRA HOLDING COMPANY
ORGANIX RECYCLING, LLC
IMPERIAL WESTERN PRODUCTS, INC.
TERRA RENEWAL SERVICES, INC.
RAMCO ENVIRONMENTAL, LLC
SWANSON BARK & WOOD PRODUCTS, INC.
WECARE DENALI, LLC
NEW EARTH, LLC
DENALI STORAGE HOLDING, LLC
SOLID SOLUTIONS, LLC
VERIS ENVIRONMENTAL, LLC
AWS DREDGE, LLC
IDEAS, LLC
TERRAGRO FARMS, LLC
DENALI RECEIVABLES SPV, LLC
NUTERRA FINANCE, INC.

COMMERCIAL EXCESS LIABILITY COVERAGE FORM

Various provisions in this policy restrict coverage. Read the entire policy carefully to determine rights, duties and what is and is not covered.

Throughout this policy the words "you" and "your" refer to the Named Insured shown in the Declarations, and any other person or organization qualifying as a Named Insured under this policy. The words "we", "us" and "our" refer to the company providing this insurance. The word "insured" means any person or organization qualifying as such under the "applicable underlying insurance".

Other words and phrases that appear in quotation marks in this policy have special meaning. Refer to **SECTION IV – DEFINITIONS**. Other words and phrases that are not defined under this policy but defined in the "applicable underlying insurance" will have the meaning described in the policy of "underlying insurance".

The insurance provided under this policy will follow the same provisions, exclusions and limitations that are contained in the "applicable underlying insurance", unless otherwise directed by this insurance. To the extent such provisions differ or conflict, the provisions of this policy will apply. However, this policy will not provide coverage for an "event" unless all the "applicable underlying insurance" provides coverage for the "event". Under no circumstances will coverage provided by this policy ever be broader than coverage provided by all the "applicable underlying insurance".

SECTION I – COVERAGES

1. Insuring Agreement

a. We will pay on behalf of the insured the "ultimate net loss" in excess of the "retained limit" because of "injury or damage" for which the insured is legally obligated to pay and to which this insurance applies.

We have no duty to investigate any claim, suit or proceeding or defend under this policy. However, at our sole discretion we have the right and will be given the opportunity to effectively associate in the defense or investigation of any claim, suit or proceeding. At our sole discretion we also have the right to assume charge of, negotiate and settle any claim, suit or proceeding to which this policy applies. In all such circumstances the insured will cooperate with us fully.

But:

(1) The amount we will pay for "ultimate net loss" is limited as described in **SECTION II – LIMITS OF INSURANCE**, and

(2) Our right to defend terminates when we have exhausted the applicable limit of insurance in the payment of "ultimate net loss" under this Coverage Part. However, if any policy of "underlying insurance" specifies that limits are reduced by defense expenses, our right to defend terminates when we have used up the applicable limit of insurance in the payment of "ultimate net loss" under this Coverage Part.

b. An additional insured under "applicable underlying insurance" will automatically be an additional insured under this insurance. If coverage provided to the additional insured is required by a contract or agreement, the most we will pay on behalf of the additional insured is the lessor of the amount of insurance required by the contract or available under the limits of insurance provided under this policy, less any amounts payable by any "underlying insurance".

Additional insured coverage provided by this insurance will not be broader than coverage provided by all "applicable underlying insurance".

2. Exclusions

The following exclusions, and any other exclusions added by endorsement, apply to this policy. If any exclusion of "underlying insurance" conflicts with any exclusion in this policy, that exclusion of this policy will apply. However, if that exclusion would result in broader coverage than is provided by the "underlying insurance", the exclusion of the "underlying insurance" will apply. This policy will not provide broader coverage than that provided by all "applicable underlying insurance".

This insurance does not apply to:

a. Medical Payments

Medical payments coverage, medical expenses coverage, or associated expenses that are provided without regard to fault, whether or not provided by the "applicable underlying insurance".

b. Auto

Any loss, cost or expense payable under or resulting from any of the following auto coverages:

(1) First-party physical damage coverage;

(2) No-fault coverage;

(3) Personal injury protection or auto medical payments coverage; or

(4) Uninsured or underinsured motorists coverage.

c. Pollution

(1) "Injury or damage" which would not have occurred, in whole or in part, but for the actual, alleged or threatened discharge, dispersal, seepage, migration, release or escape of pollutants at any time.

(2) Any loss, cost or expense arising out of any:

a. Request, demand, order or statutory or regulatory requirement that any insured or others test for, monitor, clean up, remove, contain, treat, detoxify or neutralize, or in any way respond to, or assess the effects of, pollutants; or

b. Claim or suit by or on behalf of a governmental authority for damages because of testing for, monitoring, cleaning up, removing, containing, treating, detoxifying or neutralizing, or in any way responding to, or assessing the effects of, pollutants.

This exclusion does not apply to the extent that valid "applicable underlying insurance" for the pollution liability risks described above exists or would have existed but for the exhaustion of underlying limits for "injury or damage".

d. Workers' Compensation And Similar Laws

Any obligation of the insured under a workers' compensation, disability benefits or unemployment compensation law or any similar law.

e. Asbestos

(1) any claim for "injury or damage" arising, in whole or in part, out of the actual, alleged, threatened or suspected inhalation of, ingestion of, contact with, exposure to, existence of, or presence of, asbestos in any form.

(2) any damages, loss, cost or expense arising, in whole or in part, out of the abating, testing for, monitoring, cleaning up, removing, containing, treating, detoxifying, neutralizing, remediating or disposing of, or in any way responding to or assessing the effects of, asbestos in any form, by any insured or by any other person or entity.

(3) any claim or suit by or on behalf of a governmental authority for damages, loss, cost or expense arising, in whole or in part, out of the abating, testing for, monitoring, cleaning up, removing, containing, treating, detoxifying, neutralizing, remediating or disposing of, or in any way responding to or assessing the effects of, asbestos in any form, by any insured or by any other person or entity.

This exclusion shall apply without regard to the source or sources of asbestos, or the basis of the insured's liability. This exclusion includes defects or negligence in design, construction or materials, or any other event, conduct or misconduct, which may have or is claimed to have precipitated, caused or acted jointly, concurrently or in any sequence with asbestos in any form in causing "injury or damage".

f. Obligations of "Underlying Insurance"

"Injury or damage" for which the liability or obligation under "underlying insurance" is unlimited by law.

g. Pre-Existing Damage or Injury

(1) Any "injury or damage," whether such "injury or damage" is known or unknown:

a. Which first occurred prior to the inception date of this policy (or the retroactive date of this policy, if any, whichever is earlier); or

b. Which is, or alleged to be, in the process of occurring at the inception date of the policy (or the retroactive date of this policy, if any, whichever is earlier) even if the "event" continues during this policy period.

(2) Any "injury or damage," whether known or unknown, which is in the process of

settlement, adjustment or suit as of the inception date of this policy (or the retroactive date of this policy, if any, whichever is earlier).

"Injury or damage" which first occurs during this policy period includes any continuation, change or resumption of that "injury or damage" after the end of this policy period.

h. Sublimited Coverage

Any coverage in any "underlying insurance" which is subject to reduced limits of insurance different from the limits of insurance stated in the Schedule of Underlying Insurance, whether it be referred to as a sublimit, or any other basis.

SECTION II – LIMITS OF INSURANCE

1. The Limits of Insurance shown in the Declarations, and the rules below fix the most we will pay regardless of the number of:

a. Insureds;

b. Claims made or suits brought, or number of vehicles involved;

c. Persons or organizations making claims or bringing suits; or

d. Coverages or limits available under any "underlying insurance".

2. The Limits of Insurance of this policy will apply as follows:

a. This insurance only applies in excess of the "retained limit".

b. The Aggregate Limit is the most we will pay for the sum of all "ultimate net loss", for all "injury or damage" covered under this policy.

However, this Aggregate Limit only applies to "injury or damage" that is subject to an aggregate limit of insurance under the "applicable underlying insurance".

c. Subject to Paragraph **2.b.** above, the Each Occurrence Limit is the most we will pay for the sum of all "ultimate net loss" under this insurance because of all "injury or damage" arising out of any one "event".

d. If the Limits of Insurance of any "applicable underlying insurance" are reduced by defense expenses by the terms of that policy, any payments for defense expenses we make will reduce our applicable Limits of Insurance.

3. If any "underlying insurance" has a policy period that is different from the policy period of this policy then, for the purposes of this insurance, the "retained limit" will only be reduced or exhausted by payments made for "injury or damage" covered under this insurance during the policy period of this policy.

4. The limits of "underlying insurance" will not be deemed to be reduced or exhausted by payments for "injury or damage" not covered under this policy.

The Aggregate Limit of this policy applies separately to each consecutive annual period of this policy and to any remaining period of this policy of less than 12 months, starting with the beginning of the policy period shown in the Declarations, unless the policy period is extended after issuance for an additional period of less than 12 months. In that case, the additional period will be deemed part of the last preceding period for purposes of determining the Limits of Insurance.

SECTION III – CONDITIONS

The following Conditions apply. In addition, the Conditions applicable to any "underlying insurance" are also applicable to the coverage provided under this insurance. To the extent such conditions differ or conflict, the conditions of this policy will apply.

1. Appeals

If any "underlying insurer" or insured elects not to appeal a judgment in excess of the amount of the "retained limit", we may do so at our own expense. We will also pay for taxable court costs, pre- and postjudgment interest and disbursements associated with such appeal. In no event will this provision increase our liability beyond the applicable Limits of Insurance described in **SECTION II – LIMITS OF INSURANCE**.

2. Bankruptcy

a. Bankruptcy Of Insured

Bankruptcy or insolvency of the insured or of the insured's estate will not relieve us of our obligations under this policy.

b. Bankruptcy Of Any Underlying Insurer

Bankruptcy of any "underlying insurer" will not relieve us of our obligations under this policy.

However, insurance provided under this policy will not replace any "underlying insurance" in the event of bankruptcy or insolvency of any "underlying insurer". The insurance provided under this policy will apply as if all "underlying insurance" were in full effect and recoverable.

3. **Duties In The Event Of An Event, Claim Or Suit**

   a. You must see to it that we are notified as soon as practicable of an "event", regardless of the amount, which may result in a claim under this insurance. To the extent possible, notice should include:

      (1) How, when and where the "event" took place;

      (2) The names and addresses of any injured persons and witnesses; and

      (3) The nature and location of any "injury or damage" arising out of the "event".

   b. If a claim is made or suit is brought against any insured, you must:

      (1) Immediately record the specifics of the claim or suit and the date received; and

      (2) Notify us as soon as practicable.

      You must see to it that we receive written notice of the claim or suit as soon as practicable.

   c. You and any other insured involved must:

      (1) Immediately send us copies of any demands, notices, summonses or legal papers received in connection with the claim or suit;

      (2) Authorize us to obtain records and other information;

      (3) Cooperate with us in the investigation or settlement of the claim or defense against the suit; and

      (4) Assist us, upon our request, in the enforcement of any right against any person or organization which may be liable to the insured because of "injury or damage" to which this insurance may also apply.

   d. No insured will, except at that insured's own cost, voluntarily make a payment, assume any obligation, or incur any expense, other than for first aid, without our consent.

4. **First Named Insured Duties**

   The first Named Insured is the person or organization first named in the Declarations and is responsible for the payment of all premiums. The first Named Insured will act on behalf of all other Named Insureds for giving and receiving of notice of cancellation or the receipt of any return premium that may become payable.

   At our request, the first Named Insured will furnish us, as soon as practicable, with a complete copy of any "underlying insurance" and any subsequently issued endorsements or policies which may in any way affect the insurance provided under this policy.

5. **Cancellation**

   a. The first Named Insured shown in the Declarations may cancel this policy by mailing or delivering to us advance written notice of cancellation.

   b. We may cancel this policy by mailing or delivering to the first Named Insured written notice of cancellation at least:

      (1) 10 days before the effective date of cancellation if we cancel for nonpayment of premium; or

      (2) 30 days before the effective date of cancellation if we cancel for any other reason.

   c. We will mail or deliver our notice to the first Named Insured's last mailing address known to us.

   d. Notice of cancellation will state the effective date of cancellation. The policy period will end on that date.

   e. If this policy is cancelled, we will send the first Named Insured any premium refund due. If we cancel, the refund will be pro rata. If the first Named Insured cancels, the refund may be less than pro rata. The cancellation will be effective even if we have not made or offered a refund, or if the refund offered has been incorrectly calculated.

   f. If notice is mailed, proof of mailing will be sufficient proof of notice.

   g. Notice of cancellation to the first Named Insured will serve as notice of cancellation to all insureds. No notice of cancellation will be provided to anyone other than the first Named Insured.

6. **Changes**

   This policy contains all the agreements between you and us concerning the insurance afforded. The first Named Insured is authorized by all other insureds to make changes in the terms of this Policy with our consent. This policy's terms can be amended or waived only by endorsement.

7. **Maintenance Of/Changes To Underlying Insurance**

All “underlying insurance” must be maintained in full effect without reduction of coverage or limits except for the reduction of aggregate limits in accordance with the provisions of such “underlying insurance” that results from “injury or damage” to which this insurance applies during the policy period of this policy. Such exhaustion or reduction is not a failure to maintain “underlying insurance”.

The first Named Insured must notify us in writing, as soon as practicable, if any “underlying insurance” is cancelled, not renewed, replaced or otherwise terminated, or if the limits or scope of coverage of any “underlying insurance” is changed. You must see to it that the terms and conditions of renewals or replacements of underlying insurance, shown in the Schedule of Underlying, will be materially the same as the prior coverage, unless we agree otherwise.

In the event of the Insured's failure to maintain “underlying insurance” in full force and effect, coverage hereunder shall not be invalid, but shall apply to the same extent that it would have applied had there been compliance with this condition and in no event will our liability be more than it would have been if there had been no such change in “underlying insurance” unless we agreed to the change in writing.

8. **Other Insurance**

a. This insurance is excess over, and shall not contribute with any other insurance, whether primary, excess, contingent or on any other basis. This condition will not apply to insurance specifically written as excess over this policy.

When this insurance is excess, if no other insurer defends, we may undertake to do so, but we will be entitled to the insured's rights against all other insurers.

b. When this insurance is excess over other insurance, we will pay only our share of the “ultimate net loss” that exceeds the sum of:

(1) The total amount that all such other insurance would pay for the loss in the absence of the insurance provided under this policy;

(2) The total of all deductible and self-insured amounts under all other insurance; and

(3) All other mechanisms (including contractual obligations of any person or organization to the Insured) arranged for funding of “ultimate net loss”.

9. **Policy Premium**

We will compute all premiums for this policy in accordance with our rules and rates. The policy premium is not subject to audit.

10. **Loss Payable**

Our obligation to make payment for “ultimate net loss”, which is covered under the terms and conditions of this policy, does not apply to a given claim unless and until:

a. The insured or insured's “underlying insurer” has become legally obligated to pay the “retained limit”;

b. The obligation of the insured to pay the “ultimate net loss” in excess of the “retained limit” has been determined by a final settlement or judgment or written agreement among the insured, claimant, “underlying insurer” (or a representative of one or more of these) and us; and

c. All “underlying insurers” have paid the amounts due for the claim under “applicable underlying insurance”.

11. **Legal Action Against Us**

No action shall be taken against us unless, as a condition precedent, there has been:

a. Full compliance with all the provisions of this policy, and

b. The amount of our obligation to pay has been finally determined either by final and non-appealable judgment against the Insured after trial, or by written agreement between you, the claimant and us.

No person or organization shall have the right under this policy to join us as a party to any claim, suit or proceeding against the insured to determine the Insured’s liability, nor shall we be impleaded by any insured or their legal representative in any such claim, suit or proceeding.

12. **Subrogation – Recoveries**

a. In the event of any payment under this policy, we shall be subrogated to all your rights of recovery against any person or organization, and you shall execute and deliver instruments and papers and do whatever else is necessary to secure such rights.

b. Any amounts recovered after any payment under this policy shall be apportioned as follows:

(1) First, we shall receive all amounts recovered until we have been fully reimbursed for all amounts we have incurred, including costs or expenses of such recovery proceedings;

(2) Then, you are entitled to claim for any further amount recovered.

13. When We Do Not Renew

If we decide not to renew this policy, we will mail or deliver to the first Named Insured shown in the Declarations written notice of the nonrenewal not less then 30 days before the expiration date.

If notice is mailed, proof of mailing will be sufficient proof of notice.

SECTION IV – DEFINITIONS

The definitions of any "applicable underlying insurance" also apply to this insurance. In addition, the following definitions apply.

1. "Applicable underlying insurance" means the policy or policies of "underlying insurance" which provide underlying coverage for loss that resulted in a claim under this insurance.
2. "Controlling underlying insurance" means "applicable underlying insurance".
3. "Controlling underlying insurer" means any insurer who provides any policy of insurance that qualifies as the "applicable underlying insurance".
4. "Event" means, including but not limited to, an occurrence, offense, accident or act, to which the "applicable underlying insurance" applies.
5. "Injury or damage" means any injury or damage, covered in the "applicable underlying insurance" arising from an "event".
6. "Retained limit" means the sum of:
   a. The limits of "underlying insurance" applicable to the claim;
   b. Any self insured retentions contained therein; and
   c. Any amount you must pay because the "underlying insurance", as represented by you, is not available for any reason.
7. "Ultimate net loss" means the total sum, after reduction for recoveries, or salvages collectible, that the insured becomes legally obligated to pay as damages by reason of:
   a. Settlements entered into with our consent, judgments, binding arbitration; or
   b. Other binding alternate dispute resolution proceeding entered into with our consent.

   "Ultimate net loss" includes defense expenses if any "underlying insurance" specifies that limits are reduced by defense expenses.
8. "Underlying insurance" means any policy of insurance listed on the Schedule of Underlying Insurance.
9. "Underlying insurer" means any insurer who provides any policy of insurance listed on the Schedule of Underlying Insurance.

Check/Money Order Number: Click here to enter text.

Check/Money Order Amount: Click here to enter text.

Name Printed on Check: Click here to enter text.

SECTION 3. APPLICANT INFORMATION

A. The **site operator** must apply for the permit. What is the legal name of the site operator (applicant)? The legal name must be spelled exactly as filed with the Texas Secretary of State, County, or in the legal document forming the entity.

Denali Water Solutions LLC

B. If the applicant is an existing TCEQ customer, provide the Customer Number (CN) issued to this entity. CN CN 604718486

C. What is the contact information for this applicant?

Contact Name: Jayla Dagen

Mailing Address: P.O. Box 550

City, State, and Zip Code: Russellville, AR 72811

Phone Number: 501-859-7737 Fax Number: Click here to enter text.

E-mail Address: Jayla.dagen@denaliwater.com

SECTION 4. CO-APPLICANT INFORMATION

Complete this section only if more than one person or entity is a site operator.

A. What is the legal name of the co-applicant? The legal name must be spelled exactly as filed with the Texas Secretary of State, County, or in the legal document forming the entity.

N/A

B. If the co-applicant is an existing TCEQ customer, provide the Customer Number (CN) issued to this entity. CN Click here to enter text.

C. What is the contact information for this applicant?

Contact Name: Click here to enter text.

Mailing Address: Click here to enter text.

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

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

E-mail Address: Click here to enter text.

SECTION 5. APPLICATION CONTACT INFORMATION

These are the individuals that TCEQ will contact if additional information is needed

about this application.

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

Application Contact First and Last Name: Jayla Dagen

Title: Environmental Manager Credentials: Click here to enter text.

Organization Name: Denali Water Solutions LLC

Mailing Address: PO Box 550

City, State, and Zip Code: Russellville, AR 72811

Phone Number: 501-859-7737 Fax Number: Click here to enter text.

E-mail Address: Jayla.dagen@denaliwater.com

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

Application Contact First and Last Name: Marcus Tilley

Title: Central Region Environmental Director Credentials: .

Organization Name: Denali Water Solutions LLC

Mailing Address: PO Box 550

City, State, and Zip Code: Russellville, AR 72811

Phone Number: 501-581-1208 Fax Number: Click here to enter text.

E-mail Address: mtilley@gohydroag.com

SECTION 6. PERMIT CONTACT INFORMATION

These are the individuals that TCEQ can contact during the term of the permit.

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

Permit Contact First and Last Name: Jayla Dagen

Title: Environmental Manager Credentials: Click here to enter text.

Organization Name: Denali Water Solutions LLC

Mailing Address: PO Box 550

City, State, and Zip Code: Russellville, AR 72811

Phone Number: 501-859-7737 Fax Number: Click here to enter text.

E-mail Address: Jayla.dagen@denaliwater.com

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

Permit Contact First and Last Name: Marcus Tilley

Title: Central Region Environmental Director Credentials: .

Organization Name: Denali Water Solutions LLC

Mailing Address: PO Box 550

City, State, and Zip Code: Russellville, AR 72811

Phone Number: 501-581-1208 Fax Number: Click here to enter text.

E-mail Address: mtilley@gohydroag.com

SECTION 7. BILLING CONTACT INFORMATION

This is the person that TCEQ will contact if additional information is needed about the annual fee invoices.

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

Billing Contact First and Last Name: Scott Chrimes

Title: Director, Finance and Accounting Credentials: .

Organization Name: Denali Water Solutions LLC

Mailing Address: PO Box 550

City, State, and Zip Code: Russellville, AR 72811

Phone Number: 479-239-0382 Fax Number: Click here to enter text.

E-mail Address: Scott.chrimes@denaliwater.com

SECTION 8. REPORTING CONTACT INFORMATION

This is the person that TCEQ will contact if additional information is needed about the annual biosolids land application reports.

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

Reporting Contact First and Last Name: Jayla Dagen

Title: Environmental Manager Credentials: Click here to enter text.

Organization Name: Denali Water Solutions LLC

Mailing Address: PO Box 550

City, State, and Zip Code: Russellville, AR 72811

Phone Number: 501-859-7737 Fax Number: Click here to enter text.

E-mail Address: Jayla.dagen@denaliwater.com

SECTION 9. NOTICE INFORMATION

A. Individual responsible for publishing the notices in the newspaper

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

First and Last Name: Jayla Dagen

Title: Environmental Manager Credentials: Click here to enter text.

Company Name: Denali Water Solutions LLC

Mailing Address: PO Box 550

City, State, and Zip Code: Russellville, AR 72811

Phone Number: 501-859-7737 Fax Number: Click here to enter text.

E-mail Address: Jayla.dagen@denaliwater.com

B. Method for receiving the notice package for the Notice of Receipt and Intent

☒ E-mail: Jayla.dagen@denaliwater.com

☐ Fax Number: Click here to enter text.

☐ Regular Mail:

Mailing Address: Click here to enter text.

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

C. Contact person to be listed in the notice

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

First and Last Name: Jayla Dagen

Title: Environmental Manager Credentials: Click here to enter text.

Company Name: Denali Water Solutions LLC

Phone Number: 501-859-7737

D. Public viewing location

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

Public Building Name: _____

Physical Address of Building: _____

City: _____County: _____

Phone Number: _____

E. Bilingual Notice Requirement

For new, major amendment, and renewal applications. This information can be obtained by contacting the bilingual/ESL coordinator at the nearest elementary or middle school.

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

   Yes ☒ No ☐

   (**If No**, alternative language notice publication is not required; skip to

Leah Whallon

From: Gabe Timby <gabe.timby@denaliwater.com>
Sent: Monday, August 12, 2024 8:00 AM
To: Leah Whallon
Subject: RE: [EXT]Application to Renew Permit No. WQ0004861000; Denali Water Solutions LLC; Reavis South Farm
Attachments: CoreData_Denali (Reavis South) r 8-11.pdf; CoreData_Reavis South R 8-11.pdf; Farm CERT Form for Commercial Liability.docx; Farm CERT Form for Environmental Impairment - Dispatch 2024.docx; GL.Pl.CPL Named Insured Endorsement.pdf; PLS For Class B Permits (Spanish) 4861.docx; PLS For Class B Permits 4861.docx; WQ 4861 Sludge NORI beneficial use (Spanish).docx

Follow Up Flag: Follow up
Flag Status: Completed

Leah,

Please find the requested information attached.

Thank you,

Gabe Timby • Senior Director of Environmental
C: 479.518.1554

From: Leah Whallon <Leah.Whallon@Tceq.Texas.Gov>
Sent: Thursday, August 1, 2024 5:02 PM
To: Gabe Timby <gabe.timby@denaliwater.com>
Subject: [EXT]Application to Renew Permit No. WQ0004861000; Denali Water Solutions LLC; Reavis South Farm

Good Afternoon,

Please see the attached Notice of Deficiency letter dated August 1, 2024 requesting additional information needed to declare the application administratively complete. Please send the complete response by August 15, 2024.

Please let me know if you have any questions.

Thank you,

Leah Whallon
Texas Commission on Environmental Quality
Water Quality Division
512-239-0084
leah.whallon@tceq.texas.gov

How is our customer service? Fill out our online customer satisfaction survey at
www.tceq.texas.gov/customersurvey

TCEQ Use Only

TCEQ Core Data Form

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

SECTION I: General Information

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

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

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

2. Customer Reference Number *(if issued)*	Follow this link to search for CN or RN numbers in Central Registry**	3. Regulated Entity Reference Number *(if issued)*
CN 604718486		RN 105616734

SECTION II: Customer Information

4. General Customer Information	5. Effective Date for Customer Information Updates (mm/dd/yyyy)	1/14/2025

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

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

6. Customer Legal Name (*If an individual, print last name first: eg: Doe, John*)	*If new Customer, enter previous Customer below:*
Denali Water Solutions LLC	

7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number (*if applicable*)
0801439270	32044463894	710774612	

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

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

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

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

☐ Owner ☒ Operator ☐ Owner & Operator
☐ Occupational Licensee ☐ Responsible Party ☐ Voluntary Cleanup Applicant ☐ Other:

15. Mailing Address:							
	Denali Water Solutions LLC						
	P.O. Box 550						
	City	Russellville	State	AR	ZIP	72811	ZIP + 4

16. Country Mailing Information (*if outside USA*)	17. E-Mail Address (*if applicable*)
	gabe.timby@denaliwater.com

18. Telephone Number	19. Extension or Code	20. Fax Number (*if applicable*)
(479) 518-1554		( ) -

SECTION III: Regulated Entity Information

21. General Regulated Entity Information (*If 'New Regulated Entity" is selected below this form should be accompanied by a permit application*)

☐ 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 Agency 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.*)

Reavis South Farm

23. Street Address of the Regulated Entity: *(No PO Boxes)*	1.25 MI W OF INTXN FM 2221 & SEVEN MI RD IN HIDALGO COUNTY							
	City	La Joya	State	TX	ZIP	78560	ZIP + 4	
24. County	Hidalgo							

Enter Physical Location Description if no street address is provided.

25. Description to Physical Location:	approximately 4.3 miles southwest of the intersection of Farm-to-Market Road 2221 and Mile Seven Road, Hidalgo County, Texas 78576

26. Nearest City	State	Nearest ZIP Code
La Joya	TX	78560

27. Latitude (N) In Decimal:	26.284132		28. Longitude (W) In Decimal:	-98.503236	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds

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

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

hay and pasture

34. Mailing Address:	c/o Denali Water Solutions, LLC							
	P.O. Box 550							
	City	Russellville	State	AR	ZIP	72811	ZIP + 4	

35. E-Mail Address:	neal.plummer@denaliwater.com

36. Telephone Number	37. Extension or Code	38. Fax Number *(if applicable)*
(479) 518-1554		( ) -

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

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

SECTION IV: Preparer Information

40. Name:	Gabe Timby	41. Title:	Sr Director of Env. - Central

42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(479) 518-1554		( ) -	gabe.timby@denaliwater.com

SECTION V: Authorized Signature

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

Company:	Denali Water Solutions LLC	Job Title:	Sr Director of Env. - Central Region
Name *(In Print)*:	Gabe Timby	Phone:	(479) 518- **1554**
Signature:		Date:	8-11-24

TCEQ Use Only

TCEQ Core Data Form

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

SECTION I: General Information

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

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

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

2. Customer Reference Number *(if issued)*		3. Regulated Entity Reference Number *(if issued)*
CN	Follow this link to search for CN or RN numbers in Central Registry**	RN 105616734

SECTION II: Customer Information

4. General Customer Information | **5. Effective Date for Customer Information Updates** (mm/dd/yyyy) 1/14/2025

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

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

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

Reavis Farms Inc.

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

11. Type of Customer: ☐ Corporation ☒ Individual Partnership: ☐ General ☐ Limited

Government: ☐ City ☐ County ☐ Federal ☐ State ☐ Other ☐ Sole Proprietorship ☐ Other:

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

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

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

☒ Owner ☐ Operator ☐ Owner & Operator
☐ Occupational Licensee ☐ Responsible Party ☐ Voluntary Cleanup Applicant ☐ Other:

15. Mailing Address:							
	Reavis Farms Inc.						
	P.O.Box 720908						
	City	McAllen	State	TX	ZIP	78504	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*)
(956) 207-1447		( ) -

SECTION III: Regulated Entity Information

21. General Regulated Entity Information (*If 'New Regulated Entity" is selected below this form should be accompanied by a permit application*)

☐ 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 Agency 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.*)

Reavis South Farm

23. Street Address of the Regulated Entity: *(No PO Boxes)*	1.25 MI W OF INTXN FM 2221 & SEVEN MILE RD N IN HIDALGO COUNTY.						
	City	La Joya	State	TX	ZIP	78560	ZIP + 4
24. County	Hidalgo						

Enter Physical Location Description if no street address is provided.

25. Description to Physical Location:	approximately 4.3 miles southwest of the intersection of Farm-to-Market Road 2221 and Mile Seven Road, Hidalgo County, Texas 78576

26. Nearest City	State	Nearest ZIP Code
La Joya	TX	78560

27. Latitude (N) In Decimal:	26.284132	28. Longitude (W) In Decimal:	-98.503236

Degrees	Minutes	Seconds	Degrees	Minutes	Seconds

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

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

Row Crops

34. Mailing Address:	c/o Denali Water Solutions LLC						
	P.O. Box 550						
	City	Russellville	State	AR	ZIP	72811	ZIP + 4

35. E-Mail Address:	neal.plummer@denaliwater.com

36. Telephone Number	37. Extension or Code	38. Fax Number *(if applicable)*
(479) 858-8207		( ) -

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

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

SECTION IV: Preparer Information

40. Name:	Gabe Timby	41. Title:	Sr Director of Env.- Central

42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(479) 518-1554		( ) -	gabe.timby@denaliwater.com

SECTION V: Authorized Signature

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

Company:	Denali Water Solutions LLC	Job Title:	Environmental Manager-Central Region
Name *(In Print)*:	Gabe Timby	Phone:	(479) 518- **1554**
Signature:		Date:	8-11-24

CERTIFICATE OF INSURANCE FOR COMMERCIAL LIABILITY

Name and Address of Insurer (herein called the "Insurer"):
COLONY INSURANCE COMPANY
Colony Insurance Company
24 EAST WASHINGTON STREET
SUITE 950
CHICAGO, IL 60602

Name and Physical and Mailing Addresses of Insured (herein called the "Insured"):

Dispatch Parent LLC

220 South Commerce Avenue, 1st Floor
Russellville AR 72801

Additional Insured: Texas Commission on Environmental Quality
Physical Address: 12100 Park 35 Circle, MC 184, Austin, TX 78753
Mailing Address: MC 184, P. O. Box 13087, Austin, TX 78711-3087

Facilities covered: (*list for each facility: permit number, name, and physical and mailing addreses:*

LANDOWNER	***COUNTY***	***LOCATION***	***MAILING ADDRESS***	***LONGITUDE***	***LATITUDE***	***TCEQ Permit Numbers***
Reavis Farm	*Hidalgo*	*1.25 miles W of intersection of FM 2221 and Seven Mile Road*	*PO Box 3036 Russellville AR 72811*	*98 Deg 30'*	*26 Deg*	*4463000*
Reavis South Farm	*Hidalgo*	*1.25 mi West of intersection of FM 2221 and Seven Mile Road*	*PO Box 3036 Russellville AR 72811*	*98 Deg 30'*	*26 Deg*	*4861000*
Davis Ranch	*Cameron*	*South Side of the intersection of Hwy 100 and FM 3069, 2.5 miles E of Los Fresnos, TX*	*PO Box 3036 Russellville AR 72811*	*97 Deg 43'*	*26 Deg 05'*	*WQ0005379000*

Reavis-McCook South Farm	*Hidalgo*	*NE corner of intersection of CR 3239 and mile 16 road, approx. 1.78 miles S of the intersection of FM 490 and CR 3239, approx 2.75 miles W of McCook TX*	*PO Box 3036 Russellville AR 72811*	*98 Deg 25'*	*26 Deg*	*WQ0004924000*
Garza Trust Farm	*Hidalgo*	*NE corner of intersection of CR 2380 and mile 7 Road in Hidalgo County*	*PO Box 3036 Russellville AR 72811*	*98 Deg 29'*	*22 Deg*	*WQ0005286000*
Henderson Liberty Farms	*Liberty*	*Adjacent intersection of Devers Woods Road and FM 61*	*PO Box 3036 Russellville AR 72811*	*94 Deg 30'*	*30 Deg 331*	*WQ0004460000*
Paul Sloan Farm	*Navarro*	*476 Brookshire St Powell TX*	*PO Box 3036 Russellville AR 72811*	*96 Deg 10'*	*32 Deg 36'*	*WQ0004989000*
Sanchez Farm	*Kaufman*	*NW side of CR 104A, approx. 25 mile E of intersection of CR 104 and CR 104A*	*PO Box 3036 Russellville AR 72811*	*96 Deg 10'*	*32 Deg 36'*	*WQ0005291000*
Kevin Carter Mabank Farm	*Van Zandt*	*500 VZ CR 2808 Maback TX*	*PO Box 3036 Russellville AR 72811*	*-96.031195*	*32.396245*	*WQ0005448000*
Kevin Carter Seven Points Farm	*Henderson*	*N of intersection of Hwy 85 & CR 2139*	*PO Box 3036 Russellville AR 72811*	*-96.272258*	*32.323078*	*WQ0005447000*

Garza Farm Pending	*Hidalgo*	*I .7 miles N of intersection of Mile 7 Road and FM 2221*	*PO Box 3036 Russellville AR 72811*	*98 Deg 28'*	*26 Deg*	*WQ0005441000*
Carrales Ranch Pending	*Hidalgo*	*.25 miles SE of intersection of Mile 7 Road and FM 2221*	*PO Box 3036 Russellville AR 72811*	*98 Deg 28'*	*26 Deg*	*WQ0005442000*

Per Occurrence Limit: ___$1,000,000_____

Annual Aggregate Limit: __$2,000,000_____

Policy Number: ___PACE4279461_____

Effective Date: ___6/30/2024_____

The Insurer hereby certifies that it has issued to the Insured a commercial liability policy of insurance identified above to provide coverage for bodily injury and property damage to compensate persons injured or property damaged as a result of Class B sewage sludge land application at the facilities identified above.

The Insurer further warrants that such policy conforms in all respects with the requirements of 30 Texas Administrative Code (TAC) §37.9100 (relating to Commercial Liability Insurance), as applicable and as such regulations were constituted on the date shown immediately below. It is agreed that any provision of the policy inconsistent with such regulations is hereby amended to eliminate such inconsistency.

Whenever requested by the executive director of the Texas Commission on Environmental Quality, the Insurer agrees to furnish to the executive director a duplicate original of the policy listed above, including all endorsements thereon.

I hereby certify that the wording of this certificate is identical to the wording specified in 30 TAC §37.9145 (relating to Certificate of Insurance for Commercial Liability) as such regulations were constituted on the date shown immediately below. The undersigned Insurer certifies that it is authorized to transact or be a surplus lines insurer eligible to engage in the business of insurance in Texas and it has a minimum financial strength rating of A- as assigned by the A.M. Best Company.

Authorized signature of Insurer: _____

Name of person signing: _____

Title of person signing: _____

Signature of witness or notary: _____

Date: _____

CERTIFICATE OF INSURANCE FOR ENVIRONMENTAL IMPAIRMENT

Name and Address of Insurer (herein called the "Insurer"):
COLONY INSURANCE COMPANY
COLONY INSURANCE COMPANY
24 EAST WASHINGTON STREET
SUITE 950
CHICAGO, IL 60602

Name and Physical and Mailing Addresses of Insured (herein called the "Insured"):

Dispatch Parent, LLC

220 South Commerce Avenue, 1st Floor
Russellville AR 72801

Additional Insured: Texas Commission on Environmental Quality
Physical Address: 12100 Park 35 Circle, MC 184, Austin, TX 78753
Mailing Address: MC 184, P. O. Box 13087, Austin, TX 78711-3087

Facilities covered: (*list for each facility: permit number, name, and physical and mailing addresses*)

LANDOWNER	**COUNTY**	**LOCATION**	**MAILING ADDRESS**	**LONGITUDE**	**LATITUDE**	**TCEQ Permit Numbers**
Reavis Farm	Hidalgo	1.25 miles W of intersection of FM 2221 and Seven Mile Road	PO Box 3036 Russellville AR 72811	98 Deg 30'	26 Deg	4463000
Reavis South Farm	Hidalgo	1.25 mi West of intersection of FM 2221 and Seven Mile Road	PO Box 3036 Russellville AR 72811	98 Deg 30'	26 Deg	4861000
Davis Ranch	Cameron	South Side of the intersection of Hwy 100 and FM 3069, 2.5 miles E of Los Fresnos, TX	PO Box 3036 Russellville AR 72811	97 Deg 43'	26 Deg 05'	WQ0005379000

Reavis-McCook South Farm	Hidalgo	NE corner of intersection of CR 3239 and mile 16 road, approx. 1.78 miles S of the intersection of FM 490 and CR 3239, approx 2.75 miles W of McCook TX	PO Box 3036 Russellville AR 72811	98 Deg 25'	26 Deg	WQ0004924000
Garza Trust Farm	Hidalgo	NE corner of intersection of CR 2380 and mile 7 Road in Hidalgo County	PO Box 3036 Russellville AR 72811	98 Deg 29'	22 Deg	WQ0005286000
Henderson Liberty Farms	Liberty	Adjacent intersection of Devers Woods Road and FM 61	PO Box 3036 Russellville AR 72811	94 Deg 30'	30 Deg 331	WQ0004460000
Paul Sloan Farm	Navarro	476 Brookshire St Powell TX	PO Box 3036 Russellville AR 72811	96 Deg 10'	32 Deg 36'	WQ0004989000
Sanchez Farm	Kaufman	NW side of CR 104A, approx. 25 mile E of intersection of CR 104 and CR 104A	PO Box 3036 Russellville AR 72811	96 Deg 10'	32 Deg 36'	WQ0005291000
Kevin Carter Mabank Farm	Van Zandt	500 VZ CR 2808 Maback TX	PO Box 3036 Russellville AR 72811	-96.031195	32.396245	WQ0005448000
Kevin Carter Seven Points Farm	Henderson	N of intersection of Hwy 85 & CR 2139	PO Box 3036 Russellville AR 72811	-96.272258	32.323078	WQ0005447000
Garza Farm Pending	Hidalgo	I .7 miles N of intersection of Mile 7 Road and FM 2221	PO Box 3036 Russellville AR 72811	98 Deg 28'	26 Deg	WQ0005441000

Carrales Ranch Pending	Hidalgo	.25 miles SE of intersection of Mile 7 Road and FM 2221	PO Box 3036 Russellville AR 72811	98 Deg 28'	26 Deg	WQ0005442000

Per Occurrence Limit: ___$1,000,000_____

Policy Limit: _____$2,000,000_____

Policy Number: ___PACE4279461_____

Effective Date: ___6/30/2024_____

The Insurer hereby certifies that it has issued to the Insured an environmental impairment policy of insurance identified above to provide financial assurance for corrective action related to the facilities identified above. The Insurer further warrants that such policy conforms in all respects with the requirements of 30 Texas Administrative Code (TAC) §37.9105 (relating to Environmental Impairment Insurance), as applicable and as such regulations were constituted on the date shown immediately below.

It is agreed that any provision of the policy inconsistent with such regulations is hereby amended to eliminate such inconsistency.

Whenever requested by the executive director of the Texas Commission on Environmental Quality, the Insurer agrees to furnish to the executive director a duplicate original of the policy listed above, including all endorsements thereon.

I hereby certify that the wording of this certificate is identical to the wording specified in 30 TAC §37.9155 (relating to Certificate of Insurance for Environmental Impairment) as such regulations were constituted on the date shown immediately below. The undersigned Insurer certifies that it is authorized to transact or be a surplus lines insurer eligible to engage in the business of insurance in Texas and it has a minimum financial strength rating of A- as assigned by the A.M. Best Company.

Authorized signature of Insurer: _____

Name of person signing: _____

Title of person signing: _____

Signature of witness or notary: _____

Date: _____

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

NAMED INSURED ENDORSEMENT

This endorsement modifies insurance provided under the following:

EnviroPACE Insurance Policy

SCHEDULE

Named Insured(s):

VERIS ENVIRONMENTAL, LLC
AWS DREDGE, LLC
ORGANIX RECYCLING, LLC
SWANSON BARK & WOOD PRODUCTS, INC.
UNITED MULCH & SOIL COMPANY
DENALI WATER SOLUTIONS LLC
DISPATCH MANAGEMENT, LLC
DISPATCH INTERMEDIATE, LLC
DISPATCH ACQUISITION HOLDING, LLC
DISPATCH RECYCLING CORP HOLDING, LP
DISPATCH RECYCLING HOLDINGS, LLC
DISPATCH RECYCLING INTERMEDIATE, LLC
NUTERRA HOLDINGS, LLC
DISPATCH TERRA ACQUISITION, LLC
TERRA HOLDING COMPANY
ORGANIX RECYCLING, LLC
IMPERIAL WESTERN PRODUCTS, INC.
TERRA RENEWAL SERVICES, INC.
RAMCO ENVIRONMENTAL, LLC
SWANSON BARK & WOOD PRODUCTS, INC.
WECARE DENALI, LLC
NEW EARTH, LLC
DENALI STORAGE HOLDING, LLC
SOLID SOLUTIONS, LLC
VERIS ENVIRONMENTAL, LLC
AWS DREDGE, LLC
IDEAS, LLC
TERRAGRO FARMS, LLC
DENALI RECEIVABLES SPV, LLC
NUTERRA FINANCE, INC.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

ORGANIX COMPOSTING OF TEXAS, LLC
OR PROCESSING, LLC
OR COMPOSTING, LLC
VIRIDIUN EQUIPMENT, INC.
VIRIDIUN, LLC
VIRIDIUN PRODUCTS, LLC
DESERT COTTON SEED PRODUCTS CO.
CO-WEST COMMODITIES, INC.
ROBERT ENDY COMMODITIES, INC.

The Policy is amended to include the person(s) or organization(s) described in the SCHEDULE above as a Named Insured.

ALL OTHER TERMS AND CONDITIONS OF THE POLICY REMAIN UNCHANGED.

Plain Language Summary Template and Instructions for Beneficial Land Use of Biosolids Permit Applications

This template is intended as a guide to assist applicant's in developing a plain language summary as required by 30 Texas Administrative Code Chapter 39. Applicant's may modify the template as necessary to accurately describe their facility as long as the summary includes the following information: (1) the function of the proposed land application unit; (2) the expected proposed land application acreage; (3) the expected pollutants that may be land applied; and (4) how the applicant will control those pollutants, so that the proposed land application site will not have an adverse impact on human health or the environment.

Fill in the blanks below to describe your land application unit and application. Instructions or examples are provided below. Make any other edits necessary to improve readability or grammar and to comply with the rule requirements.

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

ENGLISH TEMPLATE FOR BIOSOLIDS BENEFICIAL LAND USE NEW/RENEWAL/AMENDMENT APPLICATIONS

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.

Denali Water Solutions LLC (CN604718486) operates Reavis South Farm RN105616734. an authorizes the land application of wastewater treatment plant Class B biosolids and water treatment plant residuals for beneficial use on approximately 655.14 acres. The facility is located approximately 4.3 miles southwest of the intersection of Farm-to-Market Road 2221 and Mile Seven Road, in La Joya, Hidalgo County, Texas 78576.

Renewal which authorizes the land application of wastewater treatment plant Class B biosolids and water treatment plant residuals for beneficial use on approximately 655.14 acres This permit will not authorize a discharge of pollutants into water in the state.

Land application of Biosolids is expected to contain Arsenic, Cadmium, Chromium, Copper, Lead, Mercury, Molybdenum, Nickel, Selenium and Zinc (mg/kg). Examples of best management practices implemented by Denali Water Solutions LLC include but

are not limited to: include but are not limited to: monitoring of metal pollutants, pathogen reduction, vector attraction reduction, applicable land application unit buffer zones, soil monitoring and limiting application at the appropriate agronomic rate based on crop needs.

INSTRUCTIONS

1. Enter the name of applicant in this section. The applicant name should match the name associated with the customer number.
2. Enter the Customer Number in this section. Each Individual or Organization is issued a unique 11-digit identification number called a CN (e.g. CN123456789).
3. Select “operates” in this section for existing land application unit applications or select “proposes to operate” for new land application unit applications.
4. Enter the name of the land application unit in this section. The facility name should match the name associated with the regulated entity number.
5. Enter the Regulated Entity number in this section. Each site location is issued a unique 11-digit identification number called an RN (e.g. RN123456789).
6. Choose the appropriate article (a or an) to complete the sentence.
7. Enter a description of the land application unit in this section. For example, an operator of a biosolids land application unit application might write: authorizes the land application of Class B wastewater treatment plant biosolids for beneficial use on 30 acres.
8. Enter the location of the land application unit in this section.
9. Enter the City nearest the land application unit in this section.
10. Enter the County nearest the land application unit in this section.
11. Enter the zip code for the land application unit address in this section.
12. Enter a summary of the application request in this section. For example: renewal which authorizes the land application of Class B wastewater treatment plant biosolids for beneficial use on 30 acres.
13. List all pollutants expected in the land application for this facility in this section. For example, the pollutants expected in biosolids land application are: Arsenic, Cadmium, Chromium, Copper, Lead, Mercury, Molybdenum, Nickel, Selenium and Zinc (mg/kg).
14. Enter the name of applicant in this section. The applicant name should match the name associated with the customer number.
15. Enter a description of the best management practices used at your facility to manage pollutants. Include a description of best management practices used for the entire process.

Example

Biosolids Beneficial Land Application Individual Permit Application

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.

Texas Land Application Company (CN000000001) operates the Kaechele Ranch Class B biosolids beneficial use land application unit on 35 acres of land. The land application unit is located adjacent to the east and west side of Farm-to-Market Road 271, approximately 4.5 miles from the intersection of Farm-to-Market Road 271 and Highway 90, seven miles east of Eagle Lake, in Colorado and Wharton Counties, Texas 77435 (RN102994514).

Texas Land Application Company land applies Class B wastewater treatment plant biosolids for beneficial use at a maximum rate of 12 dry tons per acre per year on 35 acres of land. This land application unit will not discharge of pollutants into water in the state. The following pollutants are expected in biosolids land application: Arsenic, Cadmium, Chromium, Copper, Lead, Mercury, Molybdenum, Nickel, Selenium and Zinc Examples of best management practices implemented by Texas Land Application Company include but are not limited to: monitoring of metal pollutants, pathogen reduction, vector attraction reduction, applicable land application unit buffer zones, soil monitoring and limiting application at the appropriate agronomic rate based on crop needs.

PLANTILLA EN ESPAÑOL PARA SOLICITUDES NUEVAS/RENOVACIÓN/ENMIENDAS DE BIOSÓLIDOS USO BENEFICIOSO DE LA TIERRA

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.

Denali Water Solutions LLC (CN604718486) opera Reavis South Farm RN105616734. Autoriza la aplicación al suelo de biosólidos Clase B de la planta de tratamiento de aguas residuales y residuos de la planta de tratamiento de agua para uso beneficioso en aproximadamente 655.14 acres. La instalación está ubicada aproximadamente a 4.3 millas al suroeste de la intersección de Farm-to-Market Road 2221 y Mile Seven Road, en La Joya, Condado de Hidalgo, Texas 78576.

Renovación que autoriza la aplicación al suelo de biosólidos Clase B de la planta de tratamiento de aguas residuales y residuos de la planta de tratamiento de agua para uso beneficioso en aproximadamente 655.14 acres. Este permiso no autorizará una descarga de contaminantes al agua en el estado.

Se espera que la aplicación terrestre de biosólidos contenga arsénico, cadmio, cromo, cobre, plomo, mercurio, molibdeno, níquel, selenio y zinc (mg/kg). Los ejemplos de mejores prácticas de gestión implementadas por Denali Water Solutions LLC incluyen, entre otros: monitoreo de contaminantes metálicos, reducción de patógenos, reducción de la atracción de vectores, zonas de amortiguamiento de unidades de aplicación al suelo aplicables, monitoreo del suelo y limitación de la aplicación en la dosis agronómica adecuada en función de las necesidades del cultivo.

COMISIÓN DE CALIDAD AMBIENTAL DE TEXAS

AVISO DE RECIBO DE SOLICITUD Y
INTENCIÓN DE OBTENER UNA RENOVACIÓN BENEFICIOSA DEL PERMISO DE USO DE SUELO

NÚMERO DE PERMISO N.º WQ0004861000

SOLICITUD Denali Water Solutions LLC, P.O. Box 550, Russellville, Arkansas 72811, tiene aplicado a la Comisión de Calidad Ambiental de Texas (TCEQ) para renovar el uso beneficioso de la tierra Permiso No. WQ0004861000 para autorizar la aplicación terrestre de planta de tratamiento de guas residuales. Biosólidos clase B y residuos de plantas de tratamiento de agua para uso beneficioso en aproximadamente 655.14 acres. El sitio de uso beneficioso del suelo está ubicado aproximadamente a 4.3 millas al suroeste del intersección de Farm-to-Market Road 2221 y Mile Seven Road, cerca de la ciudad de La Joya, en Condado de Hidalgo, Texas 78576. TCEQ recibió esta solicitud el 10 de junio de 2024. El permiso La solicitud estará disponible para ver y copiar en Speer Memorial Library, 801 East 12th. Street, Mission, en el Condado de Hidalgo, Texas, antes de la fecha de publicación de este aviso en el periódico. La aplicación, incluidas las actualizaciones y los avisos asociados, están disponibles, electrónicamente en la siguiente página web:
https://www.tceq.texas.gov/permitting/wastewater/pending-permits/sludge-applications. Este El enlace a un mapa electrónico de la ubicación general del sitio o instalación se proporciona como cortesía pública. y no forma parte de la solicitud o aviso. Para conocer la ubicación exacta, consulte la aplicación.
https://gisweb.tceq.texas.gov/LocationMapper/?marker=-98.509166,26.279166&level=18

AVISO DE IDIOMA ALTERNATIVO. Aviso de idioma alternativo en https://www.tceq.texas.gov/permitting/wastewater/plain-language-summaries-and-public-notices. El aviso de idioma alternativo en inglés está disponible en https://www.tceq.texas.gov/permitting/wastewater/plain-language-summaries-and-public-notices.

AVISO ADICIONAL. El Director Ejecutivo de la TCEQ ha determinado que la solicitud está administrativamente completa y llevará a cabo una revisión técnica de la solicitud. Una vez completada la revisión técnica de la solicitud, el Director Ejecutivo puede preparar un bosquejo del permiso y emitirá una decisión preliminar sobre la solicitud. **El aviso de la solicitud y la decisión preliminar se publicarán y enviarán por correo a aquellos que están en la lista de correo de todo el condado y a aquellos que están en la lista de correo para esta solicitud. Ese aviso contendrá la fecha límite para enviar comentarios públicos.**

COMENTARIO PÚBLICO / REUNIÓN PÚBLICA. Puede enviar comentarios públicos o solicitar una reunión pública sobre esta solicitud. El propósito de una

reunión pública es para brindar la oportunidad de enviar comentarios o hacer preguntas sobre la solicitud. La TCEQ convocará una reunión pública si el Director Ejecutivo determina que existe un grado significativo de interés público en la solicitud o si lo solicita un legislador local. Una reunión pública no es una audiencia de caso impugnado.

OPORTUNIDAD PARA UNA AUDIENCIA DE CASO IMPUGNADO. Después de la fecha límite para presentar comentarios públicos, el Director Ejecutivo considerará todos los comentarios oportunos y preparará una respuesta a todos los comentarios públicos relevantes y materiales, o significativos. **A menos que la solicitud se remita directamente para una audiencia de caso impugnado, la respuesta a los comentarios y la decisión del Director Ejecutivo sobre la solicitud se enviarán por correo a todos los que hayan presentado comentarios públicos y a las personas que estén en la lista de correo para esta solicitud. Si se reciben comentarios, el correo también proporcionará instrucciones para solicitar la reconsideración de la decisión del Director Ejecutivo y para solicitar una audiencia de caso impugnado. Una persona que pueda verse afectada por la solicitud puede solicitar una audiencia.** Una audiencia de caso impugnado es un procedimiento legal similar a un juicio civil en un tribunal de distrito estatal.

PARA SOLICITAR UNA AUDIENCIA DE CASO IMPUGNADO, DEBE INCLUIR LOS SIGUIENTES ELEMENTOS EN SU SOLICITUD: su nombre, dirección, número de teléfono; nombre del solicitante y número de permiso propuesto; la ubicación y distancia de su propiedad/actividades en relación con la instalación propuesta; una descripción específica de cómo se vería afectado negativamente por la instalación de una manera que no es común para el público en general; una lista de todas las cuestiones de hecho controvertidas que presente durante el periodo de comentarios y la declaración "[Yo/nosotros] solicito/amos una audiencia de caso impugnado". Si la solicitud de audiencia de caso impugnado se presenta en nombre de un grupo o asociación, la solicitud debe designar al representante del grupo para recibir correspondencia futura; identificar por nombre y dirección física a un miembro individual del grupo que se vería afectado negativamente por la instalación o actividad propuesta; proporcionar la información discutida anteriormente con respecto a la ubicación y distancia del miembro afectado de la instalación o actividad; explicar cómo y por qué el miembro se vería afectado; y explicar cómo los intereses que el grupo busca proteger están relacionados con el propósito del grupo.

Tras el cierre de todos los periodos de comentarios y solicitudes aplicables, el Director Ejecutivo remitirá la solicitud y cualquier solicitud de reconsideración o de una audiencia de caso impugnado a los Comisionados de la TCEQ para su consideración en una reunión programada de la Comisión.

La Comisión sólo podrá conceder una solicitud de audiencia de un asunto impugnado sobre cuestiones que el solicitante haya presentado en sus observaciones oportunas que no hayan sido retiradas posteriormente. **Si se concede una audiencia, el tema de una audiencia se limitará a cuestiones de hecho en disputa o cuestiones mixtas de hecho y de derecho relacionadas con preocupaciones relevantes y materiales sobre la calidad del agua presentadas durante el periodo de comentarios.** Para las solicitudes de renovación que no incluyen una enmienda importante, incluya: **La TCEQ puede actuar sobre una solicitud para renovar un permiso sin brindar la oportunidad de una audiencia de caso impugnado si se cumplen ciertos criterios.**

LISTA DE CORREO. Si envían comentarios públicos, una solicitud de una audiencia de caso impugnado o una reconsideración de la decisión del Director Ejecutivo, se le agregará a la lista de correo de esta solicitud específica para recibir futuros avisos públicos enviados por correo por la Oficina del Secretario Oficial. Además, puede solicitar ser colocado en: (1) la lista de correo permanente para un nombre de solicitante específico y número de permiso; y/o (2) la lista de correo para un condado específico. Si desea ser colocado en la lista de correo permanente y/o del condado, especifique claramente qué lista(s) y envíe su solicitud a la Oficina del Secretario Oficial de la TCEQ a la dirección a continuación.

INFORMACIÓN DISPONIBLE EN LÍNEA. Para obtener detalles sobre el estado de la solicitud, visite la Base de Datos Integrada de los Comisionados en www.tceq.texas.gov/goto/cid. Busque en la base de datos utilizando el número de permiso para esta aplicación, que se proporciona en la parte superior de este aviso.

CONTACTOS E INFORMACIÓN DE LA AGENCIA. Todos los comentarios y solicitudes públicas deben enviarse electrónicamente a http://www14.tceq.texas.gov/epic/eComment/, o por escrito a Texas Commission on Environmental Quality, Office of the Chief Clerk, MC-105, P.O. Box 13087, Austin, Texas 78711-3087. Tenga en cuenta que cualquier información de contacto que proporcione, incluido su nombre, número de teléfono, dirección de correo electrónico y dirección física, se convertirá en parte del registro público de la agencia. Para obtener más información sobre esta solicitud de permiso o el proceso de permisos, llame al Programa de Educación Pública de la TCEQ, sin cargo, al 1-800-687-4040 o visite su sitio web en www.tceq.texas.gov/goto/pep. Si desea información en español, puede llamar al 1-800-687-4040.

También se puede obtener más información de Denali Water Solutions LLC en la dirección indicada anteriormente o llamando a Gabe Timby al 479-518-1554.

Fecha de emisión: *fecha de emisión*

TCEQ Office Use Only
Permit No:
CN:
RN:
Region:

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

APPLICATION FOR A PERMIT FOR BENEFICIAL LAND USE OF BIOSOLIDS

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

SECTION 1. TYPE OF APPLICATION

☐ New (original, site not permitted)

☐ New (previously permitted but allowed to expire or canceled)

☐ Major Amendment (including renewals with changes to substantive provisions of the permit)

☐ Minor Amendment (including non-substantive provisions of the registration, expiration date remains the same)

☒ Renewal

☐ Renewal with Minor Amendment

For amendments, describe the proposed changes:

Click here to enter text.

For existing permits:

What is the permit number? WQ000486100

SECTION 2. APPLICATION FEE

The application fee varies from $1,000 to $5,000 based on the quantity of biosolids to be applied annually. See instructions to determine the appropriate fee.

Provide your payment information below, for verification of payment

Check/Money Order Number: 44620

Check/Money Order Amount: $3,000

Name Printed on Check: Denali Water Solutions

SECTION 3. APPLICANT INFORMATION

A. The **site operator** must apply for the permit. What is the legal name of the site operator (applicant)? The legal name must be spelled exactly as filed with the Texas Secretary of State, County, or in the legal document forming the entity.

Denali Water Solutions LLC

B. If the applicant is an existing TCEQ customer, provide the Customer Number (CN) issued to this entity. CN 604718486

C. What is the contact information for this applicant?

Contact Name: Gabe Timby

Mailing Address: PO Box 550

City, State, and Zip Code: Russellville, AR 72811

Phone Number: 479-5181554 Fax Number:

E-mail Address: gabe.timby@denaliwater.com

SECTION 4. CO-APPLICANT INFORMATION

Complete this section only if more than one person or entity is a site operator.

A. What is the legal name of the co-applicant? The legal name must be spelled exactly as filed with the Texas Secretary of State, County, or in the legal document forming the entity.

N/A

B. If the co-applicant is an existing TCEQ customer, provide the Customer Number (CN) issued to this entity. CN

C. What is the contact information for this applicant?

Contact Name:

Mailing Address:

City, State, and Zip Code:

Phone Number: Fax Number:

E-mail Address:

SECTION 5. APPLICATION CONTACT INFORMATION

These are the individuals that TCEQ will contact if additional information is needed about this application.

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

Application Contact First and Last Name: Gabe Timby

Title: Sr Director of Env. - Central Region Credentials:

Organization Name: Denali Water Solutions LLC

Mailing Address: PO Box 550

City, State, and Zip Code: Russellville, AR 72811

Phone Number: 479-518-1554 Fax Number:

E-mail Address: gabe.timby@denaliwater.com

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

Application Contact First and Last Name: Gabe Timby

Title: Sr Director of Environmental-Central Region Credentials:

Organization Name: Denali Water Solutions LLC

Mailing Address: PO Box 550

City, State, and Zip Code: Russellville, AR 72811

Phone Number: 479-518-1554 Fax Number:

E-mail Address: gabe.timby@denaliwater.com

SECTION 6. PERMIT CONTACT INFORMATION

These are the individuals that TCEQ can contact during the term of the permit.

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

Permit Contact First and Last Name: Gabe Timby

Title: Sr Director of Env. - Central Region Credentials:

Organization Name: Denali Water Solutions LLC

Mailing Address: PO Box 550

City, State, and Zip Code: Russellville, AR 72811

Phone Number: (479) 518-1554 Fax Number:

E-mail Address: gabe.timby@denaliwater.com

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

Permit Contact First and Last Name: Gabe Timby

Title: Sr Director of Environmental-Central Region Credentials:

Organization Name: Denali Water Solutions LLC

Mailing Address: PO Box 550

City, State, and Zip Code: Russellville, AR 72811

Phone Number: 479-518-1554 Fax Number:

E-mail Address: gabe.timby@denaliwater.com

SECTION 7. BILLING CONTACT INFORMATION

This is the person that TCEQ will contact if additional information is needed about the annual fee invoices.

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

Billing Contact First and Last Name: Scott Chrimes

Title: Director, Finance and Accounting Credentials:

Organization Name: Denali Water Solutions LLC

Mailing Address: PO Box 550

City, State, and Zip Code: Russellville, AR 72811

Phone Number: 479-239-0382 Fax Number:

E-mail Address: Scott.Chrimes@denaliwater.com

SECTION 8. REPORTING CONTACT INFORMATION

This is the person that TCEQ will contact if additional information is needed about the annual biosolids land application reports.

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

Reporting Contact First and Last Name: Gabe Timby

Title: Sr Director of Environmental-Central Region Credentials:

Organization Name: Denali Water Solutions LLC

Mailing Address: PO Box 550

City, State, and Zip Code: Russellville, AR 72811

Phone Number: 479-518-1554 Fax Number:

E-mail Address: gabe.timby@denaliwater.com

SECTION 9. NOTICE INFORMATION

A. Individual responsible for publishing the notices in the newspaper

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

First and Last Name: Gabe Timby

Title: Sr Director of Environmental-Central Region Credentials:

Company Name: Denali Water Solutions LLC

Mailing Address: PO Box 550

City, State, and Zip Code: Russellville, AR 72811

Phone Number: 479-518-1554 Fax Number:

E-mail Address: gabe.timby@denaliwater.com

B. Method for receiving the notice package for the Notice of Receipt and Intent

☒ E-mail: gabe.timby@denaliwater.com

☐ Fax Number:

☐ Regular Mail:

Mailing Address:

City, State, and Zip Code:

C. Contact person to be listed in the notice

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

First and Last Name: Gabe Timby

Title: Sr Director of Environmental-Central Region Credentials:

Company Name: Denali Water Solutions LLC

Phone Number: 479-518-1554

D. Public viewing location

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

Public Building Name: Speer Memorial Library

Physical Address of Building: 801 E. 12th St.

City: Mission, TX 78572 County: hidalgo

Phone Number: (956) 580-8755

E. Bilingual Notice Requirement

For new, major amendment, and renewal applications. This information can be obtained by contacting the bilingual/ESL coordinator at the nearest elementary or middle school.

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

   Yes ☒ No ☐

   (**If No**, alternative language notice publication is not required; skip to Section 10. Regulated Entity (Site) Information.)

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 1, 2, 3, or 4, public notice in an alternative language is required. Which language is required by the bilingual program? Spanish

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

Attachment Number: 1

SECTION 10. REGULATED ENTITY (SITE) INFORMATION

A. Site Name: Reavis South Farm

B. If this is an existing permitted site, provide the Regulated Entity Number (RN) issued to this site. RN 105616734

C. Site Address/Location:

Is the location of the application site used in the existing permit accurate?

☒ Yes ☐ No

If **YES**, skip to D. If **NO**, or if this application is for a new site, provide the physical address of the site such as: 12100 Park 35 Circle, Austin, TX 78753. If the site does not have a physical address, provide a location description such as: located on the north side of FM 123, 2 miles west of the intersection of FM 123 and Highway 1.

1.25 MI W OF INTXN FM 2221 & SEVEN MI RD IN HADALGO COUNTY

D. County where the site is located: Hidalgo

E. Latitude: 26.284132 Longitude: -98.503236

F. Landowner Information:

Attach an additional sheet if more than one landowner.

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

First and Last Name: Wayne Reavis

Organization Name: Reavis Farms Inc.

Mailing Address: P.O.Box 720908

City, State, and Zip Code: McAllen, TX 78504

Phone Number: 956-207-1447

G. County Judge

Provide the name of the county judge in each county where the site is located. Attach an additional sheet if more than one county.

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

First and Last Name: Richard F. Cortez

Mailing Address: 100 E. Cano, Second Floor

City, State, and Zip Code: Edinburg, TX 78539

Phone Number: (956) 318-2600

Name of County: Hidalgo

SECTION 11. LAND APPLICATION INFORMATION

A. Provide the anticipated date (MM/DD/YY) of the first application of biosolids after issuance or re-issuance of the permit. NOTE: This date must be at least 330 days after the date TCEQ receives this application. Click here to enter text.

B. The application area is:

☐ within the city limit of: N/A

☐ within the extraterritorial jurisdiction of: N/A

☒ outside the extraterritorial jurisdiction of: N/A

C. Types of Waste

Identify the types of waste that will be land applied at this site.

☒ Wastewater Treatment Plant Class B Biosolids

☒ Water Treatment Plant Residuals

☐ Domestic Septage

D. Sources of Biosolids or Residuals

Provide the sources of generation, any water quality or public water supply permit number issued by TCEQ, and the location of the sources. Complete Table 1 for each source identified below.

Facility Name	Permit Number	Location
Rio Hondo WWTP	WQ0010475002	Rio Hondo, Tx
San Benito WTP	PWS 0310007	San Benito, TX

E. Property Acreage

Total acreage of the entire property, including the application area and buffer zones: 2,356.36 ac

F. Application Area Acreage

Total acreage where the biosolids may be applied, excluding the buffer zones: 655 ac

SECTION 12. MISCELLANEOUS INFORMATION

A. Did any person who was formerly employed by the TCEQ represent your company and get paid for service regarding this application?

Yes ☐ No ☒

If yes, provide the name(s) of the former TCEQ employee(s): Click here to enter text.

B. Is the site located on Indian Lands?

Yes ☐ No ☒

C. Is any permanent school fund land affected by this application?

Yes ☐ No ☒

If yes, provide the location, forseeable impacts, and effects this application has on the land(s).

D. Delinquent Fees and Penalties:

Do you owe fees to the TCEQ? Yes ☐ No ☒

Do you owe any penalties to the TCEQ? Yes ☐ No ☒

If you answered yes to either of the above questions, provide the amount owed, the type of fee or penalty, and an identifying number.

SECTION 13. AFFECTED LANDOWNER INFORMATION

A. Landowner map. Attach a landowner map or drawing. See instructions for information that must be displayed on the map.

Attachment Number: 2

B. Landowner list. Attach a list of the landowners' names and mailing addresses. The list must be cross-referenced to the letter or number identified on the landowner map.

Attachment Number: 3

C. Landowner list media. Indicate the format of the landowners list.

No landowners' live on adjacent property

☐ Read/Writeable CD

☒ 4 sets of mailing labels

D. Landowner data source. Provide the source of the landowners' names and mailing addresses. County Tax Records

SECTION 14. INSURANCE INFORMATION

This information is not required for an applicant that is a political subdivision (e.g. city, county, state agency, water district, etc.).

A. Commercial Liability Insurance

Attach a copy of the certificate of insurance in regard to commercial liability.

Attachment Number: 4

B. Environmental Impairment Insurance

Attach a copy of the certificate of insurance in regard to environmental impairment.

Attachment Number: 5

SECTION 15. MAPS AND ATTACHMENTS

A. TCEQ Core Data Form

Complete and submit a TCEQ Core Data Form (TCEQ-10400).

Attachment Number: 6

B. TCEQ Public Involvement Plan Form

Complete and submit a TCEQ Public Involvement Plan Form (TCEQ-20960) for new and major amendment applications.

Attachment Number: N/A

C. General Highway (County) Map

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

Attachment Number: 8

D. United States Geological Survey (USGS) Topographic Map

Submit an ORIGINAL United States Geological Survey (USGS) Topographic Map (1:24,000 scale). See instructions for information that must be displayed on the map.

Attachment Number: 9

E. USDA-NRCS Soil Map

Submit a legible copy of a USDA-NRCS Soil Map. See instructions for information that must be displayed on the map.

Attachment Number: 10

F. Federal Emergency Management Agency (FEMA) Map

Submit a copy of the FEMA map that shows the approximate application area boundaries, the surrounding area within one-quarter mile of the application area, and the appropriate legend.

Attachment Number: 11

G. Nutrient Management Plan

Attach a copy of the nutrient management plan that has been prepared by a certified nutrient management specialist, in accordance with the NRCS.

Attachment Number: 12

H. TCEQ Transporters Registration Approval Documents

Attach a copy of the TCEQ Transporters Registration approval documents.

Attachment Number: 13

I. Soil Analysis

Attach a copy of the soil laboratory analysis for the application area.

Attachment Number: 14

H. Biosolids or Residuals Analyses

Attach a laboratory analysis for each source.

Attachment Number: 15

I. Metal and Nutrient Concentrations (Table 1)

Use the laboratory analyses to complete Table 1 for each source.

J. Volume Weighted Averages of Metal and Nutrient Concentrations (Table 2)

If more than one source of biosolids or residuals are land applied, complete Table 2.

K. Agronomic Rate Calculations (Appendix A)

Determine the agronomic application rate by completing and attaching Appendix A.

L. Pathogen Reduction Options (Appendix B)

Identify the pathogen reduction options by completing and attaching Appendix B.

M. Vector Attraction Reduction Options (Appendix C)

Identify the vector attraction reduction options by completing and attaching Appendix C.

N. On-Site Storage (Appendix D)

If on-site storage will occur at this site, complete and attach Appendix D.

LABORATORY ACCREDITATION

All laboratory tests performed must meet the requirements of 30 TAC Chapter 25, *Environmental Testing Laboratory Accreditation and Certification*, unless the laboratory meets 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;
  - located in another state and is accredited or inspected by that state;
  - 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.

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: Gabe Timby

Title: Sr Director of Environmental-Central Region

Signature: _____ Date: 6-4-24

SITE OPERATOR SIGNATURE PAGE

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

Permit Number: WQ0004861000

Applicant: Denali Water Solutions LLC

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

I certify, under penalty of law, that all information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine, imprisonment for violations, and revocation of this permit.

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

Signatory Name: Todd Sims

Title: Executive Vice President - Central

Signature (use blue ink): _____ Date: 2.28.24

SUBSCRIBED AND SWORN to before me by the said Todd Sims on this 28th day of February, 2024

My commission expires on the 6th day of January, 2033

(Seal)

GABRIEL G TIMBY
MY COMMISSION EXPIRES
01-06-2033
NOTARY PUBLIC
COMM. # 12722125
WASHINGTON COUNTY - ARKANSAS

_____
Notary Public

Washington
County, ~~Texas~~ AR

LANDOWNER SIGNATURE PAGE

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

Permit Number: WQ0004861000

Applicant: Denali Water LLC

I certify, as the owner of the land described in this permit application, that I have all rights and covenants to authorize the applicant to use this site for the land application of Biosolids and Water Treatment __ (*identify the type(s) of waste*). I understand that 30 TAC Chapter 312 requires me to make a reasonable effort to see that the applicant complies with the requirements in 30 TAC Chapter 312, the conditions set forth in this application, and any additional conditions as required by the TCEQ. I also certify, under penalty of law, that all information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine, imprisonment for violations, and revocation of the permit.

Signatory Name: Wayne Reavis

Title: President

Signature (use blue ink): Wayne Reavis Date: 12-6-23

SUBSCRIBED AND SWORN to before me by the said Wayne Reavis on

this 6th day of December, 20 23

My commission expires on the 6th day of January, 20 33

(Seal)

GABRIEL G TIMBY
NOTARY PUBLIC
MY COMMISSION EXPIRES 01-06-2033
COMM. # 12122123
WASHINGTON COUNTY - ARKANSAS

Notary Public

Washington County, ~~Texas~~ AR

TECHNICAL REPORT
FOR BENEFICIAL LAND USE OF CLASS B BIOSOLIDS

Note: The term "biosolids" also includes the combination of water treatment plant residuals with Class B Biosolids material.

SECTION 1. SITE HISTORY

Have biosolids or septage been previously land applied at this site?

☒ Yes ☐ No

If Yes, provide a short narrative on the agricultural practices previously used at the site. The narrative must discuss the following elements:

- crops grown;
- tillage practices;
- previous biosolids application amount (dry tons) and rates (dry tons per acre); and
- previous septage application amount (gallons) and rates (gallons per acre).

The primary crop to be grown on this property is costal Bermuda for hay and grazing cattle. Discing will take place whenever the field condition warrants.Planting and reseeding will take place depending up on weather and soil conditions. Application will be annually. It will be spread evenly over the field with a commercial-grade spreader in a consistent and uniform manner. Material may or may not be immediately incorporated via disking. Application will be at the appropriate rate. There has been a total of 4585 DT or 7 DT per acre spread on this farm during the previous permit cycles. No septage has been spread.

SECTION 2. PROPOSED LAND APPLICATION ACTIVITIES

Provide a short narrative on the proposed land application activities at the site. The narrative must discuss the following elements:

- crops grown;
- planting dates;
- times per year applied;
- frequency of application; and
- tillage practices.

The primary crop to be grown on this property is costal Bermuda for hay and grazing cattle. Discing will take place whenever the field condition warrants.
Planting and reseeding will take place depending up on weather and soil conditions. Application will be annually. It will be spread evenly over the field with a commercial-grade spreader in a consistent and uniform manner. Material may or may not be immediately incorporated via disking. Application will be at the appropriate rate.

SECTION 3. SOIL INFORMATION

A. Soil Properties

Complete the table below using the Physical and Chemical Properties and the Engineering Tables found in the USDA Natural Resources Conservation Service (NRCS) soils descriptions.

Map Symbol	Soil Type	Slope	pH	Depth to Bedrock* (inches)	Depth to Groundwater (feet)	Permeability (inches/hour)	Soil Depth** (inches)
3	Brennan fine sandy loam	0-1%		>80	>6	0.57 to 1.98	>80
4	Brennan fine sandy loam	0-3%		>80	>6	0.57 to 1.98	>80
35	McAllen fine sandy loam	0-1%		>80	>6	0.57 to 1.98	>80
36	McAllen Fine Sandy Loam	1-3%		>80	>6	0.57 to 1.98	>80
38	McAllen sandy clay loam	0-1%		>80	>6	0.57 to 1.98	>80
50	Ramadero sandy clay loam	0-1%		>80	>6	0.57 to 1.98	>80
51	Cuevitas-Randado complex	0-3		>80	>6	0.00 to 0.20	>80
60	Rio clay loam	0-1%		>80	0	0.06 to 0.20	>80

* If depth to bedrock is not specified in the soil survey, use the maximum depth shown.
** If soil depth is less than two feet, provide rationale for using these shallow soils. The rationale should include site specific investigation results.

B. Restrictive Soil Characteristics

In the table below, identify all soils that have the following restrictive characteristics and the management practices to be used.

- Soils with at least an “occasional flooding” classification may flood between 5 to 50 times in 100 years;
- Soil permeability of >6 inches per hour; and
- Seasonal groundwater or groundwater table below the treatment zone at least:
  - 3 feet for soil with permeability of <2 inches per hour
  - 4 feet for soil with permeability of 2-6 inches per hour.

Soil Type	Restrictive Characteristic	Best Management Practices
Rio clay loam	Ponding, concave	Buffer, no land app

SECTION 4. WELL INFORMATION

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

Well Type (Water Well, Oil Well, Injection Well)	Producing or Non-Producing	Open, Cased, or Capped*	Protective Measures**
See Attachment 9 (maps)			150' buffer zone

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

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

SECTION 5. HYDROLOGIC CHARACTERISTICS

Submit information listed below, or equivalent documentation, regarding the hydrologic characteristics of the surface and groundwater at the application site and within one-quarter mile of the site.

- Aquifer identification per Texas Water Development Board Report 345
- Location of the area according to the Geologic Atlas of Texas, published by the University of Texas, Bureau of Economic Geology.
- Any feature that exhibits a direct hydrologic connection between surface and subsurface water.
- List periods of seasonal perched and/or high water table, if any.

Attachment Number: 16

TABLE 1 - Pollutant and Nutrient Concentrations in Sewage Sludge (for each source)

Facility Name	TCEQ Permit Number
Rio Hondo WWTP	WQ0010475002

The concentration listed in column two are from 312.43(b)(1) Table 1

Pollutant/Metal Analysis

Pollutant	Maximum Concentration mg/kg dry weight	Test Results mg/kg dry weight	Sample Date	Detection Level for Analysis	Sample Method
Arsenic (As)	75	4.81	3/21/2024	4.9	EPA 6010D
Cadmium (Cd)	85	1.17	3/21/2024	0.4	EPA 6010D
Chromium (Cr)	3,000	20.7	3/21/2024	1	EPA 6010D
Copper (Cu)	4,300	1430	3/21/2024	1	EPA 6010D
Lead (Pb)	840	14.4	3/21/2024	4	EPA 6010D
Mercury (Hg)	57	0.245	3/21/2024	0.008	EPA 7471B
Molybdenum (Mo)	75	26.5	3/21/2024	0.99	EPA 6010D
Nickel (Ni)	420	30.7	3/21/2024	0.99	EPA 6010D
Selenium (Se)	100	8.6	3/21/2024	6.9	EPA 6010D
Zinc (Zn)	7,500	2350	3/21/2024	0.99	EPA 6010D
PCB (ppm)	2	0.969	3/21/2024	0.969	EPA-8082

Nutrient Analysis

Nutrient	Concentration (%)	Sample Date	Detection Level for Analysis	Sample Method
Total Kjeldahl Nitrogen (TKN)	2.5	3/21/2024	1000	SM 4500-Norg C 2011
Ammonium Nitrogen (NH_4-N)	1.07	3/21/2024	100	SM 4500-NH3 B,G 2011
Nitrate Nitrogen (NO_3-N)	0.000876	3/21/2024	1	EPA 9056A
Phosphorus (P)	1.38	3/21/2024	100	EPA 6010C
Potassium (K)	0.2	3/21/2024	100	EPA 6010C

TABLE 1 - Pollutant and Nutrient Concentrations in Sewage Sludge (for each source)

Facility Name	TCEQ Permit Number
San Benito WTP	PWS 0310007

The concentration listed in column two are from 312.43(b)(1) Table 1

Pollutant/Metal Analysis

Pollutant	Maximum Concentration mg/kg dry weight	Test Results mg/kg dry weight	Sample Date	Detection Level for Analysis	Sample Method
Arsenic (As)	75	20.7	12/20/2023	5	EPA 6010D
Cadmium (Cd)	85	7.88	12/20/2023	7.88	EPA 6010D
Chromium (Cr)	3,000	15.8	12/20/2023	15.8	EPA 6010D
Copper (Cu)	4,300	234	12/20/2023	1	EPA 6010D
Lead (Pb)	840	15.8	12/20/2023	15.8	EPA 6010D
Mercury (Hg)	57	0.101	12/20/2023	0.0284	EPA 7471B
Molybdenum (Mo)	75	7.8	12/20/2023	7.8	EPA 6010D
Nickel (Ni)	420	8.54	12/20/2023	0.5	EPA 6010D
Selenium (Se)	100	15.8	12/20/2023	15.8	EPA 6010D
Zinc (Zn)	7,500	4.3	12/20/2023	0.5	EPA 6010D
PCB (ppm)	2	0.719	12/20/2023	0.719	EPA-8082

Nutrient Analysis

Nutrient	Concentration (%)	Sample Date	Detection Level for Analysis	Sample Method
Total Kjeldahl Nitrogen (TKN)	0.713	12/20/2023	1000	SM 4500-Norg C 2011
Ammonium Nitrogen (NH_4-N)	0.0153	12/20/2023	100	SM 4500-NH3 B,G 2011
Nitrate Nitrogen (NO_3-N)	0.000324	12/20/2023	1	EPA 9056A
Phosphorus (P)	0.0951	12/20/2023	100	EPA 6010C
Potassium (K)	0.367	12/20/2023	100	EPA 6010C

TABLE 2 - Volume Weighted Average (Mean) of Nutrient and Pollutant Concentration

Directions:

1. Multiply the Pollutant Concentrations from Table 1 (previous page) by the number of dry tons you expect to apply from that facility.
2. Multiply each pollutant and nutrient concentration from Table 1 with the number of dry tons. Enter the result in the appropriate box.
3. Sum the individual columns. Enter results in last row of the table.
4. Divide the sum of each column by the dry tons sum (bottom of second column). Enter number in the appropriate Volume Weighted Average Box (row below table).
5. Use these final results to complete the table in Step 1 of Appendix A.

		Pollutant Concentrations (Table 1) x Dry Tons (mg/kg dry weight)										Nutrient Conc.(Table 1) x Dry tons (%)				
TCEQ Permit No.	Estimated Dry Tons *	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn	TKN	NH_4-N	NO_3-N	P	K
WQ0010475002	50	240.5	58.5	1035	71500	720	12.25	1325	1535	430	117500	125	53.5	0.0438	69	10
PWS 0310007	30	621	236.4	474	7020	474	3.03	234	256.2	474	129	21.39	0.459	0.00972	2.853	11.01
Totals	80	861.5	294.9	1509	78520	1194	15.28	1559	1791.2	904	117629	146.39	53.959	0.05352	71.853	21.01
Volume Weighted Average		10.76875	3.68625	18.8625	981.5	14.925	0.191	19.4875	22.39	11.3	1470.3625	1.829875	0.6744875	0.000669	0.8981625	0.262625

* Total estimated dry tons to be land applied from source facility. (Needed for volume weighted calculation).

APPENDIX A
AGRONOMIC RATE CALCULATIONS

Note: If the agronomic rate exceeds 40 tons/acre/year, there is likely to be a miscalculation or lab analysis problem. Please check all calculations and analysis before submitting.

Part 1: Sewage Sludge Application Rate

Step 1. Calculate Quantity of Nutrients and Metals in Sludge in Pounds Per Ton (# / Ton).

Nutrients	(%) nutrient in sludge *	Conversion Factor	Pounds per Ton
Total Nitrogen (TKN)	1.8299	x 20	36.5975
Ammonium (NH_4-N)	0.6745	x 20	13.4898
Nitrate (NO_3-N)	0.0007	x 20	0.0134
Total Phosphrous (P)	0.8982	x 20	17.9633
Total Potassium (K)	0.2626	x 20	5.2525

Metals	metal in sludge (mg/kg) *	Conversion Factor	Pounds per Ton
Total Arsenic	10.7688	x 0.002	0.0215
Total Cadmium	3.6863	x 0.002	0.0074
Total Chromium	18.8625	x 0.002	0.0377
Total Copper	981.5000	x 0.002	1.9630
Total Lead	14.9250	x 0.002	0.0299
Total Mercury	0.1910	x 0.002	0.0004
Total Molybdenum	19.4875	x 0.002	0.0390
Total Nickel	22.3900	x 0.002	0.0448
Total Selenium	11.3000	x 0.002	0.0226
Total Zinc	1470.3625	x 0.002	2.9407

* Values from the sludge tests (dry weight only).

(Conversions: mg/kg ÷10,000 =% ; PPM = mg/kg)

Step 2 - Soil Test Analysis and Fertilizer Recommendations **Field:** 1

Note: Please include a fertilizer recommendation from the local County Extension Service for determining the nutrient needed by the specified crop(s).

Yield Goal (s): 10 tons/acre/year pH: 7.92

Warm Season Intended Crop(s): Bermuda Grass Pasture / Hay

Cool Season Intended Crop(s): Rye Grass

Total Nutrient Needed by crop for specific yield goal: 320 (Include in Line A)

	N (lbs./acre)
A. Nutrient needed by crop for specific yield goal **	320
B. Nutrient available in soil [=2 x NO_3-N(ppm)(0-6" soil depth)+6 x NO_3-N(ppm)(6-24" soil depth)]**	70
C. Nutrient amount still needed [=Nutrient needed-Nutrient available] (enter this amount in Step 4A.)	250

**Please provide the means of determining these values.
Crop nutrient needs from Nutrient Management Plan. Soil nitrogen from annual soil analysis

Step 3 - Calculate the Plant Available Nitrogen (PAN) Provided by the Sludge

(Use the values for Total N,NH_4-N and NO_3-N from Step 1)

A. Organic Nitrogen = Total N - (NH4-N) - (NO3-N) =					23.09
(Multiply the percent values in Appendix C for PAN)		X	30%	=	6.93
B. Ammonium Nitrogen (NH4-N) x V=	13.49	X	0.5	+	6.74
Use Volatization factor (V) = 0.5 if sludge is left on soil surface:					
Use Volatization factor (V) = 1.0 if sludge is worked into soil.					
C. Nitrate Nitrogen (NO3-N) =				+	0.01
D. 3A + 3B + 3C = (enter this amount in Step 4B.) Total PAN					13.69

Step 4 - Calculate Maximum Sludge Application Rate Based on Crop Nitrogen Needs (SAR_N)

A. Enter the amount from Step 2. Nitrogen amount still needed.					250	lbs/acre/year
B. Enter amount from Step 3D. Total PAN in sludge:					13.69	lbs/ton
C. Sludge Application Rate (SAR_N) =	250	÷	13.69	=	18.27	tons/acre/year
					12 tons/acre/year Max	

STEP 5 - CALCULATE MAXIMUM SLUDGE APPLICATION RATE BASED ON METALS (SAR_M)

	A	B	C	D	E	F
	CUMULATIVE METAL LIMITS (lbs/acre)	MAX METAL LOADING/YR (lbs/ac/yr)	METALS IN SLUDGE (lbs/ton)	METALS APPLIED YEARLY AT (SAR_N) (lbs/acre/yr)	METALS APPLIED YEARLY AT (SAR_M) (tons/acre/yr)	MAX SLUDGE LOADING RATE (tons/acre)
METAL	Appendix C	Appendix C	(Step 1)	(C x SAR_N)	(B ÷ C)	(A ÷ C)
Arsenic	36	1.8	0.0215	0.393	83.58	1671.50
Cadmium	35	1.7	0.0074	0.135	230.59	4747.37
Chromium	2677	134	0.0377	0.689	3,552.02	70960.90
Copper	1339	67	1.9630	35.856	34.13	682.12
Lead	268	13	0.0299	0.545	435.51	8978.22
Mercury	15	0.76	0.0004	0.007	1,989.53	39267.02
Molybdenum	Monitor	Monitor	0.0390	0.712	NA	NA
Nickel	375	18.7	0.0448	0.818	417.60	8374.27
Selenium	89	4.5	0.0226	0.413	199.12	3938.05
Zinc	2500	125	2.9407	53.716	42.51	850.13
Other						

Note: For each metal, if the value in Column B is greater than the value in Column D (B>D), the SAR_N dictates the maximum sludge application rate. Therefore, indicate N/A in Column E. If however, the value in Column B is less than the value in Column D (B<D), then the SARM dictates the maximum sludge application rate and the value is E = B ÷ C.

STEP 6 - CALCULATE CUMULATIVE LOADING RATE

A. Maximum allowable cumulative sludge loading rate (lowest value in Step 5, Column F): 682.12 tons/acre

B. Previous applications of sludge: 7 tons/acre

C. Remaining sludge application rate to reach metal limits (6A - 6B) 675.12 tons/acre

D. Maximum allowable sludge application rate (Lowest value of Step 4C and Step 5 Column E) 18.27 tons/acre/year

12 tons/year max

E. Years remaining to reach the maximum cumulative loading (6C ÷ 6D) 36.96 years

APPENDIX B
PATHOGEN REDUCTION REQUIREMENTS

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

TCEQ Permit Number	Pathogen Reduction Alternative Used	Fecal Coliform Geometric Mean (cfu/gram total solids)*	Fecal Test Date*	Is PSRP Certification Attached?** (Yes/No/NA)
WQ0010475002	Option 1: Density of Fecal Coliform	59,739 cfu/g	3/21/20024	NA
	Choose an item.			
	Choose an item.			
	Choose an item.			
	Choose an item.			
	Choose an item.			
	Choose an item.			
	Choose an item.			
	Choose an item.			
	Choose an item.			
	Choose an item.			
	Choose an item.			

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

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

APPENDIX C
VECTOR ATTRACTION REDUCTION REQUIREMENTS

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

TCEQ Permit Number	Vector Attraction Reduction Alternative Used*	Monitoring Criteria and results needed for alternative
WQ0010475002	Option 4: SOUR <=1.5 mg 02/hr/g total solids at 20C (<2% solids)	Aerobically digested, 2.0% solids, SOUR=0.0758 mgO2/hr/g
	Choose an item.	
	Choose an item.	
	Choose an item.	
	Choose an item.	
	Choose an item.	
	Choose an item.	
	Choose an item.	
	Choose an item.	

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

ATTACHMENT 1.

Public Involvement Plan

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. Application Information

Type of Application (check all that apply):

Air ☐ Initial ☐ Federal ☐ Amendment ☐ Standard Permit ☐ Title V

Waste ☐ Municipal Solid Waste ☐ Industrial and Hazardous Waste ☐ Scrap Tire
☐ Radioactive Material Licensing ☐ Underground Injection Control

Water Quality

☐ Texas Pollutant Discharge Elimination System (TPDES)

- ☐ Texas Land Application Permit (TLAP)
- ☐ State Only Concentrated Animal Feeding Operation (CAFO)
- ☐ Water Treatment Plant Residuals Disposal Permit

☒ Class B Biosolids Land Application Permit

☐ Domestic Septage Land Application Registration

Water Rights New Permit

☐ New Appropriation of Water

☐ New or existing reservoir

Amendment to an Existing Water Right

☐ Add a New Appropriation of Water

☐ Add a New or Existing Reservoir

☐ Major Amendment that could affect other water rights or the environment

Section 4. Plain Language Summary

Provide a brief description of planned activities.

this is a renewal of an existing class B biosolids and WTP residuals land application permit to farm fields.

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.

La Joya

(City)

Hidalgo

(County)

ZCTA5 78560

(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

31

(b) Per capita income for population near the specified location

51,637

(c) Percent of minority population and percent of population by race within the specified location

97.3

(d) Percent of Linguistically Isolated Households by language within the specified location

(e) Languages commonly spoken in area by percentage

spanish

(f) 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, answering the remaining questions in Section 6 is not required.

(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) Speer Memorial Library 801 E. 12th St. Mission TX

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)

<u>ATTACHMENT 2.</u>

Landowner Map

N
W E
S

Adjacent Landowner Map
Reavis South

0 0.075 0.15 0.3 0.45 0.6 Miles

Albers Projection
Central Meridian: -96
1st Std Parallel: 20
2nd Std Parallel: 60
Latitude of Origin: 40

ESRI

ATTACHMENT 3.

Landowner List

1
EMMA G ELIZONDO
118 COTILLION DR
SAN ANTONIO TX 78213

2
EDUARDO CANTU
1824 Wendy Dr
EDINBURG TX 78539

3
RUBEN PALACIOS GARZA ET AL
2194 E HIGHWAY 285
FALFURRIAS TX 78355

4
CANTU EE FAMILY LTD PTNRSHP
1824 WENDY DR
EDINBURG TX 78539

5
CANTU FAMILY TRUST ET AL
1824 Wendy Dr
EDINBURG TX 78539

6
RUFINO GARZA
3779 N BENTSEN PALM DR
MISSION TX 78574

7
L & G MATERIALS LLC
2100 W EXPRESSWAY 83
MERCEDES TX 78570

8
DANIEL & RICHARD E BUTLER II ET AL
PO BOX 1208
BROWNSVILLE TX 78522

9
WESLEY JEFF VANDERPOOL JR ETAL
112 W QUEEN ISABELLA SUITE B
PORT ISABEL TX 78578

10
REAVIS FARMS INC
PO BOX 720908
MCALLEN TX 78504

No land owners live on property

ATTACHMENT 4.

Commercial Liability Insurance

CERTIFICATE OF INSURANCE FOR COMMERCIAL LIABILITY

Name and Address of Insurer (herein called the "Insurer"):

Argo Environmental (Colony Insurance Company); 90 Pitts Bay Road, Pembroke, HM 08 Bermuda

Name and Physical and Mailing Addresses of Insured (herein called the "Insured"):

First Named Insured:
Dispatch Parent, LLC
3308 Bernice Ave., Russellville, AR 72802

Additional Insured:
Texas Commission on Environmental Quality
Physical Address: 12100 Park 35 Circle. MC 184. Austin. TX 78753
Mailing Address: MC 184. P.O. Box 13087. Austin TX 78711-3087

Facilities covered:

Landowner	Longitude	Latitude	County	Location	Mailing Address
Reavis Farm 0004463000	98 Deg 30'	26 Deg	Hidalgo	1.25 mi. W of intersection of FM 2221 and Seven Mile Rd.	P.O Box 3036, Russellville, AR 72811
Reavis South Farm 0004861000	98 Deg 30'	26 Deg	Hidalgo	1.25 mi. W of intersection of FM 2221 and Seven Mile Rd.	P.O Box 3036, Russellville, AR 72811
Davis Ranch WQ0005379000	97 Deg 43'	26 Deg 05'	Cameron	South Side of the intersection of HWY 100 and FM 3069, 2.5 Miles East of Los Fresnos, TX	P.O Box 3036, Russellville, AR 72811
Reavis - McCook South Farm WQ0004924000	98 deg 25'	26 deg	Hidalgo	NE corner of intersection of CR 3239 and Mile 16 Rd., approx. 1.78 mi. south of the intersection of FM 490 and CR 3239, approx. 2.75 mi. W of McCook, TX	P.O Box 3036, Russellville, AR 72811
Garza Trust Farm WQ0005286000	98 deg 29'	22 deg	Hidalgo	NE corner of intersection of CR 2380 and Mile 7 Road in Hidalgo County	P.O Box 3036, Russellville, AR 72811
					P.O Box 3036, Russellville, AR 72811
Henderson Liberty Farms WQ0004460000	94 deg 30'	30 deg 331	Liberty	Adjacent intersection of Devers Woods Rd and FM 61	P.O Box 3036, Russellville, AR 72811

Paul Sloan Farm WQ0004989000	98 Deg 32'	32 Deg 12'	Navarro	476 Brookshire St Powell, TX	P.O Box 3036, Russellville, AR 72811
Sanchez Farm WQ0005291000	96 deg 10'	32 Deg 36'	Kaufman	NW Side of CR 104A, Approx .25 mile East of intersection of CR 104 and CR 104A	P.O Box 3036, Russellville, AR 72811
					P.O Box 3036, Russellville, AR 72811
Garza Farm Pending	98 deg 28'	26 deg	Hidalgo	I .7 miles north of intersection of Mile 7 Road and FM 2221	P.O Box 3036, Russellville, AR 72811
Carrales Ranch Pending	98 deg 28'	26 deg	Hidalgo	0.25 miles southeast of intersection of Mile 7 road and FM 2221	P.O Box 3036, Russellville, AR 72811
Kevin Carter Mabank Farm	-96.031195	32.396245	Van Zandt	500 VZ CR 2808, Mabank, TX	P.O Box 3036, Russellville, AR 72811
Kevin Carter Seven Points Farm	-96.272258	32.323078	Henderson	N of intersection of Hwy 85 & CR 2139	P.O Box 3036, Russellville, AR 72811

Primary Limits (PACE4279461): $1,000,000 Per Occurrence / $2,000,000 Aggregate

Excess Limits (EXC4279462): $5,000,000 Per Occurrence / $5,000,000 Aggregate

Policy Number: PACE4279461 (Primary) and EXC4279462 (Excess)

Effective Date: 6/30/2023 - 6/30/2024

The Insurer hereby certifies that it has issued to the Insured a commercial liability policy of insurance identified above to provide coverage for bodily injury and property damage to compensate persons injured or property damaged as a result of Class B sewage sludge land application at the facilities identified above.

The Insurer further warrants that such policy conforms in all respects with the requirements of 30 Texas Administrative Code (TAC) §37.9100 (relating to Commercial Liability Insurance), as applicable and as such regulations were constituted on the date shown immediately below. It is agreed that any provision of the policy inconsistent with such regulations is hereby amended to eliminate such inconsistency.

Whenever requested by the executive director of the Texas Commission on Environmental Quality, the Insurer agrees to furnish to the executive director a duplicate original of the policy listed above, including all endorsements thereon.

I hereby certify that the wording of this certificate is identical to the wording specified in 30 TAC §37.9145 (relating to Certificate of Insurance for Commercial Liability) as such regulations were constituted on the date shown immediately below. The undersigned Insurer certifies that it is authorized to transact or be a surplus lines insurer eligible to engage in the business of insurance in Texas and it has a minimum financial strength rating of A- as assigned by the A.M. Best Company.

Authorized signature of Insurer:

Joy Christie

Name of person signing: Joy Christie

Title of person signing: Vice President

Date: 7/12/2023

ATTACHMENT 5

Environmental Impairment Insurance

CERTIFICATE OF INSURANCE FOR ENVIRONMENTAL LIABILITY

Name and Address of Insurer (herein called the "Insurer"):

Argo Environmental (Colony Insurance Company); 90 Pitts Bay Road, Pembroke, HM 08 Bermuda

Name and Physical and Mailing Addresses of Insured (herein called the "Insured"):

First Named Insured:
Dispatch Parent, LLC
3308 Bernice Ave., Russellville, AR 72802

Additional Insured:
Texas Commission on Environmental Quality
Physical Address: 12100 Park 35 Circle. MC 184. Austin. TX 78753
Mailing Address: MC 184. P.O. Box 13087. Austin TX 78711-3087

Facilities covered:

Landowner	Longitude	Latitude	County	Location	Mailing Address
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Reavis South Farm 0004861000	98 Deg 30'	26 Deg	Hidalgo	1.25 mi. W of intersection of FM 2221 and Seven Mile Rd.	P.O Box 3036, Russellville, AR 72811
Davis Ranch WQ0005379000	97 Deg 43'	26 Deg 05'	Cameron	South Side of the intersection of HWY 100 and FM 3069, 2.5 Miles East of Los Fresnos, TX	P.O Box 3036, Russellville, AR 72811
Reavis - McCook South Farm WQ0004924000	98 deg 25'	26 deg	Hidalgo	NE corner of intersection of CR 3239 and Mile 16 Rd., approx. 1.78 mi. south of the intersection of FM 490 and CR 3239, approx. 2.75 mi. W of McCook, TX	P.O Box 3036, Russellville, AR 72811
Garza Trust Farm WQ0005286000	98 deg 29'	22 deg	Hidalgo	NE corner of intersection of CR 2380 and Mile 7 Road in Hidalgo County	P.O Box 3036, Russellville, AR 72811
					P.O Box 3036, Russellville, AR 72811
Henderson Liberty Farms WQ0004460000	94 deg 30'	30 deg 331	Liberty	Adjacent intersection of Devers Woods Rd and FM 61	P.O Box 3036, Russellville, AR 72811

Paul Sloan Farm WQ0004989000	98 Deg 32'	32 Deg 12'	Navarro	476 Brookshire St Powell, TX	P.O Box 3036, Russellville, AR 72811
Sanchez Farm WQ0005291000	96 deg 10'	32 Deg 36'	Kaufman	NW Side of CR 104A, Approx .25 mile East of intersection of CR 104 and CR 104A	P.O Box 3036, Russellville, AR 72811
					P.O Box 3036, Russellville, AR 72811
Garza Farm Pending	98 deg 28'	26 deg	Hidalgo	I .7 miles north of intersection of Mile 7 Road and FM 2221	P.O Box 3036, Russellville, AR 72811
Carrales Ranch Pending	98 deg 28'	26 deg	Hidalgo	0.25 miles southeast of intersection of Mile 7 road and FM 2221	P.O Box 3036, Russellville, AR 72811
Kevin Carter Mabank Farm	-96.031195	32.396245	Van Zandt	500 VZ CR 2808 Mabank, TX	P.O Box 3036, Russellville, AR 72811
Kevin Carter Seven Points Farm	-96.272258	32.323078	Henderson	N of intersection of 32.323078 Hwy 85 & CR 2139	P.O Box 3036, Russellville, AR 72811

Primary Limits (PACE4279461): $1,000,000 Per Occurrence / $2,000,000 Aggregate

Excess Limits (EXC4279462): $5,000,000 Per Occurrence / $5,000,000 Aggregate

Policy Number: PACE4279461 (Primary) and EXC4279462 (Excess)

Effective Date: 6/30/2023 - 6/30/2024

The Insurer hereby certifies that it has issued to the Insured an environmental impairment policy of insurance identified above to provide financial assurance for corrective action related to the facilities above. The Insurer further warrants that such policy conforms in all respects with the requirements of 30 Texas Administrative Code (TAC) §37.9105 (relating to Environmental Impairment Insurance), as applicable and as such regulations were constituted on the date shown immediately below.

It is agreed that any provision of the policy inconsistent with such regulations is hereby amended to eliminate such inconsistency.

Whenever requested by the executive director of the Texas Commission on Environmental Quality, the Insurer agrees to furnish to the executive director a duplicate original of the policy listed above, including all endorsements thereon.

I hereby certify that the wording of this certificate is identical to the wording specified in 30 TAC §37.9155 (relating to Certificate of Insurance for Environmental Impairment) as such regulations were constituted on the date shown immediately below. The undersigned Insurer certifies that it is authorized to transact or be a surplus lines insurer eligible to engage in the business of insurance in Texas and it has a minimum financial strength rating of A- as assigned by the A.M. Best Company.

Authorized signature of Insurer:

Joy Christie

Name of person signing: Joy Christie

Title of person signing: Vice President

Date: 7/12/2023

ATTACHMENT 6.

Core Data Forms

TCEQ Use Only

TCEQ Core Data Form

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

SECTION I: General Information

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

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

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

2. Customer Reference Number *(if issued)*	Follow this link to search for CN or RN numbers in Central Registry**	3. Regulated Entity Reference Number *(if issued)*
CN		RN 105616734

SECTION II: Customer Information

4. General Customer Information	5. Effective Date for Customer Information Updates (mm/dd/yyyy)	1/14/2025

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

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

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

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

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

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

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

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

☒ Owner ☐ Operator ☐ Owner & Operator
☐ Occupational Licensee ☐ Responsible Party ☐ Voluntary Cleanup Applicant ☐ Other:

15. Mailing Address:								
	Reavis Farms Inc.							
	P.O.Box 720908							
	City	McAllen	State	TX	ZIP	78504	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)*
(956) 207-1447		( ) -

SECTION III: Regulated Entity Information

21. General Regulated Entity Information *(If 'New Regulated Entity" is selected below this form should be accompanied by a permit application)*

☐ 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 Agency 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.)*

Reavis South Farm

23. Street Address of the Regulated Entity: *(No PO Boxes)*	1.25 MI W OF INTXN FM 2221 & SEVEN MILE RD N IN HIDALGO COUNTY.							
	City	La Joya	State	TX	ZIP	78560	ZIP + 4	
24. County	Hidalgo							

Enter Physical Location Description if no street address is provided.

25. Description to Physical Location:	1.25 MI W OF INTXN FM 2221 & SEVEN MILE RD N IN HIDALGO COUNTY.				
26. Nearest City			State	Nearest ZIP Code	
La Joya			TX	78560	
27. Latitude (N) In Decimal:	26.284132		28. Longitude (W) In Decimal:	-98.503236	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds

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

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

Row Crops

34. Mailing Address:	c/o Denali Water Solutions LLC						
	P.O. Box 550						
	City	Russellville	State	AR	ZIP	72811	ZIP + 4
35. E-Mail Address:	neal.plummer@denaliwater.com						

36. Telephone Number	37. Extension or Code	38. Fax Number *(if applicable)*
(479) 858-8207		( ) -

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

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

SECTION IV: Preparer Information

40. Name:	Gabe Timby	41. Title:	Sr Director of Env.- Central
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(479) 518-1554		( ) -	gabe.timby@denaliwater.com

SECTION V: Authorized Signature

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

Company:	Denali Water Solutions LLC	Job Title:	Environmental Manager-Central Region
Name *(In Print)*:	Gabe Timby	Phone:	(479) 518- 1554
Signature:		Date:	6-4-24

TCEQ Use Only

TCEQ Core Data Form

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

SECTION I: General Information

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

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

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

2. Customer Reference Number *(if issued)*	Follow this link to search for CN or RN numbers in Central Registry**	3. Regulated Entity Reference Number *(if issued)*
CN 604718486		RN 105616734

SECTION II: Customer Information

4. General Customer Information	5. Effective Date for Customer Information Updates (mm/dd/yyyy)	1/14/2025

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

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

6. Customer Legal Name *(If an individual, print last name first: eg: Doe, John)*	*If new Customer, enter previous Customer below:*
Denali Water Solutions LLC	

7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number *(if applicable)*
0801439270	32044463894	710774612	

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

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

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

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

☐ Owner ☒ Operator ☐ Owner & Operator
☐ Occupational Licensee ☐ Responsible Party ☐ Voluntary Cleanup Applicant ☐ Other:

15. Mailing Address:							
	Denali Water Solutions LLC						
	P.O. Box 550						
	City	Russellville	State	AR	ZIP	72811	ZIP + 4

16. Country Mailing Information *(if outside USA)*	17. E-Mail Address *(if applicable)*
	gabe.timby@denaliwater.com

18. Telephone Number	19. Extension or Code	20. Fax Number *(if applicable)*
(479) 518-1554		( ) -

SECTION III: Regulated Entity Information

21. General Regulated Entity Information *(If 'New Regulated Entity" is selected below this form should be accompanied by a permit application)*

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

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

Reavis South Farm

23. Street Address of the Regulated Entity: *(No PO Boxes)*	1.25 MI W OF INTXN FM 2221 & SEVEN MI RD IN HIDALGO COUNTY							
	City	La Joya	State	TX	ZIP	78560	ZIP + 4	
24. County	Hidalgo							

Enter Physical Location Description if no street address is provided.

25. Description to Physical Location:	1.25 MI W OF INTXN FM 2221 & SEVEN MI RD IN HIDALGO COUNTY				
26. Nearest City			State	Nearest ZIP Code	
La Joya			TX	78560	
27. Latitude (N) In Decimal:	26.284132		28. Longitude (W) In Decimal:	-98.503236	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds

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

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

hay and pasture

34. Mailing Address:	c/o Denali Water Solutions, LLC							
	P.O. Box 550							
	City	Russellville	State	AR	ZIP	72811	ZIP + 4	
35. E-Mail Address:	neal.plummer@denaliwater.com							

36. Telephone Number	37. Extension or Code	38. Fax Number *(if applicable)*
(479) 518-1554		( ) -

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

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

SECTION IV: Preparer Information

40. Name:	Gabe Timby	41. Title:	Sr Director of Env. - Central

42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(479) 518-1554		( ) -	gabe.timby@denaliwater.com

SECTION V: Authorized Signature

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

Company:	Denali Water Solutions LLC	**Job Title:**	Sr Director of Env. - Central Region
Name *(In Print)*:	Gabe Timby	**Phone:**	(479) 518- **1554**
Signature:		**Date:**	6.4.24

ATTACHMENT 7.

Public Involvement Plan

See Attachment 1.

<u>Attachment 8.</u>

General Highway Map

Counties: **Hidalgo**

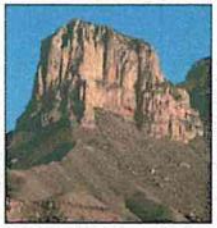
Reavis South

County Mapbook 2012

Legend

- IH, BI
- US, BU, UA, UP
- SH, BS
- SL, SS, PR
- FM, BF, RM, RR, RE, RS, PA
- County Road
- City Street or other Non-County Maintained Road
- Railroad
- Incorporated City
- Unincorporated Community
- Airport
- Airport
- Airport Runway
- School
- Military Installation
- Prison
- National or State Park
- Cemetery
- Dam
- County Line
- District Line
- Canal
- Flowing Stream
- Intermittent Stream
- River
- Gulf Intracoastal Waterway
- Other Body of Water

Table of Contents



Abbreviations

Roadways

IH = Interstate Highway
BI = Off Interstate Business Route
US = US Highway
UA = US Highway Alternate
UP = US Highway Spur
SH = State Highway
BS = Off State Highway Business/SH Alternate
BU = Off State Highway Business/US Alternate
SL = State Highway Loop
SS = State Highway Spur
PR = Park Road
FM = Farm to Market Road
RM = Ranch to Market Road
RR = Ranch Road
RE = Recreation Road
RP = Recreation Road Spur
FS = Farm to Market Spur
RS = Ranch to Market Spur
PA = Principal Arterial Street
BF = Off Farm or Ranch Road Business Route

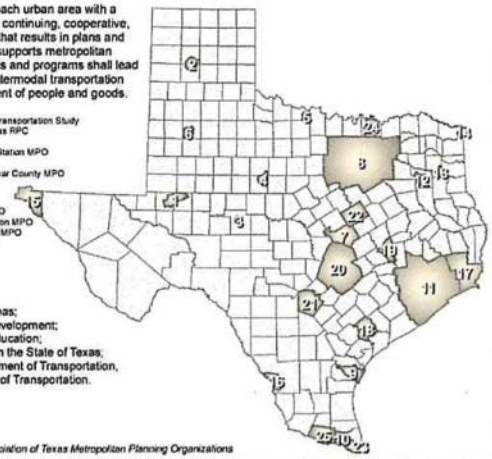
Miscellaneous

NF = National Forest
NHP = National Historic Park
NHS = National Historic Site
NM = National Monument
NP = National Park
NPS = National Park Service
NRA = National Recreation Area
NWR = National Wildlife Refuge
Res = Reservoir
SHP = State Historic Park
SNA = State Natural Area
SP = State Park
USFS = US Forest Service
USFWS = US Fish & Wildlife Service
WMA = Wildlife Management Area

Metropolitan Planning Organizations (MPO)

Federal law requires that an MPO be designated for each urban area with a population of 50,000 or more. The MPO will provide a continuing, cooperative, and comprehensive transportation planning process that results in plans and programs that consider all transportation modes and supports metropolitan community development and social goals. These plans and programs shall lead to the development and operation of an integrated, intermodal transportation system that facilitates the efficient, economic movement of people and goods.

1. Midland-Odessa Transportation Organization
2. Amarillo MPO
3. San Angelo MPO
4. Abilene MPO
5. Wichita Falls MPO
6. Lubbock MPO
7. Central Texas COG
8. North Central Texas COG
9. Corpus Christi MPO
10. Harlingen-San Benito MPO
11. Houston-Galveston Area Council
12. Tyler MPO
13. Longview MPO
14. Texarkana MPO
15. El Paso MPO
16. Laredo Urban Transportation Study
17. South East Texas RPC
18. Victoria MPO
19. Bryan-College Station MPO
20. CAMPO
21. San Antonio-Bexar County MPO
22. Waco MPO
23. Brownsville MPO
24. Sherman-Denison MPO
25. Hidalgo County MPO



Core Functions:

- Provide a conduit for exchange of information and ideas;
- Coordinate participation in state and federal policy development;
- Promote professional development and continuing education;
- Promote and develop better transportation planning in the State of Texas;
- Enhance working partnerships with the Texas Department of Transportation, and the various agencies within the U.S. Department of Transportation.

Metropolitan Planning Organization data source: TEMPO - Association of Texas Metropolitan Planning Organizations

About the Mapbook

Design

The County Mapbook divides the state into 551 maps. These maps are referenced using the grid index on the inside front cover.

Also contained within the Mapbook are feature indices and a reference map which are located in the front of the book.

The scale for core maps is 1:120,000 and one inch equals approximately 1.89 miles.

0 1 2 4 Miles

Navigation

Every map in the book is aligned with true geographic north. Additionally, each of the maps connects on one or more sides with surrounding maps, so you can follow a road north or south into the next county simply by turning the page.

The number highlighted in blue is the page number. Adjacent maps are indicated by the number highlighted in orange.

Connecting Page 83 No Adjoining Page - Map Page Page -131

Contact Information

Transportation Planning and Programming Division
Attn: Data Management Section
P.O. Box 149217
Austin, Texas 78714-9217

Phone: (512) 486-5052
Fax: (512) 486-5099

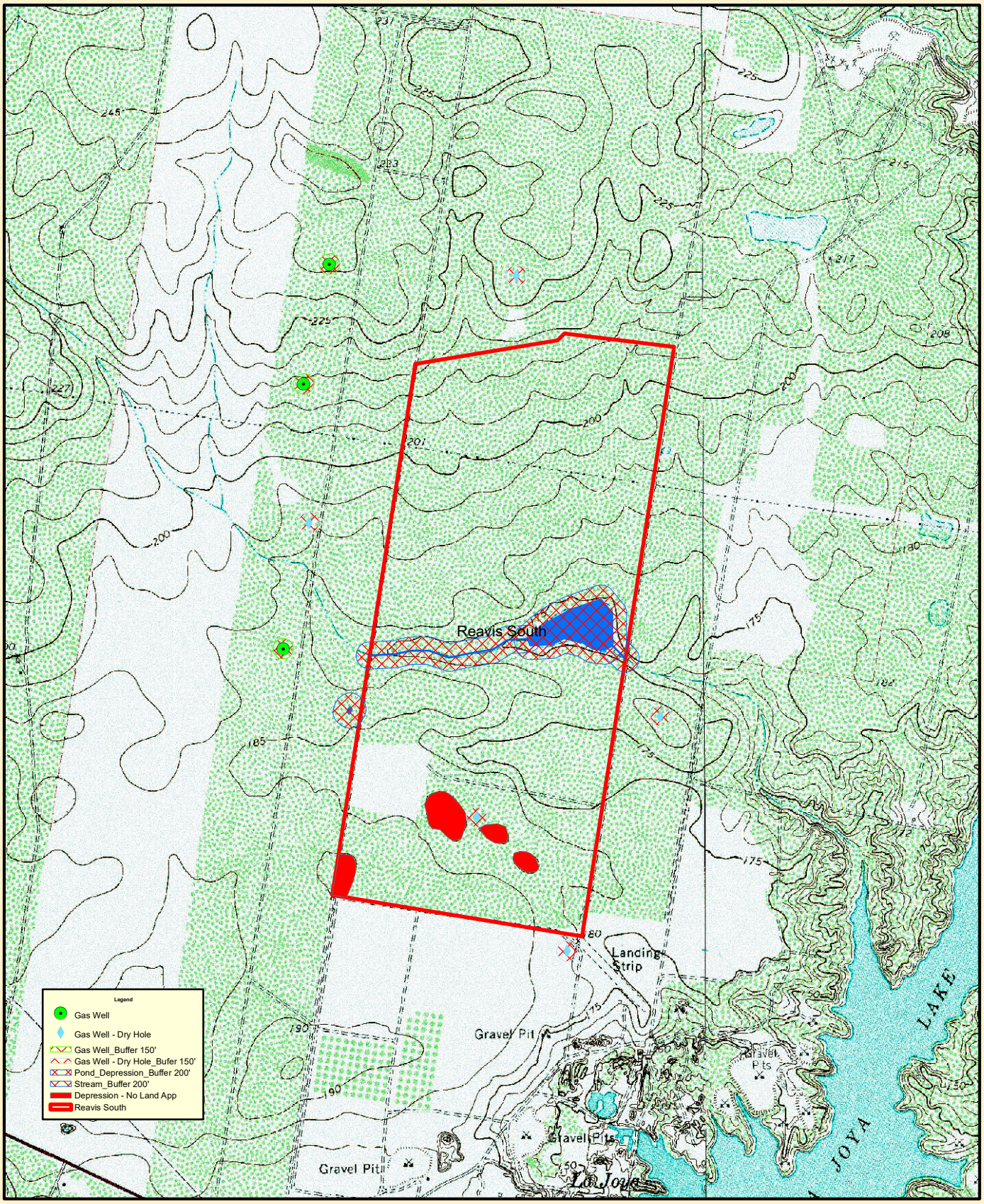
To report errors found within the *County Mapbook 2012*, or to make suggestions for future versions of the book, please contact us at the address above or e-mail us at TPP-GIS@txdot.gov

Help keep Texas roadways safe and clean. Always buckle up and put litter in its place.

Texas Department of Transportation

Attachment 9.

USGS Topographic Map



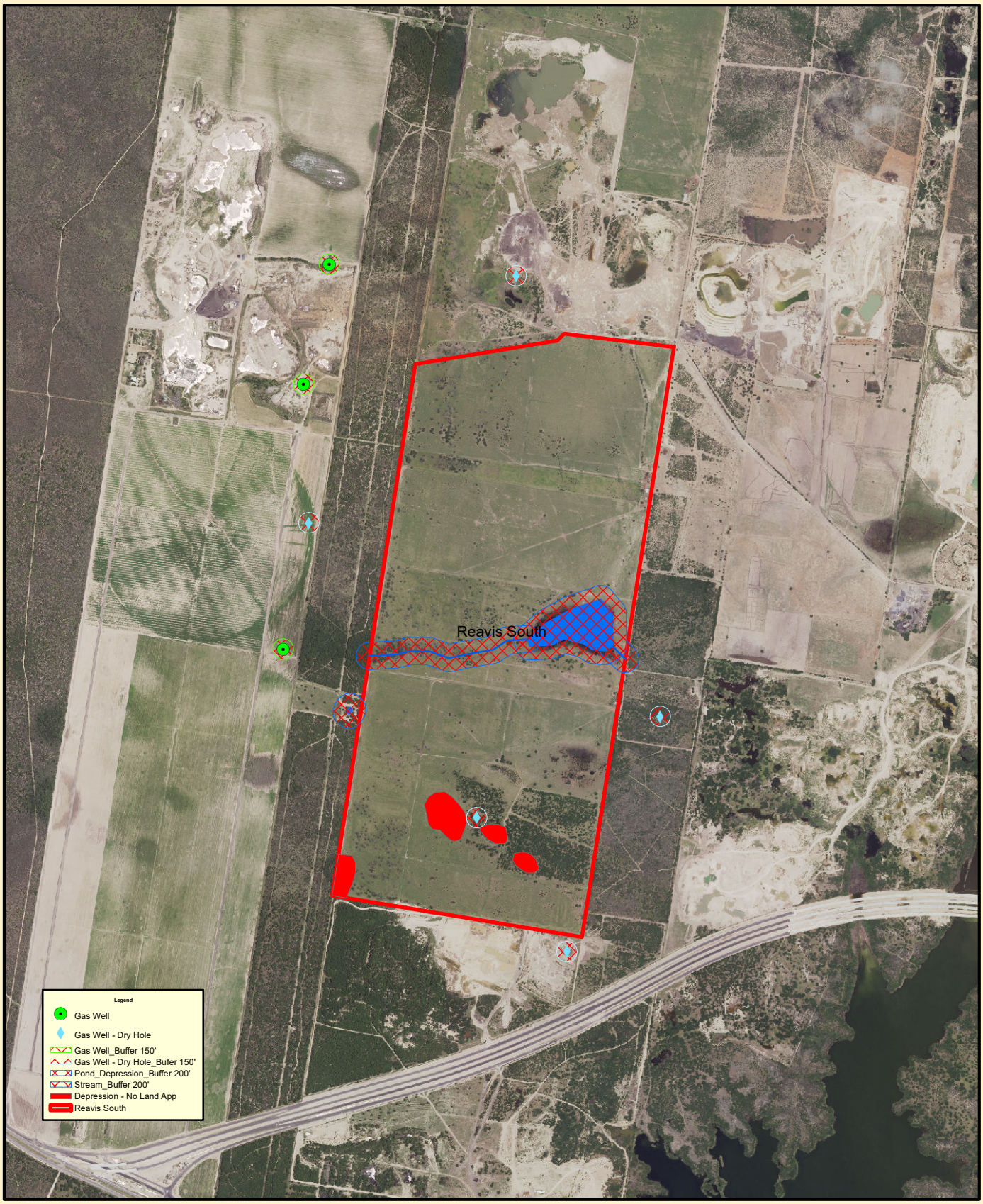
N
W E
S

Denali
Reavis South

0 0.075 0.15 0.3 0.45 0.6 Miles

Albers Projection
Central Meridian: -96
1st Std Parallel: 20
2nd Std Parallel: 60
Latitude of Origin: 40

ESRI



N
W E
S

Denali
Reavis South

0 0.075 0.15 0.3 0.45 0.6
Miles

Albers Projection
Central Meridian: -96
1st Std Parallel: 20
2nd Std Parallel: 60
Latitude of Origin: 40

ESRI

May 28, 2024

1:36,112

0 0.28 0.55 1.1 mi

0 0.42 0.85 1.7 km

Maxar

Reavis South

Texas Water Development Board

May 28, 2024

TWDB Groundwater

0 0.3 0.6 1.2 mi

0 0.5 1 2 km

1:36,112

Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

<u>Attachment 10.</u>

Soil Map

Soil Map—Hidalgo County, Texas
(Reavis South)

Map Scale: 1:16,000 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 200 400 800 1200

Feet: 0 500 1000 2000 3000

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 14N WGS84

MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons

Soil Map Unit Lines

Soil Map Unit Points

Special Point Features

Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Landfill

Lava Flow

Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water

Rock Outcrop

Saline Spot

Sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

Sodic Spot

Spoil Area

Stony Spot

Very Stony Spot

Wet Spot

Other

Special Line Features

Water Features

Streams and Canals

Transportation

Rails

Interstate Highways

US Routes

Major Roads

Local Roads

Background

Aerial Photography

MAP INFORMATION

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

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

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

Soil Survey Area: Hidalgo County, Texas
Survey Area Data: Version 22, Sep 5, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

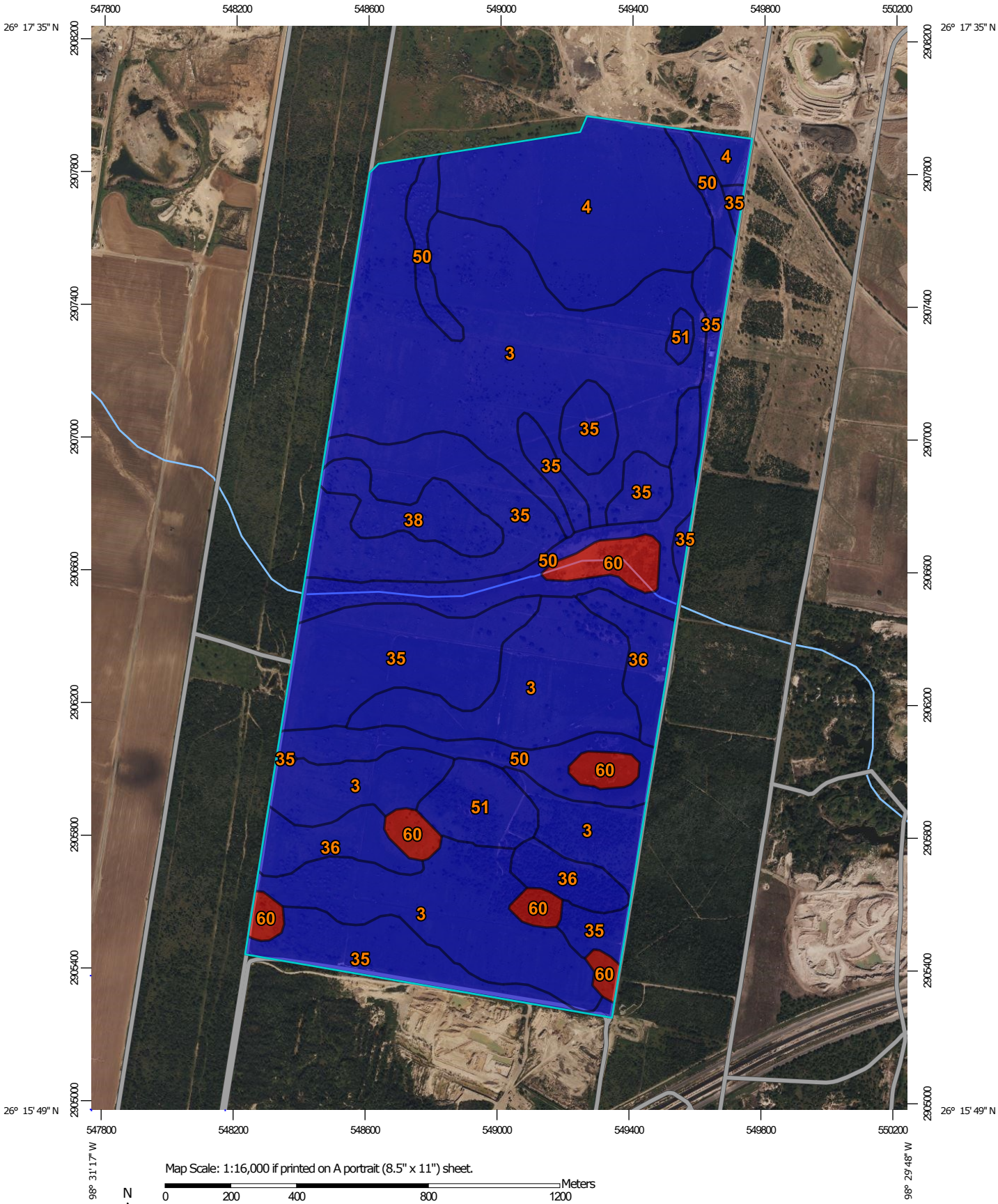
Date(s) aerial images were photographed: Nov 7, 2021—Jan 14, 2022

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

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
3	Brennan fine sandy loam, 0 to 1 percent slopes	293.3	40.5%
4	Brennan fine sandy loam, 0 to 3 percent slopes	82.1	11.3%
35	McAllen fine sandy loam, 0 to 1 percent slopes	165.8	22.9%
36	McAllen fine sandy loam, 1 to 3 percent slopes	39.6	5.5%
38	McAllen sandy clay loam, 0 to 1 percent slopes	18.4	2.5%
50	Ramadero sandy clay loam	77.2	10.7%
51	Cuevitas-Randado complex, 0 to 3 percent slopes	19.5	2.7%
60	Rio clay loam, ponded	27.8	3.8%
Totals for Area of Interest		**723.8**	**100.0%**

Depth to Water Table—Hidalgo County, Texas
(Reavis South)



Map Scale: 1:16,000 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 200 400 800 1200

Feet: 0 500 1000 2000 3000

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 14N WGS84

MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Rating Polygons

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available

Soil Rating Lines

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available

Soil Rating Points

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available

Water Features

Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background

Aerial Photography

MAP INFORMATION

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

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

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

Soil Survey Area: Hidalgo County, Texas
Survey Area Data: Version 22, Sep 5, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Nov 7, 2021—Jan 14, 2022

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

Depth to Water Table

Map unit symbol	Map unit name	Rating (centimeters)	Acres in AOI	Percent of AOI
3	Brennan fine sandy loam, 0 to 1 percent slopes	>200	293.3	40.5%
4	Brennan fine sandy loam, 0 to 3 percent slopes	>200	82.1	11.3%
35	McAllen fine sandy loam, 0 to 1 percent slopes	>200	165.8	22.9%
36	McAllen fine sandy loam, 1 to 3 percent slopes	>200	39.6	5.5%
38	McAllen sandy clay loam, 0 to 1 percent slopes	>200	18.4	2.5%
50	Ramadero sandy clay loam	>200	77.2	10.7%
51	Cuevitas-Randado complex, 0 to 3 percent slopes	>200	19.5	2.7%
60	Rio clay loam, ponded	0	27.8	3.8%
Totals for Area of Interest			**723.8**	**100.0%**

Description

"Water table" refers to a saturated zone in the soil. It occurs during specified months. Estimates of the upper limit are based mainly on observations of the water table at selected sites and on evidence of a saturated zone, namely grayish colors (redoximorphic features) in the soil. A saturated zone that lasts for less than a month is not considered a water table.

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.

Rating Options

Units of Measure: centimeters

Aggregation Method: Dominant Component

Component Percent Cutoff: None Specified

Tie-break Rule: Lower

Interpret Nulls as Zero: No

Beginning Month: January

Ending Month: December

Map Unit Description (Brief, Generated)

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions in this report, along with the maps, provide information on the composition of map units and properties of their components.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

The Map Unit Description (Brief, Generated) report displays a generated description of the major soils that occur in a map unit. Descriptions of non-soil (miscellaneous areas) and minor map unit components are not included. This description is generated from the underlying soil attribute data.

Additional information about the map units described in this report is available in other Soil Data Mart reports, which give properties of the soils and the limitations, capabilities, and potentials for many uses. Also, the narratives that accompany the Soil Data Mart reports define some of the properties included in the map unit descriptions.

Report—Map Unit Description (Brief, Generated)

Hidalgo County, Texas

Map Unit: 3—Brennan fine sandy loam, 0 to 1 percent slopes

Component: Brennan (85%)

The Brennan component makes up 85 percent of the map unit. Slopes are 0 to 1 percent. This component is on vegetated sand sheets on inland, dissected coastal plains. The parent material consists of eolian sands and/or calcareous loamy alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. This component is in the R083EY023TX Sandy Loam ecological site. Nonirrigated land capability classification is 3c. Irrigated land capability classification is 1 This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 7 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Mcallen (5%)

Generated brief soil descriptions are created for major soil components. The Mcallen soil is a minor component.

Component: Delmita (5%)

Generated brief soil descriptions are created for major soil components. The Delmita soil is a minor component.

Component: Ramadero (3%)

Generated brief soil descriptions are created for major soil components. The Ramadero soil is a minor component.

Component: Zapata (2%)

Generated brief soil descriptions are created for major soil components. The Zapata soil is a minor component.

Map Unit: 4—Brennan fine sandy loam, 0 to 3 percent slopes

Component: Brennan (85%)

The Brennan component makes up 85 percent of the map unit. Slopes are 0 to 3 percent. This component is on vegetated sand sheets on inland, dissected coastal plains. The parent material consists of eolian sands and/or calcareous loamy alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. This component is in the R083EY023TX Sandy Loam ecological site. Nonirrigated land capability classification is 3c. Irrigated land capability classification is 2e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 7 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Copita (10%)

Generated brief soil descriptions are created for major soil components. The Copita soil is a minor component.

Component: Hebbronville (3%)

Generated brief soil descriptions are created for major soil components. The Hebbronville soil is a minor component.

Component: Tela (2%)

Generated brief soil descriptions are created for major soil components. The Tela soil is a minor component.

Map Unit: 35—McAllen fine sandy loam, 0 to 1 percent slopes

Component: McAllen (85%)

The McAllen component makes up 85 percent of the map unit. Slopes are 0 to 1 percent. This component is on delta plains on relict delta plains. The parent material consists of calcareous loamy alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. This component is in the R083DY019TX Gray Sandy Loam ecological site. Nonirrigated land capability classification is 3c. Irrigated land capability classification is 1 This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 3 percent. The soil has a very slightly saline horizon within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 6 within 30 inches of the soil surface.

Component: Unnamed (10%)

Generated brief soil descriptions are created for major soil components. The Unnamed soil is a minor component.

Component: Rio (5%)

Generated brief soil descriptions are created for major soil components. The Rio soil is a minor component.

Map Unit: 36—McAllen fine sandy loam, 1 to 3 percent slopes

Component: McAllen (85%)

The McAllen component makes up 85 percent of the map unit. Slopes are 1 to 3 percent. This component is on delta plains on relict delta plains. The parent material consists of calcareous loamy alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. This component is in the R083DY019TX Gray Sandy Loam ecological site. Nonirrigated land capability classification is 3e. Irrigated land capability classification is 2e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 3 percent. The soil has a very slightly saline horizon within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 6 within 30 inches of the soil surface.

Component: Unnamed (15%)

Generated brief soil descriptions are created for major soil components. The Unnamed soil is a minor component.

Map Unit: 38—McAllen sandy clay loam, 0 to 1 percent slopes

Component: McAllen (85%)

The McAllen component makes up 85 percent of the map unit. Slopes are 0 to 1 percent. This component is on delta plains on relict delta plains. The parent material consists of calcareous loamy alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. This component is in the R083DY019TX Gray Sandy Loam ecological site. Nonirrigated land capability classification is 3c. Irrigated land capability classification is 1 This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 3 percent. The soil has a very slightly saline horizon within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 6 within 30 inches of the soil surface.

Component: Unnamed (15%)

Generated brief soil descriptions are created for major soil components. The Unnamed soil is a minor component.

Map Unit: 50—Ramadero sandy clay loam

Component: Ramadero (75%)

The Ramadero component makes up 75 percent of the map unit. Slopes are 0 to 1 percent. This component is on draws on coastal plains. The parent material consists of calcareous loamy alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is occasionally flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. This component is in the R083DY012TX Ramadero ecological site. Nonirrigated land capability classification is 2w. Irrigated land capability classification is 2w. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 11 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Unnamed (20%)

Generated brief soil descriptions are created for major soil components. The Unnamed soil is a minor component.

Component: Rio (5%)

Generated brief soil descriptions are created for major soil components. The Rio soil is a minor component.

Map Unit: 51—Cuevitas-Randado complex, 0 to 3 percent slopes

Component: Cuevitas (50%)

The Cuevitas component makes up 50 percent of the map unit. Slopes are 0 to 3 percent. This component is on broad, low ridges on inland, dissected coastal plains. The parent material consists of non-calcareous loamy alluvium over calcareous loamy residuum. Depth to a root restrictive layer, petrocalcic, is 4 to 18 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is low. Available water to a depth of 60 inches (or restricted depth) is very low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. This component is in the R083CY004TX Shallow Sandy Loam ecological site. Nonirrigated land capability classification is 7s. Irrigated land capability classification is 7s. This soil does not meet hydric criteria. There are no saline horizons within 30 inches of the soil surface.

Component: Randado (40%)

The Randado component makes up 40 percent of the map unit. Slopes are 0 to 3 percent. This component is on broad, low ridges on inland, dissected coastal plains. The parent material consists of non-calcareous loamy alluvium over calcareous loamy residuum. Depth to a root restrictive layer, petrocalcic, is 8 to 20 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is low. Available water to a depth of 60 inches (or restricted depth) is very low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. This component is in the R083CY004TX Shallow Sandy Loam ecological site. Nonirrigated land capability classification is 4s. Irrigated land capability classification is 4s. This soil does not meet hydric criteria. There are no saline horizons within 30 inches of the soil surface.

Component: Delmita (5%)

Generated brief soil descriptions are created for major soil components. The Delmita soil is a minor component.

Component: Tela (5%)

Generated brief soil descriptions are created for major soil components. The Tela soil is a minor component.

Map Unit: 60—Rio clay loam, ponded

Component: Rio (87%)

The Rio component makes up 87 percent of the map unit. Slopes are 0 to 1 percent. This component is on closed depressions on relict delta plains. The parent material consists of clayey alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is not flooded. It is frequently ponded. A seasonal zone of water saturation is at 0 inches during March, April, May, June. Organic matter content in the surface horizon is about 2 percent. This component is in the R083DY007TX Lakebed ecological site. Nonirrigated land capability classification is 3w. Irrigated land capability classification is 3w. This soil meets hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 6 percent. The soil has a very slightly saline horizon within 30 inches of the soil surface.

Component: Tiocano (8%)

Generated brief soil descriptions are created for major soil components. The Tiocano soil is a minor component.

Component: Unnamed (5%)

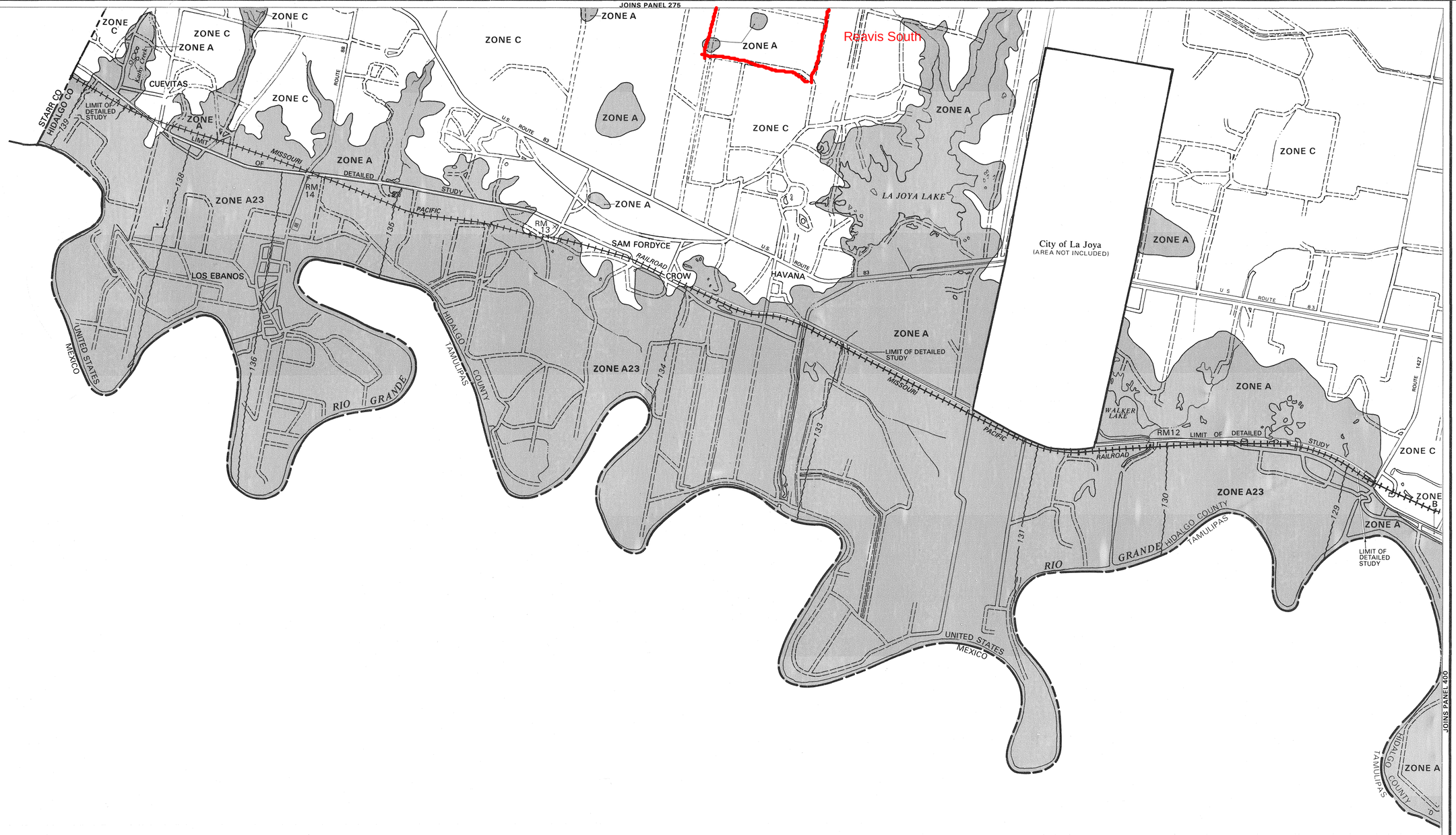
Generated brief soil descriptions are created for major soil components. The Unnamed soil is a minor component.

Data Source Information

Soil Survey Area: Hidalgo County, Texas
Survey Area Data: Version 22, Sep 5, 2023

Attachment 11.

FEMA Map



ELEVATION REFERENCE MARKS

REFERENCE MARK	ELEVATION (FT. NGVD)	DESCRIPTION OF LOCATION
RM 12	125.47	U.S.G.C. BM "125 1975 1913" 1.6 miles west of Penitas Station along the Missouri Pacific Railroad.
RM 13	155.01	A cotton pin spindle in a power pole on the southwest corner of the intersection of gravel roads 0.1 mile north of Missouri Pacific Railroad Station at Sam Fordyce.
RM 14	133.14	A cotton pin spindle in power pole on the southeast corner of the intersection of Farm Market 88 and Missouri Pacific Railroad, 1.5 miles north Sam Fordyce.

KEY TO MAP

500-Year Flood Boundary	
100-Year Flood Boundary	ZONE B
Zone Designations* With Date of Identification e.g., 12/2/74	ZONE A2 DATE / ZONE A1 DATE
100-Year Flood Boundary	ZONE B
500-Year Flood Boundary	
Base Flood Elevation Line With Elevation In Feet**	513
Base Flood Elevation in Feet Where Uniform Within Zone**	(EL 987)
Elevation Reference Mark	RM7 ×
River Mile	• M1.5

**Referenced to the National Geodetic Vertical Datum of 1929

*EXPLANATION OF ZONE DESIGNATIONS

ZONE	EXPLANATION
A	Areas of 100-year flood; base flood elevations and flood hazard factors not determined.
A0	Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; average depths of inundation are shown, but no flood hazard factors are determined.
AH	Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; base flood elevations are shown, but no flood hazard factors are determined.
A1-A30	Areas of 100-year flood; base flood elevations and flood hazard factors determined.
A99	Areas of 100-year flood to be protected by flood protection system under construction; base flood elevations and flood hazard factors not determined.
B	Areas between limits of the 100-year flood and 500-year flood; or certain areas subject to 100-year flooding with average depths less than one (1) foot or where the contributing drainage area is less than one square mile; or areas protected by levees from the base flood. (Medium shading)
C	Areas of minimal flooding. (No shading)
D	Areas of undetermined, but possible, flood hazards.
V	Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors not determined.
V1-V30	Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors determined.

NOTES TO USER

Certain areas not in the special flood hazard areas (zones A and V) may be protected by flood control structures.

This map is for flood insurance purposes only; it does not necessarily show all areas subject to flooding in the community or all planimetric features outside special flood hazard areas.

For adjoining map panels, see separately printed Index To Map Panels.

INITIAL IDENTIFICATION:
MAY 23, 1978

FLOOD HAZARD BOUNDARY MAP REVISIONS

FLOOD INSURANCE RATE MAP EFFECTIVE:
JANUARY 2, 1981

FLOOD INSURANCE RATE MAP REVISIONS

Refer to the FLOOD INSURANCE RATE MAP EFFECTIVE date shown on this map to determine when actuarial rates apply to structures in the zones where elevations or depths have been established.

To determine if flood insurance is available in this community, contact your insurance agent, or call the National Flood Insurance Program at (800) 638-6620, or (800) 424-8872.

APPROXIMATE SCALE
2000 0 2000 FEET

NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

HIDALGO COUNTY, TEXAS
(UNINCORPORATED AREAS)

PANEL 375 OF 525

COMMUNITY-PANEL NUMBER
480334 0375 B

EFFECTIVE DATE:
JANUARY 2, 1981

federal emergency management agency
federal insurance administration

JOINS PANEL 175

KEY TO MAP

500-Year Flood Boundary	ZONE B
100-Year Flood Boundary	ZONE A2 DATE
Zone Designations* With Date of Identification e.g., 12/2/74	ZONE A1 DATE
100-Year Flood Boundary	ZONE B
500-Year Flood Boundary	
Base Flood Elevation Line With Elevation In Feet**	513
Base Flood Elevation In Feet Where Uniform Within Zone**	(EL 987)
Elevation Reference Mark	RM7 ×
River Mile	• M1.5

**Referenced to the National Geodetic Vertical Datum of 1929

*EXPLANATION OF ZONE DESIGNATIONS

ZONE	EXPLANATION
A	Areas of 100-year flood; base flood elevations and flood hazard factors not determined.
A0	Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; average depths of inundation are shown, but no flood hazard factors are determined.
AH	Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; base flood elevations are shown, but no flood hazard factors are determined.
A1-A30	Areas of 100-year flood; base flood elevations and flood hazard factors determined.
A99	Areas of 100-year flood to be protected by flood protection system under construction; base flood elevations and flood hazard factors not determined.
B	Areas between limits of the 100-year flood and 500-year flood; or certain areas subject to 100-year flooding with average depths less than one (1) foot or where the contributing drainage area is less than one square mile; or areas protected by levees from the base flood. (Medium shading)
C	Areas of minimal flooding. (No shading)
D	Areas of undetermined, but possible, flood hazards.
V	Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors not determined.
V1-V30	Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors determined.

NOTES TO USER

Certain areas not in the special flood hazard areas (zones A and V) may be protected by flood control structures.

This map is for flood insurance purposes only; it does not necessarily show all areas subject to flooding in the community or all planimetric features outside special flood hazard areas.

For adjoining map panels, see separately printed Index To Map Panels.

INITIAL IDENTIFICATION:
MAY 23, 1978

FLOOD INSURANCE RATE MAP EFFECTIVE:
JANUARY 2, 1981

Refer to the FLOOD INSURANCE RATE MAP EFFECTIVE date shown on this map to determine when actuarial rates apply to structures in the zones where elevations or depths have been established.

To determine if flood insurance is available in this community, contact your insurance agent, or call the National Flood Insurance Program at (800) 638-6620, or (800) 424-8872.

APPROXIMATE SCALE
2000 0 2000 FEET

NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

HIDALGO COUNTY, TEXAS
(UNINCORPORATED AREAS)

PANEL 275 OF 525

COMMUNITY-PANEL NUMBER
480334 0275 B

EFFECTIVE DATE:
JANUARY 2, 1981

federal emergency management agency
federal insurance administration

LEGEND

SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

ZONE A	No Base Flood Elevations determined.
ZONE AE	Base Flood Elevations determined.
ZONE AH	Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
ZONE AO	Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
ZONE AR	Special Flood Hazard Areas formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
ZONE A99	Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
ZONE V	Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
ZONE VE	Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

ZONE X	Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

ZONE X	Areas determined to be outside the 0.2% annual chance floodplain.
ZONE D	Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

MAP SCALE 1" = 2000'

1000 0 2000 4000 FEET

0 600 1200 METER

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

	1% Annual Chance Floodplain Boundary
	0.2% Annual Chance Floodplain Boundary
	Floodway boundary
	Zone D boundary
	CBRS and OPA boundary
	Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths, or flood velocities.
513	Base Flood Elevation line and value; elevation in feet*
(EL 987)	Base Flood Elevation value where uniform within zone; elevation in feet*

*Referenced to the North American Vertical Datum of 1988

A — A	Cross section line
23 - - - - 23	Transect line
	Culvert
	Bridge
45° 02' 08", 93° 02' 12"	Geographic coordinates referenced to the North American Datum of 1983 (NAD 83) Western Hemisphere
3100000 FT	5000-foot ticks: Texas State Plane North Central Zone (FIPS Zone 4202), Lambert Conformal Conic projection
DX5510 ×	Bench mark (see explanation in Notes to Users section of this FIRM panel)
• M1.5	River Mile

MAP REPOSITORIES
Refer to Map Repositories list on Map Index

EFFECTIVE DATE OF COUNTYWIDE
FLOOD INSURANCE RATE MAP
September 4, 1991

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL
Map revised October 20, 1998 and January 06, 2012 to change base flood elevations, to add base flood elevations, to incorporate previously issued Letter of Map Revisions, to reflect updated topographic information, to add special flood hazard areas, and to change zone designations.

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

Attachment 12.

Nutrient Management Plan

Waste Utilization and Nutrient Management Plan

Reavis South

La Joya, Tx
956-207-1447

TCEQ Permit Number:
WQ000486100

Owner
Wayne Reavis
PO Box 720908
McAllen Tx 78504
956-207-1447

Operator
Denali
PO Box 550
Russellville AR 72811
479-518-1554

Type of Organic Nutrient Management Plan:
Biosolids
located in Hidalgo County

Prepared By:

(Signature)
Gabe Timby
Sr Director Env - Central
Certificate Number = TX20313
Expiration Date = December 31, 2024
Denali
PO Box 550
Russellville AR 72811
479-518-1554

This plan is based on:
590 Organic Nutrient Management Plan V 5.0

6/4/24 10:35 AM

Waste Utilization and Nutrient Management Plan

EXECUTIVE SUMMARY: Permit #: WQ000486100

This Nutrient Management Plan has fields that meet NUPs requirements.

LOCATION AND PURPOSE OF THE PLAN

Located in : Hidalgo County

See plan map for location. The purpose of this plan is to outline the details of land application of biosolids on this land. This plan, when applied, will meet the requirements of the Natural Resources Conservation Service Nutrient Management Standard (590) and Waste Utilization Standard (633). When the appropriate land treatment practices needed to reduce runoff are fully implemented and maintained in each field the plan will provide the more comprehensive benefits of minimizing the affects of the land application of biosolids on the air, soil, water, and animal resources in and around the application area. Annual maximum application rates are determined using **Table 2 & 2a** depending on the current soil test P level and P index result for each field receiving biosolids.

Table 3 provides an estimate of the nutrients removed in the harvested portion of the crop at the planned yield goal for hay, grain, and fiber crops. The values used for grazed crops are the estimated amount of nutrients taken up in the above ground portion of the plants.

Refer to **Table 4** for field specific maximum biosolids application rates. Values in **Table 4** are based on the data in **Table 1**. Application will be based on biosolids analysis. Applying biosolids at **MAXIMUM** rates shown in **Table 4** will result in a more rapid build-up of phosphorus than if applied at lower rates. Phosphorus will build up more rapidly on pastureland than on hayland or cropland, since a much small amount of nutrients are actually removed from the farm by grazing animals. Biosolids may be applied to the same acreage every year, but if the soil test P level exceeds the critical level, or the Texas P Index result changes the rates of application will have to be reduced in accordance with Texas NRCS Nutrient Management Standard (590). This plan is valid only if the annual application of biosolids to the crops listed in **Table 4** does not exceed the per acre rates by more than 10%. If the yield of a crop does not meet the expected goal, the application rate should be adjusted accordingly the following year.

Recommended annual application amounts that are smaller than can physically be applied due to limitation of the application equipment should be doubled and applied to the field every other year. No other P fertilizer may be used the second year, but supplemental N and K2O should be applied, if needed. If the P index critical P level is exceeded, it is recommended that no additional biosolids be applied to those fields until the level is reduced. Biosolids applications should be made at appropriate times to meet crop needs, but may be applied at any time as long as soils are not saturated, snow covered, or frozen, and the annual maximum is not exceeded.

SUPPLEMENTAL NUTRIENTS TO MEET YIELD GOAL

Table 5 shows the estimated amount of nutrients that are applied in pounds per acre for each field where biosolids are applied using per acre amounts shown in **Table 4**. Supplemental nitrogen (N) and potassium (K2O) will be applied to achieve the yield goals noted in **Table 5**, when recommended based on soil analysis and the annual biosolids application does not meet the requirements as detailed in **Table 5.**

Deep soil sampling is recommended on application areas where loamy to clayey soils are present and biosolids have been applied previously. If this deep testing reveals accumulated nitrate N in the root zone, it should be deducted from any supplemental N to be applied to meet the planned yield goal. Sampling in 6 inch increments to a depth of 3 feet is sufficient for most crops.

ADJUSTMENTS TO APPLY LESS THAN THE MAXIMUM RATES

In situations where more land is available than is needed to utilize the maximum application rate on each field, the application rates in **Table 6** can be reduced down to the level that does not exceed the amount of solids available. **Table 7** indicates the amount of nutrients provided and, if needed, the supplemental nutrients which must be applied when the application is based on these reduced rates. The amount of supplemental nutrients in **Table 7** are based on the actual amount of waste available rather than the maximum rate that **"could"** be applied.

The second line from the bottom of **Table 6** on the right has a box that will be **"YES"** or **"NO"**. When the reduced rates uses all solids to be produced in a year, this box will be **"Yes"**. If the percentages are too low, it will be **"No"**. If **"No"**, either more acreage is needed on which to apply the solids or the solids will need to be transported off-site.

Acres of biosolids exclusion zones are noted in **Table 8**. Location of buffers and other exclusion zones are found on the application area map.

Filter Strips will meet the Texas USDA/NRCS standard (393). A minimum 100 foot wide grassed and/or wooded buffer providing at least 70% ground cover will be maintained between the application area and all water courses, ponds, lakes, wetlands, etc.

Riparian Forested Buffers (if used) will meet the Texas USDA/NRCS Standard (391). When planned, a minimum 50 foot wide wooded buffer will be maintained between the application area and the edge of streams, creeks, rivers, etc. to protect water quality, decrease water temperatures, improve aquatic organism habitat, reduce sediment and nutrient loading and reduce bank erosion. Select harvesting within this zone may be done in accordance with guidelines of the Texas Forest Service. If the wooded buffer is only 50 feet wide, there still must be a minimum 100 feet between biosolids application area and stream bank. Another vegetated buffer will be established or maintained to account for the remaining distance. Biosolids will not be applied within 100 feet of any waterway, stream, creek, pond, lake, or wetlands.

The minimum application distance from private or public wells will be 150 feet and 500 feet respectively. Private wells that are located within a field where biosolids are applied and are part of a center pivot irrigation system are exempt from the set-back requirement. The minimum suggested application distance from schools, institutions, and densely populated residential, business, or similar development is 1000 feet.

Biosolids will not be applied to any buffer areas or any frequently flooded areas, as designated by county soil survey.

PLANNED METHOD OF APPLICATION

Biosolids may be surface applied uniformly, injected, or incorporated below the surface of the soil within the root zone of the planned crop. To reduce soil compaction, applications should only be made when soil conditions are favorable. Biosolids should not be spread if heavy rains are forecast to occur within 1 day of a proposed application date.

ODOR MANAGEMENT

The following steps should be taken when spreading biosolids to reduce problems associated with odor.

1. Avoid spreading biosolids when wind will blow odors toward populated areas.
2. Avoid spreading biosolids immediately before weekends or holidays, if people are likely to be engaged in nearby outdoor activities.
3. Avoid spreading biosolids near heavily traveled highways.
4. Make biosolids applications in the morning when the air is warming, rather than in the late afternoon.

BIOSOLIDS TESTING

If your biosolids application area is permitted by the Texas Commission on Environmental Quality (TCEQ), follow the sampling and testing requirements of your permit. For applications not permitted by TCEQ, the biosolids need to be analyzed for percent moisture, total nitrogen, total phosphorus, and total potassium.

Biosolids may be temporarily stockpiled and covered with durable plastic or other suitable tarp material. Stockpiled biosolids must be sited on suitable soil, geology, and topography to prevent contamination of waterways. Runoff from stockpiled biosolids must be retained on-site by use of berms or other adequate structures where there is potential transport of biosolids into waterways.

COLLECTING SOIL SAMPLES FOR ANALYSIS

If your biosolids application area is permitted by the Texas Commission on Environmental Quality (TCEQ), follow the sampling requirements of your permit. If application area is not regulated by TCEQ:

Collect a composite sample for each field (or area of similar soils and management not more than about 40 acres) comprised of 10 - 15 randomly selected cores. Each core should represent 0 - 6 inches below the surface. Thoroughly mix each set of core samples, and select about a pint of the mixture as the sample for analysis. Label each sample for the field that it represents. Request that the samples be analyzed for nitrate nitrogen, available phosphorus, potassium, sodium, magnesium, calcium, sulfur, boron, conductivity, and pH. Also note on the samples that they are from a biosolids application area.

SOIL ANALYSIS

If your biosolids application area is permitted by the Texas Commission on Environmental Quality (TCEQ), follow the sampling requirements of your permit. If application area is not regulated by TCEQ:

A base line soil analysis will be completed for all areas to be used for biosolids application. The area will be tested every year that biosolids are applied to monitor P build up. If soil test values rise to a higher category, i.e., Low to Medium, contact the local Soil and Water Conservation District or USDA/NRCS office to revise the Waste Utilization Plan and to assist in development of a plan to reduce P in the field(s).

RECORD KEEPING

If your biosolids application area is permitted by the Texas Commission on Environmental Quality (TCEQ), follow the record keeping requirements of your permit. If application area is not regulated by TCEQ:

Detailed records should be maintained for all applications of biosolids for a period of at least 5 years. Records should include date, time, location, and amount of application; they could also include weather conditions, estimated wind speed and direction, etc. Keep all soil and biosolids analyses for the same period.

OPERATION AND MAINTENANCE

Application equipment should be maintained in good working order, and it should be calibrated at least once a year, so that the desired rate and amount of biosolids will be applied. Any changes in this system must be discussed with Texas Commission on Environmental Quality (TCEQ) prior to their initiation on permitted sites. If your site is not permitted by TCEQ, contact your local NRCS office for updates and assistance.

Waste Utilization and Nutrient Management Plan

SIGNATURE PAGE WQ000486100

Plan Prepared by: **Gabe Timby** Date: **6/4/2024**

Plan Approved by: Date: 6.4.24

Producer Signature: for wayne Reavis Date: 6.4.24

The producer's signature indicates that this plan has been discussed with him/her.
If this plan is not signed by the producer, indicate how the plan was provided to the producer.

PI Index by Field

Printed on: 6/4/24 10:35 AM

This plan is based on: Nutrient Management Plan V 5.0

Permit #: WQ000486100

Client Name: Reavis South

Planner: Gabe Timby

Date: 6/4/2024

Location: Hidalgo

Rainfall: <25.0 inches

LMU or Fields	Crop	Slope	Runoff Curve	Soil Test P Level	Inorganic P_2O_5 Appl Rate	Organic P_2O_5 Appl Rate	Inorganic Method & Timing	Organic Method & Timing	Proximity of Appl to Named Stream	Runoff Class	Soil Erosion	Total Index Points	P Runoff Potential	Soil Test Date:
1	Coastal graze 1 AU/1 ac, SG mod graze	0-1%	61	2	0	6	0	4	0	0	0	12	Very Low - Low	7/23/23

Waste Utilization and Nutrient Management Plan

Table 1 - Est. Amount of Waste Allowed for Land Application Permit #: WQ000486100

Biosolids Type	Est. Max DRY tons applied annually
Other	16094.2

Contact your agronomic consultant, TCEQ or local USDA Natural Resources Conservation Service office, if the application quantities change by more than 10 percent so your plan can be revised.

Estimated Nutrient Availabilty
Solids

		pounds / yr	pounds / ton	
**	N	262,000	16.3	**
	P2O5	289,906	18.0	
	K2O	22,017	1.4	

**** Effluent Values Based on Analysis** **** Solids Values Based on Analysis**

Explanation of Other Biosolids Type:

Class B biosolids

There are fields in this plan where plant analysis removal nutrient rates and yields have been entered. Check Table 3 and the Crop Information Sheet and to determine which fields are involved and the values used.

Waste Utilization and Nutrient Management Plan

TABLE 2. A Nutrient Management Plan (NMP) is required where Soil Test P Level [1/] is:

- **less than 200 ppm statewide or**
- **or < 350 ppm in arid areas 2/ with a named stream > one mile.**

P – Index Rating	Maximum TMDL Annual P Application Rate [5/]	Maximum Annual P Application	Maximum Biennial Application Rate
Very Low, Low	Annual Nitrogen (N) Requirement	Annual Nitrogen (N) Requirement	2.0 Times Annual N Requirement
Medium	2.0 Times Annual Crop P Requirement [3/]	2.0 Times Annual Crop P Requirement [3/]	2.0 Times Annual N Requirement
High [5]	1.5 Times Annual Crop P Requirement [3/]	1.5 Times Annual Crop P Requirement [3/]	Double the Maximum Annual P Application Not to Exceed 2 times the Annual N Requirement
Very High [5]	1.0 Times Annual Crop P Requirement [3/]	1.0 Times Annual Crop P Requirement [3/]	Double the Maximum Annual P Application Not to Exceed 2 times the Annual N Requirement

TABLE 2a. A Nutrient Utilization Plan (NUP) is required by TCEQ where Soil Test P Level [1/] is:

- **equal to or greater than 200 ppm in non-arid areas [2/] or**
- **equal to or greater than 350 ppm in arid areas [2/] with a named stream greater than one mile or**
- **equal to or greater than 200 ppm in arid areas [2/] with a named stream less than one mile.**

P – Index Rating	Maximum TMDL Annual P Application Rate [5/]	Maximum Annual P Application	Maximum Biennial Application Rate
Very Low, Low	1.0 Times Annual Crop P Removal [4/]	Annual N Crop Removal	2.0 Times Annual N Removal
Medium	1.0 Times Annual Crop P Removal [4/]	1.5 Times Annual Crop P Removal [4/]	Double the Maximum Annual P Application Not to Exceed 2 times the Annual N Crop Removal
High [5]	1.0 Times Annual Crop P Removal [4/]	1.0 Times Annual Crop P Removal [4/]	Double the Maximum Annual P Application Not to Exceed 2 times the Annual N Crop Removal
Very High [5]	0.5 Times Annual Crop P Removal [4/]	0.5 Times Annual Crop P Removal [4/]	Double the Maximum Annual P Application Not to Exceed 2 times the Annual N Crop Removal

Footnotes Applicable to both Tables

1/ Soil test P will be Mehlich III by inductively coupled plasma (ICP).

2/ Non-arid areas, counties receiving => 25 inches annual rainfall, will use the 200 ppm P level while arid areas, counties receiving < 25 inches of annual rainfall, will use the 350 ppm P level. See map in TX Agronomy Technical Note 15, Phosphorus Assessment Tool for Texas, for county designations.

3/ Not to exceed the annual nitrogen requirement rate.

4/ Not to exceed the annual nitrogen removal rate.

5/ When soil test phosphorus levels are ≥ 500 ppm, with a P-Index rating of "High" or "Very High", there will be no additional application of phosphorus to a CMU or field.

Waste Utilization and Nutrient Management Plan

Table 3 - Crop Removal Rates (For Information Only) Permit #: WQ000486100

LMU or Field No.	Acres	Crop and P Index Level	TCEQ Plan Type	Actual Crop Analysis or Default	Total Est. N Removal lbs/Ac/Yr	Total Est. P_2O_5 Removal lbs/Ac/Yr	Total Est. K_2O Removal lbs/Ac/Yr
1	655.0	Coastal graze 1 AU/1 ac, SG mod graze VL - L	NMP	Actual	300	90	267

NOTE: When crops are used for grazing, only a portion of the nutrients used by the crop are removed from the field in the live weight gain of the livestock, the remainder is returned to the land in manure and urine. The book "Southern Forages" estimates the N, P, & K removed in 100 pounds live weight gain as follows: **2.5 lbs N, 0.68 lbs P, 0.15 lbs K**

Waste Utilization and Nutrient Management Plan

Table 4 - Maximum Solids Application per Field

Permit #: WQ000486100

Est. Solids Produced Annually (wet tons)	LMU or Field No.	Acres	Crop Management and PI runoff potential	Current Soil Test P Level (ppm)	Max Annual P2O5 lbs/acre	Annual/Biennial	Maximum Solids Allowable Tons/Acre	Maximum Allowable Application Per field (Tons)
0	1	655.0	Coastal graze 1 AU/1 ac, SG mod graze VL - L	55	443	A	24.6	16094
Total Solids Application Acres								
655								
Application Allowable on-site (tons)								
16094.2								
Adequate								
Solids to be used off-site (tons)								
0.0								

End of Table 4

Waste Utilization and Nutrient Management Plan

Table 5 - Nutrients Applied/Needs at Maximum Solids Rates Permit #: WQ000486100

	Nutrients Applied When Application is at Maximum Rates			Supplemental Nutrients Needed When Application is at Maximum Rates			
LMU / Field #	N Lb/ac	P_2O_5 Lb/ac	K_2O Lb/ac	N Lb/ac	P_2O_5 Lb/ac	K_2O Lb/ac	Lime T/Ac
1	400	443	34	#VALUE!	0	5	0

Waste Utilization and Nutrient Management Plan

Table 6 - Planned Solids Application Rates Permit #: WQ000486100

LMU or Field No.	Double crop	Acres	Crop Management and PI runoff potential	Current Soil Test P ppm	Annual / Biennial	Max Rate tons/ac	% of Maximum to apply	Planned Solids tons/ac	Planned Solids per field (tons)
1		655.0	Coastal graze 1 AU/1 ac, SG mod graze VL - L	55	A	24.6	49	12.0	7837.9
Acres		655.0		Will the planned per acre application rates use all of the Solids?					7837.9
16094			Tons wet of solids to be used						NO
0				Tons to be used off-site at planned rates					7838

Waste Utilization and Nutrient Management Plan

Table 7 - Nutrients Applied/Needed at Planned Solids Rates Permit #: WQ000486100

Red cells? Proceed to adjustment page and fix.

	Nutrients Applied at Planned Rates			Supplemental Nutrients Needed at Planned Rates			
LMU / Field #	N Lb/ac	P_2O_5 Lb/ac	K_2O Lb/ac	N Lb/ac	P_2O_5 Lb/ac	K_2O Lb/ac	Lime T/Ac
1	195	216	16	#VALUE!	0	25	0

Waste Utilization and Nutrient Management Plan

Table 8 - Non Application Areas by Field Permit #: WQ000486100

FS = 393-Filter Strip; **FB** = 386-Field Border, **RFB** = 391-Riparian Forest Buffer; **OLEA** = Other Land Excluded Ar

LMU / Field #	FS Acres	FB Acres	RFB Acres	OLEA Acres	Total Excluded
1	50.0	100.0	100.0	1451.0	1701.0
Totals	50.0	100.0	100.0	1451.0	1701.0

See Application Map for location of buffers

Total 590-633 application acres: 655.0

Total 590-633 Field Acres: 2356.0

Waste Utilization and Nutrient Management Data Entries

General Data

Date :	6/4/2024
Farmer Name :	Reavis South
County in which the Land is located :	Hidalgo
Type of Waste Plan :	Biosolids
Is this plan in a TMDL watershed for nutrients? Yes or No :	No
Is any field PERMITTED by TCEQ? Yes or No :	Yes
Permit # :	WQ000486100

All other entries on General Page appear on the Cover Page

Biosolids Information

Plan Year :	2024	Explain Other:
Biosolid Type :	Other	Class B biosolids
Analysis Date:	3/21/2023	
Nitrogen % From Biosolids Analysis:	3.57	
Phosphorus % From Biosolids Analysis:	1.38	
Potassium % From Biosolids Analysis:	0.20	
Moisture % From Biosolids Analysis:	71.50	
Does this site generate biosolids?	no	
If B11 = "Yes", How many dry tons/year?		

This plan is based on: rganic Nutrient Management Plan V 5.0

Printed on: 6/4/24 10:35 AM

Field and Buffer Entries

Permit #: WQ000486100

Printed on: 6/4/24 10:35 AM

Plan is based on: 590 Organic Nutrient Management Plar

FS = 393-Filter Strip, FB = 386-Field Border, RFB = 391-Riparian Forest Buffer, OLEA = Other Land Exclusion Areas or non-application areas (i.e. headquarters, freq. flooded areas, wooded areas, water bodies, etc)

NOTE: Field Border (FB) is expressed in ACRES on this spreadsheet, but as LINEAR FEET on the CPO.

Field No.	Total LMU or Field Acres	FS	FB	RFB	OLEA	Total Buffer Acres	Actual Application Acres	Is the closest edge of the application area < 1 mile from a named stream, or has the operation been ordered to use this criteria by TCEQ?
1	2356	50	100	100	1451	1701.0	655.0	Yes

Soil Test, Crop Information and Plant Analysis Data Entries

Printed on: 6/4/24 10:35 AM Plan is based on: 590 Organic Nutrient Management Plan V 5.0 Permit #: WQ000486100

Soil Test Analysis				This column only for Dry Poultry	LMU or Field #	Appl. Area Acres	Crop/Land-Use and P Index Runoff Potential VL - L; M; H; or VH		Plant Analysis (Y / N)	Plant Analysis & Yield (optional) Use Only When Crop Removal is Required			
N (ppm)	P (ppm)	K (ppm)	Lime (enter amt or leave blank)							% N	% P	% K	Yield Air Dry Production (lbs/ac/yr)
	55	210			1	655.0	Coastal graze 1 AU/1 ac, SG mod graze VL - L		N				20000

Solids Application Rate Entries

Solids - Set the Planned Application Rates

Permit #: WC

16094		Maximum dry tons that may be applied.	Will the planned rates use the Maximum a				
			Dry Tons to be used on-site at plann				
LMU or Field No.	Acres	Crop Management and PI runoff potential	Current Soil Test P ppm	Crop P_2O_5 Req.	Annual or Biennial Application Cycle	Maximum Solids Allowable Tons/Ac	Enter % of Maximum Planned to Apply
1	655.0	Coastal graze 1 AU/1 ac, SG mod graze VL - L	55	175	Annual	24.6	48.7

Printed on: 6/4/24 10:35 AM

Plan is based on: 590 Organi

<u>Attachment 13.</u>

TCEQ Transporter Registration

Texas Commission on Environmental Quality

SLUDGE TRANSPORTER REGISTRATION

Registration Number: 24979 **CN604718486** **RN107961195**

Print Date: November 29, 2022

For the Commission

Company: DENALI WATER SOLUTIONS LLC

Registered Since: January 30, 2015
Expiration Date: August 31, 2024

Regulated Entity: DENALI WATER SOLUTIONS

Status: ACTIVE

Organization Type: CORPORATION
County:
Transport Waste into Texas: NO

TCEQ Region:
Transport Waste out of Texas: NO

Physical Address:
3308 BERNICE AVE
RUSSELLVILLE, AR 72802-8465

Mailing Address:
3308 BERNICE AVE
RUSSELLVILLE, AR 72802-8465

Contact Information

Contact: CAROLYN MULLINS

Phone: 479-239-0390

Fax:

E-Mail: CAROLYN.MULLINS@DENALIWATER.COM

Sticker Numbers Issued and Listed below will expire on August 31, 2024:

0002162	0002163	0002164	0002165	0002166	0002167	0002168	0002169	0002170
0002171	0002172	0002173	0002174	0002175	0002176	0002177	0002178	0002179
0002180	0002181	0002182	0002183	0002184	0002185	0002186	0002187	0002188
0002189	0002190	0002191	0002192	0002193	0002194	0002195	0002196	0002197
0002198	0002199	0002200	0002201	0002202	0002203	0002204	0002205	0002206
0002207	0002208	0002209	0002210	0002211	0002212			

This is your registration which reflects the information submitted on your application to the Register or Renew as a Transporter of Municipal Sludge(s) and Similar Wastes. Requirements for transportation are provided in accordance with 30 TAC Chapter 312. Issuance of this registration is not acknowledgement by the TCEQ that your operation is in full compliance with the rules and regulations of the TCEQ. Changes or additions referred to this notice require written notification to the TCEQ. Please keep a copy of this registration in every vehicle transporting sludge and all locations where business is being transacted under this registration.

Texas Commission on Environmental Quality

SLUDGE TRANSPORTER

Registration Number: 24979

Print Date: November 29, 2022

For the Commission

Disposal Facility Information

Facility ID	Waste Type	Facility Name	Program
1149A	WT; WW	GALVESTON COUNTY LANDFILL	MSWDISP
1307D	WT; WW	ATASCOCITA RECYCLING AND DISPOSAL FACILITY	MSWDISP
1505A	WT; WW	BLUE RIDGE LANDFILL	MSWDISP
1752B	WT; WW	SECURITY RECYCLING AND DISPOSAL FACILITY	MSWDISP
2270	WT; WW	FORT BEND REGIONAL LANDFILL	MSWDISP
2348	WT; WW	LA GLORIA RANCH LANDFILL	MSWDISP
243	WT; WW	CITY OF EDINBURG LANDFILL	MSWDISP
261B	WT; WW	MCCARTY ROAD LANDFILL TX	MSWDISP
42042	WT	TRIPLE-S COMPOST FACILITY	SLUDGETR
4485WR7	GS	TERRA RENEWAL SERVICES INC (AR)	SLUDGETR
4495-WR-5	GS	TERRA RENEWAL SERVICES	SLUDGETR
4792WR5	GS	TERRA RENEWAL SERVICES INC (AR)	SLUDGETR
4839WR3	GS	TERRA RENEWAL SERVICES INC (AR)	SLUDGETR
730167	WT	HEMPHILL WTP SLUDGE SITE	SLUDGE
730169	WT	BARNS DOWNE	SLUDGE
730183	WT	TOMMY LOVELL 1 FARM WTP SLUDGE BLU SITE	SLUDGE
730184	WT	TOMMY LOVELL 2 FARM WTP SLUDGE BLU SITE	SLUDGE
730186	WT	JACK HENDRICKS FARM 1 WTP SLUDGE BLU	SLUDGE
730195	WT	MIKE PEOPLES SR WTP SLUDGE BLU SITE	SLUDGE
730198	WT	TOMMY STEWART WTP SLUDGE SITE	SLUDGE
730199	WT	RUSSELL STROMAN SLUDGE SITE	SLUDGE
730201	WT	GARY STEWART WTP SLUDGE SITE	SLUDGE
730204	WT	THOMAS SMITH SITE	SLUDGE
730207	WT	ADRIAN PITTS SITE	SLUDGE
730208	WT	BILLY RODGERS DOWN HOME FARM WTP SLUDGE SITE	SLUDGE
730209	WT	BILLY RODGERS FM 2468 FARM WTP SLUDGE SITE	SLUDGE
730210	WT	GARVIN TATE FARM	SLUDGE
730211	WT	DAVID SMITH FARM	SLUDGE
730212	WT	CROWELL- MILLER FARM	SLUDGE
730213	WT	RAY CLARK FARM	SLUDGE
730214	WT	EVANS-MCTEE FARM	SLUDGE
730216	WT	JAMES CARLOW FARM	SLUDGE
730218	WT	CROWELL RYAN FARM	SLUDGE
730219	WT	PHILLIP BOW FARM	SLUDGE
730222	WT	CROWELL CRENSHAW SORRELLS FARM	SLUDGE
730223	WT	CROWELL-SHELTON FARM WTP SLUDGE SITE	SLUDGE
730225	WT	ROY LEE BASS FARM	SLUDGE
730227	WT	JOHN PEURIFOY FARM	SLUDGE
730228	WT	KEMP II FARM	SLUDGE
730229	WT	KEMP I FARM	SLUDGE
730230	WT	RONALD HARMON FARM 3 WTP SLUDGE SITE	SLUDGE
730231	WT	RONALD HARMON FARM - EAST	SLUDGE
730232	WT	RONALD HARMON FARM 2 WTP SLUDGE SITE	SLUDGE

Texas Commission on Environmental Quality

SLUDGE TRANSPORTER

Registration Number: 24979

Print Date: November 29, 2022

For the Commission

730233	WT	SHELTON RANCH WTP SLUDGE APPLICATION SITE	SLUDGE
730234	WT	HAMILTON FARM WTP SLUDGE APPLICATION SITE	SLUDGE
730238	WT	GARY PARKS FARM	SLUDGE
730306	WT	TERRA RENEWAL SERVICES	SLUDGE
730307	WT	JERRY HUTCHINGS WTP SLUDGE APPLICATION SITE	SLUDGE
730311	WT	PHILLIP BOW FARM II WTP SLUDGE SITE	SLUDGE
730324	WT	CHARLES MARTIN RANCH	SLUDGE
730326	WT	CHARLES WEESE FARM	SLUDGE
730327	WT	DARRELL ANDERTON FARM	SLUDGE
730330	WT	SULLIVAN FARM SITE	SLUDGE
730332	WT	FANNIN RANCH	SLUDGE
730334	WT	JACK KEMP FARM	SLUDGE
730337	WT	WELBORN FARM	SLUDGE
730338	WT	HAMMACK FARM	SLUDGE
730339	WT	WOLF FARM	SLUDGE
730340	WT	MARTIN NO2 FARM	SLUDGE
730342	WT	MCCUTCHIN FARM 3	SLUDGE
730343	WT	MCCUTCHIN 2 WTP SLUDGE APPLICATION SITE	SLUDGE
730344	WT	MARRIOTT FARM	SLUDGE
730345	WT	MCCUTCHIN 1	SLUDGE
730346	WT	AQUILLA WATER SUPPLY DISTRICT	SLUDGE
730348	WT	PATRICIA GUNBY FARM	SLUDGE
730357	WT	FISCHER RANCH	SLUDGE
730358	WT	G DOAN FARM	SLUDGE
730359	WT	M DOAN FARM	SLUDGE
730366	WT	NORTH TEXAS MUNICIPAL WATER DISTRICT FARM	SLUDGE
730368	WT	NADINE SHINN FARM	SLUDGE
730369	WT	CR HAMILTON FARM	SLUDGE
730370	WT	KEMP 3 FARM	SLUDGE
730381	WT	NEUHAUS FARM 1	SLUDGE
730385	WT	TODD WINTTERS FARM	SLUDGE
730386	WT	GARZA TRUST WTP PLANT	SLUDGE
730415	WT	CROFT FARM	SLUDGE
730432	WT	CHAD DAVIS FARM	SLUDGE
WQ0004460000	WT; WW	HENDERSON LIBERTY FARMS	SLUDGETR
WQ0004463000	WT; WW	AMERICAN WATER SERVICES RESIDUALS MGT	SLUDGETR
WQ0004513000	WT; WW	ROBERT GRIFFIN SITE	SLUDGETR
WQ0004830000	WT; WW	IRON FARM CATTLE	SLUDGETR
WQ0004861000	WT; WW	REAVIS FARM SOUTH	SLUDGETR
WQ0004923000	WT; WW	REAVIS MCCOOK NORTH	SLUDGETR
WQ0004924000	WT; WW	REAVIS MCCOOK SOUTH	SLUDGETR
WQ0004943000	WT; WW	AYERS WYATT FARM	SLUDGETR
WQ0004989000	WT; WW	HARRISON SLOAN FARM	SLUDGETR
WQ0005186000	WT; WW	RIO FARMS	SLUDGETR
WQ0005226000	WT; WW	GARZA FARM 1	SLUDGETR
WQ0005232000	WT; WW	CARRALES RANCH	SLUDGETR

Waste Types

DS - Septic Tank Waste
GS - Grease Trap Waste
GT - Grit Trap Waste
PP - Chemical Toilet Waste
WT - Water Treatment Residuals
WW - Sewage Sludge/Biosolids

Texas Commission on Environmental Quality

SLUDGE TRANSPORTER

Registration Number: 24979

Print Date: November 29, 2022

For the Commission

Vehicle Information

License Plate	Year	Vehicle Make	Sticker Issued	Vehicle Capacity
K819846	2011	PETERBILT	01/30/2015	6000 GAL
K781589	2011	PETERBILT	01/30/2015	6000 GAL
K796261	2013	PETERBILT	01/30/2015	6000 GAL
K813854	2017	PETERBILT	05/17/2016	4600 GAL
K799310	2017	PETERBILT	05/17/2016	4600 GAL
H510186	2017	MACK	12/06/2016	4600 GAL
H510187	2017	MACK	12/06/2016	4600 GAL
H510188	2017	MACK	12/06/2016	4600 GAL
K802217	2018	PETERBILT	02/28/2017	6000 GAL
K802449	2018	PETERBILT	04/04/2017	6000 GAL
H510297	2013	MACK	10/18/2017	6000 GAL
H510957	2012	MACK	03/16/2018	6000 GAL
H510417	2012	MACK	10/10/2018	4200 GAL
H510420	2012	MACK	10/10/2018	4200 GAL
H510432	2018	MACK	10/10/2018	4200 GAL
H510433	2018	MACK	10/10/2018	4200 GAL
K810040	2020	PETERBILT	04/22/2019	6000 GAL
H510996	2019	MACK	09/16/2019	4600 GAL
H510544	2012	PETERBILT	12/17/2019	3600 GAL
K810851	2014	PETERBILT	12/17/2019	6000 GAL
K810459	2016	PETERBILT	12/17/2019	6000 GAL
K810825	2007	PETERBILT	08/31/2020	6000 GAL
K810826	2013	PETERBILT	08/31/2020	6000 GAL
K810847	2014	PETERBILT	08/31/2020	6000 GAL
K810848	2014	PETERBILT	08/31/2020	6000 GAL
K810849	2009	PETERBILT	08/31/2020	6000 GAL
K810850	2014	PETERBILT	08/31/2020	6000 GAL
K807673	2015	MACK	08/31/2020	6000 GAL
K807684	2018	MACK	08/31/2020	6000 GAL
K810934	2018	MACK	08/31/2020	6000 GAL
H510306	2012	MACK	08/31/2020	6000 GAL
K813719	2020	MACK	08/31/2020	6000 GAL
K803951	2011	MACK	08/31/2020	6000 GAL
1N00164	2007	PETERBILT	09/30/2020	6000 GAL
K810841	2013	PETERBILT	09/30/2020	6000 GAL
H510550	2005	MACK	09/30/2020	18 CY
H510549	2002	MACK	09/30/2020	18 CY
3GL964	2019	MACK	09/14/2022	6000 GAL
H510689	2020	MACK	09/14/2022	4600 GAL
J611683	2016	KENWORTH	09/14/2022	15 CY

Texas Commission on Environmental Quality

SLUDGE TRANSPORTER

Registration Number: 24979

Print Date: November 29, 2022

For the Commission

K790544	1998	FREIGHTLINER	09/14/2022	6000 GAL
K796996	1995	PETERBILT	09/14/2022	6000 GAL
K799472	2000	FREIGHTLINER	09/14/2022	6000 GAL
K803954	2014	MACK	09/14/2022	6000 GAL
K803955	2014	MACK	09/14/2022	4600 GAL
K818384	2021	MACK	09/14/2022	6000 GAL
K818385	2021	MACK	09/14/2022	6000 GAL
K818393	2022	MACK	09/14/2022	6000 GAL
K820791	2020	MACK	09/14/2022	4600 GAL
P255667	2009	MACK	09/14/2022	4600 GAL
K813718	2020	MACK	09/14/2022	6000 GAL

*UOM - Units of Measure

Attachment 14.

Soil Analysis

SOIL SAMPLES
2023

FIELD	ACRES	SAMPLE	NO_3-N mg/kg		NO_3-N lbs/ac				pH	
			0-6"	6-24"	0-6"	6-24"	Total	Max		Average
	655	1	3	4	6	24	30	70	7.7	7.9
		2	2	11	4	66	70		8	
		3	2	2	4	12	16		8	
		4	2	7	4	42	46		8	
		5	2	4	4	24	28		8	
		6	3	5	6	30	36		8	
		7	2	5	4	30	34		8	
		8	2	6	4	36	40		7.9	
		9	1	6	2	36	38		7.7	

Waypoint ANALYTICAL
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7/14/2023

Denali Water Solutions
Ms. Vanya Colburn
P.O. Box 3036
Russellville, AR, 72802

Ref: Analytical Testing
Lab Report Number: 23-188-0207
Client Project Description: The Valley - The Reavis South WQ 4861
0-6" Soil Samples

Dear Ms. Vanya Colburn:
Waypoint Analytical, LLC. received sample(s) on 7/7/2023 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in accordance with the applicable analytical method. Where the laboratory was not responsible for the sampling stage (refer to the chain of custody) results apply to the sample as received.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters (NELAP and non-NELAP) were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule May 2021) and NELAC unless otherwise indicated. Any parameter for which the laboratory is not officially NELAP accredited is indicated by a '~' symbol. These are not included in the scope because NELAP accreditation is either not available or has not been applied for. Additional certifications may be held/are available for parameters, where NELAP accreditation is not required or applicable. A full list of certifications is available upon request.

Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance.

The results are shown on the attached Report of Analysis(s). Results for solid matrices are reported on an as-received basis unless otherwise indicated. This report shall not be reproduced except in full and relates only to the samples included in this report.

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,

Randell H. Thomas

Randy Thomas
Project Manager

Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis.

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Certification Summary

Laboratory ID: WP MTN: Waypoint Analytical, LLC., Memphis, TN

State	Program	Lab ID	Expiration Date
Alabama	State Program	40750	02/29/2024
Arkansas	State Program	88-0650	02/07/2024
California	State Program	2904	06/30/2023
Florida	State Program - NELAP	E871157	06/30/2024
Georgia	State Program	C044	11/14/2025
Georgia	State Program	04015	06/30/2024
Illinois	State Program - NELAP	200078	10/10/2023
Kentucky	State Program	80215	06/30/2024
Kentucky	State Program	KY90047	12/31/2023
Louisiana	State Program - NELAP	LA037	12/31/2023
Louisiana	State Program - NELAP	04015	06/30/2024
Mississippi	State Program	MS	11/14/2025
North Carolina	State Program	47701	07/31/2023
North Carolina	State Program	415	12/31/2023
Pennsylvania	State Program - NELAP	68-03195	05/31/2024
South Carolina	State Program	84002	06/30/2023
Tennessee	State Program	02027	11/14/2025
Texas	State Program - NELAP	T104704180	09/30/2023
Virginia	State Program	00106	06/30/2024
Virginia	State Program - NELAP	460181	09/14/2023

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Sample Summary Table

Report Number: **23-188-0207**

Client Project Description: **The Valley - The Reavis South WQ 4861**
0-6" Soil Samples

Lab No	Client Sample ID	Matrix	Date Collected	Date Received
97270	1	Solids		07/07/2023
97271	2	Solids		07/07/2023
97272	3	Solids		07/07/2023
97273	4	Solids		07/07/2023
97274	5	Solids		07/07/2023
97275	6	Solids		07/07/2023
97276	7	Solids		07/07/2023
97277	8	Solids		07/07/2023
97278	9	Solids		07/07/2023

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Client: Denali Water Solutions
Project: The Valley - The Reavis South WQ 4861
Lab Report Number: 23-188-0207
Date: 7/14/2023

CASE NARRATIVE

Metals Analysis Method 6010D
Sample 97295 (19)
Analyte: Molybdenum
QC Batch No: L692735/L691750
The matrix spike and/or the matrix spike duplicate was outside quality control acceptance ranges. A post digestion spike was performed and passed quality control acceptance ranges. No matrix interference is suspected.

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11675
Denali Water Solutions
Ms. Vanya Colburn
P.O. Box 3036
Russellville , AR 72802

Project Information : The Valley - The Reavis South WQ 4861
0-6" Soil Samples

Report Date : 07/14/2023

Report Number : **23-188-0207**

REPORT OF ANALYSIS

Received : 07/07/2023

Lab No : **97270**
Sample ID : **1**

Matrix: **Solids**
Sampled:

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Moisture	**4.31**	%		1	07/13/23 13:55	KDO	SW-DRYWT
Arsenic	**2.51**	mg/Kg - dry	0.522	1	07/11/23 23:46	BKN	6010D
Cadmium	**0.115**	mg/Kg - dry	0.105	1	07/11/23 23:46	BKN	6010D
Chromium	**7.44**	mg/Kg - dry	0.261	1	07/11/23 23:46	BKN	6010D
Copper	**6.39**	mg/Kg - dry	0.523	1	07/11/23 23:46	BKN	6010D
Lead	**4.93**	mg/Kg - dry	0.313	1	07/11/23 23:46	BKN	6010D
Mercury	<0.182	mg/Kg - dry	0.182	1	07/11/23 11:05	MRE	7471A
Molybdenum	<0.261	mg/Kg - dry	0.261	1	07/11/23 23:46	BKN	6010D
Nickel	**5.64**	mg/Kg - dry	0.261	1	07/11/23 23:46	BKN	6010D
Selenium	<0.522	mg/Kg - dry	0.522	1	07/11/23 23:46	BKN	6010D
Zinc	**24.2**	mg/Kg - dry	1.31	1	07/11/23 23:46	BKN	6010D

Qualifiers/ Definitions

DF Dilution Factor
MQL Method Quantitation Limit
L Limit Exceeded

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Ms. Vanya Colburn
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Russellville , AR 72802

Project Information : The Valley - The Reavis South WQ 4861
0-6" Soil Samples

Report Date : 07/14/2023

Report Number : **23-188-0207**

REPORT OF ANALYSIS

Received : 07/07/2023

Lab No : **97271**
Sample ID : **2**

Matrix: **Solids**
Sampled:

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Moisture	**2.22**	%		1	07/13/23 13:55	KDO	SW-DRYWT
Arsenic	**2.51**	mg/Kg - dry	0.511	1	07/11/23 23:51	BKN	6010D
Cadmium	**0.129**	mg/Kg - dry	0.102	1	07/11/23 23:51	BKN	6010D
Chromium	**7.51**	mg/Kg - dry	0.255	1	07/11/23 23:51	BKN	6010D
Copper	**7.00**	mg/Kg - dry	0.511	1	07/11/23 23:51	BKN	6010D
Lead	**5.08**	mg/Kg - dry	0.306	1	07/11/23 23:51	BKN	6010D
Mercury	<0.184	mg/Kg - dry	0.184	1	07/11/23 11:07	MRE	7471A
Molybdenum	<0.255	mg/Kg - dry	0.255	1	07/11/23 23:51	BKN	6010D
Nickel	**5.73**	mg/Kg - dry	0.255	1	07/11/23 23:51	BKN	6010D
Selenium	<0.511	mg/Kg - dry	0.511	1	07/11/23 23:51	BKN	6010D
Zinc	**25.8**	mg/Kg - dry	1.28	1	07/11/23 23:51	BKN	6010D

Qualifiers/ Definitions

DF Dilution Factor
MQL Method Quantitation Limit
L Limit Exceeded

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Project Information : The Valley - The Reavis South WQ 4861
0-6" Soil Samples

Report Date : 07/14/2023

Report Number : **23-188-0207**

REPORT OF ANALYSIS

Received : 07/07/2023

Lab No : **97272**
Sample ID : **3**

Matrix: **Solids**
Sampled:

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Moisture	**2.46**	%		1	07/13/23 13:55	KDO	SW-DRYWT
Arsenic	**2.34**	mg/Kg - dry	0.512	1	07/11/23 23:57	BKN	6010D
Cadmium	**0.113**	mg/Kg - dry	0.103	1	07/11/23 23:57	BKN	6010D
Chromium	**7.28**	mg/Kg - dry	0.256	1	07/11/23 23:57	BKN	6010D
Copper	**6.46**	mg/Kg - dry	0.513	1	07/11/23 23:57	BKN	6010D
Lead	**5.05**	mg/Kg - dry	0.307	1	07/11/23 23:57	BKN	6010D
Mercury	<0.171	mg/Kg - dry	0.171	1	07/11/23 11:08	MRE	7471A
Molybdenum	<0.256	mg/Kg - dry	0.256	1	07/11/23 23:57	BKN	6010D
Nickel	**5.60**	mg/Kg - dry	0.256	1	07/11/23 23:57	BKN	6010D
Selenium	<0.512	mg/Kg - dry	0.512	1	07/11/23 23:57	BKN	6010D
Zinc	**24.2**	mg/Kg - dry	1.28	1	07/11/23 23:57	BKN	6010D

Qualifiers/ Definitions

DF Dilution Factor
MQL Method Quantitation Limit
L Limit Exceeded

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Project Information : The Valley - The Reavis South WQ 4861
0-6" Soil Samples

Report Date : 07/14/2023
Received : 07/07/2023

Report Number : **23-188-0207**

REPORT OF ANALYSIS

Lab No : **97273**
Sample ID : **4**

Matrix: **Solids**
Sampled:

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Moisture	**2.35**	%		1	07/13/23 13:55	KDO	SW-DRYWT
Arsenic	**2.50**	mg/Kg - dry	0.512	1	07/12/23 00:02	BKN	6010D
Cadmium	**0.134**	mg/Kg - dry	0.102	1	07/12/23 00:02	BKN	6010D
Chromium	**7.75**	mg/Kg - dry	0.256	1	07/12/23 00:02	BKN	6010D
Copper	**6.98**	mg/Kg - dry	0.512	1	07/12/23 00:02	BKN	6010D
Lead	**5.07**	mg/Kg - dry	0.307	1	07/12/23 00:02	BKN	6010D
Mercury	<0.182	mg/Kg - dry	0.182	1	07/11/23 11:09	MRE	7471A
Molybdenum	<0.256	mg/Kg - dry	0.256	1	07/12/23 00:02	BKN	6010D
Nickel	**5.77**	mg/Kg - dry	0.256	1	07/12/23 00:02	BKN	6010D
Selenium	<0.512	mg/Kg - dry	0.512	1	07/12/23 00:02	BKN	6010D
Zinc	**26.0**	mg/Kg - dry	1.28	1	07/12/23 00:02	BKN	6010D

Qualifiers/ Definitions

DF Dilution Factor
MQL Method Quantitation Limit
L Limit Exceeded

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Project Information : The Valley - The Reavis South WQ 4861
0-6" Soil Samples

Report Date : 07/14/2023

Report Number : **23-188-0207**

REPORT OF ANALYSIS

Received : 07/07/2023

Lab No : **97274**
Sample ID : **5**

Matrix: **Solids**
Sampled:

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Moisture	**2.43**	%		1	07/13/23 13:55	KDO	SW-DRYWT
Arsenic	**2.57**	mg/Kg - dry	0.512	1	07/12/23 00:07	BKN	6010D
Cadmium	**0.121**	mg/Kg - dry	0.102	1	07/12/23 00:07	BKN	6010D
Chromium	**7.71**	mg/Kg - dry	0.256	1	07/12/23 00:07	BKN	6010D
Copper	**7.03**	mg/Kg - dry	0.512	1	07/12/23 00:07	BKN	6010D
Lead	**5.19**	mg/Kg - dry	0.307	1	07/12/23 00:07	BKN	6010D
Mercury	<0.181	mg/Kg - dry	0.181	1	07/11/23 11:11	MRE	7471A
Molybdenum	<0.256	mg/Kg - dry	0.256	1	07/12/23 00:07	BKN	6010D
Nickel	**5.94**	mg/Kg - dry	0.256	1	07/12/23 00:07	BKN	6010D
Selenium	<0.512	mg/Kg - dry	0.512	1	07/12/23 00:07	BKN	6010D
Zinc	**26.0**	mg/Kg - dry	1.28	1	07/12/23 00:07	BKN	6010D

Qualifiers/ Definitions

DF Dilution Factor
MQL Method Quantitation Limit
L Limit Exceeded

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Project Information : The Valley - The Reavis South WQ 4861
0-6" Soil Samples

Report Date : 07/14/2023

Report Number : **23-188-0207**

REPORT OF ANALYSIS

Received : 07/07/2023

Lab No : **97275**
Sample ID : **6**

Matrix: **Solids**
Sampled:

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Moisture	**2.04**	%		1	07/13/23 13:55	KDO	SW-DRYWT
Arsenic	**2.48**	mg/Kg - dry	0.510	1	07/12/23 00:12	BKN	6010D
Cadmium	**0.148**	mg/Kg - dry	0.102	1	07/12/23 00:12	BKN	6010D
Chromium	**7.82**	mg/Kg - dry	0.255	1	07/12/23 00:12	BKN	6010D
Copper	**7.04**	mg/Kg - dry	0.510	1	07/12/23 00:12	BKN	6010D
Lead	**5.16**	mg/Kg - dry	0.306	1	07/12/23 00:12	BKN	6010D
Mercury	<0.189	mg/Kg - dry	0.189	1	07/11/23 11:15	MRE	7471A
Molybdenum	<0.255	mg/Kg - dry	0.255	1	07/12/23 00:12	BKN	6010D
Nickel	**5.90**	mg/Kg - dry	0.255	1	07/12/23 00:12	BKN	6010D
Selenium	<0.510	mg/Kg - dry	0.510	1	07/12/23 00:12	BKN	6010D
Zinc	**26.5**	mg/Kg - dry	1.28	1	07/12/23 00:12	BKN	6010D

Qualifiers/ Definitions

DF Dilution Factor
MQL Method Quantitation Limit
L Limit Exceeded

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11675
Denali Water Solutions
Ms. Vanya Colburn
P.O. Box 3036
Russellville , AR 72802

Project Information : The Valley - The Reavis South WQ 4861
0-6" Soil Samples

Report Date : 07/14/2023
Received : 07/07/2023

Report Number : **23-188-0207**

REPORT OF ANALYSIS

Lab No : **97276**
Sample ID : **7**

Matrix: **Solids**
Sampled:

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Moisture	**2.60**	%		1	07/13/23 13:55	KDO	SW-DRYWT
Arsenic	**2.57**	mg/Kg - dry	0.513	1	07/14/23 00:46	TJS	6010D
Cadmium	**0.282**	mg/Kg - dry	0.103	1	07/14/23 00:46	TJS	6010D
Chromium	**7.28**	mg/Kg - dry	0.256	1	07/14/23 00:46	TJS	6010D
Copper	**6.78**	mg/Kg - dry	0.513	1	07/14/23 00:46	TJS	6010D
Lead	**5.12**	mg/Kg - dry	0.308	1	07/14/23 00:46	TJS	6010D
Mercury	<0.168	mg/Kg - dry	0.168	1	07/11/23 11:17	MRE	7471A
Molybdenum	<0.256	mg/Kg - dry	0.256	1	07/14/23 00:46	TJS	6010D
Nickel	**5.53**	mg/Kg - dry	0.256	1	07/14/23 00:46	TJS	6010D
Selenium	<0.513	mg/Kg - dry	0.513	1	07/14/23 00:46	TJS	6010D
Zinc	**24.9**	mg/Kg - dry	1.28	1	07/14/23 00:46	TJS	6010D

Qualifiers/ Definitions

DF Dilution Factor
MQL Method Quantitation Limit
L Limit Exceeded

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11675
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P.O. Box 3036
Russellville , AR 72802

Project Information : The Valley - The Reavis South WQ 4861
0-6" Soil Samples

Report Date : 07/14/2023
Received : 07/07/2023

Report Number : **23-188-0207**

REPORT OF ANALYSIS

Lab No : **97277**
Sample ID : **8**

Matrix: **Solids**
Sampled:

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Moisture	**2.48**	%		1	07/13/23 13:55	KDO	SW-DRYWT
Arsenic	**2.29**	mg/Kg - dry	0.512	1	07/14/23 00:51	TJS	6010D
Cadmium	**0.186**	mg/Kg - dry	0.103	1	07/14/23 00:51	TJS	6010D
Chromium	**6.49**	mg/Kg - dry	0.256	1	07/14/23 00:51	TJS	6010D
Copper	**6.11**	mg/Kg - dry	0.513	1	07/14/23 00:51	TJS	6010D
Lead	**4.77**	mg/Kg - dry	0.307	1	07/14/23 00:51	TJS	6010D
Mercury	<0.185	mg/Kg - dry	0.185	1	07/11/23 11:27	MRE	7471A
Molybdenum	<0.256	mg/Kg - dry	0.256	1	07/14/23 00:51	TJS	6010D
Nickel	**4.93**	mg/Kg - dry	0.256	1	07/14/23 00:51	TJS	6010D
Selenium	<0.512	mg/Kg - dry	0.512	1	07/14/23 00:51	TJS	6010D
Zinc	**22.3**	mg/Kg - dry	1.28	1	07/14/23 00:51	TJS	6010D

Qualifiers/ Definitions

DF Dilution Factor
MQL Method Quantitation Limit
L Limit Exceeded

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11675
Denali Water Solutions
Ms. Vanya Colburn
P.O. Box 3036
Russellville , AR 72802

Project Information : The Valley - The Reavis South WQ 4861
0-6" Soil Samples

Report Date : 07/14/2023
Received : 07/07/2023

Report Number : **23-188-0207**

REPORT OF ANALYSIS

Lab No : **97278**
Sample ID : **9**

Matrix: **Solids**
Sampled:

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Moisture	**2.41**	%		1	07/13/23 13:55	KDO	SW-DRYWT
Arsenic	**2.48**	mg/Kg - dry	0.512	1	07/14/23 01:06	TJS	6010D
Cadmium	**0.298**	mg/Kg - dry	0.102	1	07/14/23 01:06	TJS	6010D
Chromium	**7.38**	mg/Kg - dry	0.256	1	07/14/23 01:06	TJS	6010D
Copper	**6.37**	mg/Kg - dry	0.512	1	07/14/23 01:06	TJS	6010D
Lead	**5.07**	mg/Kg - dry	0.307	1	07/14/23 01:06	TJS	6010D
Mercury	<0.170	mg/Kg - dry	0.170	1	07/11/23 11:28	MRE	7471A
Molybdenum	<0.256	mg/Kg - dry	0.256	1	07/14/23 01:06	TJS	6010D
Nickel	**5.43**	mg/Kg - dry	0.256	1	07/14/23 01:06	TJS	6010D
Selenium	<0.512	mg/Kg - dry	0.512	1	07/14/23 01:06	TJS	6010D
Zinc	**24.1**	mg/Kg - dry	1.28	1	07/14/23 01:06	TJS	6010D

Qualifiers/ Definitions

DF Dilution Factor
MQL Method Quantitation Limit
L Limit Exceeded

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Shipment Receipt Form

Customer Number: **11675**
Customer Name: **Denali Water Solutions**
Report Number: **23-188-0207**

Shipping Method

○ Fed Ex	○ US Postal	○ Lab	○ Other :	
● UPS	○ Client	○ Courier	Thermometer ID:	N/A

Shipping container/cooler uncompromised?	● Yes	○ No	
Number of coolers/boxes received	1		
Custody seals intact on shipping container/cooler?	○ Yes	○ No	● Not Present
Custody seals intact on sample bottles?	○ Yes	○ No	● Not Present
Chain of Custody (COC) present?	● Yes	○ No	
COC agrees with sample label(s)?	● Yes	○ No	
COC properly completed	● Yes	○ No	
Samples in proper containers?	● Yes	○ No	
Sample containers intact?	● Yes	○ No	
Sufficient sample volume for indicated test(s)?	● Yes	○ No	
All samples received within holding time?	● Yes	○ No	
Cooler temperature in compliance?	● Yes	○ No	
Cooler/Samples arrived at the laboratory on ice. Samples were considered acceptable as cooling process had begun.	○ Yes	● No	
Water - Sample containers properly preserved	○ Yes	○ No	● N/A
Water - VOA vials free of headspace	○ Yes	○ No	● N/A
Trip Blanks received with VOAs	○ Yes	○ No	● N/A
Soil VOA method 5035 – compliance criteria met	○ Yes	○ No	● N/A

☐ High concentration container (48 hr) ☐ Low concentration EnCore samplers (48 hr)
☐ High concentration pre-weighed (methanol -14 d) ☐ Low conc pre-weighed vials (Sod Bis -14 d)

Special precautions or instructions included?	○ Yes	● No

Comments:

Signature: Makayla Weaver Date & Time: 07/07/2023 16:48:44

Needs to be Split (Corn)

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SOIL SAMPLE INFORMATION SHEET

CUSTOMER INFORMATION				GROWER INFORMATION			
Denali Water Solutions				The Valley - Reavis South WQ 4861			
P.O. Box 3036				TX- 0-6"			
Russellville, AR 72811				Send Report to e-mail address			
Account #	11675	Grower ID		Farm ID		Field ID	R 5

Please check samples in column provided if Herbicide or Nematode analysis requested. If Herbicide, please indicate name of Herbicide in Add'l Info box below.

Lab Number (Lab Use Only)	Sample ID (6 chars. max)	S1M	S2M - Specify Add'l Tests B	Cu	Fe	Mn	Na	S	Zn	S3M	Soluble Salts	Texture	NO3-N	Additional Tests	Intended Crop Code	Intended Crop Yield	Alternate Crop Code	Alternate Crop Yield	Previous Crop	Herbicide	Nematode
	1	x		x			x		x				✓	**	162	Max					
	2	x		x			x		x				✓	**							
	3	x		x			x		x				✓	**							
	4	x		x			x		x				✓	**			Split				
	5	x		x			x		x				✓	**							
	6	x		x			x		x				✓	**							
	7	x		x			x		x				✓	**							
	8	x		x			x		x				✓	**							
	9	x		x			x		x				✓	**	✓	✓					
		x					x							**							

S1M - Organic Matter, Phosphorous, Potassium, Calcium, Magnesium, pH, Buffer pH
S2M - S1M plus any two of the following: Sodium, Sulfate-Sulfur, Boron, Zinc, Manganese, Iron, Copper. Each additional test (above two) cost $2.00.
The Manganese, Iron, Copper.

23-188-0207
11675
07-07-2023
16:47:52
Denali Water Solutions
The Valley - The Reavis South WQ 4861

ILIZER RECOMMENDATIONS ARE REQUESTED

tions is not listed, write the crop name in the crop code boxes.

GE CROPS

161. Coastal Bermuda Hay
162. Coastal Bermuda Pasture
172. Cool Season Grass Pasture
173. Cool Season Grass Hay
181. Fescue Hay
182. Fescue Pasture
183. Fescue/Legume Hay
184. Fescue/Legume Pasture
237. Ryegrass

12. Corn - No Till
13. Corn Silage
20. Cotton
21. Cotton - No Till
25. Grain Sorghum
30. Oats
32. Peanuts
34. Popcorn
35. Rapeseed
36. Rice
39. Rye
45. Soybeans
46. Soybeans - No Till
51. Sugarcane - Plant
52. Sugarcane - Stubble
62. Tobacco - Burley
63. Tobacco - Dark
64. Tobacco - Flue Cured
75. Wheat
78. Wheat Silage/Corn Silage
92. Wheat/Beans Double Crop

117. Bahiagrass Pasture
121. Common Bermuda Hay
122. Common Bermuda Pasture
123. Common Bermuda/Legume Hay
124. Common Bermuda/Legume Pasture

INDICATE TYPE OF GRASS AND/OR LEGUME

297. OTHER HAY
298. OTHER PASTURE
299. CRP

VEGETABLE CROPS

307. Beans - Lima
309. Beans - Snap
320. Cabbage
322. Cantaloupe
330. Cucumbers
340. Garden
369. Peppers
381. Spinach
382. Squash
383. Sweet Corn
384. Sweet Potato(ton)
391. Sweet Potato(bu)
385. Tomatoes
398. Watermelons

FRUIT & NUT CROPS

400. Apples
410. Blueberries
420. Citrus
430. Grapes
470. Peaches
475. Pecans
490. Strawberries

TURFGRASS

512. Bahiagrass Lawn
513. Bahiagrass Sod Production
517. Bentgrass Green
521. Bermudagrass Athletic Field
522. Bermudagrass Fairway
523. Bermudagrass Green
524. Bermudagrass Lawn
525. Bermudagrass Sod Production
526. Bermudagrass Tee
533. Bluegrass Lawn
534. Bluegrass Sod Production
546. Centipede Lawn
547. Centipede Sod Production
561. Fescue Athletic Field
563. Fescue Lawn
564. Fescue Sod Production
576. St. Augustine Lawn
577. St. Augustine Sod Production
583. Zoysiagrass Lawn
584. Zoysiagrass Sod Production

Additional Tests or Other Information

Additional Test - Arsenic,Cadmium,Chromium,Lead,Mercury,Molybdenum,Nickel,Selenium,Electrical Conductivity
Ammonium N, Total Kjeldahl N, Nitrate N (NO3-N)

Please Report in mg/kg

7/7/23

SOIL TESTING INFORMATION

Soil samples shall be taken prior to any application of commercial fertilizer. Do not use a galvanized container as this could give a false reading on zinc. Samples will need to be taken within the same 45 day time-frame each year, or by an approved sampling plan and analyzed within 30 days of sample collection. The initial soil sample for application approval may be taken whenever necessary.

Obtain one composite sample for each soil depth per 80 acres and per uniform soil type (soils with the same characteristics and texture) within the 80 acres, or per approved soil sampling plan. Composite samples shall be comprised of 10 - 15 random sample cores taken from each of the following soil depth zones: 0-6 inches and 6-24 inches.

Soil samples shall be submitted to a soil testing laboratory along with a previous crop history of the site, intended crop growth and yield goal. Soil reports shall include fertilizer recommendations for the crop yield goal. Samples shall be analyzed for the parameters below:

Parameter (7)		0- 6 "	6 -24"
Nitrate Nitrogen (NO3-N, mg/kg)	(1)	x	x
Ammonium Nitrogen (NH4-N, mg/kg)	(1)	x	x
Total Kjeldahl Nitrogen (TKN, mg/kg)	(2)	x	x
Phosphorus (plant available, mg/kg)	(3)	x	x
Potassium (plant available, mg/kg)	(3)	x	x
Sodium (plant available, mg/kg)	(3)	x	x
Magnesium (plant available, mg/kg)	(3)	x	x
Calcium (plant available, mg/kg)	(3)	x	x
Electrical Conductivity	(4)	x	x
Soil Water pH (S.U.)	(5)	x	x
Total Arsenic (mg/kg)	(6)	x	N/A
Total Cadmium (mg/kg)	(6)	x	N/A
Total Chromium (mg/kg)	(6)	x	N/A
Total Copper (mg/kg)	(6)	x	N/A
Total Lead (mg/kg)	(6)	x	N/A
Total Mercury (mg/kg)	(6)	x	N/A
Total Molybdenum (mg/kg)	(6)	x	N/A
Total Nickel (mg/kg)	(6)	x	N/A
Total Selenium (mg/kg)	(6)	x	N/A
Total Zinc (mg/kg)	(6)	x	N/A

1. Determined in a 1 N KCl soil extract (http://soiltesting.tamu.edu/webpages/swftlmethods1209.html).
2. Determined by Kjeldahl digestion or an equivalent accepted procedure. Methods that rely on Mercury as a catalyst are not acceptable.
3. Mehlich III extraction (yields plant-available concentrations) with inductively coupled plasma.
4. Electrical Conductivity (EC) - determine from extract of 2:1 (volume/volume) water/soil mixture and expressed in dS/m (same as mmho/cm).
5. Soil pH must be analyzed by the electrometric method in Test Methods for Evaluating Solid Waste, EPA SW-846, 40 CFR 260.11; method 9045C - determine from extract of 2:1 (volume/volume) water/soil mixture.
6. Analysis for metals in soil must be performed according to methods outlined in Test Methods for Evaluating Solid Waste, EPA SW-846; method 3050.
7. All parameters must be analyzed on a dry weight basis, except Soil Water pH and Electrical Conductivity.

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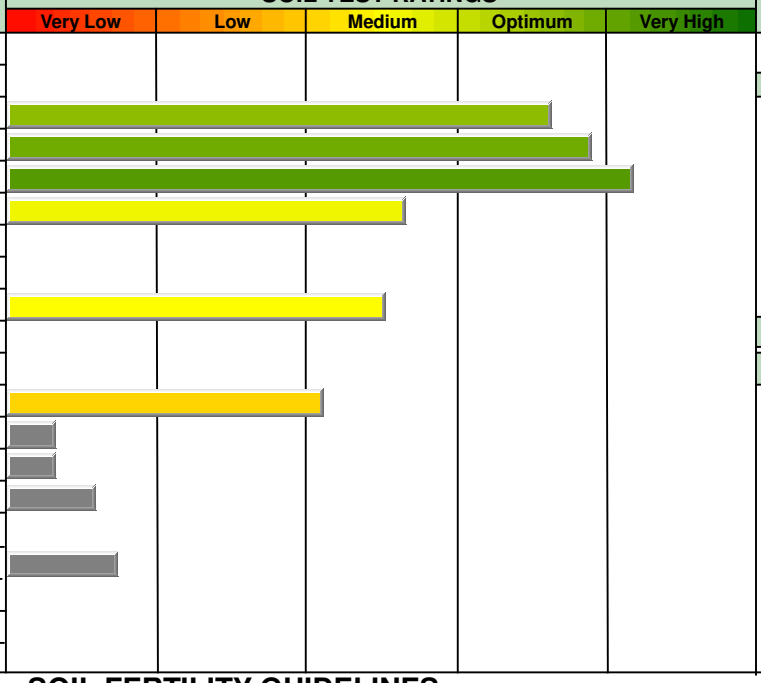
SOIL ANALYSIS

Client :	Grower :	
Denali Water Solutions Ms. Vanya Colburn P.O. Box 3036 Russellville AR 72802	The Valley- Reavis South WQ 4861 TX- 0-6"	Report No: 23-188-0742 Cust No: 11675 Date Printed: 07/20/2023 Date Received : 07/07/2023 PO: Page : 1 of 9

Lab No: 44853 **Field:** RS **Sample ID:** 1

Test	Method	Results
Soil pH	1:1	7.7
Buffer pH		
Phosphorus (P)	M3	43 mg/kg
Potassium (K)	M3	184 mg/kg
Calcium (Ca)	M3	2133 mg/kg
Magnesium (Mg)	M3	145 mg/kg
Sulfur (S)		
Boron (B)		
Copper (Cu)	M3	1.8 mg/kg
Iron (Fe)		
Manganese (Mn)		
Zinc (Zn)	M3	1.8 mg/kg
Sodium (Na)	M3	16 mg/kg
Soluble Salts	SS1:2	0.13 dS/m
Organic Matter	LOI	1.0%
Estimated N Release		64 lbs/acre
Nitrate Nitrogen	NO3N	3 mg/kg
Ammonium Nitrogen	NH4N	3 mg/kg
Total Kjeldahl Nitrogen		689 mg/kg

SOIL TEST RATINGS



Calculated Cation Exchange Capacity: **12.4** meq/100g

%Saturation

	%sat	meq
K	3.8	0.5
Ca	86.0	10.7
Mg	9.7	1.2
H	0.0	0.0
Na	0.6	0.1

K/Mg Ratio: 0.39

Ca/Mg Ratio: 8.87

SOIL FERTILITY GUIDELINES

Crop : Coastal Bermuda Pasture **Yield Goal :** 3 tons/acre **Rec Units:** LB/ACRE

(lbs)	LIME (tons)	N	P_2O_5	K_2O	Mg	S	B	Cu	Mn	Zn	Fe
0	0	144	39	51	0			0		0	

Crop : **Rec Units:**

Comments :

Coastal Bermuda Pasture

· For coastal or hybrid bermuda pastures, that are not on an intensive grazing program, the total nitrogen application should be 150 to 200 lbs N/Acre per season. Apply half of the fertilizer in the early spring and the remainder in mid-summer.

· For intensive grazing management of coastal or hybrid bermuda apply 300 to 250 lbs of N/acre per season. Split the fertilizer into 3 equal applications.

· For the establishment of bermudagrass or warm season grasses, apply the phosphorus and potassium and 30 to 50 lbs N/acre before sprigging or seeding.

· For soils low in sulfur, apply 20-40 lbs of sulfur as a sulfate in the spring with the nitrogen.

· For grass hay or pasture needing high rates split the P and K application. Apply 1/2 in the spring and 1/2 in late summer.

SMP - SMP Buffer pH M3 - Mehlich 3 NH4N - Ammonia-N NO3N - Nitrate-N LOI - Loss On Ignition 1:1 - Water pH SS1:2 - Soluble Salts

Analysis prepared by: Waypoint Analytical Tennessee, Inc.

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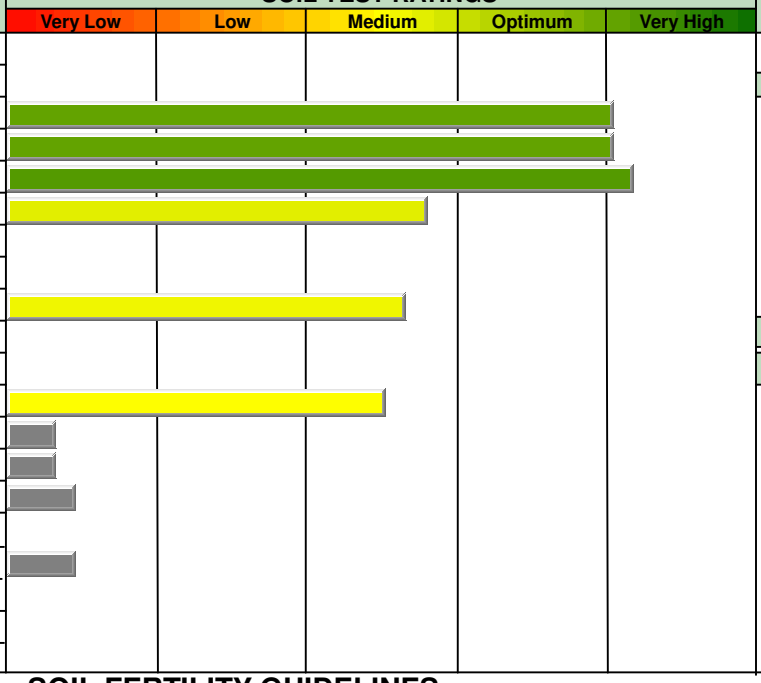
SOIL ANALYSIS

Client :	Grower :	
Denali Water Solutions Ms. Vanya Colburn P.O. Box 3036 Russellville AR 72802	The Valley- Reavis South WQ 4861 TX- 0-6"	Report No: 23-188-0742 Cust No: 11675 Date Printed: 07/20/2023 Date Received : 07/07/2023 PO: Page : 2 of 9

Lab No: 44854 **Field:** RS **Sample ID:** 2

Test	Method	Results
Soil pH	1:1	8.0
Buffer pH		
Phosphorus (P)	M3	57 mg/kg
Potassium (K)	M3	211 mg/kg
Calcium (Ca)	M3	2013 mg/kg
Magnesium (Mg)	M3	164 mg/kg
Sulfur (S)		
Boron (B)		
Copper (Cu)	M3	2.3 mg/kg
Iron (Fe)		
Manganese (Mn)		
Zinc (Zn)	M3	2.3 mg/kg
Sodium (Na)	M3	13 mg/kg
Soluble Salts	SS1:2	0.11 dS/m
Organic Matter	LOI	0.8%
Estimated N Release		60 lbs/acre
Nitrate Nitrogen	NO3N	2 mg/kg
Ammonium Nitrogen	NH4N	3 mg/kg
Total Kjeldahl Nitrogen		677 mg/kg

SOIL TEST RATINGS



Calculated Cation Exchange Capacity: **12.0** meq/100g

%Saturation

	%sat	meq
K	4.5	0.5
Ca	83.9	10.1
Mg	11.4	1.4
H	0.0	0.0
Na	0.5	0.1

K/Mg Ratio: 0.39

Ca/Mg Ratio: 7.36

SOIL FERTILITY GUIDELINES

Crop : Coastal Bermuda Pasture **Yield Goal :** 3 tons/acre **Rec Units:** LB/ACRE

(lbs)	LIME (tons)	N	P_2O_5	K_2O	Mg	S	B	Cu	Mn	Zn	Fe
0	0	146	30	40	0			0		0	

Crop : **Rec Units:**

Comments :

Coastal Bermuda Pasture

· For coastal or hybrid bermuda pastures, that are not on an intensive grazing program, the total nitrogen application should be 150 to 200 lbs N/Acre per season. Apply half of the fertilizer in the early spring and the remainder in mid-summer.

· For intensive grazing management of coastal or hybrid bermuda apply 300 to 250 lbs of N/acre per season. Split the fertilizer into 3 equal applications.

· For the establishment of bermudagrass or warm season grasses, apply the phosphorus and potassium and 30 to 50 lbs N/acre before sprigging or seeding.

· For soils low in sulfur, apply 20-40 lbs of sulfur as a sulfate in the spring with the nitrogen.

· For grass hay or pasture needing high rates split the P and K application. Apply 1/2 in the spring and 1/2 in late summer.

SMP - SMP Buffer pH M3 - Mehlich 3 NH4N - Ammonia-N NO3N - Nitrate-N LOI - Loss On Ignition 1:1 - Water pH SS1:2 - Soluble Salts

Analysis prepared by: Waypoint Analytical Tennessee, Inc.

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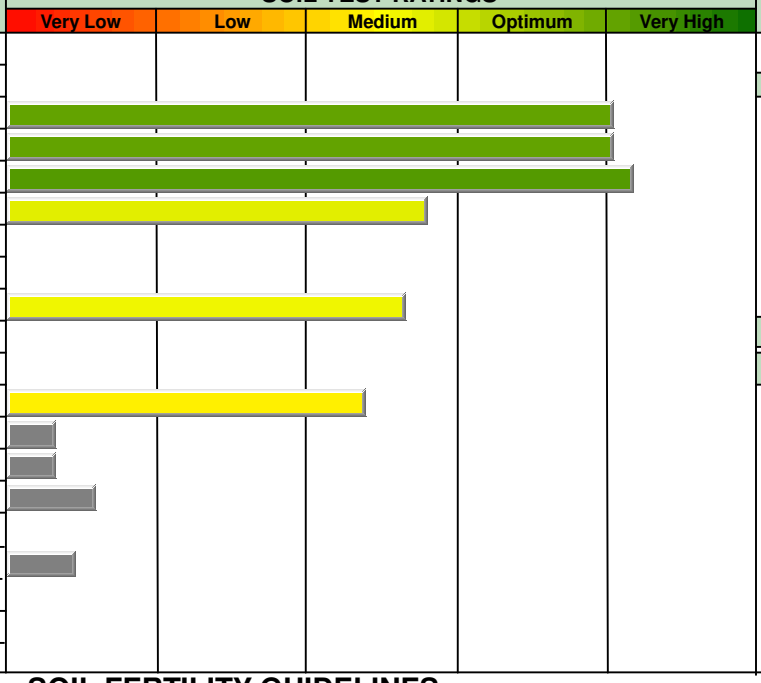
SOIL ANALYSIS

Client :	Grower :	
Denali Water Solutions Ms. Vanya Colburn P.O. Box 3036 Russellville AR 72802	The Valley- Reavis South WQ 4861 TX- 0-6"	Report No: 23-188-0742 Cust No: 11675 Date Printed: 07/20/2023 Date Received : 07/07/2023 PO: Page : 3 of 9

Lab No: 44855 **Field:** RS **Sample ID:** 3

Test	Method	Results
Soil pH	1:1	8.0
Buffer pH		
Phosphorus (P)	M3	55 mg/kg
Potassium (K)	M3	205 mg/kg
Calcium (Ca)	M3	2111 mg/kg
Magnesium (Mg)	M3	159 mg/kg
Sulfur (S)		
Boron (B)		
Copper (Cu)	M3	2.1 mg/kg
Iron (Fe)		
Manganese (Mn)		
Zinc (Zn)	M3	2.2 mg/kg
Sodium (Na)	M3	15 mg/kg
Soluble Salts	SS1:2	0.11 dS/m
Organic Matter	LOI	0.9%
Estimated N Release		62 lbs/acre
Nitrate Nitrogen	NO3N	2 mg/kg
Ammonium Nitrogen	NH4N	3 mg/kg
Total Kjeldahl Nitrogen		558 mg/kg

SOIL TEST RATINGS



Calculated Cation Exchange Capacity: **12.5** meq/100g

%Saturation

	%sat	meq
K	4.2	0.5
Ca	84.4	10.6
Mg	10.6	1.3
H	0.0	0.0
Na	0.5	0.1

K/Mg Ratio: 0.39

Ca/Mg Ratio: 7.96

SOIL FERTILITY GUIDELINES

Crop : Coastal Bermuda Pasture **Yield Goal :** 3 tons/acre **Rec Units:** LB/ACRE

(lbs)	LIME (tons)	N	P_2O_5	K_2O	Mg	S	B	Cu	Mn	Zn	Fe
0	0	146	30	40	0			0		0	

Crop : **Rec Units:**

Comments :

Coastal Bermuda Pasture

· For coastal or hybrid bermuda pastures, that are not on an intensive grazing program, the total nitrogen application should be 150 to 200 lbs N/Acre per season. Apply half of the fertilizer in the early spring and the remainder in mid-summer.

· For intensive grazing management of coastal or hybrid bermuda apply 300 to 250 lbs of N/acre per season. Split the fertilizer into 3 equal applications.

· For the establishment of bermudagrass or warm season grasses, apply the phosphorus and potassium and 30 to 50 lbs N/acre before sprigging or seeding.

· For soils low in sulfur, apply 20-40 lbs of sulfur as a sulfate in the spring with the nitrogen.

· For grass hay or pasture needing high rates split the P and K application. Apply 1/2 in the spring and 1/2 in late summer.

SMP - SMP Buffer pH M3 - Mehlich 3 NH4N - Ammonia-N NO3N - Nitrate-N LOI - Loss On Ignition 1:1 - Water pH SS1:2 - Soluble Salts

Analysis prepared by: Waypoint Analytical Tennessee, Inc.

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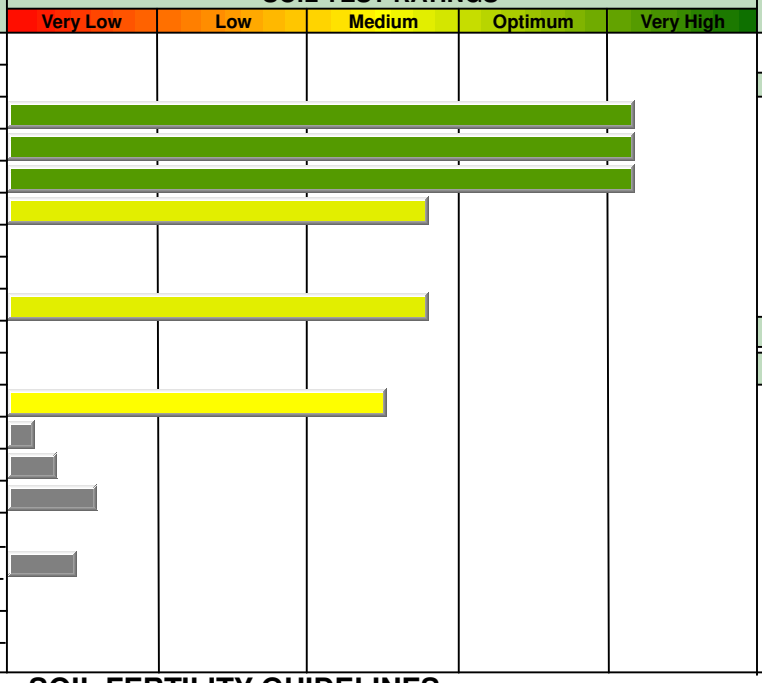
SOIL ANALYSIS

Client :	Grower :	
Denali Water Solutions Ms. Vanya Colburn P.O. Box 3036 Russellville AR 72802	The Valley- Reavis South WQ 4861 TX- 0-6"	Report No: 23-188-0742 Cust No: 11675 Date Printed: 07/20/2023 Date Received : 07/07/2023 PO: Page : 4 of 9

Lab No: 44856 **Field:** RS **Sample ID:** 4

Test	Method	Results
Soil pH	1:1	8.0
Buffer pH		
Phosphorus (P)	M3	59 mg/kg
Potassium (K)	M3	226 mg/kg
Calcium (Ca)	M3	2225 mg/kg
Magnesium (Mg)	M3	173 mg/kg
Sulfur (S)		
Boron (B)		
Copper (Cu)	M3	2.4 mg/kg
Iron (Fe)		
Manganese (Mn)		
Zinc (Zn)	M3	2.3 mg/kg
Sodium (Na)	M3	13 mg/kg
Soluble Salts	SS1:2	0.13 dS/m
Organic Matter	LOI	1.0%
Estimated N Release		64 lbs/acre
Nitrate Nitrogen	NO3N	2 mg/kg
Ammonium Nitrogen	NH4N	3 mg/kg
Total Kjeldahl Nitrogen		546 mg/kg

SOIL TEST RATINGS



Calculated Cation Exchange Capacity: **13.2** meq/100g

%Saturation

	%sat	meq
K	4.4	0.6
Ca	84.3	11.1
Mg	10.9	1.4
H	0.0	0.0
Na	0.4	0.1

K/Mg Ratio: 0.40

Ca/Mg Ratio: 7.73

SOIL FERTILITY GUIDELINES

Crop : Coastal Bermuda Pasture **Yield Goal :** 3 tons/acre **Rec Units:** LB/ACRE

(lbs)	LIME (tons)	N	P_2O_5	K_2O	Mg	S	B	Cu	Mn	Zn	Fe
0	0	146	30	40	0			0		0	

Crop : **Rec Units:**

Comments :

Coastal Bermuda Pasture

· For coastal or hybrid bermuda pastures, that are not on an intensive grazing program, the total nitrogen application should be 150 to 200 lbs N/Acre per season. Apply half of the fertilizer in the early spring and the remainder in mid-summer.

· For intensive grazing management of coastal or hybrid bermuda apply 300 to 250 lbs of N/acre per season. Split the fertilizer into 3 equal applications.

· For the establishment of bermudagrass or warm season grasses, apply the phosphorus and potassium and 30 to 50 lbs N/acre before sprigging or seeding.

· For soils low in sulfur, apply 20-40 lbs of sulfur as a sulfate in the spring with the nitrogen.

· For grass hay or pasture needing high rates split the P and K application. Apply 1/2 in the spring and 1/2 in late summer.

SMP - SMP Buffer pH M3 - Mehlich 3 NH4N - Ammonia-N NO3N - Nitrate-N LOI - Loss On Ignition 1:1 - Water pH SS1:2 - Soluble Salts

Analysis prepared by: Waypoint Analytical Tennessee, Inc.

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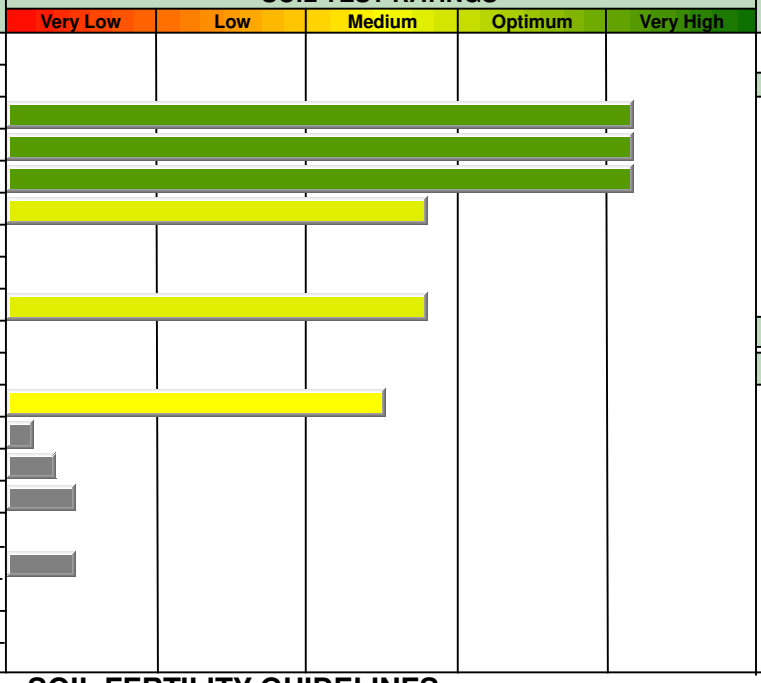
SOIL ANALYSIS

Client :	Grower :	
Denali Water Solutions Ms. Vanya Colburn P.O. Box 3036 Russellville AR 72802	The Valley- Reavis South WQ 4861 TX- 0-6"	Report No: 23-188-0742 Cust No: 11675 Date Printed: 07/20/2023 Date Received : 07/07/2023 PO: Page : 5 of 9

Lab No: 44857 **Field:** RS **Sample ID:** 5

Test	Method	Results
Soil pH	1:1	8.0
Buffer pH		
Phosphorus (P)	M3	62 mg/kg
Potassium (K)	M3	237 mg/kg
Calcium (Ca)	M3	2336 mg/kg
Magnesium (Mg)	M3	173 mg/kg
Sulfur (S)		
Boron (B)		
Copper (Cu)	M3	2.4 mg/kg
Iron (Fe)		
Manganese (Mn)		
Zinc (Zn)	M3	2.4 mg/kg
Sodium (Na)	M3	14 mg/kg
Soluble Salts	SS1:2	0.12 dS/m
Organic Matter	LOI	0.7%
Estimated N Release		58 lbs/acre
Nitrate Nitrogen	NO3N	2 mg/kg
Ammonium Nitrogen	NH4N	4 mg/kg
Total Kjeldahl Nitrogen		555 mg/kg

SOIL TEST RATINGS



Calculated Cation Exchange Capacity: **13.8** meq/100g

%Saturation

	%sat	meq
K	4.4	0.6
Ca	84.6	11.7
Mg	10.4	1.4
H	0.0	0.0
Na	0.4	0.1

K/Mg Ratio: 0.42

Ca/Mg Ratio: 8.13

SOIL FERTILITY GUIDELINES

Crop : Coastal Bermuda Pasture **Yield Goal :** 3 tons/acre **Rec Units:** LB/ACRE

(lbs)	LIME (tons)	N	P_2O_5	K_2O	Mg	S	B	Cu	Mn	Zn	Fe
0	0	146	30	30	0			0		0	

Crop : **Rec Units:**

Comments :

Coastal Bermuda Pasture

· For coastal or hybrid bermuda pastures, that are not on an intensive grazing program, the total nitrogen application should be 150 to 200 lbs N/Acre per season. Apply half of the fertilizer in the early spring and the remainder in mid-summer.

· For intensive grazing management of coastal or hybrid bermuda apply 300 to 250 lbs of N/acre per season. Split the fertilizer into 3 equal applications.

· For the establishment of bermudagrass or warm season grasses, apply the phosphorus and potassium and 30 to 50 lbs N/acre before sprigging or seeding.

· For soils low in sulfur, apply 20-40 lbs of sulfur as a sulfate in the spring with the nitrogen.

· For grass hay or pasture needing high rates split the P and K application. Apply 1/2 in the spring and 1/2 in late summer.

SMP - SMP Buffer pH M3 - Mehlich 3 NH4N - Ammonia-N NO3N - Nitrate-N LOI - Loss On Ignition 1:1 - Water pH SS1:2 - Soluble Salts

Analysis prepared by: Waypoint Analytical Tennessee, Inc.

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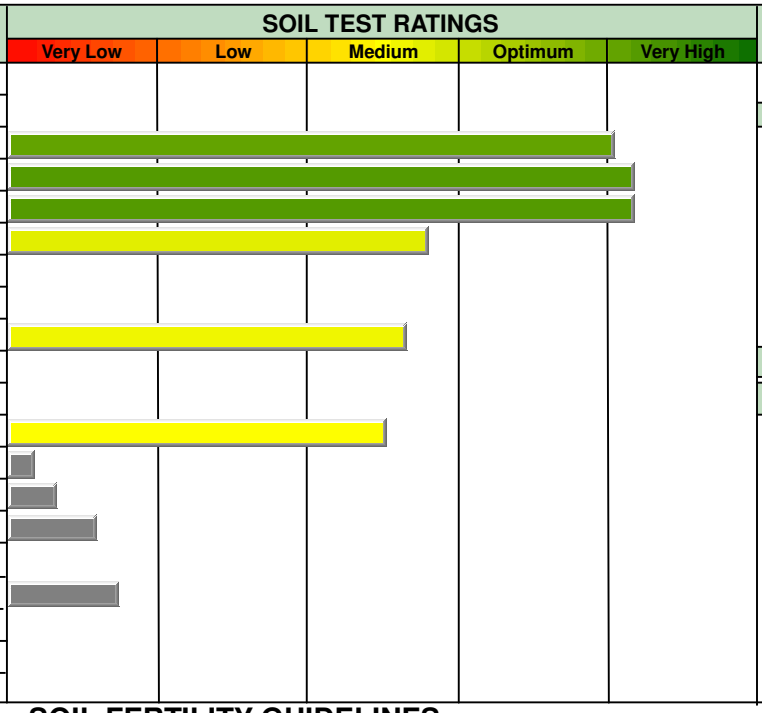
SOIL ANALYSIS

Client :	Grower :	
Denali Water Solutions Ms. Vanya Colburn P.O. Box 3036 Russellville AR 72802	The Valley- Reavis South WQ 4861 TX- 0-6"	Report No: 23-188-0742 Cust No: 11675 Date Printed: 07/20/2023 Date Received : 07/07/2023 PO: Page : 6 of 9

Lab No: 44858 **Field:** RS **Sample ID:** 6

Test	Method	Results
Soil pH	1:1	8.0
Buffer pH		
Phosphorus (P)	M3	56 mg/kg
Potassium (K)	M3	216 mg/kg
Calcium (Ca)	M3	2128 mg/kg
Magnesium (Mg)	M3	166 mg/kg
Sulfur (S)		
Boron (B)		
Copper (Cu)	M3	2.2 mg/kg
Iron (Fe)		
Manganese (Mn)		
Zinc (Zn)	M3	2.3 mg/kg
Sodium (Na)	M3	13 mg/kg
Soluble Salts	SS1:2	0.11 dS/m
Organic Matter	LOI	1.0%
Estimated N Release		64 lbs/acre
Nitrate Nitrogen	NO3N	3 mg/kg
Ammonium Nitrogen	NH4N	3 mg/kg
Total Kjeldahl Nitrogen		410 mg/kg



Calculated Cation Exchange Capacity: **12.6** meq/100g

%Saturation

	%sat	meq
K	4.4	0.6
Ca	84.4	10.6
Mg	11.0	1.4
H	0.0	0.0
Na	0.4	0.1

K/Mg Ratio: 0.40

Ca/Mg Ratio: 7.67

SOIL FERTILITY GUIDELINES

Crop : Coastal Bermuda Pasture **Yield Goal :** 3 tons/acre **Rec Units:** LB/ACRE

(lbs)	LIME (tons)	N	P_2O_5	K_2O	Mg	S	B	Cu	Mn	Zn	Fe
0	0	144	30	40	0			0		0	

Crop : **Rec Units:**

Comments :

Coastal Bermuda Pasture

· For coastal or hybrid bermuda pastures, that are not on an intensive grazing program, the total nitrogen application should be 150 to 200 lbs N/Acre per season. Apply half of the fertilizer in the early spring and the remainder in mid-summer.

· For intensive grazing management of coastal or hybrid bermuda apply 300 to 250 lbs of N/acre per season. Split the fertilizer into 3 equal applications.

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· For soils low in sulfur, apply 20-40 lbs of sulfur as a sulfate in the spring with the nitrogen.

· For grass hay or pasture needing high rates split the P and K application. Apply 1/2 in the spring and 1/2 in late summer.

SMP - SMP Buffer pH M3 - Mehlich 3 NH4N - Ammonia-N NO3N - Nitrate-N LOI - Loss On Ignition 1:1 - Water pH SS1:2 - Soluble Salts

Analysis prepared by: Waypoint Analytical Tennessee, Inc.

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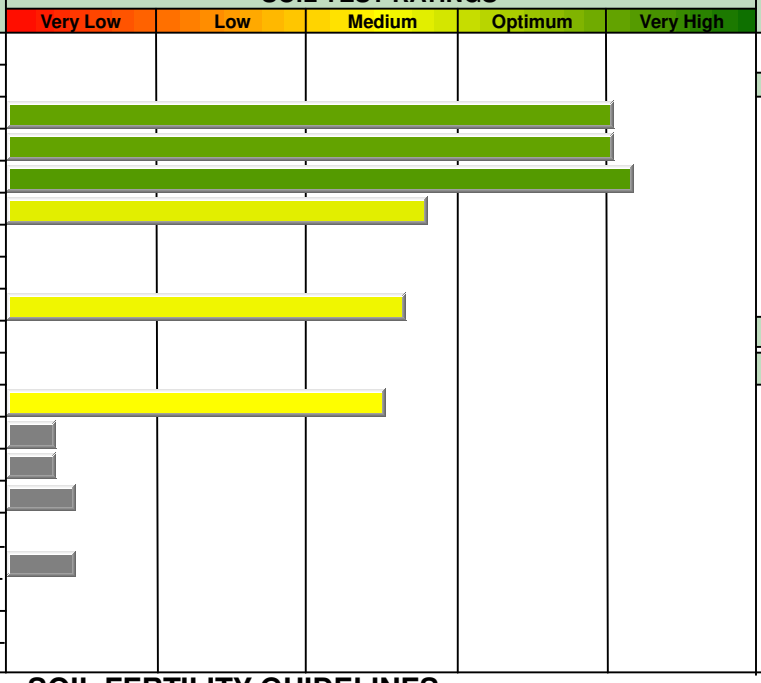
SOIL ANALYSIS

Client :	Grower :	
Denali Water Solutions Ms. Vanya Colburn P.O. Box 3036 Russellville AR 72802	The Valley- Reavis South WQ 4861 TX- 0-6"	Report No: 23-188-0742 Cust No: 11675 Date Printed: 07/20/2023 Date Received : 07/07/2023 PO: Page : 7 of 9

Lab No: 44859 **Field:** RS **Sample ID:** 7

Test	Method	Results
Soil pH	1:1	8.0
Buffer pH		
Phosphorus (P)	M3	56 mg/kg
Potassium (K)	M3	211 mg/kg
Calcium (Ca)	M3	2013 mg/kg
Magnesium (Mg)	M3	163 mg/kg
Sulfur (S)		
Boron (B)		
Copper (Cu)	M3	2.3 mg/kg
Iron (Fe)		
Manganese (Mn)		
Zinc (Zn)	M3	2.3 mg/kg
Sodium (Na)	M3	15 mg/kg
Soluble Salts	SS1:2	0.11 dS/m
Organic Matter	LOI	0.7%
Estimated N Release		58 lbs/acre
Nitrate Nitrogen	NO3N	2 mg/kg
Ammonium Nitrogen	NH4N	3 mg/kg
Total Kjeldahl Nitrogen		700 mg/kg

SOIL TEST RATINGS



Calculated Cation Exchange Capacity: **12.0** meq/100g

%Saturation

	%sat	meq
K	4.5	0.5
Ca	83.9	10.1
Mg	11.3	1.4
H	0.0	0.0
Na	0.5	0.1

K/Mg Ratio: 0.39

Ca/Mg Ratio: 7.42

SOIL FERTILITY GUIDELINES

Crop : Coastal Bermuda Pasture **Yield Goal :** 3 tons/acre **Rec Units:** LB/ACRE

(lbs)	LIME (tons)	N	P_2O_5	K_2O	Mg	S	B	Cu	Mn	Zn	Fe
0	0	146	30	40	0			0		0	

Crop : **Rec Units:**

Comments :

Coastal Bermuda Pasture

· For coastal or hybrid bermuda pastures, that are not on an intensive grazing program, the total nitrogen application should be 150 to 200 lbs N/Acre per season. Apply half of the fertilizer in the early spring and the remainder in mid-summer.

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SMP - SMP Buffer pH M3 - Mehlich 3 NH4N - Ammonia-N NO3N - Nitrate-N LOI - Loss On Ignition 1:1 - Water pH SS1:2 - Soluble Salts

Analysis prepared by: Waypoint Analytical Tennessee, Inc.

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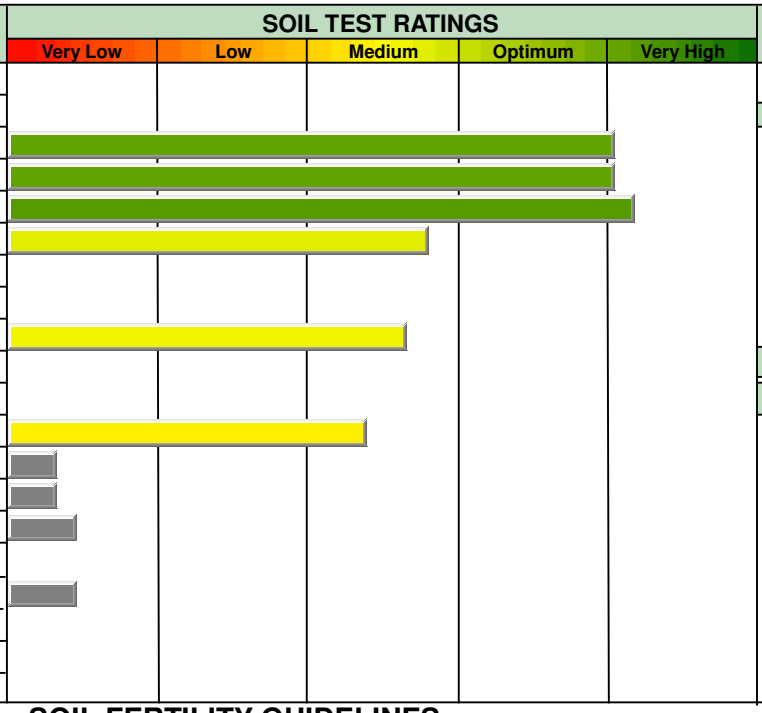
SOIL ANALYSIS

Client :	Grower :	
Denali Water Solutions Ms. Vanya Colburn P.O. Box 3036 Russellville AR 72802	The Valley- Reavis South WQ 4861 TX- 0-6"	Report No: 23-188-0742 Cust No: 11675 Date Printed: 07/20/2023 Date Received : 07/07/2023 PO: Page : 8 of 9

Lab No: 44860 **Field:** RS **Sample ID:** 8

Test	Method	Results
Soil pH	1:1	7.9
Buffer pH		
Phosphorus (P)	M3	53 mg/kg
Potassium (K)	M3	206 mg/kg
Calcium (Ca)	M3	2051 mg/kg
Magnesium (Mg)	M3	158 mg/kg
Sulfur (S)		
Boron (B)		
Copper (Cu)	M3	2.3 mg/kg
Iron (Fe)		
Manganese (Mn)		
Zinc (Zn)	M3	2.2 mg/kg
Sodium (Na)	M3	13 mg/kg
Soluble Salts	SS1:2	0.1 dS/m
Organic Matter	LOI	0.8%
Estimated N Release		60 lbs/acre
Nitrate Nitrogen	NO3N	2 mg/kg
Ammonium Nitrogen	NH4N	3 mg/kg
Total Kjeldahl Nitrogen		422 mg/kg



Calculated Cation Exchange Capacity: **12.2** meq/100g

%Saturation

	%sat	meq
K	4.3	0.5
Ca	84.1	10.3
Mg	10.8	1.3
H	0.0	0.0
Na	0.5	0.1

K/Mg Ratio: 0.40

Ca/Mg Ratio: 7.79

SOIL FERTILITY GUIDELINES

Crop : Coastal Bermuda Pasture **Yield Goal :** 3 tons/acre **Rec Units:** LB/ACRE

(lbs)	LIME (tons)	N	P_2O_5	K_2O	Mg	S	B	Cu	Mn	Zn	Fe
0	0	146	30	40	0			0		0	

Crop : **Rec Units:**

Comments :

Coastal Bermuda Pasture

· For coastal or hybrid bermuda pastures, that are not on an intensive grazing program, the total nitrogen application should be 150 to 200 lbs N/Acre per season. Apply half of the fertilizer in the early spring and the remainder in mid-summer.

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· For grass hay or pasture needing high rates split the P and K application. Apply 1/2 in the spring and 1/2 in late summer.

SMP - SMP Buffer pH M3 - Mehlich 3 NH4N - Ammonia-N NO3N - Nitrate-N LOI - Loss On Ignition 1:1 - Water pH SS1:2 - Soluble Salts

Analysis prepared by: Waypoint Analytical Tennessee, Inc.

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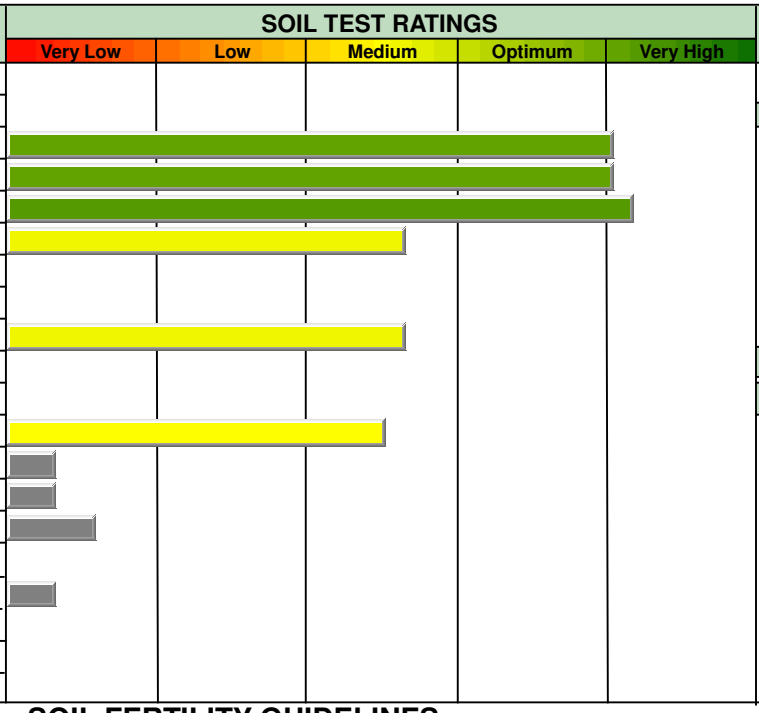
SOIL ANALYSIS

Client :	Grower :	
Denali Water Solutions Ms. Vanya Colburn P.O. Box 3036 Russellville AR 72802	The Valley- Reavis South WQ 4861 TX- 0-6"	Report No: 23-188-0742 Cust No: 11675 Date Printed: 07/20/2023 Date Received : 07/07/2023 PO: Page : 9 of 9

Lab No: 44861 **Field:** RS **Sample ID:** 9

Test	Method	Results
Soil pH	1:1	7.7
Buffer pH		
Phosphorus (P)	M3	53 mg/kg
Potassium (K)	M3	198 mg/kg
Calcium (Ca)	M3	1939 mg/kg
Magnesium (Mg)	M3	154 mg/kg
Sulfur (S)		
Boron (B)		
Copper (Cu)	M3	2.1 mg/kg
Iron (Fe)		
Manganese (Mn)		
Zinc (Zn)	M3	2.3 mg/kg
Sodium (Na)	M3	13 mg/kg
Soluble Salts	SS1:2	0.11 dS/m
Organic Matter	LOI	1.0%
Estimated N Release		64 lbs/acre
Nitrate Nitrogen	NO3N	1 mg/kg
Ammonium Nitrogen	NH4N	3 mg/kg
Total Kjeldahl Nitrogen		530 mg/kg



Calculated Cation Exchange Capacity: **11.5** meq/100g

%Saturation

	%sat	meq
K	4.4	0.5
Ca	84.3	9.7
Mg	11.2	1.3
H	0.0	0.0
Na	0.5	0.1

K/Mg Ratio: 0.39

Ca/Mg Ratio: 7.53

SOIL FERTILITY GUIDELINES

Crop : Coastal Bermuda Pasture **Yield Goal :** 3 tons/acre **Rec Units:** LB/ACRE

(lbs)	LIME (tons)	N	P_2O_5	K_2O	Mg	S	B	Cu	Mn	Zn	Fe
0	0	148	30	42	0			0		0	

Crop : **Rec Units:**

Comments :

Nitrate-nitrogen and ammonium-nitrogen analysis will detect levels no lower than 1 ppm. Results that indicate undetected levels of nitrate-nitrogen or ammonium-nitrogen will display 1 ppm.

Coastal Bermuda Pasture

· For coastal or hybrid bermuda pastures, that are not on an intensive grazing program, the total nitrogen application should be 150 to 200 lbs N/Acre per season. Apply half of the fertilizer in the early spring and the remainder in mid-summer.

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· For soils low in sulfur, apply 20-40 lbs of sulfur as a sulfate in the spring with the nitrogen.

· For grass hay or pasture needing high rates split the P and K application. Apply 1/2 in the spring and 1/2 in late summer.

SMP - SMP Buffer pH M3 - Mehlich 3 NH4N - Ammonia-N NO3N - Nitrate-N LOI - Loss On Ignition 1:1 - Water pH SS1:2 - Soluble Salts

Analysis prepared by: Waypoint Analytical Tennessee, Inc.

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SOIL ANALYSIS

Client :	Grower :	
Denali Water Solutions Ms. Vanya Colburn P.O. Box 3036 Russellville AR 72802	The Valley- Reavis South WQ 4861 TX- 6-24"	Report No: 23-188-0729 Cust No: 11675 Date Printed: 07/19/2023 Date Received : 07/07/2023 PO: Page : 1 of 9

Lab No: 44815 **Field:** **Sample ID:** 1

Test	Method	Results
Soil pH	1:1	8.1
Buffer pH		
Phosphorus (P)	M3	56 mg/kg
Potassium (K)	M3	218 mg/kg
Calcium (Ca)	M3	2512 mg/kg
Magnesium (Mg)	M3	172 mg/kg
Sulfur (S)		
Boron (B)		
Copper (Cu)		
Iron (Fe)		
Manganese (Mn)		
Zinc (Zn)		
Sodium (Na)	M3	18 mg/kg
Soluble Salts	SS1:2	0.12 dS/m
Organic Matter	LOI	0.8%
Estimated N Release		60 lbs/acre
Nitrate Nitrogen	NO3N	4 mg/kg
Ammonium Nitrogen	NH4N	4 mg/kg
Total Kjeldahl Nitrogen		834 mg/kg

SOIL TEST RATINGS: Very Low | Low | Medium | Optimum | Very High

Calculated Cation Exchange Capacity: **14.6** meq/100g

%Saturation

	%sat	meq
K	3.8	0.6
Ca	86.0	12.6
Mg	9.8	1.4
H	0.0	0.0
Na	0.5	0.1

K/Mg Ratio: 0.38

Ca/Mg Ratio: 8.78

SOIL FERTILITY GUIDELINES

Crop : **Rec Units:**

(lbs) LIME (tons)	N	P_2O_5	K_2O	Mg	S	B	Cu	Mn	Zn	Fe

Crop : **Rec Units:**

Comments :

SMP - SMP Buffer pH M3 - Mehlich 3 NH4N - Ammonia-N NO3N - Nitrate-N LOI - Loss On Ignition 1:1 - Water pH SS1:2 - Soluble Salts

Analysis prepared by: Waypoint Analytical Tennessee, Inc.

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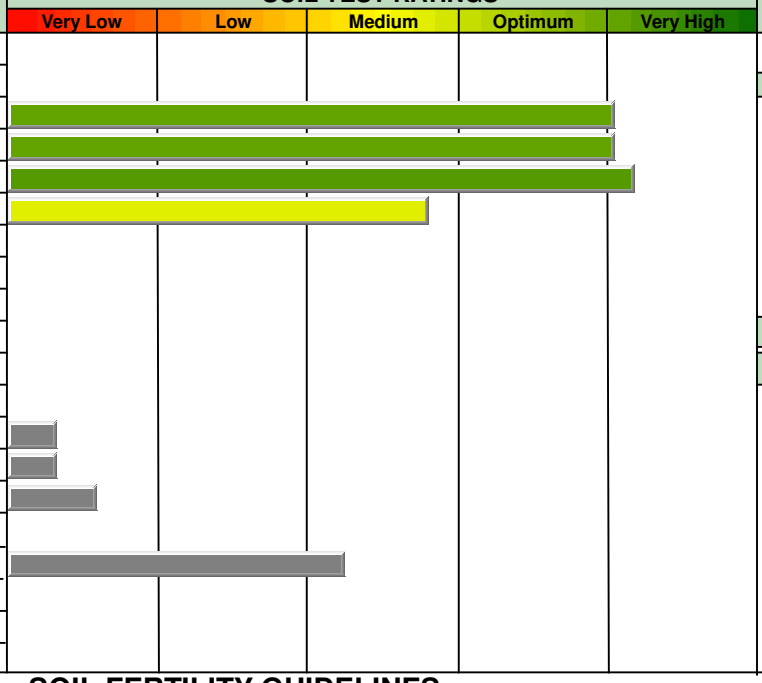
SOIL ANALYSIS

Client :	Grower :	
Denali Water Solutions Ms. Vanya Colburn P.O. Box 3036 Russellville AR 72802	The Valley- Reavis South WQ 4861 TX- 6-24"	Report No: 23-188-0729 Cust No: 11675 Date Printed: 07/19/2023 Date Received : 07/07/2023 PO: Page : 2 of 9

Lab No: 44816 **Field:** **Sample ID:** 2

Test	Method	Results
Soil pH	1:1	8.2
Buffer pH		
Phosphorus (P)	M3	51 mg/kg
Potassium (K)	M3	221 mg/kg
Calcium (Ca)	M3	2596 mg/kg
Magnesium (Mg)	M3	176 mg/kg
Sulfur (S)		
Boron (B)		
Copper (Cu)		
Iron (Fe)		
Manganese (Mn)		
Zinc (Zn)		
Sodium (Na)	M3	17 mg/kg
Soluble Salts	SS1:2	0.12 dS/m
Organic Matter	LOI	1.0%
Estimated N Release		64 lbs/acre
Nitrate Nitrogen	NO3N	11 mg/kg
Ammonium Nitrogen	NH4N	3 mg/kg
Total Kjeldahl Nitrogen		695 mg/kg

SOIL TEST RATINGS



Calculated Cation Exchange Capacity: **15.1** meq/100g

%Saturation

	%sat	meq
K	3.8	0.6
Ca	86.0	13.0
Mg	9.7	1.5
H	0.0	0.0
Na	0.5	0.1

K/Mg Ratio: 0.38

Ca/Mg Ratio: 8.87

SOIL FERTILITY GUIDELINES

Crop : **Rec Units:**

(lbs) LIME (tons)		N	P_2O_5	K_2O	Mg	S	B	Cu	Mn	Zn	Fe

Crop : **Rec Units:**

Comments :

SMP - SMP Buffer pH M3 - Mehlich 3 NH4N - Ammonia-N NO3N - Nitrate-N LOI - Loss On Ignition 1:1 - Water pH SS1:2 - Soluble Salts

Analysis prepared by: Waypoint Analytical Tennessee, Inc.

Waypoint ANALYTICAL
2790 Whitten Road, Memphis, TN 38133
Main 901.213.2400 º Fax 901.213.2440
www.waypointanalytical.com

"Every acre...Every year®"

SOIL ANALYSIS

Client :	Grower :	
Denali Water Solutions Ms. Vanya Colburn P.O. Box 3036 Russellville AR 72802	The Valley- Reavis South WQ 4861 TX- 6-24"	Report No: 23-188-0729 Cust No: 11675 Date Printed: 07/19/2023 Date Received : 07/07/2023 PO: Page : 3 of 9

Lab No: 44817 **Field:** **Sample ID:** 3

Test	Method	Results
Soil pH	1:1	8.0
Buffer pH		
Phosphorus (P)	M3	54 mg/kg
Potassium (K)	M3	213 mg/kg
Calcium (Ca)	M3	2255 mg/kg
Magnesium (Mg)	M3	170 mg/kg
Sulfur (S)		
Boron (B)		
Copper (Cu)		
Iron (Fe)		
Manganese (Mn)		
Zinc (Zn)		
Sodium (Na)	M3	14 mg/kg
Soluble Salts	SS1:2	0.12 dS/m
Organic Matter	LOI	0.8%
Estimated N Release		60 lbs/acre
Nitrate Nitrogen	NO3N	2 mg/kg
Ammonium Nitrogen	NH4N	3 mg/kg
Total Kjeldahl Nitrogen		785 mg/kg

SOIL TEST RATINGS: Very Low | Low | Medium | Optimum | Very High

Calculated Cation Exchange Capacity: 13.3 meq/100g

%Saturation

	%sat	meq
K	4.1	0.5
Ca	84.8	11.3
Mg	10.7	1.4
H	0.0	0.0
Na	0.5	0.1

K/Mg Ratio: 0.38

Ca/Mg Ratio: 7.93

SOIL FERTILITY GUIDELINES

Crop : **Rec Units:**

(lbs) LIME (tons)		N	P_2O_5	K_2O	Mg	S	B	Cu	Mn	Zn	Fe

Crop : **Rec Units:**

Comments :

SMP - SMP Buffer pH M3 - Mehlich 3 NH4N - Ammonia-N NO3N - Nitrate-N LOI - Loss On Ignition 1:1 - Water pH SS1:2 - Soluble Salts

Analysis prepared by: Waypoint Analytical Tennessee, Inc.

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SOIL ANALYSIS

Client :	Grower :	
Denali Water Solutions Ms. Vanya Colburn P.O. Box 3036 Russellville AR 72802	The Valley- Reavis South WQ 4861 TX- 6-24"	Report No: 23-188-0729 Cust No: 11675 Date Printed: 07/19/2023 Date Received : 07/07/2023 PO: Page : 4 of 9

Lab No: 44818 **Field:** **Sample ID:** 4

Test	Method	Results
Soil pH	1:1	8.1
Buffer pH		
Phosphorus (P)	M3	51 mg/kg
Potassium (K)	M3	217 mg/kg
Calcium (Ca)	M3	2708 mg/kg
Magnesium (Mg)	M3	171 mg/kg
Sulfur (S)		
Boron (B)		
Copper (Cu)		
Iron (Fe)		
Manganese (Mn)		
Zinc (Zn)		
Sodium (Na)	M3	15 mg/kg
Soluble Salts	SS1:2	0.13 dS/m
Organic Matter	LOI	0.8%
Estimated N Release		60 lbs/acre
Nitrate Nitrogen	NO3N	7 mg/kg
Ammonium Nitrogen	NH4N	8 mg/kg
Total Kjeldahl Nitrogen		547 mg/kg

SOIL TEST RATINGS: Very Low | Low | Medium | Optimum | Very High

Calculated Cation Exchange Capacity: **15.6** meq/100g

%Saturation

	%sat	meq
K	3.6	0.6
Ca	86.8	13.5
Mg	9.1	1.4
H	0.0	0.0
Na	0.4	0.1

K/Mg Ratio: 0.39

Ca/Mg Ratio: 9.54

SOIL FERTILITY GUIDELINES

Crop : **Rec Units:**

(lbs) LIME (tons)	N	P_2O_5	K_2O	Mg	S	B	Cu	Mn	Zn	Fe

Crop : **Rec Units:**

Comments :

SMP - SMP Buffer pH M3 - Mehlich 3 NH4N - Ammonia-N NO3N - Nitrate-N LOI - Loss On Ignition 1:1 - Water pH SS1:2 - Soluble Salts

Analysis prepared by: Waypoint Analytical Tennessee, Inc.

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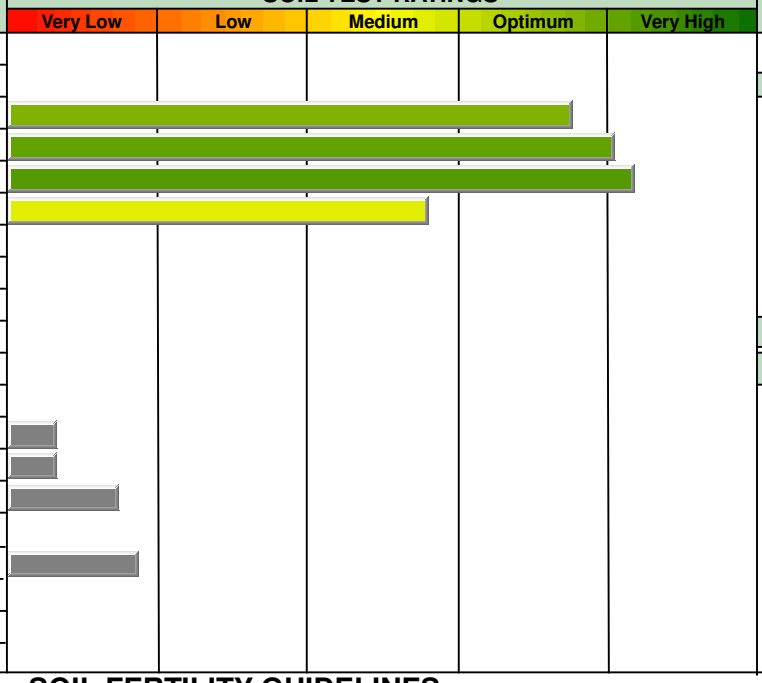
SOIL ANALYSIS

Client :	Grower :	
Denali Water Solutions Ms. Vanya Colburn P.O. Box 3036 Russellville AR 72802	The Valley- Reavis South WQ 4861 TX- 6-24"	Report No: 23-188-0729 Cust No: 11675 Date Printed: 07/19/2023 Date Received : 07/07/2023 PO: Page : 5 of 9

Lab No: 44819 **Field:** **Sample ID:** 5

Test	Method	Results
Soil pH	1:1	8.1
Buffer pH		
Phosphorus (P)	M3	48 mg/kg
Potassium (K)	M3	204 mg/kg
Calcium (Ca)	M3	2189 mg/kg
Magnesium (Mg)	M3	161 mg/kg
Sulfur (S)		
Boron (B)		
Copper (Cu)		
Iron (Fe)		
Manganese (Mn)		
Zinc (Zn)		
Sodium (Na)	M3	16 mg/kg
Soluble Salts	SS1:2	0.13 dS/m
Organic Matter	LOI	1.2%
Estimated N Release		68 lbs/acre
Nitrate Nitrogen	NO3N	4 mg/kg
Ammonium Nitrogen	NH4N	4 mg/kg
Total Kjeldahl Nitrogen		548 mg/kg

SOIL TEST RATINGS



Calculated Cation Exchange Capacity: **12.9** meq/100g

%Saturation

	%sat	meq
K	4.1	0.5
Ca	84.8	10.9
Mg	10.4	1.3
H	0.0	0.0
Na	0.5	0.1

K/Mg Ratio: 0.38

Ca/Mg Ratio: 8.15

SOIL FERTILITY GUIDELINES

Crop : **Rec Units:**

(lbs) LIME (tons)		N	P_2O_5	K_2O	Mg	S	B	Cu	Mn	Zn	Fe

Crop : **Rec Units:**

Comments :

SMP - SMP Buffer pH M3 - Mehlich 3 NH4N - Ammonia-N NO3N - Nitrate-N LOI - Loss On Ignition 1:1 - Water pH SS1:2 - Soluble Salts

Analysis prepared by: Waypoint Analytical Tennessee, Inc.

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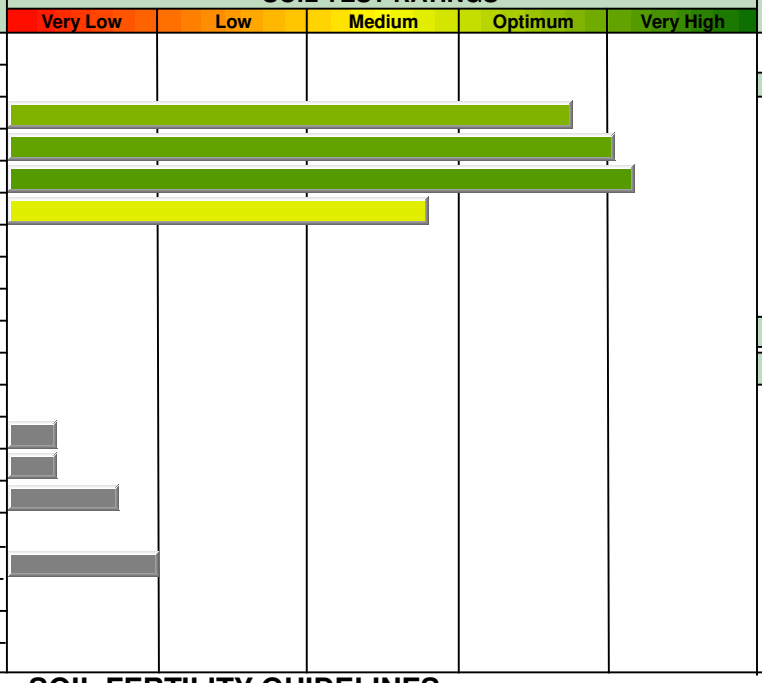
SOIL ANALYSIS

Client :	Grower :	
Denali Water Solutions Ms. Vanya Colburn P.O. Box 3036 Russellville AR 72802	The Valley- Reavis South WQ 4861 TX- 6-24"	Report No: 23-188-0729 Cust No: 11675 Date Printed: 07/19/2023 Date Received : 07/07/2023 PO: Page : 6 of 9

Lab No: 44821 **Field:** **Sample ID:** 6

Test	Method	Results
Soil pH	1:1	7.9
Buffer pH		
Phosphorus (P)	M3	46 mg/kg
Potassium (K)	M3	201 mg/kg
Calcium (Ca)	M3	2435 mg/kg
Magnesium (Mg)	M3	161 mg/kg
Sulfur (S)		
Boron (B)		
Copper (Cu)		
Iron (Fe)		
Manganese (Mn)		
Zinc (Zn)		
Sodium (Na)	M3	19 mg/kg
Soluble Salts	SS1:2	0.14 dS/m
Organic Matter	LOI	1.2%
Estimated N Release		68 lbs/acre
Nitrate Nitrogen	NO3N	5 mg/kg
Ammonium Nitrogen	NH4N	3 mg/kg
Total Kjeldahl Nitrogen		397 mg/kg

SOIL TEST RATINGS



Calculated Cation Exchange Capacity: **14.1** meq/100g

%Saturation

	%sat	meq
K	3.7	0.5
Ca	86.3	12.2
Mg	9.5	1.3
H	0.0	0.0
Na	0.6	0.1

K/Mg Ratio: 0.38

Ca/Mg Ratio: 9.08

SOIL FERTILITY GUIDELINES

Crop : **Rec Units:**

(lbs) LIME (tons)		N	P_2O_5	K_2O	Mg	S	B	Cu	Mn	Zn	Fe

Crop : **Rec Units:**

Comments :

SMP - SMP Buffer pH M3 - Mehlich 3 NH4N - Ammonia-N NO3N - Nitrate-N LOI - Loss On Ignition 1:1 - Water pH SS1:2 - Soluble Salts

Analysis prepared by: Waypoint Analytical Tennessee, Inc.

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SOIL ANALYSIS

Client :	Grower :	
Denali Water Solutions Ms. Vanya Colburn P.O. Box 3036 Russellville AR 72802	The Valley- Reavis South WQ 4861 TX- 6-24"	Report No: 23-188-0729 Cust No: 11675 Date Printed: 07/19/2023 Date Received : 07/07/2023 PO: Page : 7 of 9

Lab No: 44822 **Field:** **Sample ID:** 7

Test	Method	Results
Soil pH	1:1	8.3
Buffer pH		
Phosphorus (P)	M3	52 mg/kg
Potassium (K)	M3	239 mg/kg
Calcium (Ca)	M3	2726 mg/kg
Magnesium (Mg)	M3	181 mg/kg
Sulfur (S)		
Boron (B)		
Copper (Cu)		
Iron (Fe)		
Manganese (Mn)		
Zinc (Zn)		
Sodium (Na)	M3	15 mg/kg
Soluble Salts	SS1:2	0.14 dS/m
Organic Matter	LOI	0.8%
Estimated N Release		60 lbs/acre
Nitrate Nitrogen	NO3N	5 mg/kg
Ammonium Nitrogen	NH4N	3 mg/kg
Total Kjeldahl Nitrogen		462 mg/kg

SOIL TEST RATINGS: Very Low | Low | Medium | Optimum | Very High

Calculated Cation Exchange Capacity: **15.8** meq/100g

%Saturation

	%sat	meq
K	3.9	0.6
Ca	86.3	13.6
Mg	9.5	1.5
H	0.0	0.0
Na	0.4	0.1

K/Mg Ratio: 0.40

Ca/Mg Ratio: 9.08

SOIL FERTILITY GUIDELINES

Crop : **Rec Units:**

(lbs) LIME (tons)		N	P_2O_5	K_2O	Mg	S	B	Cu	Mn	Zn	Fe

Crop : **Rec Units:**

Comments :

SMP - SMP Buffer pH M3 - Mehlich 3 NH4N - Ammonia-N NO3N - Nitrate-N LOI - Loss On Ignition 1:1 - Water pH SS1:2 - Soluble Salts

Analysis prepared by: Waypoint Analytical Tennessee, Inc.

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SOIL ANALYSIS

Client :	Grower :	
Denali Water Solutions Ms. Vanya Colburn P.O. Box 3036 Russellville AR 72802	The Valley- Reavis South WQ 4861 TX- 6-24"	Report No: 23-188-0729 Cust No: 11675 Date Printed: 07/19/2023 Date Received : 07/07/2023 PO: Page : 8 of 9

Lab No: 44823 **Field:** **Sample ID:** 8

Test	Method	Results
Soil pH	1:1	8.3
Buffer pH		
Phosphorus (P)	M3	60 mg/kg
Potassium (K)	M3	271 mg/kg
Calcium (Ca)	M3	2748 mg/kg
Magnesium (Mg)	M3	197 mg/kg
Sulfur (S)		
Boron (B)		
Copper (Cu)		
Iron (Fe)		
Manganese (Mn)		
Zinc (Zn)		
Sodium (Na)	M3	35 mg/kg
Soluble Salts	SS1:2	0.14 dS/m
Organic Matter	LOI	1.0%
Estimated N Release		64 lbs/acre
Nitrate Nitrogen	NO3N	6 mg/kg
Ammonium Nitrogen	NH4N	3 mg/kg
Total Kjeldahl Nitrogen		401 mg/kg

SOIL TEST RATINGS: Very Low | Low | Medium | Optimum | Very High

Calculated Cation Exchange Capacity: **16.2** meq/100g

%Saturation

	%sat	meq
K	4.3	0.7
Ca	84.8	13.7
Mg	10.1	1.6
H	0.0	0.0
Na	0.9	0.2

K/Mg Ratio: 0.42

Ca/Mg Ratio: 8.40

SOIL FERTILITY GUIDELINES

Crop : **Rec Units:**

(lbs) LIME (tons)		N	P_2O_5	K_2O	Mg	S	B	Cu	Mn	Zn	Fe

Crop : **Rec Units:**

Comments :

SMP - SMP Buffer pH M3 - Mehlich 3 NH4N - Ammonia-N NO3N - Nitrate-N LOI - Loss On Ignition 1:1 - Water pH SS1:2 - Soluble Salts

Analysis prepared by: Waypoint Analytical Tennessee, Inc.

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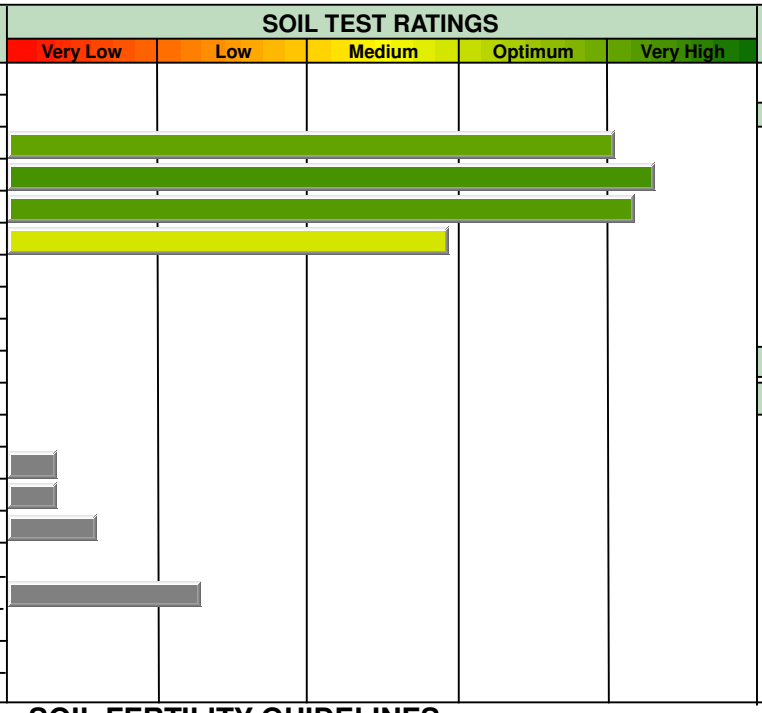
SOIL ANALYSIS

Client :	Grower :	
Denali Water Solutions Ms. Vanya Colburn P.O. Box 3036 Russellville AR 72802	The Valley- Reavis South WQ 4861 TX- 6-24"	Report No: 23-188-0729 Cust No: 11675 Date Printed: 07/19/2023 Date Received : 07/07/2023 PO: Page : 9 of 9

Lab No: 44824 **Field:** **Sample ID:** 9

Test	Method	Results
Soil pH	1:1	8.2
Buffer pH		
Phosphorus (P)	M3	58 mg/kg
Potassium (K)	M3	252 mg/kg
Calcium (Ca)	M3	2523 mg/kg
Magnesium (Mg)	M3	180 mg/kg
Sulfur (S)		
Boron (B)		
Copper (Cu)		
Iron (Fe)		
Manganese (Mn)		
Zinc (Zn)		
Sodium (Na)	M3	16 mg/kg
Soluble Salts	SS1:2	0.14 dS/m
Organic Matter	LOI	1.0%
Estimated N Release		64 lbs/acre
Nitrate Nitrogen	NO3N	6 mg/kg
Ammonium Nitrogen	NH4N	3 mg/kg
Total Kjeldahl Nitrogen		537 mg/kg



Calculated Cation Exchange Capacity: **14.8** meq/100g

%Saturation

	%sat	meq
K	4.4	0.6
Ca	85.2	12.6
Mg	10.1	1.5
H	0.0	0.0
Na	0.5	0.1

K/Mg Ratio: 0.43

Ca/Mg Ratio: 8.44

SOIL FERTILITY GUIDELINES

Crop : **Rec Units:**

(lbs) LIME (tons)		N	P_2O_5	K_2O	Mg	S	B	Cu	Mn	Zn	Fe

Crop : **Rec Units:**

Comments :

SMP - SMP Buffer pH M3 - Mehlich 3 NH4N - Ammonia-N NO3N - Nitrate-N LOI - Loss On Ignition 1:1 - Water pH SS1:2 - Soluble Salts

Analysis prepared by: Waypoint Analytical Tennessee, Inc.

Attachment 15.

Biosolids/WTP Residuals Analysis

8725 Fawn Trail The Woodlands, TX 77385
Tel: (936) 321-6060 | Fax: (936) 321 6061
Email: lab@nwdsls.com
www. NWDLS.com
TCEQ Lab ID #: TX204, Accreditation ID: T104704238

April 02, 2024

LABORATORY REPORT

Gabe Timby
Denali Water Solutions
220 S Commerce Avenue, First Floor
Russellville, AR 72801

Report ID: 20240402142703DLH

RE: Rio Hondo WWTP - FECAL/SOUR Only

The following test results meet all NELAP requirements for analytes for which certification is available. Any deviations from our quality system will be noted in the case narrative. All analyses performed by North Water District Laboratory Services, Inc. unless noted.

For questions regarding this report, contact Monica Martin at 936-321-6060.

Sincerely,

Deena Higginbotham

Deena Higginbotham For Monica O. Martin
Chief Operating Officer

8725 Fawn Trail The Woodlands, TX 77385
Tel: (936) 321-6060 | Fax: (936) 321 6061
Email: lab@nwdsls.com
www. NWDLS.com
TCEQ Lab ID #: TX204, Accreditation ID: T104704238

Denali Water Solutions	Project:	Rio Hondo WWTP - FECAL/SOUR Only	
220 S Commerce Avenue, First Floor	Project Number:		**Reported:**
Russellville, AR 72801	Project Manager:	Gabe Timby	04/02/2024 14:27

Work Order Case Narrative

FECAL GEOMETRIC MEAN - 59,739

8725 Fawn Trail The Woodlands, TX 77385
Tel: (936) 321-6060 | Fax: (936) 321 6061
Email: lab@nwdsls.com
www. NWDLS.com
TCEQ Lab ID #: TX204, Accreditation ID: T104704238

Denali Water Solutions	Project: Rio Hondo WWTP - FECAL/SOUR Only	
220 S Commerce Avenue, First Floor	Project Number:	**Reported:**
Russellville, AR 72801	Project Manager: Gabe Timby	04/02/2024 14:27

Sample Results

Client Sample ID: Biosolids
Lab Sample ID: 24C3021-01

Sample Matrix: Solid
Date Collected: 03/21/2024 11:00
Collected by: Denali

Method	Analyte	Result	Q	Units	Batch	Date Analyzed	Analyst
Colilert-18	Fecal coliforms	31600	H	MPN/g TS dry	BHC4028	03/26/2024 09:11	JKB
Colilert-18	Fecal coliforms	>198000TNTC	HR	MPN/g TS dry	BHC4028	03/26/2024 09:11	JKB
Colilert-18	Fecal coliforms	91500	HR	MPN/g TS dry	BHC4028	03/26/2024 09:11	JKB
Colilert-18	Fecal coliforms	9480	HR	MPN/g TS dry	BHC4028	03/26/2024 09:11	JKB
Colilert-18	Fecal coliforms	>198000TNTC	HR	MPN/g TS dry	BHC4028	03/26/2024 09:11	JKB
Colilert-18	Fecal coliforms	33600	HR	MPN/g TS dry	BHC4028	03/26/2024 09:11	JKB
Colilert-18	Fecal coliforms	75200	HR	MPN/g TS dry	BHC4028	03/26/2024 09:11	JKB
SM 2710 B	Specific Oxygen Uptake Rate (SOUR)	7.08	H	mg O2/hr/g TS @ 20°C dry	BHC3721	03/22/2024 15:14	AKA
SM 2550 B	Temperature °C Field	15.0		°C	BHC3935	03/12/2024 00:00	CLNT
SM 2540 G	% Solids	61.2		%	BHC3283	03/25/2024 10:07	ENR

The total solids is diluted to <=2.0% for the S.O.U.R. test when necessary.

CLASS B - Fail

Per Title 30, Texas Administrative Code, Chapter 312, for a Class B to pass, the fecal coliform geometric mean must be less than or equal to 2,000,000 CFU/ug TS and the S.O.U.R must be less than or equal to 1.5 mg O2/hr/g TS.

8725 Fawn Trail The Woodlands, TX 77385
Tel: (936) 321-6060 | Fax: (936) 321 6061
Email: lab@nwdsls.com
www. NWDLS.com
TCEQ Lab ID #: TX204, Accreditation ID: T104704238

Denali Water Solutions	Project:	Rio Hondo WWTP - FECAL/SOUR Only	
220 S Commerce Avenue, First Floor	Project Number:		**Reported:**
Russellville, AR 72801	Project Manager:	Gabe Timby	04/02/2024 14:27

Quality Control

General Chemistry

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHC3283 - Percent Solids										
Blank (BHC3283-BLK1)					Prepared: 03/22/2024 Analyzed: 03/25/2024					
% Solids	<0.100	U	0.100	%						
Duplicate (BHC3283-DUP1)			**Source: 24C4562-03**		Prepared: 03/22/2024 Analyzed: 03/25/2024					
% Solids			0.100	%		2.15			1.08	10
Duplicate (BHC3283-DUP2)			**Source: 24C4751-01**		Prepared: 03/22/2024 Analyzed: 03/25/2024					
% Solids			0.100	%		1.15			0.238	20
Reference (BHC3283-SRM1)					Prepared: 03/22/2024 Analyzed: 03/25/2024					
% Solids			0.100	%	0.350		110	78.9-118		

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TCEQ Lab ID #: TX204, Accreditation ID: T104704238

Denali Water Solutions	Project: Rio Hondo WWTP - FECAL/SOUR Only	
220 S Commerce Avenue, First Floor	Project Number:	**Reported:**
Russellville, AR 72801	Project Manager: Gabe Timby	04/02/2024 14:27

Quality Control
(Continued)

Microbiology

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHC4028 - FC Quantitray										
Blank (BHC4028-BLK1)					Prepared: 03/25/2024 Analyzed: 03/26/2024					
Fecal coliforms	<50.0	U	50.0	MPN/g TS wet						
Duplicate (BHC4028-DUP1)			**Source: 24C3021-01**		Prepared: 03/25/2024 Analyzed: 03/26/2024					
Fecal coliforms			81.7	MPN/g TS dry		31600			34.3	200

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Email: lab@nwdsls.com
www. NWDLS.com
TCEQ Lab ID #: TX204, Accreditation ID: T104704238

Denali Water Solutions	Project:	Rio Hondo WWTP - FECAL/SOUR Only	
220 S Commerce Avenue, First Floor	Project Number:		**Reported:**
Russellville, AR 72801	Project Manager:	Gabe Timby	04/02/2024 14:27

Term and Qualfier Definitions

Item	Definition
H	The parameter was analyzed outside the method specified holding time.
HR	The rerun parameter was analyzed outside the method specified holding time.
U	Non-detected compound.
DF	Dilution Factor - the factor applied to the reported data due to sample preparation, dilution, or moisture content
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated

CHAIN OF CUSTODY RECORD

NWDLS
North Water District Laboratory Services
130 S. Trade Center Pkwy, Conroe Tx 77385
(936) 321-6060 - lab@nwdls.com
TCEQ T104704238-23-39

24C3021

Denali Water Solutions
Gabe Timby
220 S Commerce Avenue, First Floor
Russellville, AR 72801
Phone: (479) 518-1554

Project Name : Rio Hondo WWTP - FECAL/SOUR Only

Schedule Comments:

Project Comments:

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation		Field Results
24C3021-01	Biosolids		3/21/24 11:00	S Grab	A HDPE S150mL Na2S2O3 B HDPE S150mL Na2S2O3 C HDPE S150mL Na2S2O3 D HDPE S150mL Na2S2O3 E HDPE S150mL Na2S2O3 F HDPE S150mL Na2S2O3 G HDPE S150mL Na2S2O3 H HDPE 1L I HDPE 250mL	FC/CB-QT-HR SOUR-2710 SOUR TS-2540 G TS-2540 G	Na2S2O3 <10°C 4°C 4°C 4°C	Temp C Field _____

Field Remarks:

Preservation: (Circle and Write ID) H2SO4 HNO3 NaOH Other: _____

Sampler (Signature)	Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time
T Castillo	T Castillo	3/21/24		
Print Name: Tony Castillo	Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time
Affiliation: Denali	Relinquished To Lab By: (Signature)	Date/Time	Received for Laboratory By: (Signature): ICDH	Date/Time: 3-22-24 10:00

Custody Seal : Yes / No (No circled)
Container Intact : Yes / No (Yes circled)
COC Labels Agree: Yes / No (Yes circled)
Appropriate Containers: Yes / No (Yes circled)
Appropriate Volume: Yes / No (Yes circled)
Coolers Intact: Yes / No (Yes circled)
Received on Ice: Yes / No (Yes circled)
Samples Accepted: Yes / No (Yes circled)
Temperature: 8.4 °C
Thermometer ID: 200767970

wko_NWDLS_COC_noDate_LS version 4: 02/22/2021

8725 Fawn Trail The Woodlands, TX 77385
Tel: (936) 321-6060 | Fax: (936) 321 6061
Email: lab@nwdsls.com
www. NWDLS.com
TCEQ Lab ID #: TX204, Accreditation ID: T104704238

April 25, 2024

LABORATORY REPORT

Gabe Timby
Denali Water Solutions
220 S Commerce Avenue, First Floor
Russellville, AR 72801

Report ID: 20240425130432DLH

RE: Rio Hondo WWTP - Recollect

The following test results meet all NELAP requirements for analytes for which certification is available. Any deviations from our quality system will be noted in the case narrative. All analyses performed by North Water District Laboratory Services, Inc. unless noted.

For questions regarding this report, contact Monica Martin at 936-321-6060.

Sincerely,

Deena Higginbotham

Deena Higginbotham For Monica O. Martin
Chief Operating Officer

8725 Fawn Trail The Woodlands, TX 77385
Tel: (936) 321-6060 | Fax: (936) 321 6061
Email: lab@nwdsls.com
www. NWDLS.com
TCEQ Lab ID #: TX204, Accreditation ID: T104704238

Denali Water Solutions	Project: Rio Hondo WWTP - Recollect	
220 S Commerce Avenue, First Floor	Project Number:	**Reported:**
Russellville, AR 72801	Project Manager: Gabe Timby	04/25/2024 13:04

Sample Results

Client Sample ID: Biosolids
Lab Sample ID: 24D1748-01

Sample Matrix: Solid
Date Collected: 04/18/2024 15:00
Collected by: Tony Castillo

Method	Analyte	Result	Q	Units	Batch	Date Analyzed	Analyst
SM 2710 B	Specific Oxygen Uptake Rate (SOUR)	0.0758		mg O2/hr/g TS @ 20°C dry	BHD3486	04/19/2024 10:38	AKA
SM 2540 G	% Solids	44.8		%	BHD3399	04/22/2024 10:00	ENR

The total solids is diluted to <=2.0% for the S.O.U.R. test when necessary.

CLASS B - Pass

Per Title 30, Texas Administrative Code, Chapter 312, for a Class B to pass, the fecal coliform geometric mean must be less than or equal to 2,000,000 CFU/ug TS and the S.O.U.R must be less than or equal to 1.5 mg O2/hr/g TS.

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Denali Water Solutions	Project: Rio Hondo WWTP - Recollect	
220 S Commerce Avenue, First Floor	Project Number:	**Reported:**
Russellville, AR 72801	Project Manager: Gabe Timby	04/25/2024 13:04

Quality Control

General Chemistry

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BHD3399 - Percent Solids										
Blank (BHD3399-BLK1)					Prepared: 04/19/2024 Analyzed: 04/22/2024					
% Solids	<0.100	U	0.100	%						
Duplicate (BHD3399-DUP1)			**Source: 24D4716-03**		Prepared: 04/19/2024 Analyzed: 04/22/2024					
% Solids			0.100	%		2.27			0.0334	10
Reference (BHD3399-SRM1)					Prepared: 04/19/2024 Analyzed: 04/22/2024					
% Solids			0.100	%	0.350		108	78.9-118		

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Denali Water Solutions	Project:	Rio Hondo WWTP - Recollect	
220 S Commerce Avenue, First Floor	Project Number:		**Reported:**
Russellville, AR 72801	Project Manager:	Gabe Timby	04/25/2024 13:04

Term and Qualfier Definitions

Item	Definition
U	Non-detected compound.
DF	Dilution Factor - the factor applied to the reported data due to sample preparation, dilution, or moisture content
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated

CHAIN OF CUSTODY RECORD

North Water District Laboratory Services
130 S. Trade Center Pkwy, Conroe Tx 77385
(936) 321-6060 - lab@nwdls.com

TCEQ TX-C24-00086

24D1748

Lab PM : Monica O. Martin	**Project Name** : Rio Hondo WWTP - Recollect	**Schedule Comments:**
Denali Water Solutions Gabe Timby 220 S Commerce Avenue, First Floor Russellville, AR 72801 Phone: (479) 518-1554	**Project Comments:**	

Sample ID	Collection Point	Date/Time Begin	Date/Time Sampled	Sample Type	Container	Analysis/Preservation	Field Results
24D1748-01	Biosolids		4/18/24 1500	S Grab	A HDPE 1L B HDPE 250mL	SOUR-2710 4°C SOUR TS-2540 G 4°C TS-2540 G 4°C	

Field Remarks:		**Lab Preservation:** (Circle and Write ID Below) H2SO4 HNO3 NaOH Other:		
Sampler (Signature) T Castillo	Relinquished By: (Signature) T Castillo	Date/Time 4/19/24 1640	Received By: (Signature)	Date/Time
Print Name Tony Castillo	Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Date/Time
Affiliation Denali	Relinquished To Lab By: (Signature) FedEx	Date/Time 09:40 04.19.24	Received for Laboratory By: (Signature) Smith	Date/Time 09:40 04.19.24

Custody Seal : Yes / No
Container Intact : Yes / No
COC Labels Agree: Yes / No
Appropriate Containers: Yes / No
Appropriate Volume: Yes / No
Coolers Intact: Yes / No
Received on Ice: Yes / No
Samples Accepted: Yes / No
Temperature: 6.5 °C
Thermometer ID: 230861589

wko_NWDLS_COC_LS Revision 4.1 Effective: 2/17/2022

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

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DETX-R

Denali Water
Tony Castillo
15308 Bass 3 Lane
Harlingen, TX 78552

Printed 04/05/2024
10:30

TABLE OF CONTENTS

RIO HONDO WWTP

This report consists of this Table of Contents and the following pages:

Email: Kilgore.ProjectManagement@spllabs.com

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

SAMPLE CROSS REFERENCE

Project
1096581

Printed 4/5/2024 Page 1 of 1
RIO HONDO WWTP

Denali Water
Tony Castillo
15308 Bass 3 Lane
Harlingen, TX 78552

Sample	Sample ID	Taken	Time	Received
2283575	*RIO HONDO WWTP*	03/21/2024	11:00:00	03/22/2024

Bottle 01 Glass Qt w/Teflon lined lid
Bottle 02 Prepared Bottle: NH3N TRAACS Autosampler Vial (Batch 1110656) Volume: 6.00000 mL <== Derived from 01 (0.5 grams)
Bottle 03 Prepared Bottle: TKN TRAACS Autosampler Vial (Batch 1110825) Volume: 20.00000 mL <== Derived from 01 (1.0 grams)
Bottle 04 Prepared Bottle: 2 mL Glass vial (Batch 1110915) Volume: 50.00000 mL <== Derived from 01 (5 grams)
Bottle 05 Prepared Bottle: PCBS 2 mL Autosampler Vial (Batch 1111010) Volume: 10.00000 mL <== Derived from 01 (2 grams)
Bottle 06 Prepared Bottle: TCLP Extract (Batch 1111022) Volume: 2000.00000 mL <== Derived from 01 (100 ml)
Bottle 07 Prepared Bottle: TCLP Extract for Metals (Batch 1111022) Volume: 100.00000 mL <== Derived from 01 (300 ml)
Bottle 08 Prepared Bottle: TCLP Extract for TABN/TCYH (Batch 1111022) Volume: 2000.00000 mL <== Derived from 01 (100 ml)
Bottle 09 Prepared Bottle: Mercury Preparation for Metals (Batch 1111094) Volume: 50.00000 mL <== Derived from 01 (0.5 grams)
Bottle 10 Prepared Bottle: 2 mL Autosampler Vial (Batch 1111339) Volume: 10.00000 mL <== Derived from 08 (1 ml)
Bottle 11 Prepared Bottle: TCLP Acid Mercury Digestion (Batch 1111351) Volume: 50.00000 mL <== Derived from 07 (2.5 ml)
Bottle 12 Prepared Bottle: 2 mL Autosampler Vial (Batch 1111196) Volume: 1.00000 mL <== Derived from 08 (100 ml)
Bottle 13 Prepared Bottle: TCLP Acid Digestion (Batch 1111464) Volume: 50.00000 mL <== Derived from 07 (10 ml)
Bottle 14 Prepared Bottle: TCLP Extract for TVOA (Batch 1111512)<== Derived from 01 (0 ml)
Bottle 15 Prepared Bottle: TEDLAR BAG (Batch 1111512) Volume: 300.00000 mL <== Derived from 01 (300 ml)
Bottle 16 Prepared Bottle: ICP Preparation for Metals (Batch 1111612) Volume: 50.00000 mL <== Derived from 01 (1.4 grams)
Bottle 17 Prepared Bottle: TG80 2 mL Autosampler Vial (Batch 1111756) Volume: 10.00000 mL <== Derived from 08 (200 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 8082	05	1111010	03/25/2024	1111416	03/26/2024
EPA 9056	04	1110915	03/25/2024	1111179	03/25/2024
EPA 6020A	13	1111464	03/27/2024	1111653	03/27/2024
EPA 6020A	16	1111612	03/28/2024	1111937	03/28/2024
EPA 6010C	13	1111464	03/27/2024	1112030	04/01/2024
EPA 6020A	16	1111612	03/28/2024	1112104	04/01/2024
EPA 7470 A	11	1111351	03/27/2024	1111486	03/27/2024
EPA 7471B 2	09	1111094	03/26/2024	1111166	03/26/2024
Calculation			03/28/2024		03/28/2024
EPA 6010C	16	1111612	03/28/2024	1111746	03/28/2024
EPA 6010C	16	1111612	03/28/2024	1111728	03/28/2024
EPA 350.1 2	02	1110656	03/22/2024	1111823	03/28/2024
EPA 8260B	15	1111512	03/27/2024	1112490	04/02/2024
EPA 8081A	17	1111756	03/28/2024	1112619	04/04/2024
EPA 8270C	12	1111196	03/26/2024	1112364	04/02/2024
EPA 8151	10	1111339	03/27/2024	1111705	03/27/2024
EPA 351.2 2	03	1110825	03/25/2024	1111781	03/28/2024
EPA 351.2, Rev 2.0			03/28/2024		03/28/2024
SM2540 G-1997 /MOD	01	1111395	03/26/2024	1111395	03/26/2024

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Denali Water
Tony Castillo
15308 Bass 3 Lane
Harlingen, TX 78552

Printed: 04/05/2024

RIO HONDO WWTP

RESULTS

Sample Results

2283575 RIO HONDO WWTP — Received: 03/22/2024

Solid & Chemical Materials — Collected by: Client — Denali Water — PO:
Taken: 03/21/2024 11:00:00

Calculation — Prepared: 03/26/2024 14:08:03 — Calculated 03/26/2024 14:08:03 — CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Nitrate Nitrogen Percent	<0.000876 *	%	0.000876			

Calculation — Prepared: 03/28/2024 13:38:08 — Calculated 03/28/2024 13:38:08 — CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Phosphorus as Percent	1.38 *	%	0.00713		7723-14-0	
z	Potassium as percent	0.200 *	%	0.0356		7440-09-7	

Calculation — Prepared: 03/28/2024 16:08:16 — Calculated 03/28/2024 16:08:16 — CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Ammonium Nitrogen	10700 *	mg/kg	110			

Calculation — Prepared: 03/28/2024 16:37:51 — Calculated 03/28/2024 16:37:51 — CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Ammonium Nitrogen Percent	1.07 *	%	0.011			

* Dry Weight Basis

EPA 350.1 2 — Prepared: 1110656 03/22/2024 14:34:00 — Analyzed 1111823 03/28/2024 08:56:00 — AMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Ammonia Nitrogen	8370 *	mg/kg	86.0			02

* Dry Weight Basis

EPA 351.2 2 — Prepared: 1110825 03/25/2024 06:52:25 — Analyzed 1111781 03/28/2024 08:46:00 — AMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Total Kjeldahl Nitrogen	25000 *	mg/kg	192		7727-37-9	03

* Dry Weight Basis

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Tony Castillo
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Harlingen, TX 78552

Printed: 04/05/2024

2283575 RIO HONDO WWTP

Received: 03/22/2024

Solid & Chemical Materials — Collected by: Client — Denali Water — PO:

Taken: 03/21/2024 11:00:00

EPA 351.2, Rev 2.0 — Prepared: 03/28/2024 15:07:47 — Calculated 03/28/2024 15:07:47 — CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Kjeldahl Nitrogen	2.50 *	%	0.0192			

* Dry Weight Basis

EPA 6010C — Prepared: 1111464 03/27/2024 10:30:00 — Analyzed 1112030 04/01/2024 12:51:00 — KB1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP Chromium	<0.250	mg/L	0.250		7440-47-3	13

EPA 6010C — Prepared: 1111612 03/28/2024 09:00:00 — Analyzed 1111746 03/28/2024 11:20:00 — KB1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Potassium	2000 *	mg/kg	356		7440-09-7	16

EPA 6010C — Prepared: 1111612 03/28/2024 09:00:00 — Analyzed 1111728 03/28/2024 11:23:00 — KB1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Phosphorus	13800 *	mg/kg	71.3		7723-14-0	16

* Dry Weight Basis

EPA 6020A — Prepared: 1111464 03/27/2024 10:30:00 — Analyzed 1111653 03/27/2024 22:32:00 — JC2

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP Arsenic	<0.500	mg/L	0.500		7440-38-2	13
NELAC	TCLP Barium	<0.500	mg/L	0.500		7440-39-3	13
NELAC	TCLP Cadmium	<0.050	mg/L	0.050		7440-43-9	13
NELAC	TCLP Lead	<0.500	mg/L	0.500		7439-92-1	13
NELAC	TCLP Selenium	<0.500	mg/L	0.500		7782-49-2	13
NELAC	TCLP Silver	<0.500	mg/L	0.500		7440-22-4	13

EPA 6020A — Prepared: 1111612 03/28/2024 09:00:00 — Analyzed 1111937 03/28/2024 15:19:00 — JC2

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Arsenic, Total	4.81 *	mg/kg	3.56		7440-38-2	16
NELAC	Cadmium, Total	1.17 *	mg/kg	0.713		7440-43-9	16
NELAC	Copper, Total	1430 *	mg/kg	0.713		7440-50-8	16
NELAC	Lead, Total	14.4 *	mg/kg	0.713		7439-92-1	16
NELAC	Molybdenum, Total	26.5 *	mg/kg	2.14		7439-98-7	16
NELAC	Nickel, Total	30.7 *	mg/kg	0.713		7440-02-0	16

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Denali Water
Tony Castillo
15308 Bass 3 Lane
Harlingen, TX 78552

Printed: 04/05/2024

2283575 RIO HONDO WWTP

Received: 03/22/2024

Solid & Chemical Materials — Collected by: Client — Denali Water — PO:

Taken: 03/21/2024 11:00:00

EPA 6020A — Prepared: 1111612 03/28/2024 09:00:00 — Analyzed 1111937 03/28/2024 15:19:00 JC2

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Selenium, Total	8.60 *	mg/kg	0.713		7782-49-2	16
NELAC	Zinc, Total	2350 *	mg/kg	7.13		7440-66-6	16

EPA 6020A — Prepared: 1111612 03/28/2024 09:00:00 — Analyzed 1112104 04/01/2024 19:46:00 JC2

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Chromium, Total	20.7 *	mg/kg	0.713		7440-47-3	16

* Dry Weight Basis

EPA 7470 A — Prepared: 1111351 03/27/2024 07:15:00 — Analyzed 1111486 03/27/2024 11:31:00 KB1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP Mercury	<0.002	mg/L	0.002		7439-97-6	11

EPA 7471B 2 — Prepared: 1111094 03/26/2024 07:15:00 — Analyzed 1111166 03/26/2024 10:54:00 KB1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Mercury	0.245 *	mg/kg	0.0374		7439-97-6	09

* Dry Weight Basis

EPA 8081A — Prepared: 1111756 03/28/2024 11:00:00 — Analyzed 1112619 04/04/2024 07:26:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP Chlordane	<0.005	mg/L	0.005		57-74-9	17
NELAC	TCLP Endrin	<0.00005	mg/L	0.00005		72-20-8	17
NELAC	TCLP gamma-BHC (Lindane)	<0.00005	mg/L	0.00005		58-89-9	17
NELAC	TCLP Heptachlor	<0.00005	mg/L	0.00005		76-44-8	17
NELAC	TCLP Heptachlor Epoxide	<0.000052	mg/L	0.000052		1024-57-3	17
NELAC	TCLP Methoxychlor	<0.000052	mg/L	0.000052	D	72-43-5	17
NELAC	TCLP Toxaphene	<0.005	mg/L	0.005		8001-35-2	17

EPA 8082 — Prepared: 1111010 03/25/2024 14:06:29 — Analyzed 1111416 03/26/2024 15:32:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	PCB-1016	<969 *	ug/kg	969	X	12674-11-2	05
NELAC	PCB-1221	<969 *	ug/kg	969		11104-28-2	05

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Denali Water
Tony Castillo
15308 Bass 3 Lane
Harlingen, TX 78552

Printed: 04/05/2024

2283575 RIO HONDO WWTP

Received: 03/22/2024

Solid & Chemical Materials Collected by: Client Denali Water PO:
Taken: 03/21/2024 11:00:00

EPA 8082 Prepared: 1111010 03/25/2024 14:06:29 Analyzed 1111416 03/26/2024 15:32:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	PCB-1232	<969 *	ug/kg	969		11141-16-5	05
NELAC	PCB-1242	<969 *	ug/kg	969		53469-21-9	05
NELAC	PCB-1248	<969 *	ug/kg	969		12672-29-6	05
NELAC	PCB-1254	<969 *	ug/kg	969		11097-69-1	05
NELAC	PCB-1260	<969 *	ug/kg	969	X	11096-82-5	05
NELAC	PCB-1262	<969 *	ug/kg	969		37324-23-5	05
NELAC	PCB-1268	<969 *	ug/kg	969		11100-14-4	05

* Dry Weight Basis

EPA 8151 Prepared: 1111339 03/27/2024 06:30:00 Analyzed 1111705 03/27/2024 18:17:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP 2,4 D	<0.500	mg/L	0.500		94-75-7	10
NELAC	TCLP 2,4,5-TP (Silvex)	<0.300	mg/L	0.300		93-72-1	10

EPA 8260B Prepared: 1111512 03/27/2024 14:05:00 Analyzed 1112490 04/02/2024 13:42:00 MR1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP 1,1-Dichloroethene	<0.010	mg/L	0.010		75-35-4	15
NELAC	TCLP 1,2-Dichloroethane	<0.010	mg/L	0.010		107-06-2	15
NELAC	TCLP 1,4 Dichlorobenzene	<0.010	mg/L	0.010	B	106-46-7	15
NELAC	TCLP Benzene	<0.010	mg/L	0.010	B	71-43-2	15
NELAC	TCLP Carbon tetrachloride	<0.010	mg/L	0.010		56-23-5	15
NELAC	TCLP Chlorobenzene	<0.010	mg/L	0.010		108-90-7	15
NELAC	TCLP Chloroform	<0.010	mg/L	0.010		67-66-3	15
NELAC	TCLP MEK	<0.010	mg/L	0.010		78-93-3	15
NELAC	TCLP Tetrachloroethylene	<0.010	mg/L	0.010		127-18-4	15
NELAC	TCLP Trichloroethylene	<0.010	mg/L	0.010		79-01-6	15
NELAC	TCLP Vinyl chloride	<0.010	mg/L	0.010		75-01-4	15

EPA 8270C Prepared: 1111196 03/27/2024 09:15:00 Analyzed 1112364 04/02/2024 19:55:00 DWL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP 2,4,5-Trichlorophenol	<0.010	mg/L	0.010		95-95-4	12
NELAC	TCLP 2,4,6-Trichlorophenol	<0.010	mg/L	0.010		88-06-2	12

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Project
1096581

Denali Water
Tony Castillo
15308 Bass 3 Lane
Harlingen, TX 78552

Printed: 04/05/2024

2283575 RIO HONDO WWTP — Received: 03/22/2024

Solid & Chemical Materials — Collected by: Client — Denali Water — PO:
Taken: 03/21/2024 11:00:00

EPA 8270C — Prepared: 1111196 03/27/2024 09:15:00 — Analyzed 1112364 04/02/2024 19:55:00 DWL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP 2,4-Dinitrotoluene	<0.035	mg/L	0.035		121-14-2	12
NELAC	TCLP 2-Methylphenol (o-Cresol)	<0.052	mg/L	0.052		95-48-7	12
NELAC	TCLP 3&4-Methylphenol (m&p-Creso	<0.062	mg/L	0.062		108-39-4	12
NELAC	TCLP Hexachlorobenzene	<0.010	mg/L	0.010		118-74-1	12
NELAC	TCLP Hexachlorobutadiene	<0.010	mg/L	0.010		87-68-3	12
NELAC	TCLP Hexachloroethane	<0.010	mg/L	0.010		67-72-1	12
NELAC	TCLP Nitrobenzene	<0.010	mg/L	0.010		98-95-3	12
NELAC	TCLP Pentachlorophenol	<0.010	mg/L	0.010	D	87-86-5	12
NELAC	TCLP Pyridine (Reg. Limit 5)	<0.054	mg/L	0.054		110-86-1	12

EPA 8270C — Prepared: 1111196 03/27/2024 09:15:00 — Calculated 1112364 04/03/2024 14:08:17 CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	TCLP Total Cresols (Reg Lim 200)	<0.062	mg/L	0.062		108-39-4,ect.	12

EPA 9056 — Prepared: 1110915 03/25/2024 00:00:00 — Analyzed 1111179 03/25/2024 15:24:00 NAZ

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Nitrate-Nitrogen	<8.76 *	mg/kg	8.76		14797-55-8	04

* Dry Weight Basis

SM2540 G-1997 /MOD — Prepared: 1111395 03/26/2024 06:15:00 — Analyzed 1111395 03/26/2024 06:15:00 BEK

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Total Solids for Dry Wt Conversi	25.8	%	0.010			01

Sample Preparation

2283575 RIO HONDO WWTP — Received: 03/22/2024

03/21/2024

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24 Waterway Avenue, Suite 375 The Woodlands, TX 77380
Office: 903-984-0551 * Fax: 903-984-5914

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Project
1096581

Denali Water
Tony Castillo
15308 Bass 3 Lane
Harlingen, TX 78552

Printed: 04/05/2024

2283575 RIO HONDO WWTP — Received: 03/22/2024

03/21/2024

		Prepared:		03/22/2024	13:09:17	Calculated		03/22/2024	13:09:17	CAL
z	Environmental Fee (per Project)	Verified								
Calculation		Prepared:		04/05/2024	10:06:23	Calculated		04/05/2024	10:06:23	CAL
	As Received to Dry Weight Basis	Calculated								
EPA 3510C		Prepared:	1111022	03/25/2024	14:15:00	Analyzed	1111196	03/27/2024	09:15:00	MCC
	TCLP Liquid-Liquid Extract	1/100	ml							08
EPA 3510C		Prepared:	1111022	03/25/2024	14:15:00	Analyzed	1111756	03/28/2024	11:00:00	CRS
	TCLP Liq-Liq Extr. W/Hex Exch.	10/200	ml							08
EPA 1311		Prepared:	1111022	03/25/2024	14:15:00	Analyzed	1111022	03/25/2024	14:15:00	SLF
NELAC	TCLP Extraction Non-Volatile	SOLID EXT 1	ml							01
EPA 1311ZHE		Prepared:	1111512	03/27/2024	14:05:00	Analyzed	1111512	03/27/2024	14:05:00	SLF
NELAC	TCLP Extraction ZHE Volatiles	100% SOLID	ml							01
EPA 200.2 2.8		Prepared:	1111612	03/28/2024	09:00:00	Analyzed	1111612	03/28/2024	09:00:00	TES
NELAC	Solid Metals Digestion	50/1.36	grams							01
EPA 3005A		Prepared:	1111022	03/25/2024	14:15:00	Analyzed	1111464	03/27/2024	10:30:00	TES

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Received: 03/22/2024

03/21/2024

	EPA 3005A	*Prepared:*	*1111022*	*03/25/2024*	*14:15:00*	*Analyzed*	*1111464*	*03/27/2024*	*10:30:00*	*TES*	
z	Metals Digestion TCLP Extract	50/10	ml								07
	EPA 350.1 2	*Prepared:*	*1110656*	*03/22/2024*	*14:34:00*	*Analyzed*	*1110656*	*03/22/2024*	*14:34:00*	*SRJ*	
NELAC	Ammonia Distillation	6/0.5405	grams								01
	EPA 351.2 2	*Prepared:*	*1110825*	*03/25/2024*	*06:52:25*	*Analyzed*	*1110825*	*03/25/2024*	*06:52:25*	*MEG*	
NELAC	TKN Block Digestion	20/1.0097	grams								01
	EPA 3550B	*Prepared:*	*1111010*	*03/25/2024*	*14:06:29*	*Analyzed*	*1111010*	*03/25/2024*	*14:06:29*	*PEV*	
NELAC	PCB Total Sonic Extr. W/Hex Exch	10/2.0	grams								01
	EPA 7470A	*Prepared:*	*1111022*	*03/25/2024*	*14:15:00*	*Analyzed*	*1111351*	*03/27/2024*	*07:15:00*	*ALB*	
NELAC	Metals Digestion TCLP 7470	50/2.5	ml								07
	EPA 7471B	*Prepared:*	*1111094*	*03/26/2024*	*07:15:00*	*Analyzed*	*1111094*	*03/26/2024*	*07:15:00*	*ALB*	
NELAC	Solid Metals Digestion Hg	50/0.5179	grams								01
	EPA 8081A	*Prepared:*	*1111756*	*03/28/2024*	*11:00:00*	*Analyzed*	*1112619*	*04/04/2024*	*07:26:00*	*KAP*	
NELAC	GC TCLP Pesticide	Entered									17

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03/21/2024

	EPA 8082	*Prepared:*	*1111010*	*03/25/2024*	*14:06:29*	*Analyzed*	*1111416*	*03/26/2024*	*15:32:00*	*KAP*	
NELAC	**Polychlorinated Biphenyls**	**Entered**									05
	EPA 8151	*Prepared:*	*1111339*	*03/27/2024*	*06:30:00*	*Analyzed*	*1111705*	*03/27/2024*	*18:17:00*	*KAP*	
NELAC	**GC TCLP Herbicide**	**Entered**									10
	EPA 8151A (Prep)	*Prepared:*	*1111022*	*03/25/2024*	*14:15:00*	*Analyzed*	*1111339*	*03/27/2024*	*06:30:00*	*MCC*	
NELAC	**Esterification of TCLP Extract**	**10/1**	**ml**								08
	EPA 8260B	*Prepared:*	*1111512*	*03/27/2024*	*14:05:00*	*Analyzed*	*1112490*	*04/02/2024*	*13:42:00*	*MR1*	
NELAC	**MS TCLP Volatile Analysis**	**Entered**									15
	EPA 8270C	*Prepared:*	*1111196*	*03/27/2024*	*09:15:00*	*Analyzed*	*1112364*	*04/02/2024*	*19:55:00*	*DWL*	
NELAC	**MS TCLP Semivolatile Analysis**	**Entered**									12
	EPA 9056	*Prepared:*	*1110915*	*03/25/2024*	*00:00:00*	*Analyzed*	*1110915*	*03/25/2024*	*00:00:00*	*PEV*	
	Water Extract-Ion Chromatography	**50/5.0**	**grams**								01
	SM 2540 G-1997	*Prepared:*	*1111061*	*03/26/2024*	*06:15:00*	*Analyzed*	*1111061*	*03/26/2024*	*06:15:00*	*BEK*	
NELAC	**Total Solids Start Code**	**Started**									

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Qualifiers:

B - Analyte detected in the associated method blank
D - Duplicate RPD was higher than expected
X - Standard reads higher than desired.

We report results on an As Received (or Wet) basis unless marked Dry Weight.

Unless otherwise noted, testing was performed at SPL, Inc.- Kilgore laboratory which holds International, Federal, and state accreditations. Please see our Websites for details.

(N)ELAC - Covered in our NELAC scope of accreditation
z -- Not covered by our NELAC scope of accreditation

These analytical results relate to the sample tested. This report may NOT be reproduced EXCEPT in FULL without written approval of SPL Kilgore. Unless otherwise specified, these test results meet the requirements of NELAC.
RL is the Reporting Limit (sample specific quantitation limit) and is at or above the Method Detection Limit (MDL). CAS is Chemical Abstract Service number. RL is our Reporting Limit, or Minimum Quantitation Level. The RL takes into account the Instrument Detection Limit (IDL), Method Detection Limit (MDL), and Practical Quantitation Limit (PQL), and any dilutions and/or concentrations performed during sample preparation (EQL). Our analytical result must be above this RL before we report a value in the 'Results' column of our report (without a 'J' flag). Otherwise, we report ND (Not Detected above RL), because the result is "<" (less than) the number in the RL column. MAL is Minimum Analytical Level and is typically from regulatory agencies. Unless we report a result in the result column, or interferences prevent it, we work to have our RL at or below the MAL.

Bill Peery, MS, VP Technical Services

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Printed 04/05/2024

Analytical Set 1111781 — EPA 351.2 2

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Total Kjeldahl Nitrogen	1110825	ND	0.378	1.00	mg/kg	126159405

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Total Kjeldahl Nitrogen	5.18	5.00	mg/kg	104	90.0 - 110	126159401
Total Kjeldahl Nitrogen	5.17	5.00	mg/kg	103	90.0 - 110	126159402
Total Kjeldahl Nitrogen	5.23	5.00	mg/kg	105	90.0 - 110	126159403
Total Kjeldahl Nitrogen	5.25	5.00	mg/kg	105	90.0 - 110	126159404
Total Kjeldahl Nitrogen	5.38	5.00	mg/kg	108	90.0 - 110	126159408
Total Kjeldahl Nitrogen	5.46	5.00	mg/kg	109	90.0 - 110	126159414
Total Kjeldahl Nitrogen	5.29	5.00	mg/kg	106	90.0 - 110	126159415

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Total Kjeldahl Nitrogen	2283571	7860	9170	mg/kg	15.4	20.0

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Total Kjeldahl Nitrogen	5.06	5.00	mg/kg	101	90.0 - 110	126159400

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Total Kjeldahl Nitrogen	1110825	97.2	108	100	90.0 - 110	97.2	108	mg/kg	10.5	20.0

Mat. Spike

Parameter	Sample	Spike	Unknown	Known	Units	Recovery %	Limits %	File	
Total Kjeldahl Nitrogen	2283571	10200	9170	9970	mg/kg	10.3	80.0 - 120	126159413	*

Analytical Set 1111784 — EPA 351.2 2

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Total Kjeldahl Nitrogen	2283571	7790	7800	mg/kg	0.128	20.0

Mat. Spike

Parameter	Sample	Spike	Unknown	Known	Units	Recovery %	Limits %	File	
Total Kjeldahl Nitrogen	2283571	10100	7800	9970	mg/kg	23.1	80.0 - 120	126159452	*

Analytical Set 1111823 — EPA 350.1 2

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Ammonia Nitrogen	1110656	ND	0.509	1.00	mg/kg	126160600

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Ammonia Nitrogen	2.11	2.00	mg/kg	106	90.0 - 110	126160599

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Parameter	Reading	Known	Units	Recover%	Limits%	File
Ammonia Nitrogen	2.07	2.00	mg/kg	104	90.0 - 110	126160604
Ammonia Nitrogen	2.07	2.00	mg/kg	104	90.0 - 110	126160606
Ammonia Nitrogen	2.06	2.00	mg/kg	103	90.0 - 110	126160607
Ammonia Nitrogen	2.01	2.00	mg/kg	100	90.0 - 110	126160608
Ammonia Nitrogen	2.02	2.00	mg/kg	101	90.0 - 110	126160609
Ammonia Nitrogen	2.05	2.00	mg/kg	102	90.0 - 110	126160612
Ammonia Nitrogen	2.02	2.00	mg/kg	101	90.0 - 110	126160618
Ammonia Nitrogen	2.04	2.00	mg/kg	102	90.0 - 110	126160619
Ammonia Nitrogen	2.06	2.00	mg/kg	103	90.0 - 110	126160620
Ammonia Nitrogen	2.02	2.00	mg/kg	101	90.0 - 110	126160621
Ammonia Nitrogen	2.04	2.00	mg/kg	102	90.0 - 110	126160622
Ammonia Nitrogen	2.03	2.00	mg/kg	102	90.0 - 110	126160623
Ammonia Nitrogen	2.01	2.00	mg/kg	100	90.0 - 110	126160624
Ammonia Nitrogen	2.01	2.00	mg/kg	100	90.0 - 110	126160629
Ammonia Nitrogen	1.98	2.00	mg/kg	99.0	90.0 - 110	126160630

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Ammonia Nitrogen	2283305	26.6	27.1	mg/kg	1.86	20.0

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Ammonia Nitrogen	2.12	2.00	mg/kg	106	90.0 - 110	126160598

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Ammonia Nitrogen	1110656	107	107	100	90.0 - 110	107	107	mg/kg	0	20.0

Mat. Spike

Parameter	Sample	Spike	Unknown	Known	Units	Recovery %	Limits %	File	
Ammonia Nitrogen	2283305	52.0	27.1	99.9	mg/kg	24.9	80.0 - 120	126160627	*

Analytical Set 1111395 — SM2540 G-1997 /MOD

ControlBlk

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Total Solids for Dry Wt Conversi	1111395	0.0002			grams	126150400

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Total Solids for Dry Wt Conversi	2283571	41.1	44.0	%	6.82	20.0
Total Solids for Dry Wt Conversi	2283999	84.8	84.5	%	0.354	20.0

Analytical Set 1111179 — EPA 9056

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Nitrate-Nitrogen	1110915	ND	0.00185	0.0226	mg/kg	126141393

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CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Nitrate-Nitrogen	2.27	2.26	mg/kg	100	90.0 - 110	126141392
Nitrate-Nitrogen	2.34	2.26	mg/kg	104	90.0 - 110	126141403

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Nitrate-Nitrogen	1110915	1.17	1.19	1.13	75.0 - 120	104	105	mg/kg	1.69	20.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Nitrate-Nitrogen	2283999	3.68	0.388	1.36	0.226	80.0 - 120	103	-43.0 *	mg/kg	488 *	20.0

Analytical Set 1111166 — EPA 7471B 2

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Mercury	1111094	ND	0.0000419	0.0001	mg/kg	126141171

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Mercury	0.00511	0.005	mg/kg	102	90.0 - 110	126141162
Mercury	0.00503	0.005	mg/kg	101	90.0 - 110	126141163
Mercury	0.0049	0.005	mg/kg	98.0	90.0 - 110	126141170
Mercury	0.00504	0.005	mg/kg	101	90.0 - 110	126141175
Mercury	0.00494	0.005	mg/kg	98.8	90.0 - 110	126141180
Mercury	0.00492	0.005	mg/kg	98.4	90.0 - 110	126141181

ICL

Parameter	Reading	Known	Units	Recover%	Limits%	File
Mercury	0.0202	0.02	mg/kg	101	90.0 - 110	126141161

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Mercury	0.00492	0.005	mg/kg	98.4	90.0 - 110	126141160

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Mercury	1111094	0.00952	0.00952	0.010	78.6 - 104	95.2	95.2	mg/kg	0	20.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Mercury	2283571	1.00	0.910	0.0999	0.996	74.3 - 109	91.8	82.7	mg/kg	10.5	25.0

Analytical Set 1111486 — EPA 7470 A

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP Mercury	1111351	ND	0.000113	0.0002	mg/L	126153314

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CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Mercury	0.00504	0.005	mg/L	101	90.0 - 110	126153312
TCLP Mercury	0.00506	0.005	mg/L	101	90.0 - 110	126153313
TCLP Mercury	0.00505	0.005	mg/L	101	90.0 - 110	126153323
TCLP Mercury	0.00506	0.005	mg/L	101	90.0 - 110	126153330

ICL

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Mercury	0.0206	0.02	mg/L	103	90.0 - 110	126153311

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Mercury	0.00502	0.005	mg/L	100	90.0 - 110	126153310

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
TCLP Mercury	1111351	0.00897	0.0091	0.010	85.1 - 117	89.7	91.0	mg/L	1.44	20.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
TCLP Mercury	2284050	0.0929	0.0911	ND	0.100	80.9 - 121	92.9	91.1	mg/L	1.96	20.0

Analytical Set 1111653 — EPA 6020A

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP Arsenic	1111464	ND	0.010	0.010	mg/L	126156935
TCLP Barium	1111464	ND	0.010	0.010	mg/L	126156935
TCLP Cadmium	1111464	ND	0.001	0.001	mg/L	126156935
TCLP Lead	1111464	ND	0.010	0.010	mg/L	126156935
TCLP Selenium	1111464	ND	0.010	0.010	mg/L	126156935
TCLP Silver	1111464	ND	0.010	0.010	mg/L	126156935

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Arsenic	0.0543	0.05	mg/L	109	90.0 - 110	126156926
TCLP Arsenic	0.0544	0.05	mg/L	109	90.0 - 110	126156934
TCLP Arsenic	0.052	0.05	mg/L	104	90.0 - 110	126156945
TCLP Arsenic	0.0502	0.05	mg/L	100	90.0 - 110	126156956
TCLP Barium	0.0524	0.05	mg/L	105	90.0 - 110	126156934
TCLP Barium	0.0529	0.05	mg/L	106	90.0 - 110	126156945
TCLP Barium	0.0539	0.05	mg/L	108	90.0 - 110	126156956
TCLP Cadmium	0.0517	0.05	mg/L	103	90.0 - 110	126156926
TCLP Cadmium	0.0518	0.05	mg/L	104	90.0 - 110	126156934
TCLP Cadmium	0.0525	0.05	mg/L	105	90.0 - 110	126156945
TCLP Cadmium	0.0523	0.05	mg/L	105	90.0 - 110	126156956
TCLP Lead	0.0521	0.05	mg/L	104	90.0 - 110	126156934
TCLP Lead	0.0522	0.05	mg/L	104	90.0 - 110	126156945

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Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Lead	0.0534	0.05	mg/L	107	90.0 - 110	126156956
TCLP Selenium	0.0525	0.05	mg/L	105	90.0 - 110	126156926
TCLP Selenium	0.0547	0.05	mg/L	109	90.0 - 110	126156934
TCLP Selenium	0.0494	0.05	mg/L	98.8	90.0 - 110	126156945
TCLP Selenium	0.0453	0.05	mg/L	90.6	90.0 - 110	126156956
TCLP Silver	0.0544	0.05	mg/L	109	90.0 - 110	126156934
TCLP Silver	0.0544	0.05	mg/L	109	90.0 - 110	126156945
TCLP Silver	0.055	0.05	mg/L	110	90.0 - 110	126156956

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Arsenic	0.0504	0.05	mg/L	101	90.0 - 110	126156870
TCLP Barium	0.0498	0.05	mg/L	99.6	90.0 - 110	126156870
TCLP Cadmium	0.0492	0.05	mg/L	98.4	90.0 - 110	126156870
TCLP Lead	0.0499	0.05	mg/L	99.8	90.0 - 110	126156870
TCLP Selenium	0.0502	0.05	mg/L	100	90.0 - 110	126156870
TCLP Silver	0.0509	0.05	mg/L	102	90.0 - 110	126156870

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
TCLP Arsenic	1111464	0.568	0.568	0.500	82.8 - 120	114	114	mg/L	0	14.0
TCLP Barium	1111464	0.542	0.528	0.500	83.1 - 113	108	106	mg/L	2.62	14.0
TCLP Cadmium	1111464	0.263	0.258	0.250	86.0 - 115	105	103	mg/L	1.92	14.0
TCLP Lead	1111464	0.531	0.520	0.500	85.1 - 115	106	104	mg/L	2.09	14.0
TCLP Selenium	1111464	0.559	0.559	0.500	83.5 - 121	112	112	mg/L	0	14.0
TCLP Silver	1111464	0.109	0.107	0.100	80.1 - 118	109	107	mg/L	1.85	14.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
TCLP Arsenic	2283563	2.06	2.82	ND	2.50	84.9 - 114	82.4 *	113	mg/L	31.1 *	20.0
TCLP Barium	2283563	2.03	2.80	0.0571	2.50	80.3 - 115	78.9 *	110	mg/L	32.7 *	20.0
TCLP Cadmium	2283563	0.985	1.37	0.015	1.25	78.2 - 120	77.6 *	108	mg/L	33.1 *	20.0
TCLP Lead	2283563	2.01	2.73	ND	2.50	85.0 - 116	80.4 *	109	mg/L	30.4 *	20.0
TCLP Selenium	2283563	2.78	3.66	0.878	2.50	80.2 - 121	76.1 *	111	mg/L	37.6 *	20.0
TCLP Silver	2283563	0.400	0.557	ND	0.500	80.7 - 115	80.0 *	111	mg/L	32.8 *	20.0
TCLP Arsenic	2284005	2.85	0.271	ND	2.50	84.9 - 114	114	10.8 *	mg/L	165 *	20.0
TCLP Barium	2284005	3.07	0.302	0.344	2.50	80.3 - 115	109	-1.68 *	mg/L	206 *	20.0
TCLP Cadmium	2284005	1.36	0.136	0.00136	1.25	78.2 - 120	109	10.8 *	mg/L	164 *	20.0
TCLP Lead	2284005	2.69	0.268	ND	2.50	85.0 - 116	108	10.7 *	mg/L	164 *	20.0
TCLP Selenium	2284005	2.59	0.260	ND	2.50	80.2 - 121	104	10.4 *	mg/L	164 *	20.0
TCLP Silver	2284005	0.550	0.0556	ND	0.500	80.7 - 115	110	11.1 *	mg/L	163 *	20.0

Analytical Set 1111728 EPA 6010C

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Phosphorus	1111612	ND	0.00734	0.100	mg/kg	126158478

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CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Phosphorus	1.05	1.00	mg/kg	105	90.0 - 110	126158472
Phosphorus	1.06	1.00	mg/kg	106	90.0 - 110	126158473
Phosphorus	1.07	1.00	mg/kg	107	90.0 - 110	126158477
Phosphorus	1.07	1.00	mg/kg	107	90.0 - 110	126158487
Phosphorus	1.05	1.00	mg/kg	105	90.0 - 110	126158493

ICL

Parameter	Reading	Known	Units	Recover%	Limits%	File
Phosphorus	25.5	25.0	mg/kg	102	95.0 - 105	126158470

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Phosphorus	1.04	1.00	mg/kg	104	90.0 - 110	126158471

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Phosphorus	1111612	20.1	20.6	20.0	80.0 - 120	100	103	mg/kg	2.46	25.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Phosphorus	2283305	268	270	85.9	199	23.3 - 179	92.4	93.5	mg/kg	1.09	25.0

Analytical Set 1111746 — EPA 6010C

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Potassium	1111612	ND	0.111	0.500	mg/kg	126158885

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Potassium	26.7	25.0	mg/kg	107	90.0 - 110	126158880
Potassium	26.9	25.0	mg/kg	108	90.0 - 110	126158884
Potassium	25.4	25.0	mg/kg	102	90.0 - 110	126158894

ICL

Parameter	Reading	Known	Units	Recover%	Limits%	File
Potassium	50.6	50.0	mg/kg	101	95.0 - 105	126158874

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Potassium	25.9	25.0	mg/kg	104	90.0 - 110	126158878

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Potassium	1111612	24.1	24.3	25.0	78.0 - 116	96.4	97.2	mg/kg	0.826	25.0

LDR

Parameter	Reading	Known	Units	Recover%	Limits%	File
Potassium	101	100	mg/kg	101	90.0 - 110	126158875

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MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Potassium	2283305	338	339	110	249	33.6 - 179	92.7	93.1	mg/kg	0.438	25.0

Analytical Set 1111937 EPA 6020A

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Arsenic, Total	1111612	ND	0.000917	0.005	mg/kg	126162851
Cadmium, Total	1111612	ND	0.00011	0.001	mg/kg	126162851
Copper, Total	1111612	0.000608	0.000242	0.001	mg/kg	126162851
Lead, Total	1111612	ND	0.000262	0.001	mg/kg	126162851
Molybdenum, Total	1111612	ND	0.000865	0.003	mg/kg	126162851
Nickel, Total	1111612	ND	0.000287	0.001	mg/kg	126162851
Selenium, Total	1111612	ND	0.000353	0.001	mg/kg	126162851
Zinc, Total	1111612	ND	0.00479	0.010	mg/kg	126162851

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Arsenic, Total	0.0491	0.05	mg/kg	98.2	90.0 - 110	126162850
Arsenic, Total	0.0488	0.05	mg/kg	97.6	90.0 - 110	126162858
Arsenic, Total	0.0511	0.05	mg/kg	102	90.0 - 110	126162865
Cadmium, Total	0.0486	0.05	mg/kg	97.2	90.0 - 110	126162850
Cadmium, Total	0.050	0.05	mg/kg	100	90.0 - 110	126162858
Cadmium, Total	0.0494	0.05	mg/kg	98.8	90.0 - 110	126162865
Copper, Total	0.0511	0.05	mg/kg	102	90.0 - 110	126162850
Copper, Total	0.0536	0.05	mg/kg	107	90.0 - 110	126162858
Copper, Total	0.0527	0.05	mg/kg	105	90.0 - 110	126162865
Lead, Total	0.0492	0.05	mg/kg	98.4	90.0 - 110	126162850
Lead, Total	0.0505	0.05	mg/kg	101	90.0 - 110	126162858
Lead, Total	0.0507	0.05	mg/kg	101	90.0 - 110	126162865
Molybdenum, Total	0.0478	0.05	mg/kg	95.6	90.0 - 110	126162850
Molybdenum, Total	0.0496	0.05	mg/kg	99.2	90.0 - 110	126162858
Molybdenum, Total	0.0493	0.05	mg/kg	98.6	90.0 - 110	126162865
Nickel, Total	0.0511	0.05	mg/kg	102	90.0 - 110	126162850
Nickel, Total	0.0534	0.05	mg/kg	107	90.0 - 110	126162858
Nickel, Total	0.0528	0.05	mg/kg	106	90.0 - 110	126162865
Selenium, Total	0.0514	0.05	mg/kg	103	90.0 - 110	126162850
Selenium, Total	0.050	0.05	mg/kg	100	90.0 - 110	126162858
Selenium, Total	0.0522	0.05	mg/kg	104	90.0 - 110	126162865
Zinc, Total	0.0509	0.05	mg/kg	102	90.0 - 110	126162850
Zinc, Total	0.0546	0.05	mg/kg	109	90.0 - 110	126162858
Zinc, Total	0.0525	0.05	mg/kg	105	90.0 - 110	126162865

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Arsenic, Total	0.0487	0.05	mg/kg	97.4	90.0 - 110	126162845
Cadmium, Total	0.0495	0.05	mg/kg	99.0	90.0 - 110	126162845

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ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Copper, Total	0.0527	0.05	mg/kg	105	90.0 - 110	126162845
Lead, Total	0.0499	0.05	mg/kg	99.8	90.0 - 110	126162845
Molybdenum, Total	0.0484	0.05	mg/kg	96.8	90.0 - 110	126162845
Nickel, Total	0.053	0.05	mg/kg	106	90.0 - 110	126162845
Selenium, Total	0.0548	0.05	mg/kg	110	90.0 - 110	126162845
Zinc, Total	0.0544	0.05	mg/kg	109	90.0 - 110	126162845

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Arsenic, Total	1111612	2.50	2.50	2.50	80.0 - 120	100	100	mg/kg	0	20.0
Cadmium, Total	1111612	1.25	1.29	1.25	80.0 - 120	100	103	mg/kg	3.15	20.0
Copper, Total	1111612	2.54	2.62	2.50	80.0 - 120	102	105	mg/kg	3.10	20.0
Lead, Total	1111612	2.51	2.59	2.50	80.0 - 120	100	104	mg/kg	3.14	20.0
Molybdenum, Total	1111612	2.47	2.69	2.50	80.0 - 120	98.8	108	mg/kg	8.53	20.0
Nickel, Total	1111612	2.59	2.63	2.50	80.0 - 120	104	105	mg/kg	1.53	20.0
Selenium, Total	1111612	2.47	2.55	2.50	80.0 - 120	98.8	102	mg/kg	3.19	20.0
Zinc, Total	1111612	2.73	2.81	2.50	80.0 - 120	109	112	mg/kg	2.89	20.0

LDR

Parameter	Reading	Known	Units	Recover%	Limits%	File
Arsenic, Total	10.1	10	mg/kg	101	90.0 - 110	126162847
Cadmium, Total	10.2	10	mg/kg	102	90.0 - 110	126162847
Copper, Total	10.3	10	mg/kg	103	90.0 - 110	126162847
Lead, Total	9.71	10	mg/kg	97.1	90.0 - 110	126162847
Molybdenum, Total	9.93	10	mg/kg	99.3	90.0 - 110	126162847
Nickel, Total	10.4	10	mg/kg	104	90.0 - 110	126162847
Selenium, Total	9.96	10	mg/kg	99.6	90.0 - 110	126162847
Zinc, Total	10.5	10	mg/kg	105	90.0 - 110	126162847

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Arsenic, Total	2283305	22.5	22.4	1.47	24.9	67.5 - 123	85.5	85.1	mg/kg	0.477	20.0
Cadmium, Total	2283305	11.6	11.3	0.0112	12.4	86.3 - 114	94.2	91.8	mg/kg	2.62	20.0
Copper, Total	2283305	70.2	73.2	50.6	24.9	40.4 - 145	79.7	91.9	mg/kg	14.2	20.0
Lead, Total	2283305	24.5	24.1	1.18	24.9	78.8 - 123	94.8	93.2	mg/kg	1.73	20.0
Molybdenum, Total	2283305	19.6	19.3	0.120	24.9	62.9 - 137	79.2	78.0	mg/kg	1.55	20.0
Nickel, Total	2283305	24.1	23.9	1.61	24.9	76.5 - 121	91.4	90.6	mg/kg	0.893	20.0
Selenium, Total	2283305	20.0	20.0	0.227	24.9	63.9 - 122	80.4	80.4	mg/kg	0	20.0
Zinc, Total	2283305	27.3	27.1	3.79	24.9	28.6 - 157	95.6	94.8	mg/kg	0.854	20.0

Analytical Set 1112030 EPA 6010C

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP Chromium	1111464	ND	0.00175	0.050	mg/L	126165148

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Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Chromium	2.53	2.50	mg/L	101	90.0 - 110	126165135
TCLP Chromium	2.48	2.50	mg/L	99.2	90.0 - 110	126165147
TCLP Chromium	2.48	2.50	mg/L	99.2	90.0 - 110	126165150
TCLP Chromium	2.48	2.50	mg/L	99.2	90.0 - 110	126165158
TCLP Chromium	2.46	2.50	mg/L	98.4	90.0 - 110	126165164

ICL

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Chromium	4.94	5.00	mg/L	98.8	95.0 - 105	126165129

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Chromium	2.54	2.50	mg/L	102	90.0 - 110	126165133

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
TCLP Chromium	1111464	0.478	0.487	0.500	93.8 - 121	95.6	97.4	mg/L	1.87	30.0

LDR

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Chromium	9.67	10.0	mg/L	96.7	90.0 - 110	126165130

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
TCLP Chromium	2284005	2.43	2.41	ND	2.50	83.9 - 121	97.2	96.4	mg/L	0.826	30.0

Analytical Set 1112104 — EPA 6020A

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Chromium, Total	1111612	ND	0.000409	0.001	mg/kg	126168194

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Chromium, Total	0.050	0.05	mg/kg	100	90.0 - 110	126168196
Chromium, Total	0.0508	0.05	mg/kg	102	90.0 - 110	126168205

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Chromium, Total	0.049	0.05	mg/kg	98.0	90.0 - 110	126168171

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Chromium, Total	1111612	2.61	2.62	2.50	80.0 - 120	104	105	mg/kg	0.382	20.0

LDR

Parameter	Reading	Known	Units	Recover%	Limits%	File
Chromium, Total	4.99	5	mg/kg	99.8	90.0 - 110	126168174

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MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Chromium, Total	2283305	25.3	25.0	1.27	24.9	80.1 - 122	97.7	96.5	mg/kg	1.26	20.0

Analytical Set 1111416 — EPA 8082

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
PCB-1016	1111010	ND	43.0	250	ug/kg	126152026
PCB-1221	1111010	ND	43.0	250	ug/kg	126152026
PCB-1232	1111010	ND	43.0	250	ug/kg	126152026
PCB-1242	1111010	ND	43.0	250	ug/kg	126152026
PCB-1248	1111010	ND	43.0	250	ug/kg	126152026
PCB-1254	1111010	ND	43.0	250	ug/kg	126152026
PCB-1260	1111010	ND	43.0	250	ug/kg	126152026

CCV

Parameter	Reading	Known	Units	Recover%	Limits%		File
PCB-1016	1080	1000	ug/kg	108	80.0 - 120		126152025
PCB-1016	1300	1000	ug/kg	130	80.0 - 120	*	126152040
PCB-1260	1110	1000	ug/kg	111	80.0 - 120		126152025
PCB-1260	1220	1000	ug/kg	122	80.0 - 120	*	126152040

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
PCB-1016	1111010	4790	4930	5000	28.4 - 187	95.8	98.6	ug/kg	2.88	30.0
PCB-1260	1111010	4700	4670	5000	22.3 - 183	94.0	93.4	ug/kg	0.640	30.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
PCB-1016	2284005	4590	4650	ND	10000	0.100 - 427	45.9	46.5	ug/kg	1.30	30.0
PCB-1260	2284005	4350	4580	ND	10000	0.100 - 470	43.5	45.8	ug/kg	5.15	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Decachlorobiphenyl	1111010	Blank	99.1	100	ug/kg	99.1	10.0 - 200	126152026
Tetrachloro-m-Xylene (Surr)	1111010	Blank	104	100	ug/kg	104	10.0 - 160	126152026
Decachlorobiphenyl	2283575	Unknown	515	500	ug/kg	103	10.0 - 200	126152034
Tetrachloro-m-Xylene (Surr)	2283575	Unknown	537	500	ug/kg	107	10.0 - 160	126152034

Analytical Set 1111705 — EPA 8151

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP 2,4 D	1111022	ND	0.000159	0.0005	mg/L	126158074
TCLP 2,4,5-TP (Silvex)	1111022	ND	0.0000893	0.0003	mg/L	126158074
TCLP 2,4 D	1111339	ND	0.000159	0.0005	mg/L	126158069
TCLP 2,4,5-TP (Silvex)	1111339	ND	0.0000893	0.0003	mg/L	126158069

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Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP 2,4 D	0.145	0.150	mg/L	96.8	70.0 - 130	126158068
TCLP 2,4 D	0.115	0.150	mg/L	76.7	70.0 - 130	126158085
TCLP 2,4,5-TP (Silvex)	0.145	0.150	mg/L	96.8	70.0 - 130	126158068
TCLP 2,4,5-TP (Silvex)	0.121	0.150	mg/L	80.5	70.0 - 130	126158085

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
TCLP 2,4 D	1111339	0.000653	0.000573	0.001	2.06 - 194	65.3	57.3	mg/L	13.1	30.0
TCLP 2,4,5-TP (Silvex)	1111339	0.000851	0.000769	0.001	19.3 - 162	85.1	76.9	mg/L	10.1	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
2,4-Dichlorophenylacetic Acid		CCV	0.168	0.200	mg/L	84.0	0.100 - 294	126158068
2,4-Dichlorophenylacetic Acid		CCV	0.134	0.200	mg/L	67.0	0.100 - 294	126158085
2,4-Dichlorophenylacetic Acid	1111022	Blank	0.0708	0.200	mg/L	35.4	0.100 - 294	126158074
2,4-Dichlorophenylacetic Acid	1111339	Blank	0.0548	0.200	mg/L	27.4	0.100 - 294	126158069
2,4-Dichlorophenylacetic Acid	1111339	LCS	0.0783	0.200	mg/L	39.2	0.100 - 294	126158070
2,4-Dichlorophenylacetic Acid	1111339	LCS Dup	0.071	0.200	mg/L	35.5	0.100 - 294	126158071
2,4-Dichlorophenylacetic Acid	2283575	Unknown	0.476	2.00	mg/L	23.8	0.100 - 294	126158078

Analytical Set 1112199 — EPA 8270C

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP 2,4,5-Trichlorophenol	1111022	ND	0.000734	0.001	mg/L	126170427
TCLP 2,4,6-Trichlorophenol	1111022	ND	0.000704	0.001	mg/L	126170427
TCLP 2,4-Dinitrotoluene	1111022	ND	0.00335	0.0035	mg/L	126170427
TCLP 2-Methylphenol (o-Cresol)	1111022	ND	0.00513	0.0052	mg/L	126170427
TCLP 3&4-Methylphenol (m&p-Creso	1111022	ND	0.00615	0.0062	mg/L	126170427
TCLP Hexachlorobenzene	1111022	ND	0.000187	0.001	mg/L	126170427
TCLP Hexachlorobutadiene	1111022	ND	0.000618	0.001	mg/L	126170427
TCLP Hexachloroethane	1111022	ND	0.000789	0.001	mg/L	126170427
TCLP Nitrobenzene	1111022	ND	0.00039	0.001	mg/L	126170427
TCLP Pentachlorophenol	1111022	ND	0.000129	0.001	mg/L	126170427
TCLP Pyridine (Reg. Limit 5)	1111022	ND	0.00533	0.0054	mg/L	126170427

MS

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
TCLP 2,4,5-Trichlorophenol	2282725	0.146	0	0.0045	0.250	33.7 - 116	56.6		mg/L		30.0
TCLP 2,4,6-Trichlorophenol	2282725	0.179	0	0.0045	0.250	20.1 - 131	69.8		mg/L		30.0
TCLP 2,4-Dinitrotoluene	2282725	0.167	0	0.0045	0.250	31.8 - 135	65.0		mg/L		30.0
TCLP 2-Methylphenol (o-Cresol)	2282725	0.140	0	ND	0.250	10.6 - 106	56.0		mg/L		30.0
TCLP 3&4-Methylphenol (m&p-Creso	2282725	0.108	0	0.0066	0.250	0.100 - 149	40.6		mg/L		30.0
TCLP Hexachlorobenzene	2282725	0.212	0	0.0045	0.250	35.9 - 125	83.0		mg/L		30.0
TCLP Hexachlorobutadiene	2282725	0.138	0	0.0045	0.250	11.1 - 88.5	53.4		mg/L		30.0
TCLP Hexachloroethane	2282725	0.133	0	0.0045	0.250	8.41 - 88.1	51.4		mg/L		30.0
TCLP Nitrobenzene	2282725	0.179	0	0.0045	0.250	28.7 - 119	69.8		mg/L		30.0

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QUALITY CONTROL

DETX-R

Denali Water
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MS

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
TCLP Pentachlorophenol	2282725	0.145	0	0.0064	0.250	8.33 - 141	55.4		mg/L		30.0
TCLP Pyridine (Reg. Limit 5)	2282725	0.0841	0	ND	0.250	0.100 - 97.2	33.6		mg/L		30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
2,4,6-Tribromophenol	1111022	Blank	1.47	3.33	mg/L	44.1	9.79 - 123	126170427
2-Fluorobiphenyl-SURR	1111022	Blank	34.7	50.0	mg/L	69.4	0.100 - 131	126170427
2-Fluorophenol-SURR	1111022	Blank	53.6	100	mg/L	53.6	5.36 - 80.2	126170427
4-Terphenyl-d14-SURR	1111022	Blank	32.6	50.0	mg/L	65.2	0.100 - 137	126170427
Nitrobenzene-d5-SURR	1111022	Blank	34.2	50.0	mg/L	68.4	0.100 - 131	126170427
Phenol-d6-SURR	1111022	Blank	30.6	100	mg/L	30.6	0.100 - 66.5	126170427

Analytical Set 1112364 — EPA 8270C

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP 2,4,5-Trichlorophenol	1111196	ND	0.000734	0.001	mg/L	126172226
TCLP 2,4,6-Trichlorophenol	1111196	ND	0.000704	0.001	mg/L	126172226
TCLP 2,4-Dinitrotoluene	1111196	ND	0.00335	0.0035	mg/L	126172226
TCLP 2-Methylphenol (o-Cresol)	1111196	ND	0.00513	0.0052	mg/L	126172226
TCLP 3&4-Methylphenol (m&p-Creso	1111196	ND	0.00615	0.0062	mg/L	126172226
TCLP Hexachlorobenzene	1111196	ND	0.000187	0.001	mg/L	126172226
TCLP Hexachlorobutadiene	1111196	ND	0.000618	0.001	mg/L	126172226
TCLP Hexachloroethane	1111196	ND	0.000789	0.001	mg/L	126172226
TCLP Nitrobenzene	1111196	ND	0.00039	0.001	mg/L	126172226
TCLP Pentachlorophenol	1111196	ND	0.000129	0.001	mg/L	126172226
TCLP Pyridine (Reg. Limit 5)	1111196	ND	0.00533	0.0054	mg/L	126172226

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP 2,4,5-Trichlorophenol	43.9	50.0	mg/L	87.7	70.0 - 130	126172224
TCLP 2,4,6-Trichlorophenol	47.8	50.0	mg/L	95.6	70.0 - 130	126172224
TCLP 2,4-Dinitrotoluene	39.2	50.0	mg/L	78.5	70.0 - 130	126172224
TCLP 2-Methylphenol (o-Cresol)	51.1	50.0	mg/L	102	70.0 - 130	126172224
TCLP 3&4-Methylphenol (m&p-Creso	40.5	50.0	mg/L	81.0	70.0 - 130	126172224
TCLP Hexachlorobenzene	58.0	50.0	mg/L	116	70.0 - 130	126172224
TCLP Hexachlorobutadiene	53.8	50.0	mg/L	108	70.0 - 130	126172224
TCLP Hexachloroethane	54.2	50.0	mg/L	108	70.0 - 130	126172224
TCLP Nitrobenzene	49.6	50.0	mg/L	99.2	70.0 - 130	126172224
TCLP Pentachlorophenol	44.6	50.0	mg/L	89.1	70.0 - 130	126172224
TCLP Pyridine (Reg. Limit 5)	45.8	50.0	mg/L	91.6	70.0 - 130	126172224

DFTPP

Parameter		RefMass	Reading	%	Limits%	File
DFTPP Mass 127	623485	198	203200	56.8	40.0 - 60.0	126172223
DFTPP Mass 197	623485	198	0	0.0	0 - 1.00	126172223
DFTPP Mass 198	623485	198	357653	100.0	100 - 100	126172223

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DFTPP

Parameter		*RefMass*	*Reading*	*%*	*Limits%*	*File*
DFTPP Mass 199	623485	198	23455	6.6	5.00 - 9.00	126172223
DFTPP Mass 275	623485	198	95360	26.7	10.0 - 30.0	126172223
DFTPP Mass 365	623485	198	18586	5.2	1.00 - 100	126172223
DFTPP Mass 441	623485	443	35104	71.5	0 - 100	126172223
DFTPP Mass 442	623485	198	250037	69.9	40.0 - 100	126172223
DFTPP Mass 443	623485	442	49092	19.6	17.0 - 23.0	126172223
DFTPP Mass 51	623485	198	131210	36.7	30.0 - 60.0	126172223
DFTPP Mass 68	623485	69.0	0	0.0	0 - 2.00	126172223
DFTPP Mass 69	623485	198	206077	57.6	0 - 100	126172223
DFTPP Mass 70	623485	69.0	87	0.0	0 - 2.00	126172223

IS Areas

Parameter	*Sample*	*Type*	*Reading*	*CCVISM*	*Low*	*High*		*File*	*PrepSet*
1,4-Dichlorobenzene-d4-ISTD	623162	CCV	588000	588000	294000	882100		126172224	623162
Acenaphthene-d10-ISTD	623162	CCV	1220000	1220000	610100	1830000		126172224	623162
Naphthalene-d8-ISTD	623162	CCV	2209000	2209000	1104000	3313000		126172224	623162
Phenanthrene-d10-ISTD	623162	CCV	1662000	1662000	830800	2492000		126172224	623162
1,4-Dichlorobenzene-d4-ISTD	1111196	Blank	334200	588000	294000	882100		126172226	1111196
1,4-Dichlorobenzene-d4-ISTD	1111196	LCS	310900	588000	294000	882100		126172227	1111196
1,4-Dichlorobenzene-d4-ISTD	1111196	LCS Dup	327900	588000	294000	882100		126172228	1111196
Acenaphthene-d10-ISTD	1111196	Blank	560200	1220000	610100	1830000	*	126172226	1111196
Acenaphthene-d10-ISTD	1111196	LCS	569400	1220000	610100	1830000	*	126172227	1111196
Acenaphthene-d10-ISTD	1111196	LCS Dup	584000	1220000	610100	1830000	*	126172228	1111196
Naphthalene-d8-ISTD	1111196	Blank	1181000	2209000	1104000	3313000		126172226	1111196
Naphthalene-d8-ISTD	1111196	LCS	1142000	2209000	1104000	3313000		126172227	1111196
Naphthalene-d8-ISTD	1111196	LCS Dup	1203000	2209000	1104000	3313000		126172228	1111196
Phenanthrene-d10-ISTD	1111196	Blank	672600	1662000	830800	2492000	*	126172226	1111196
Phenanthrene-d10-ISTD	1111196	LCS	733000	1662000	830800	2492000	*	126172227	1111196
Phenanthrene-d10-ISTD	1111196	LCS Dup	744500	1662000	830800	2492000	*	126172228	1111196
1,4-Dichlorobenzene-d4-ISTD	2283575	Unknown	316300	588000	294000	882100		126172232	1111196
Acenaphthene-d10-ISTD	2283575	Unknown	541400	1220000	610100	1830000	*	126172232	1111196
Naphthalene-d8-ISTD	2283575	Unknown	1116000	2209000	1104000	3313000		126172232	1111196
Phenanthrene-d10-ISTD	2283575	Unknown	651700	1662000	830800	2492000	*	126172232	1111196

IS RetTime

Parameter	*Sample*	*Type*	*Reading*	*CCVISM*	*Low*	*High*	*File*	*PrepSet*
1,4-Dichlorobenzene-d4-ISTD	623162	CCV	7.200	7.200	7.140	7.260	126172224	623162
Acenaphthene-d10-ISTD	623162	CCV	13.40	13.40	13.34	13.46	126172224	623162
Naphthalene-d8-ISTD	623162	CCV	9.500	9.500	9.440	9.560	126172224	623162
Phenanthrene-d10-ISTD	623162	CCV	16.35	16.35	16.29	16.41	126172224	623162
1,4-Dichlorobenzene-d4-ISTD	1111196	Blank	7.200	7.200	7.140	7.260	126172226	1111196
1,4-Dichlorobenzene-d4-ISTD	1111196	LCS	7.200	7.200	7.140	7.260	126172227	1111196
1,4-Dichlorobenzene-d4-ISTD	1111196	LCS Dup	7.200	7.200	7.140	7.260	126172228	1111196
Acenaphthene-d10-ISTD	1111196	Blank	13.39	13.40	13.34	13.46	126172226	1111196
Acenaphthene-d10-ISTD	1111196	LCS	13.39	13.40	13.34	13.46	126172227	1111196

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IS RetTime

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
Acenaphthene-d10-ISTD	1111196	LCS Dup	13.39	13.40	13.34	13.46	126172228	1111196
Naphthalene-d8-ISTD	1111196	Blank	9.500	9.500	9.440	9.560	126172226	1111196
Naphthalene-d8-ISTD	1111196	LCS	9.500	9.500	9.440	9.560	126172227	1111196
Naphthalene-d8-ISTD	1111196	LCS Dup	9.500	9.500	9.440	9.560	126172228	1111196
Phenanthrene-d10-ISTD	1111196	Blank	16.34	16.35	16.29	16.41	126172226	1111196
Phenanthrene-d10-ISTD	1111196	LCS	16.34	16.35	16.29	16.41	126172227	1111196
Phenanthrene-d10-ISTD	1111196	LCS Dup	16.34	16.35	16.29	16.41	126172228	1111196
1,4-Dichlorobenzene-d4-ISTD	2283575	Unknown	7.200	7.200	7.140	7.260	126172232	1111196
Acenaphthene-d10-ISTD	2283575	Unknown	13.39	13.40	13.34	13.46	126172232	1111196
Naphthalene-d8-ISTD	2283575	Unknown	9.500	9.500	9.440	9.560	126172232	1111196
Phenanthrene-d10-ISTD	2283575	Unknown	16.33	16.35	16.29	16.41	126172232	1111196

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
TCLP 2,4,5-Trichlorophenol	1111196	0.0164	0.0135	0.025	39.3 - 111	65.6	54.0	mg/L	19.4	30.0
TCLP 2,4,6-Trichlorophenol	1111196	0.0197	0.0156	0.025	38.2 - 109	78.8	62.4	mg/L	23.2	30.0
TCLP 2,4-Dinitrotoluene	1111196	0.0159	0.0142	0.025	36.3 - 132	63.6	56.8	mg/L	11.3	30.0
TCLP 2-Methylphenol (o-Cresol)	1111196	0.0158	0.014	0.025	23.0 - 87.8	63.2	56.0	mg/L	12.1	30.0
TCLP 3&4-Methylphenol (m&p-Creso	1111196	0.0117	0.0101	0.025	14.9 - 92.5	46.8	40.4	mg/L	14.7	30.0
TCLP Hexachlorobenzene	1111196	0.0244	0.0216	0.025	44.4 - 117	97.6	86.4	mg/L	12.2	30.0
TCLP Hexachlorobutadiene	1111196	0.0117	0.0107	0.025	17.2 - 88.9	46.8	42.8	mg/L	8.93	30.0
TCLP Hexachloroethane	1111196	0.0122	0.011	0.025	14.6 - 88.8	48.8	44.0	mg/L	10.3	30.0
TCLP Nitrobenzene	1111196	0.019	0.018	0.025	34.3 - 113	76.0	72.0	mg/L	5.41	30.0
TCLP Pentachlorophenol	1111196	0.016	0.0111	0.025	15.7 - 129	64.0	44.4	mg/L	36.2 *	30.0
TCLP Pyridine (Reg. Limit 5)	1111196	0.00838	0.00729	0.025	0.0753 - 83.4	33.5	29.2	mg/L	13.7	30.0

SPCC

Parameter	Sample	RF	Minimum	File
TCLP 2,4-Dinitrophenol	623162	29.5	0.050	126172224
TCLP 4-Nitrophenol	623162	29.3	0.050	126172224
TCLP Hexachlorocyclopentadiene	623162	43.4	0.050	126172224
TCLP N-Nitroso-n-propylamine	623162	55.6	0.050	126172224

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
2,4,6-Tribromophenol	623162	CCV	35.4	100	mg/L	35.4	9.79 - 123	126172224
2-Fluorobiphenyl-SURR	623162	CCV	51.8	50.0	mg/L	104	0.100 - 131	126172224
2-Fluorophenol-SURR	623162	CCV	51.3	100	mg/L	51.3	5.36 - 80.2	126172224
4-Terphenyl-d14-SURR	623162	CCV	63.4	50.0	mg/L	127	0.100 - 137	126172224
Nitrobenzene-d5-SURR	623162	CCV	49.8	50.0	mg/L	99.6	0.100 - 131	126172224
Phenol-d6-SURR	623162	CCV	52.5	100	mg/L	52.5	0.100 - 66.5	126172224
2,4,6-Tribromophenol	1111196	Blank	1.03	3.33	mg/L	30.9	9.79 - 123	126172226
2,4,6-Tribromophenol	1111196	LCS	1.75	3.33	mg/L	52.6	9.79 - 123	126172227
2,4,6-Tribromophenol	1111196	LCS Dup	1.44	3.33	mg/L	43.2	9.79 - 123	126172228
2-Fluorobiphenyl-SURR	1111196	Blank	20.4	50.0	mg/L	40.8	0.100 - 131	126172226
2-Fluorobiphenyl-SURR	1111196	LCS	29.6	50.0	mg/L	59.2	0.100 - 131	126172227

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QUALITY CONTROL

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Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
2-Fluorobiphenyl-SURR	1111196	LCS Dup	27.4	50.0	mg/L	54.8	0.100 - 131	126172228
2-Fluorophenol-SURR	1111196	Blank	33.2	100	mg/L	33.2	5.36 - 80.2	126172226
2-Fluorophenol-SURR	1111196	LCS	40.1	100	mg/L	40.1	5.36 - 80.2	126172227
2-Fluorophenol-SURR	1111196	LCS Dup	37.8	100	mg/L	37.8	5.36 - 80.2	126172228
4-Terphenyl-d14-SURR	1111196	Blank	26.8	50.0	mg/L	53.6	0.100 - 137	126172226
4-Terphenyl-d14-SURR	1111196	LCS	41.1	50.0	mg/L	82.2	0.100 - 137	126172227
4-Terphenyl-d14-SURR	1111196	LCS Dup	34.2	50.0	mg/L	68.4	0.100 - 137	126172228
Nitrobenzene-d5-SURR	1111196	Blank	23.3	50.0	mg/L	46.6	0.100 - 131	126172226
Nitrobenzene-d5-SURR	1111196	LCS	36.2	50.0	mg/L	72.4	0.100 - 131	126172227
Nitrobenzene-d5-SURR	1111196	LCS Dup	33.7	50.0	mg/L	67.4	0.100 - 131	126172228
Phenol-d6-SURR	1111196	Blank	19.2	100	mg/L	19.2	0.100 - 66.5	126172226
Phenol-d6-SURR	1111196	LCS	25.6	100	mg/L	25.6	0.100 - 66.5	126172227
Phenol-d6-SURR	1111196	LCS Dup	24.4	100	mg/L	24.4	0.100 - 66.5	126172228
2,4,6-Tribromophenol	2283575	Unknown	0.374	1.00	mg/L	37.4	9.79 - 123	126172232
2-Fluorobiphenyl-SURR	2283575	Unknown	0.280	0.500	mg/L	56.0	0.100 - 131	126172232
2-Fluorophenol-SURR	2283575	Unknown	0.307	1.00	mg/L	30.7	5.36 - 80.2	126172232
4-Terphenyl-d14-SURR	2283575	Unknown	0.272	0.500	mg/L	54.4	0.100 - 137	126172232
Nitrobenzene-d5-SURR	2283575	Unknown	0.274	0.500	mg/L	54.8	0.100 - 131	126172232
Phenol-d6-SURR	2283575	Unknown	0.205	1.00	mg/L	20.5	0.100 - 66.5	126172232

Analytical Set 1112490 EPA 8260B

BFB

Parameter	Sample	RefMass	Reading	%	Limits%	File
BFB Mass 173	1112490	174	55	0.7	0 - 2.00	126175164
BFB Mass 174	1112490	95.0	8269	55.0	50.0 - 100	126175164
BFB Mass 175	1112490	174	634	7.7	5.00 - 9.00	126175164
BFB Mass 176	1112490	174	7924	95.8	95.0 - 101	126175164
BFB Mass 177	1112490	176	514	6.5	5.00 - 9.00	126175164
BFB Mass 50	1112490	95.0	2401	16.0	15.0 - 40.0	126175164
BFB Mass 75	1112490	95.0	7172	47.7	30.0 - 60.0	126175164
BFB Mass 95	1112490	95.0	15042	100.0	100 - 100	126175164
BFB Mass 96	1112490	95.0	1014	6.7	5.00 - 9.00	126175164

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units		File
TCLP 1,1-Dichloroethene	1112490	ND	0.000574	0.001	mg/L		126175168
TCLP 1,1-Dichloroethene	1112490	ND	0.000574	0.001	mg/L		126175169
TCLP 1,1-Dichloroethene	1112490	ND	0.000574	0.001	mg/L		126175183
TCLP 1,2-Dichloroethane	1112490	ND	0.00059	0.001	mg/L		126175168
TCLP 1,2-Dichloroethane	1112490	ND	0.00059	0.001	mg/L		126175169
TCLP 1,2-Dichloroethane	1112490	ND	0.00059	0.001	mg/L		126175183
TCLP 1,4 Dichlorobenzene	1112490	ND	0.000837	0.001	mg/L		126175168
TCLP 1,4 Dichlorobenzene	1112490	0.00619	0.000837	0.001	mg/L	*	126175169
TCLP 1,4 Dichlorobenzene	1112490	ND	0.000837	0.001	mg/L		126175183
TCLP Benzene	1112490	ND	0.000453	0.001	mg/L		126175168

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Parameter	PrepSet	Reading	MDL	MQL	Units		File
TCLP Benzene	1112490	ND	0.000453	0.001	mg/L		126175169
TCLP Benzene	1112490	0.00121	0.000453	0.001	mg/L	*	126175183
TCLP Carbon tetrachloride	1112490	ND	0.000299	0.001	mg/L		126175168
TCLP Carbon tetrachloride	1112490	ND	0.000299	0.001	mg/L		126175169
TCLP Carbon tetrachloride	1112490	ND	0.000299	0.001	mg/L		126175183
TCLP Chlorobenzene	1112490	ND	0.000558	0.001	mg/L		126175168
TCLP Chlorobenzene	1112490	ND	0.000558	0.001	mg/L		126175169
TCLP Chlorobenzene	1112490	ND	0.000558	0.001	mg/L		126175183
TCLP Chloroform	1112490	ND	0.000463	0.001	mg/L		126175168
TCLP Chloroform	1112490	ND	0.000463	0.001	mg/L		126175169
TCLP Chloroform	1112490	ND	0.000463	0.001	mg/L		126175183
TCLP MEK	1112490	ND	0.000742	0.001	mg/L		126175168
TCLP MEK	1112490	ND	0.000742	0.001	mg/L		126175169
TCLP MEK	1112490	ND	0.000742	0.001	mg/L		126175183
TCLP Tetrachloroethylene	1112490	ND	0.000607	0.001	mg/L		126175168
TCLP Tetrachloroethylene	1112490	ND	0.000607	0.001	mg/L		126175169
TCLP Tetrachloroethylene	1112490	ND	0.000607	0.001	mg/L		126175183
TCLP Trichloroethylene	1112490	ND	0.000521	0.001	mg/L		126175168
TCLP Trichloroethylene	1112490	ND	0.000521	0.001	mg/L		126175169
TCLP Trichloroethylene	1112490	ND	0.000521	0.001	mg/L		126175183
TCLP Vinyl chloride	1112490	ND	0.000702	0.001	mg/L		126175168
TCLP Vinyl chloride	1112490	ND	0.000702	0.001	mg/L		126175169
TCLP Vinyl chloride	1112490	ND	0.000702	0.001	mg/L		126175183

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP 1,1-Dichloroethene	0.0205	0.020	mg/L	102	70.0 - 130	126175165
TCLP 1,2-Dichloroethane	0.0191	0.020	mg/L	95.5	70.0 - 130	126175165
TCLP 1,4 Dichlorobenzene	0.0175	0.020	mg/L	87.5	70.0 - 130	126175165
TCLP Benzene	0.0204	0.020	mg/L	102	70.0 - 130	126175165
TCLP Carbon tetrachloride	0.0202	0.020	mg/L	101	70.0 - 130	126175165
TCLP Chlorobenzene	0.0197	0.020	mg/L	98.5	70.0 - 130	126175165
TCLP Chloroform	0.0205	0.020	mg/L	102	70.0 - 130	126175165
TCLP MEK	0.023	0.020	mg/L	115	70.0 - 130	126175165
TCLP Tetrachloroethylene	0.0182	0.020	mg/L	91.0	70.0 - 130	126175165
TCLP Trichloroethylene	0.0194	0.020	mg/L	97.0	70.0 - 130	126175165
TCLP Vinyl chloride	0.0172	0.020	mg/L	86.0	70.0 - 130	126175165

IS Areas

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
1,4-DichlorobenzeneD4 (ISTD)	1112490	CCV	75620	75620	52940	98310	126175165	1112490
1,4-DichlorobenzeneD4 (ISTD)	1112490	LCS	71250	75620	52940	98310	126175166	1112490
1,4-DichlorobenzeneD4 (ISTD)	1112490	LCS Dup	70340	75620	52940	98310	126175167	1112490
1,4-DichlorobenzeneD4 (ISTD)	1112490	Blank	70150	75620	52940	98310	126175168	1112490
1,4-DichlorobenzeneD4 (ISTD)	1112490	Blank	62620	75620	52940	98310	126175169	1112490

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QUALITY CONTROL

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IS Areas

Parameter	Sample	Type	Reading	CCVISM	Low	High		File	PrepSet
1,4-DichlorobenzeneD4 (ISTD)	1112490	Blank	56410	75620	52940	98310		126175183	1112490
ChlorobenzeneD5 (ISTD)	1112490	CCV	158400	158400	110900	205900		126175165	1112490
ChlorobenzeneD5 (ISTD)	1112490	LCS	153400	158400	110900	205900		126175166	1112490
ChlorobenzeneD5 (ISTD)	1112490	LCS Dup	148000	158400	110900	205900		126175167	1112490
ChlorobenzeneD5 (ISTD)	1112490	Blank	148800	158400	110900	205900		126175168	1112490
ChlorobenzeneD5 (ISTD)	1112490	Blank	135700	158400	110900	205900		126175169	1112490
ChlorobenzeneD5 (ISTD)	1112490	Blank	122700	158400	110900	205900		126175183	1112490
1,4-DichlorobenzeneD4 (ISTD)	2283305	MS	57810	75620	52940	98310		126175180	1111512
1,4-DichlorobenzeneD4 (ISTD)	2283305	MSD	52240	75620	52940	98310	*	126175181	1111512
ChlorobenzeneD5 (ISTD)	2283305	MS	120600	158400	110900	205900		126175180	1111512
ChlorobenzeneD5 (ISTD)	2283305	MSD	111800	158400	110900	205900		126175181	1111512

IS RetTime

Parameter	Sample	Type	Reading	CCVISM	Low	High		File	PrepSet
1,4-DichlorobenzeneD4 (ISTD)	1112490	LCS	11.97	11.97	11.91	12.03		126175166	1112490
1,4-DichlorobenzeneD4 (ISTD)	1112490	LCS Dup	11.97	11.97	11.91	12.03		126175167	1112490
1,4-DichlorobenzeneD4 (ISTD)	1112490	Blank	11.97	11.97	11.91	12.03		126175168	1112490
1,4-DichlorobenzeneD4 (ISTD)	1112490	Blank	11.97	11.97	11.91	12.03		126175169	1112490
1,4-DichlorobenzeneD4 (ISTD)	1112490	Blank	11.96	11.97	11.91	12.03		126175183	1112490
ChlorobenzeneD5 (ISTD)	1112490	LCS	9.597	9.597	9.537	9.657		126175166	1112490
ChlorobenzeneD5 (ISTD)	1112490	LCS Dup	9.597	9.597	9.537	9.657		126175167	1112490
ChlorobenzeneD5 (ISTD)	1112490	Blank	9.597	9.597	9.537	9.657		126175168	1112490
ChlorobenzeneD5 (ISTD)	1112490	Blank	9.597	9.597	9.537	9.657		126175169	1112490
ChlorobenzeneD5 (ISTD)	1112490	Blank	9.591	9.597	9.537	9.657		126175183	1112490
1,4-DichlorobenzeneD4 (ISTD)	2283305	MS	11.96	11.97	11.91	12.03		126175180	1111512
1,4-DichlorobenzeneD4 (ISTD)	2283305	MSD	11.96	11.97	11.91	12.03		126175181	1111512
ChlorobenzeneD5 (ISTD)	2283305	MS	9.597	9.597	9.537	9.657		126175180	1111512
ChlorobenzeneD5 (ISTD)	2283305	MSD	9.597	9.597	9.537	9.657		126175181	1111512

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
TCLP 1,1-Dichloroethene	1112490	0.0206	0.0208	0.020	56.7 - 135	103	104	mg/L	0.966	30.0
TCLP 1,2-Dichloroethane	1112490	0.020	0.0201	0.020	69.8 - 132	100	100	mg/L	0	30.0
TCLP 1,4 Dichlorobenzene	1112490	0.0203	0.0196	0.020	74.8 - 116	102	98.0	mg/L	4.00	30.0
TCLP Benzene	1112490	0.0221	0.0218	0.020	67.1 - 123	110	109	mg/L	0.913	30.0
TCLP Carbon tetrachloride	1112490	0.0212	0.0208	0.020	60.1 - 132	106	104	mg/L	1.90	30.0
TCLP Chlorobenzene	1112490	0.0222	0.0219	0.020	74.0 - 115	111	110	mg/L	0.905	30.0
TCLP Chloroform	1112490	0.0218	0.0222	0.020	71.1 - 128	109	111	mg/L	1.82	30.0
TCLP MEK	1112490	0.0223	0.0237	0.020	40.7 - 166	112	118	mg/L	5.22	30.0
TCLP Tetrachloroethylene	1112490	0.0188	0.0192	0.020	71.2 - 126	94.0	96.0	mg/L	2.11	30.0
TCLP Trichloroethylene	1112490	0.021	0.0209	0.020	71.4 - 126	105	104	mg/L	0.957	30.0
TCLP Vinyl chloride	1112490	0.0149	0.0139	0.020	18.5 - 155	74.5	69.5	mg/L	6.94	30.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
TCLP 1,1-Dichloroethene	2283305	0.186	0.188	0.0074	0.200	0.100 - 168	89.3	90.3	mg/L	1.11	30.0

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MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
TCLP 1,2-Dichloroethane	2283305	0.196	0.210	0.0074	0.200	48.4 - 134	94.3	101	mg/L	7.16	30.0
TCLP 1,4 Dichlorobenzene	2283305	0.174	0.188	0.0074	0.200	45.4 - 121	83.3	90.3	mg/L	8.06	30.0
TCLP Benzene	2283305	0.200	0.212	0.0074	0.200	5.00 - 119	96.3	102	mg/L	6.04	30.0
TCLP Carbon tetrachloride	2283305	0.209	0.214	0.0074	0.200	0.100 - 164	101	103	mg/L	2.45	30.0
TCLP Chlorobenzene	2283305	0.193	0.201	0.0074	0.200	32.5 - 130	92.8	96.8	mg/L	4.22	30.0
TCLP Chloroform	2283305	0.210	0.221	0.0074	0.200	22.1 - 141	101	107	mg/L	5.29	30.0
TCLP MEK	2283305	0.224	0.239	0.0074	0.200	9.88 - 197	108	116	mg/L	6.69	30.0
TCLP Tetrachloroethylene	2283305	0.160	0.175	0.0074	0.200	0.100 - 157	76.3	83.8	mg/L	9.37	30.0
TCLP Trichloroethylene	2283305	0.184	0.192	0.0074	0.200	0.100 - 161	88.3	92.3	mg/L	4.43	30.0
TCLP Vinyl chloride	2283305	0.137	0.140	0.0074	0.200	0.100 - 197	64.8	66.3	mg/L	2.29	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
1,2-DCA-d4 (SURR)	1112490	CCV	0.0164	0.020	mg/L	82.0	74.2 - 132	126175165
1,2-DCA-d4 (SURR)	1112490	LCS	0.0163	0.020	mg/L	81.5	74.2 - 132	126175166
1,2-DCA-d4 (SURR)	1112490	LCS Dup	0.0164	0.020	mg/L	82.0	74.2 - 132	126175167
1,2-DCA-d4 (SURR)	1112490	Blank	0.0166	0.020	mg/L	83.0	74.2 - 132	126175168
1,2-DCA-d4 (SURR)	1112490	Blank	0.0166	0.020	mg/L	83.0	74.2 - 132	126175169
1,2-DCA-d4 (SURR)	1112490	Blank	0.0172	0.020	mg/L	86.0	74.2 - 132	126175183
Bromofluorobenzene (SURR)	1112490	CCV	0.0201	0.020	mg/L	100	77.2 - 134	126175165
Bromofluorobenzene (SURR)	1112490	LCS	0.0204	0.020	mg/L	102	77.2 - 134	126175166
Bromofluorobenzene (SURR)	1112490	LCS Dup	0.020	0.020	mg/L	100	77.2 - 134	126175167
Bromofluorobenzene (SURR)	1112490	Blank	0.0198	0.020	mg/L	99.0	77.2 - 134	126175168
Bromofluorobenzene (SURR)	1112490	Blank	0.0206	0.020	mg/L	103	77.2 - 134	126175169
Bromofluorobenzene (SURR)	1112490	Blank	0.0213	0.020	mg/L	106	77.2 - 134	126175183
Dibromofluoromethane (SURR)	1112490	CCV	0.018	0.020	mg/L	90.0	67.2 - 122	126175165
Dibromofluoromethane (SURR)	1112490	LCS	0.0186	0.020	mg/L	93.0	67.2 - 122	126175166
Dibromofluoromethane (SURR)	1112490	LCS Dup	0.0183	0.020	mg/L	91.5	67.2 - 122	126175167
Dibromofluoromethane (SURR)	1112490	Blank	0.0183	0.020	mg/L	91.5	67.2 - 122	126175168
Dibromofluoromethane (SURR)	1112490	Blank	0.0184	0.020	mg/L	92.0	67.2 - 122	126175169
Dibromofluoromethane (SURR)	1112490	Blank	0.0182	0.020	mg/L	91.0	67.2 - 122	126175183
ToluneneD8 (SURR)	1112490	CCV	0.0185	0.020	mg/L	92.5	69.2 - 122	126175165
ToluneneD8 (SURR)	1112490	LCS	0.0184	0.020	mg/L	92.0	69.2 - 122	126175166
ToluneneD8 (SURR)	1112490	LCS Dup	0.0182	0.020	mg/L	91.0	69.2 - 122	126175167
ToluneneD8 (SURR)	1112490	Blank	0.0183	0.020	mg/L	91.5	69.2 - 122	126175168
ToluneneD8 (SURR)	1112490	Blank	0.0183	0.020	mg/L	91.5	69.2 - 122	126175169
ToluneneD8 (SURR)	1112490	Blank	0.0183	0.020	mg/L	91.5	69.2 - 122	126175183
1,2-DCA-d4 (SURR)	2283305	MS	0.018	0.020	mg/L	90.0	74.2 - 132	126175180
1,2-DCA-d4 (SURR)	2283305	MSD	0.0188	0.020	mg/L	94.0	74.2 - 132	126175181
Bromofluorobenzene (SURR)	2283305	MS	0.0203	0.020	mg/L	102	77.2 - 134	126175180
Bromofluorobenzene (SURR)	2283305	MSD	0.0208	0.020	mg/L	104	77.2 - 134	126175181
Dibromofluoromethane (SURR)	2283305	MS	0.0189	0.020	mg/L	94.5	67.2 - 122	126175180
Dibromofluoromethane (SURR)	2283305	MSD	0.0191	0.020	mg/L	95.5	67.2 - 122	126175181
ToluneneD8 (SURR)	2283305	MS	0.0185	0.020	mg/L	92.5	69.2 - 122	126175180
ToluneneD8 (SURR)	2283305	MSD	0.0185	0.020	mg/L	92.5	69.2 - 122	126175181

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Surrogate

Parameter	*Sample*	*Type*	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
1,2-DCA-d4 (SURR)	2283575	Unknown	0.0173	0.020	mg/L	86.5	74.2 - 132	126175173
Bromofluorobenzene (SURR)	2283575	Unknown	0.0209	0.020	mg/L	104	77.2 - 134	126175173
Dibromofluoromethane (SURR)	2283575	Unknown	0.0183	0.020	mg/L	91.5	67.2 - 122	126175173
ToluneneD8 (SURR)	2283575	Unknown	0.0184	0.020	mg/L	92.0	69.2 - 122	126175173

Analytical Set 1112619 EPA 8081A

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
TCLP Chlordane	1111022	ND	0.0000001	0.001	mg/L	126178334
TCLP Endrin	1111022	ND	0.000756	0.001	mg/L	126178334
TCLP gamma-BHC (Lindane)	1111022	ND	0.0008	0.001	mg/L	126178334
TCLP Heptachlor	1111022	ND	0.00072	0.001	mg/L	126178334
TCLP Heptachlor Epoxide	1111022	ND	0.00104	0.00104	mg/L	126178334
TCLP Methoxychlor	1111022	ND	0.00104	0.00104	mg/L	126178334
TCLP Toxaphene	1111022	ND	0.0000037	0.001	mg/L	126178334
TCLP Chlordane	1111756	ND	0.0000001	0.001	mg/L	126178331
TCLP Endrin	1111756	ND	0.000756	0.001	mg/L	126178331
TCLP gamma-BHC (Lindane)	1111756	ND	0.0008	0.001	mg/L	126178331
TCLP Heptachlor	1111756	ND	0.00072	0.001	mg/L	126178331
TCLP Heptachlor Epoxide	1111756	ND	0.00104	0.00104	mg/L	126178331
TCLP Methoxychlor	1111756	ND	0.00104	0.00104	mg/L	126178331
TCLP Toxaphene	1111756	ND	0.0000037	0.001	mg/L	126178331

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
TCLP Endrin	0.0511	0.050	mg/L	102	70.0 - 130	126178317
TCLP Endrin	0.0603	0.050	mg/L	121	70.0 - 130	126178330
TCLP Endrin	0.0542	0.050	mg/L	108	70.0 - 130	126181274
TCLP gamma-BHC (Lindane)	0.0486	0.050	mg/L	97.3	70.0 - 130	126178317
TCLP gamma-BHC (Lindane)	0.0575	0.050	mg/L	115	70.0 - 130	126178330
TCLP gamma-BHC (Lindane)	0.0619	0.050	mg/L	124	70.0 - 130	126181274
TCLP Heptachlor	0.0496	0.050	mg/L	99.2	70.0 - 130	126178317
TCLP Heptachlor	0.0569	0.050	mg/L	114	70.0 - 130	126178330
TCLP Heptachlor	0.0583	0.050	mg/L	117	70.0 - 130	126181274
TCLP Heptachlor Epoxide	0.0495	0.050	mg/L	99.0	70.0 - 130	126178317
TCLP Heptachlor Epoxide	0.0573	0.050	mg/L	115	70.0 - 130	126178330
TCLP Heptachlor Epoxide	0.0626	0.050	mg/L	125	70.0 - 130	126181274
TCLP Methoxychlor	0.0499	0.050	mg/L	99.7	70.0 - 130	126178317
TCLP Methoxychlor	0.0564	0.050	mg/L	113	70.0 - 130	126178330
TCLP Methoxychlor	0.0637	0.050	mg/L	127	70.0 - 130	126181274

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
TCLP Endrin	1111756	0.0338	0.0436	0.050	42.6 - 137	67.6	87.2	mg/L	25.3	30.0
TCLP gamma-BHC (Lindane)	1111756	0.0336	0.040	0.050	33.0 - 129	67.2	80.0	mg/L	17.4	30.0

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LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
TCLP Heptachlor	1111756	0.0291	0.034	0.050	24.2 - 129	58.2	68.0	mg/L	15.5	30.0
TCLP Heptachlor Epoxide	1111756	0.0332	0.0414	0.050	40.8 - 128	66.4	82.8	mg/L	22.0	30.0
TCLP Methoxychlor	1111756	0.0284	0.0387	0.050	33.3 - 146	56.8	77.4	mg/L	30.7 *	30.0

MS

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
TCLP Endrin	2283305	0.0022	0	ND	0.005	24.3 - 151	44.0		mg/L		30.0
TCLP gamma-BHC (Lindane)	2283305	0.0021	0	ND	0.005	21.3 - 144	42.0		mg/L		30.0
TCLP Heptachlor	2283305	0.00204	0	ND	0.005	14.9 - 138	40.8		mg/L		30.0
TCLP Heptachlor Epoxide	2283305	0.00212	0	ND	0.005	29.9 - 133	42.4		mg/L		30.0
TCLP Methoxychlor	2283305	0	0	ND	0.005	10.3 - 183	0		mg/L		30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Decachlorobiphenyl	623803	CCV	0.045	0.100	mg/L	45.0	10.0 - 150	126178317
Decachlorobiphenyl	623803	CCV	0.0544	0.100	mg/L	54.4	10.0 - 150	126178330
Decachlorobiphenyl	623803	CCV	0.0609	0.100	mg/L	60.9	10.0 - 150	126181274
Tetrachloro-m-Xylene (Surr)	623803	CCV	0.0455	0.100	mg/L	45.5	10.0 - 150	126178317
Tetrachloro-m-Xylene (Surr)	623803	CCV	0.0519	0.100	mg/L	51.9	10.0 - 150	126178330
Tetrachloro-m-Xylene (Surr)	623803	CCV	0.0562	0.100	mg/L	56.2	10.0 - 150	126181274
Decachlorobiphenyl	1111022	Blank	0.0777	0.100	mg/L	77.7	10.0 - 150	126178334
Tetrachloro-m-Xylene (Surr)	1111022	Blank	0.0462	0.100	mg/L	46.2	10.0 - 150	126178334
Decachlorobiphenyl	1111756	Blank	0.0495	0.100	mg/L	49.5	10.0 - 150	126178331
Decachlorobiphenyl	1111756	LCS	0.0432	0.100	mg/L	43.2	10.0 - 150	126178332
Decachlorobiphenyl	1111756	LCS Dup	0.0608	0.100	mg/L	60.8	10.0 - 150	126178333
Tetrachloro-m-Xylene (Surr)	1111756	Blank	0.032	0.100	mg/L	32.0	10.0 - 150	126178331
Tetrachloro-m-Xylene (Surr)	1111756	LCS	0.0264	0.100	mg/L	26.4	10.0 - 150	126178332
Tetrachloro-m-Xylene (Surr)	1111756	LCS Dup	0.0286	0.100	mg/L	28.6	10.0 - 150	126178333
Decachlorobiphenyl	2283305	MS	0.00309	0.005	mg/L	61.8	10.0 - 150	126179829
Tetrachloro-m-Xylene (Surr)	2283305	MS	0.00191	0.005	mg/L	38.2	10.0 - 150	126179829
Decachlorobiphenyl	2283575	Unknown	0.00337	0.005	mg/L	67.4	10.0 - 150	126179832
Tetrachloro-m-Xylene (Surr)	2283575	Unknown	0.00262	0.005	mg/L	52.4	10.0 - 150	126179832

* Out RPD is Relative Percent Difference: abs(r1-r2) / mean(r1,r2) * 100% Recover% is Recovery Percent: result / known * 100%

Blank - Method Blank (reagent water or other blank matrices that contains all reagents except standard(s) and is processed simultaneously with and under the same conditions as samples; carried through preparation and analytical procedures exactly like a sample; monitors); CCV - Continuing Calibration Verification (same standard used to prepare the curve; typically a mid-range concentration; verifies the continued validity of the calibration curve); MSD - Matrix Spike Duplicate (replicate of the matrix spike; same solution and amount of target analyte added to the MS is added to a third aliquot of sample; quantifies matrix bias and precision.); ICV - Initial Calibration Verification; LCS Dup - Laboratory Control Sample Duplicate (replicate LCS; analyzed when there is insufficient sample for duplicate or MSD; quantifies accuracy and precision.); Surrogate - Surrogate (mimics the analyte of interest but is unlikely to be found in environmental samples; added to analytical samples for QC purposes. **ANSI/ASQC E4 1994 Ref #4 TRADE QA Resources Guide.); LDR - Linear Dynamic Range Standard; MS - Matrix Spike (same solution and amount of target analyte added to the LCS is added to a second aliquot of sample; quantifies matrix bias.); DFTPP - GC/MS Tuning Compound; IS Areas - Internal Standard Area (The area of the internal stadard relative to a check standard. Internal Standard is a known concentration of an analyte(s) that is not a sample component or standard that is added to the sample and standard and is used to measure the relative responses of other analytes in the same sample or standard.); IS RetTime - Internal Standard Retention Time (the time the internal standard comes off the column. Internal Stardard is a known concentration of an analyte(s) that is not a sample component or standard that is added to the sample and standard and is used to measure the relative responses of other analytes in the same sample or standard.); BFB - Bromofluorobenzene, GC/MS Tuning Compound (mass intensity used as tuning acceptance criteria.)

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ANA-LAB CORP. THE COMPLETE SERVICE LAB

Chain of Custody

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Phone (903) 984-0551 · Fax (903) 984-5914 · Email: corp@ana-lab.com

Abilene 325.669.2422 | ArkLaMiss 318.219.9300 | Central TX 512.821.0045 | Gulf Coast 281.333.9414 | New Orleans 504.330.0021 | North TX 817.261.6404 | Oklahoma 405.292.6630 | Panhandle 806.355.3556 | Rio Grande Valley 956.831.6437

Client Code: DETX

Page 1 of 1

Report to: Tony Castillo
Company name: Denali Water
Client Code: DETX
Address: 3308 Bernice Ave
City: Russellville State: AR Zip: 72802
Phone: 956 483 0029 Fax: E-mail:
Sampler Signature: T Castillo Printed Name: Tony Castillo Affiliation: Mgr Env Svcs

Project- Name/Location: Rio Hondo WWTP
Billing (if different):
City State Zip
Phone Fax
PO Number

□Wastewater □ Drinking Water □SW846
Analysis Requested

Lab Number Do Not Use	Field Identification	Date	Time	Matrix	# of Containers		Comments	See PST	R-114							
2203529	Rio Hondo WWTP	3/21/24	1100	Solid	1	Comp/Grab		✓								
						Comp/Grab										
						Comp/Grab										
						Comp/Grab										
						Comp/Grab										
						Comp/Grab										
						Comp/Grab										
						Comp/Grab										
						Comp/Grab										
						Comp/Grab										

Date	Time	Relinquished by: Printed Name	Signature	Affiliation	Received by: Printed Name	Signature	Affiliation
3/21/24	15:20	Tony Castillo	T Castillo	Mgr Env. Svcs	R DE LEON	R DE LEON	SPL
3/21/24	17:30	R DE LEON	R DE LEON	SPL			
3/22	1030				McCabe	FedEx	McCabe Wheeler SPL, Inc.

Samples Received on Ice? ☑Yes □No Method of Shipment: □FedEx □LoneStar □UPS □Hand Delivered □DHL □Clemens □Other FedEx

Cooler/Sample Secure? ☑Yes □No Requested TAT: □Routine □3-Day □2-Day □Next Day Samples Contain: □HF □Cyanide □Sulfide

Tracking or Shipping Number

Ana-Lab Personnel collect samples as specified by Ana-Lab SOP #000323.

Comments:

tony.castillo@denaliwater.com

2/2
Rio Hondo WWTP
3/21/24
R-114

TCEQ ANALYTICAL REQUIREMENTS - WWTP SLUDGE

NUTRIENTS AND TOTAL METALS	REPORT AS
TKN	% dry weight
NH4-N	% dry weight
NO3-N	% dry weight
P	% dry weight
K	% dry weight
As	mg/kg dry weight
Cd	mg/kg dry weight
Cr	mg/kg dry weight
Cu	mg/kg dry weight
Pb	mg/kg dry weight
Hg	mg/kg dry weight
Mo	mg/kg dry weight
Ni	mg/kg dry weight
Se	mg/kg dry weight
Zn	mg/kg dry weight
PCBs	mg/kg dry weight
TCLP	full TCLP, including VOCs, Pesticides, Herbicides

ORIGIN ID:HRLA (555) 555-5555
ANA LAB / RGV
2401 VILLAGE DR STE C
BROWNSVILLE, TX 78521
UNITED STATES US

SHIP DATE: 21MAR24
ACTWGT: 88.20 LB
CAD: 6994257/SSFE2500
DIMS: 124x14x13 IN
BILL THIRD PARTY

TO LOGIN
SPL
2600 DUDLEY RD

KILGORE TX 75662
(555) 555-5555
INV:
PO:
REF:
DEPT:

Part # 156297-435 RRDB EXP 12/24

FedEx Express

3/22 1034 CT
Date Time Tech
Temp: 1.2/1.2 C
Therm#: 7242 Corr Fact: 0.0 C

2 of 2
MPS# 0681 2724 7240 1219
Mstr# 8171 3101 6590
0200
XS GGGA

FRI - 22 MAR 10:30A
PRIORITY OVERNIGHT
AHS
75662
TX-US SHV

2600 Dudley Rd. Kilgore, Texas 75662
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Project
1085420

DETX-R

Denali Water
Tony Castillo
15308 Bass 3 Lane
Harlingen, TX 78552

Printed 01/09/2024 16:38

TABLE OF CONTENTS

SAN BENITO WTP 2

This report consists of this Table of Contents and the following pages:

Email: Kilgore.projectmanager@spl-inc.com

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

SAMPLE CROSS REFERENCE

Project
1085420

Printed 1/9/2024

SAN BENITO WTP 2

Denali Water
Tony Castillo
15308 Bass 3 Lane
Harlingen, TX 78552

Sample	Sample ID	Taken	Time	Received
2258852	*SAN BENITO WTP 2*	12/20/2023	12:45:00	12/22/2023

Bottle 01 Glass Qt w/Teflon lined lid
Bottle 02 Prepared Bottle: TCLP Extract for TVOA (Batch 1096858)<== Derived from 01 (0 ml)
Bottle 03 Prepared Bottle: TEDLAR BAG (Batch 1096858) Volume: 300.00000 mL <== Derived from 01 (300 ml)
Bottle 04 Prepared Bottle: TCLP Extract (Batch 1096859) Volume: 2000.00000 mL <== Derived from 01 (100 ml)
Bottle 05 Prepared Bottle: TCLP Extract for Metals (Batch 1096859) Volume: 100.00000 mL <== Derived from 01 (300 ml)
Bottle 06 Prepared Bottle: TCLP Extract for TABN (Batch 1096859) Volume: 2000.00000 mL <== Derived from 01 (100 ml)
Bottle 07 Prepared Bottle: NH3N TRAACS Autosampler Vial (Batch 1096819) Volume: 6.00000 mL <== Derived from 01 (1.0 grams)
Bottle 08 Prepared Bottle: 2 mL Autosampler Vial (Batch 1097026) Volume: 1.00000 mL <== Derived from 06 (100 ml)
Bottle 09 Prepared Bottle: 2 mL Autosampler Vial (Batch 1097168) Volume: 10.00000 mL <== Derived from 06 (1 ml)
Bottle 10 Prepared Bottle: TG80 2 mL Autosampler Vial (Batch 1097169) Volume: 10.00000 mL <== Derived from 06 (200 ml)
Bottle 11 Prepared Bottle: 2 mL Glass vial (Batch 1097220) Volume: 50.00000 mL <== Derived from 01 (5 grams)
Bottle 12 Prepared Bottle: TCLP Acid Mercury Digestion (Batch 1097330) Volume: 50.00000 mL <== Derived from 05 (2.5 ml)
Bottle 13 Prepared Bottle: ICP Preparation for Metals (Batch 1097322) Volume: 50.00000 mL <== Derived from 01 (2.3 grams)
Bottle 14 Prepared Bottle: TCLP Acid Digestion (Batch 1097405) Volume: 50.00000 mL <== Derived from 05 (10 ml)
Bottle 15 Prepared Bottle: PCBS 2 mL Autosampler Vial (Batch 1097678) Volume: 10.00000 mL <== Derived from 01 (2.0 grams)
Bottle 16 Prepared Bottle: Mercury Preparation for Metals (Batch 1097757) Volume: 50.00000 mL <== Derived from 01 (0.5 grams)
Bottle 17 Prepared Bottle: TKN TRAACS Autosampler Vial (Batch 1097873) Volume: 20.00000 mL <== Derived from 01 (1.0 grams)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 8082	15	1097678	01/03/2024	1098144	01/04/2024
EPA 9056	11	1097220	12/29/2023	1097401	12/29/2023
EPA 6020A	14	1097405	01/02/2024	1098034	01/05/2024
EPA 6010C	13	1097322	01/02/2024	1098083	01/03/2024
EPA 6020A	14	1097405	01/02/2024	1098232	01/05/2024
EPA 7470 A	12	1097330	01/02/2024	1097650	01/03/2024
EPA 7471B 2	16	1097757	01/04/2024	1097885	01/04/2024
Calculation			01/03/2024		01/03/2024
EPA 6010C	13	1097322	01/02/2024	1097593	01/03/2024
EPA 6010C	13	1097322	01/02/2024	1097552	01/03/2024
EPA 6020A	14	1097405	01/02/2024	1098445	01/08/2024
EPA 350.1 2	07	1096819	12/27/2023	1097853	01/04/2024
EPA 8260B	03	1096858	12/27/2023	1097586	01/02/2024
EPA 8081A	10	1097169	12/29/2023	1097899	01/02/2024
EPA 8270C	08	1097026	12/28/2023	1098289	01/06/2024
EPA 8151	09	1097168	12/28/2023	1097566	01/03/2024
EPA 351.2 2	17	1097873	01/04/2024	1098345	01/08/2024
EPA 351.2, Rev 2.0			01/08/2024		01/08/2024
SM2540 G-1997 /MOD	01	1097837	01/03/2024	1097837	01/03/2024

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Denali Water
Tony Castillo
15308 Bass 3 Lane
Harlingen, TX 78552

Project
1085420

Printed: 01/09/2024

SAN BENITO WTP 2

RESULTS

Sample Results

2258852 SAN BENITO WTP 2 — *Received:* 12/22/2023

Solid & Chemical Materials — *Collected by:* Client — Denali Water — *PO:*
Taken: 12/20/2023 12:45:00

Calculation — *Prepared:* 01/02/2024 18:19:34 — *Calculated* 01/02/2024 18:19:34 — CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Nitrate Nitrogen Percent	<0.000324 *	%	0.000324			

Calculation — *Prepared:* 01/03/2024 14:02:42 — *Calculated* 01/03/2024 14:02:42 — CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Phosphorus as Percent	0.0951 *	%	0.00315		7723-14-0	
z	Potassium as percent	0.367 *	%	0.0158		7440-09-7	

Calculation — *Prepared:* 01/04/2024 14:42:43 — *Calculated* 01/04/2024 14:42:43 — CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Ammonium Nitrogen	153 *	mg/kg	4.47			

Calculation — *Prepared:* 01/04/2024 15:01:46 — *Calculated* 01/04/2024 15:01:46 — CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Ammonium Nitrogen Percent	0.0153 *	%	0.000447			

* Dry Weight Basis

EPA 350.1 2 — *Prepared:* 1096819 12/27/2023 14:19:44 — *Analyzed* 1097853 01/04/2024 10:17:00 — AMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Ammonia Nitrogen	119 *	mg/kg	3.50			07

* Dry Weight Basis

EPA 351.2 2 — *Prepared:* 1097873 01/04/2024 13:51:13 — *Analyzed* 1098345 01/08/2024 09:23:00 — AMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Total Kjeldahl Nitrogen	7130 *	mg/kg	144		7727-37-9	17

* Dry Weight Basis

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Denali Water
Tony Castillo
15308 Bass 3 Lane
Harlingen, TX 78552

Printed: 01/09/2024

2258852 SAN BENITO WTP 2 — Received: 12/22/2023

Solid & Chemical Materials — Collected by: Client — Denali Water — PO:
Taken: 12/20/2023 12:45:00

EPA 351.2, Rev 2.0 — Prepared: 01/08/2024 15:31:57 — Calculated 01/08/2024 15:31:57 — CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Kjeldahl Nitrogen	0.713 *	%	0.0144			

* Dry Weight Basis

EPA 6010C — Prepared: 1097322 01/02/2024 11:00:00 — Analyzed 1097552 01/03/2024 08:43:00 — KB1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Phosphorus	951 *	mg/kg	31.5		7723-14-0	13

EPA 6010C — Prepared: 1097322 01/02/2024 11:00:00 — Analyzed 1098083 01/03/2024 08:58:00 — KB1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Arsenic	20.7 *	mg/kg	15.8		7440-38-2	13
NELAC	Cadmium	<7.88 *	mg/kg	7.88		7440-43-9	13
NELAC	Chromium	<15.8 *	mg/kg	15.8		7440-47-3	13
NELAC	Copper	234 *	mg/kg	7.88		7440-50-8	13
NELAC	Lead	<15.8 *	mg/kg	15.8		7439-92-1	13
NELAC	Molybdenum	<7.88 *	mg/kg	7.88		7439-98-7	13
NELAC	Nickel	8.54 *	mg/kg	7.88		7440-02-0	13
NELAC	Potassium	3670 *	mg/kg	158		7440-09-7	13
NELAC	Selenium	<15.8 *	mg/kg	15.8		7782-49-2	13
NELAC	Zinc	43.0 *	mg/kg	15.8		7440-66-6	13

* Dry Weight Basis

EPA 6020A — Prepared: 1097405 01/02/2024 12:15:00 — Analyzed 1098034 01/05/2024 07:50:00 — JC2

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP Arsenic	<0.050	mg/L	0.050		7440-38-2	14
NELAC	TCLP Cadmium	<0.005	mg/L	0.005		7440-43-9	14
NELAC	TCLP Chromium	<0.050	mg/L	0.050		7440-47-3	14
NELAC	TCLP Selenium	<0.050	mg/L	0.050		7782-49-2	14
NELAC	TCLP Silver	<0.050	mg/L	0.050		7440-22-4	14

EPA 6020A — Prepared: 1097405 01/02/2024 12:15:00 — Analyzed 1098232 01/05/2024 18:27:00 — HLT

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP Barium	0.617	mg/L	0.050		7440-39-3	14

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Denali Water
Tony Castillo
15308 Bass 3 Lane
Harlingen, TX 78552

Printed: 01/09/2024

2258852 SAN BENITO WTP 2 — Received: 12/22/2023

Solid & Chemical Materials — Collected by: Client — Denali Water — PO:
Taken: 12/20/2023 12:45:00

EPA 6020A — Prepared: 1097405 01/02/2024 12:15:00 — Analyzed 1098445 01/08/2024 17:12:00 JC2

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP Lead	<0.050	mg/L	0.050		7439-92-1	14

EPA 7470 A — Prepared: 1097330 01/02/2024 09:00:00 — Analyzed 1097650 01/03/2024 08:13:00 CAS

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP Mercury	<0.002	mg/L	0.002		7439-97-6	12

EPA 7471B 2 — Prepared: 1097757 01/04/2024 07:00:00 — Analyzed 1097885 01/04/2024 11:16:00 CAS

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Mercury	0.101 *	mg/kg	0.0284		7439-97-6	16

* Dry Weight Basis

EPA 8081A — Prepared: 1097169 12/29/2023 10:00:00 — Analyzed 1097899 01/02/2024 23:30:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP Chlordane	<0.001	mg/L	0.001		57-74-9	10
NELAC	TCLP Endrin	<0.00005	mg/L	0.00005		72-20-8	10
NELAC	TCLP gamma-BHC (Lindane)	<0.00005	mg/L	0.00005		58-89-9	10
NELAC	TCLP Heptachlor	<0.00005	mg/L	0.00005		76-44-8	10
NELAC	TCLP Heptachlor Epoxide	<0.00005	mg/L	0.00005		1024-57-3	10
NELAC	TCLP Methoxychlor	<0.00005	mg/L	0.00005		72-43-5	10
NELAC	TCLP Toxaphene	<0.001	mg/L	0.001		8001-35-2	10

EPA 8082 — Prepared: 1097678 01/03/2024 15:23:27 — Analyzed 1098144 01/04/2024 15:26:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	PCB-1016	<719 *	ug/kg	719		12674-11-2	15
NELAC	PCB-1221	<719 *	ug/kg	719		11104-28-2	15
NELAC	PCB-1232	<719 *	ug/kg	719		11141-16-5	15
NELAC	PCB-1242	<719 *	ug/kg	719		53469-21-9	15
NELAC	PCB-1248	<719 *	ug/kg	719		12672-29-6	15
NELAC	PCB-1254	<719 *	ug/kg	719		11097-69-1	15
NELAC	PCB-1260	<719 *	ug/kg	719		11096-82-5	15
NELAC	PCB-1262	<719 *	ug/kg	719		37324-23-5	15

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DETX-R

Project
1085420

Denali Water
Tony Castillo
15308 Bass 3 Lane
Harlingen, TX 78552

Printed: 01/09/2024

2258852 SAN BENITO WTP 2 — Received: 12/22/2023

Solid & Chemical Materials — Collected by: Client — Denali Water — PO:
Taken: 12/20/2023 12:45:00

EPA 8082 — Prepared: 1097678 01/03/2024 15:23:27 — Analyzed 1098144 01/04/2024 15:26:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	PCB-1268	<719 *	ug/kg	719		11100-14-4	15

* Dry Weight Basis

EPA 8151 — Prepared: 1097168 12/28/2023 10:00:00 — Analyzed 1097566 01/03/2024 04:03:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP 2,4 D	<0.500	mg/L	0.500		94-75-7	09
NELAC	TCLP 2,4,5-TP (Silvex)	<0.300	mg/L	0.300		93-72-1	09

EPA 8260B — Prepared: 1096858 12/27/2023 16:23:00 — Analyzed 1097586 01/02/2024 18:22:00 MR1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP 1,1-Dichloroethene	<0.010	mg/L	0.010		75-35-4	03
NELAC	TCLP 1,2-Dichloroethane	<0.010	mg/L	0.010		107-06-2	03
NELAC	TCLP 1,4 Dichlorobenzene	<0.010	mg/L	0.010		106-46-7	03
NELAC	TCLP Benzene	<0.010	mg/L	0.010		71-43-2	03
NELAC	TCLP Carbon tetrachloride	<0.010	mg/L	0.010		56-23-5	03
NELAC	TCLP Chlorobenzene	<0.010	mg/L	0.010		108-90-7	03
NELAC	TCLP Chloroform	<0.010	mg/L	0.010		67-66-3	03
NELAC	TCLP MEK	<0.100	mg/L	0.100		78-93-3	03
NELAC	TCLP Tetrachloroethylene	<0.010	mg/L	0.010		127-18-4	03
NELAC	TCLP Trichloroethylene	<0.010	mg/L	0.010		79-01-6	03
NELAC	TCLP Vinyl chloride	<0.0104	mg/L	0.0104		75-01-4	03

EPA 8270C — Prepared: 1097026 12/28/2023 14:00:00 — Analyzed 1098289 01/06/2024 00:37:00 DWL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP 2,4,5-Trichlorophenol	<0.010	mg/L	0.010		95-95-4	08
NELAC	TCLP 2,4,6-Trichlorophenol	<0.010	mg/L	0.010		88-06-2	08
NELAC	TCLP 2,4-Dinitrotoluene	<0.035	mg/L	0.035		121-14-2	08
NELAC	TCLP 2-Methylphenol (o-Cresol)	<0.052	mg/L	0.052		95-48-7	08
NELAC	TCLP 3&4-Methylphenol (m&p-Creso	<0.062	mg/L	0.062		108-39-4	08
NELAC	TCLP Hexachlorobenzene	<0.010	mg/L	0.010		118-74-1	08
NELAC	TCLP Hexachlorobutadiene	<0.010	mg/L	0.010		87-68-3	08
NELAC	TCLP Hexachloroethane	<0.010	mg/L	0.010		67-72-1	08

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DETX-R

Project
1085420

Denali Water
Tony Castillo
15308 Bass 3 Lane
Harlingen, TX 78552

Printed: 01/09/2024

2258852 SAN BENITO WTP 2 — Received: 12/22/2023

Solid & Chemical Materials — Collected by: Client — Denali Water — PO:
Taken: 12/20/2023 12:45:00

EPA 8270C — Prepared: 1097026 12/28/2023 14:00:00 — Analyzed 1098289 01/06/2024 00:37:00 DWL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP Nitrobenzene	<0.010	mg/L	0.010		98-95-3	08
NELAC	TCLP Pentachlorophenol	<0.010	mg/L	0.010		87-86-5	08
NELAC	TCLP Pyridine (Reg. Limit 5)	<0.054	mg/L	0.054		110-86-1	08

EPA 8270C — Prepared: 1097026 12/28/2023 14:00:00 — Calculated 1098289 01/08/2024 13:01:57 CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	TCLP Total Cresols (Reg Lim 200)	<0.062	mg/L	0.062		108-39-4,ect.	08

EPA 9056 — Prepared: 1097220 12/29/2023 14:07:46 — Analyzed 1097401 12/29/2023 22:11:00 NAZ

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Nitrate-Nitrogen	<3.24 *	mg/kg	3.24		14797-55-8	11

* Dry Weight Basis

SM2540 G-1997 /MOD — Prepared: 1097837 01/03/2024 15:20:00 — Analyzed 1097837 01/03/2024 15:20:00 JK1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Total Solids for Dry Wt Conversi	34.9	%	0.010			01

Sample Preparation

2258852 SAN BENITO WTP 2 — Received: 12/22/2023

12/20/2023

Prepared: 12/27/2023 10:04:50 — Calculated 12/27/2023 10:04:50 CAL

z	Environmental Fee (per Project)	Verified

Calculation — Prepared: 01/09/2024 15:30:28 — Calculated 01/09/2024 15:30:28 CAL

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24 Waterway Avenue, Suite 375 The Woodlands, TX 77380
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Project
1085420

Denali Water
Tony Castillo
15308 Bass 3 Lane
Harlingen, TX 78552

Printed: 01/09/2024

2258852 SAN BENITO WTP 2 Received: 12/22/2023

12/20/2023

	Calculation	*Prepared:*		*01/09/2024*	*15:30:28*	*Calculated*		*01/09/2024*	*15:30:28*	*CAL*
	As Received to Dry Weight Basis	**Calculated**								
	EPA 3510C	*Prepared:*	*1096859*	*12/27/2023*	*16:23:00*	*Analyzed*	*1097026*	*12/28/2023*	*14:00:00*	*CRS*
	TCLP Liquid-Liquid Extract	**1/100**	**ml**							06
	EPA 3510C	*Prepared:*	*1096859*	*12/27/2023*	*16:23:00*	*Analyzed*	*1097169*	*12/29/2023*	*10:00:00*	*CRS*
	TCLP Liq-Liq Extr. W/Hex Exch.	**10/200**	**ml**							06
	EPA 1311	*Prepared:*	*1096859*	*12/27/2023*	*16:23:00*	*Analyzed*	*1096859*	*12/27/2023*	*16:23:00*	*MAX*
NELAC	**TCLP Extraction Non-Volatile**	**SOLID EXT 1**	**ml**							01
	EPA 1311ZHE	*Prepared:*	*1096858*	*12/27/2023*	*16:23:00*	*Analyzed*	*1096858*	*12/27/2023*	*16:23:00*	*MAX*
NELAC	**TCLP Extraction ZHE Volatiles**	**100%SOLID**	**ml**							01
	EPA 3005A	*Prepared:*	*1096859*	*12/27/2023*	*16:23:00*	*Analyzed*	*1097405*	*01/02/2024*	*12:15:00*	*TES*
z	**Metals Digestion TCLP Extract**	**50/10**	**ml**							05
	EPA 3050B	*Prepared:*	*1097322*	*01/02/2024*	*11:00:00*	*Analyzed*	*1097322*	*01/02/2024*	*11:00:00*	*TES*
NELAC	**Solid/Sludge/Soil/Sediment Metal**	**50/2.27**	**grams**							01
	EPA 350.1 2	*Prepared:*	*1096819*	*12/27/2023*	*14:19:44*	*Analyzed*	*1096819*	*12/27/2023*	*14:19:44*	*SRJ*

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12/20/2023

	EPA 350.1 2	*Prepared:*	*1096819*	*12/27/2023*	*14:19:44*	*Analyzed*	*1096819*	*12/27/2023*	*14:19:44*		*SRJ*
NELAC	**Ammonia Distillation**	**6/0.9839**		**grams**							01
	EPA 351.2 2	*Prepared:*	*1097873*	*01/04/2024*	*13:51:13*	*Analyzed*	*1097873*	*01/04/2024*	*13:51:13*		*SRJ*
NELAC	**TKN Block Digestion**	**20/0.9924**		**grams**							01
	EPA 3550B	*Prepared:*	*1097678*	*01/03/2024*	*15:23:27*	*Analyzed*	*1097678*	*01/03/2024*	*15:23:27*		*PEV*
NELAC	**PCB Total Sonic Extr. W/Hex Exch**	**10/1.99**		**grams**							01
	EPA 7470A	*Prepared:*	*1096859*	*12/27/2023*	*16:23:00*	*Analyzed*	*1097330*	*01/02/2024*	*09:00:00*		*ALB*
NELAC	**Metals Digestion TCLP 7470**	**50/2.5**		**ml**							05
	EPA 7471B	*Prepared:*	*1097757*	*01/04/2024*	*07:00:00*	*Analyzed*	*1097757*	*01/04/2024*	*07:00:00*		*ALB*
NELAC	**Solid Metals Digestion Hg**	**50/0.5041**		**grams**							01
	EPA 8081A	*Prepared:*	*1097169*	*12/29/2023*	*10:00:00*	*Analyzed*	*1097899*	*01/02/2024*	*23:30:00*		*KAP*
NELAC	**GC TCLP Pesticide**	**Entered**									10
	EPA 8082	*Prepared:*	*1097678*	*01/03/2024*	*15:23:27*	*Analyzed*	*1098144*	*01/04/2024*	*15:26:00*		*KAP*
NELAC	**Polychlorinated Biphenyls**	**Entered**									15

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2258852 SAN BENITO WTP 2 — Received: 12/22/2023

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EPA 8151		*Prepared:*	*1097168*	*12/28/2023*	*10:00:00*	*Analyzed*	*1097566*	*01/03/2024*	*04:03:00*	*KAP*
NELAC	**GC TCLP Herbicide**	**Entered**								09
EPA 8151A (Prep)		*Prepared:*	*1096859*	*12/27/2023*	*16:23:00*	*Analyzed*	*1097168*	*12/28/2023*	*10:00:00*	*CRS*
NELAC	**Esterification of TCLP Extract**	**10/1**	**ml**							06
EPA 8260B		*Prepared:*	*1096858*	*12/27/2023*	*16:23:00*	*Analyzed*	*1097586*	*01/02/2024*	*18:22:00*	*MR1*
NELAC	**MS TCLP Volatile Analysis**	**Entered**								03
EPA 8270C		*Prepared:*	*1097026*	*12/28/2023*	*14:00:00*	*Analyzed*	*1098289*	*01/06/2024*	*00:37:00*	*DWL*
NELAC	**MS TCLP Semivolatile Analysis**	**Entered**								08
EPA 9056		*Prepared:*	*1097220*	*12/29/2023*	*14:07:46*	*Analyzed*	*1097220*	*12/29/2023*	*14:07:46*	*PEV*
	Water Extract-Ion Chromatography	**50/5.0**	**grams**							01
SM 2540 G-1997		*Prepared:*	*1097619*	*01/03/2024*	*15:20:00*	*Analyzed*	*1097619*	*01/03/2024*	*15:20:00*	*JK1*
NELAC	**Total Solids Start Code**	**Started**								

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Printed: 01/09/2024

Qualifiers:

We report results on an As Received (or Wet) basis unless marked Dry Weight.

Unless otherwise noted, testing was performed at SPL, Inc.- Kilgore laboratory which holds International, Federal, and state accreditations. Please see our Websites for details.

(N)ELAC - Covered in our NELAC scope of accreditation
z -- Not covered by our NELAC scope of accreditation

These analytical results relate to the sample tested. This report may NOT be reproduced EXCEPT in FULL without written approval of SPL Kilgore. Unless otherwise specified, these test results meet the requirements of NELAC.
RL is the Reporting Limit (sample specific quantitation limit) and is at or above the Method Detection Limit (MDL). CAS is Chemical Abstract Service number. RL is our Reporting Limit, or Minimum Quantitation Level. The RL takes into account the Instrument Detection Limit (IDL), Method Detection Limit (MDL), and Practical Quantitation Limit (PQL), and any dilutions and/or concentrations performed during sample preparation (EQL). Our analytical result must be above this RL before we report a value in the 'Results' column of our report (without a 'J' flag). Otherwise, we report ND (Not Detected above RL), because the result is "<" (less than) the number in the RL column. MAL is Minimum Analytical Level and is typically from regulatory agencies. Unless we report a result in the result column, or interferences prevent it, we work to have our RL at or below the MAL.

Bill Peery, MS, VP Technical Services

QUALITY CONTROL

DETX-R

Denali Water
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Printed 01/09/2024

Analytical Set 1097837 — SM2540 G-1997 /MOD

ControlBlk

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Total Solids for Dry Wt Conversi	1097837	0.0002			grams	125820098

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Total Solids for Dry Wt Conversi	2258849	14.8	16.4	%	10.3	20.0
Total Solids for Dry Wt Conversi	2259573	100	100	%	0	20.0

Analytical Set 1097853 — EPA 350.1 2

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Ammonia Nitrogen	1096819	ND	0.509	1.00	mg/kg	125820415

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Ammonia Nitrogen	2.08	2.00	mg/kg	104	90.0 - 110	125820404
Ammonia Nitrogen	2.07	2.00	mg/kg	104	90.0 - 110	125820405
Ammonia Nitrogen	2.10	2.00	mg/kg	105	90.0 - 110	125820416
Ammonia Nitrogen	2.13	2.00	mg/kg	106	90.0 - 110	125820427

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Ammonia Nitrogen	2258849	85.1	83.8	mg/kg	1.54	20.0

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Ammonia Nitrogen	2.13	2.00	mg/kg	106	90.0 - 110	125820403

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Ammonia Nitrogen	1096819	109	105	100	90.0 - 110	109	105	mg/kg	3.74	20.0

Mat. Spike

Parameter	Sample	Spike	Unknown	Known	Units	Recovery %	Limits %	File	
Ammonia Nitrogen	2258849	97.1	83.8	100	mg/kg	13.3	80.0 - 120	125820421	*

Analytical Set 1098345 — EPA 351.2 2

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Total Kjeldahl Nitrogen	1097873	ND	0.378	1.00	mg/kg	125835421

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Total Kjeldahl Nitrogen	5.43	5.00	mg/kg	109	90.0 - 110	125835417
Total Kjeldahl Nitrogen	5.37	5.00	mg/kg	107	90.0 - 110	125835418
Total Kjeldahl Nitrogen	5.42	5.00	mg/kg	108	90.0 - 110	125835419

QUALITY CONTROL

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CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Total Kjeldahl Nitrogen	5.39	5.00	mg/kg	108	90.0 - 110	125835420
Total Kjeldahl Nitrogen	5.42	5.00	mg/kg	108	90.0 - 110	125835422
Total Kjeldahl Nitrogen	5.44	5.00	mg/kg	109	90.0 - 110	125835433
Total Kjeldahl Nitrogen	5.43	5.00	mg/kg	109	90.0 - 110	125835434
Total Kjeldahl Nitrogen	5.33	5.00	mg/kg	107	90.0 - 110	125835435

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD		Limit%
Total Kjeldahl Nitrogen	2258849	1490	2010	mg/kg	29.7	*	20.0

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Total Kjeldahl Nitrogen	5.36	5.00	mg/kg	107	90.0 - 110	125835416

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Total Kjeldahl Nitrogen	1097873	102	98.3	100	90.0 - 110	102	98.3	mg/kg	3.69	20.0

Mat. Spike

Parameter	Sample	Spike	Unknown	Known	Units	Recovery %	Limits %	File	
Total Kjeldahl Nitrogen	2258849	1470	2010	4890	mg/kg	0	80.0 - 120	125835427	*

Analytical Set 1097401 — EPA 9056

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Nitrate-Nitrogen	1097220	ND	0.00185	0.0226	mg/kg	125809530

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Nitrate-Nitrogen	2.27	2.26	mg/kg	100	90.0 - 110	125809507
Nitrate-Nitrogen	2.29	2.26	mg/kg	101	90.0 - 110	125809520
Nitrate-Nitrogen	2.28	2.26	mg/kg	101	90.0 - 110	125809528
Nitrate-Nitrogen	2.27	2.26	mg/kg	100	90.0 - 110	125809529

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Nitrate-Nitrogen	1097220	1.13	1.10	1.13	75.0 - 120	100	97.3	mg/kg	2.69	20.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Nitrate-Nitrogen	2258904	2.68	2.71	0.226	2.26	80.0 - 120	109	110	mg/kg	1.22	20.0

Analytical Set 1097544 — EPA 6010C

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Phosphorus	1097322	16.1	13.8	20.0	80.0 - 120	80.5	69.0 *	mg/kg	15.4	25.0

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Analytical Set 1097552 — EPA 6010C

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Phosphorus	1097322	ND	0.00734	0.100	mg/kg	125813339

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Phosphorus	1.00	1.00	mg/kg	100	90.0 - 110	125813338
Phosphorus	1.02	1.00	mg/kg	102	90.0 - 110	125813346
Phosphorus	1.00	1.00	mg/kg	100	90.0 - 110	125813350
Phosphorus	1.01	1.00	mg/kg	101	90.0 - 110	125813353

ICL

Parameter	Reading	Known	Units	Recover%	Limits%	File
Phosphorus	25.1	25.0	mg/kg	100	95.0 - 105	125813336

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Phosphorus	0.999	1.00	mg/kg	99.9	90.0 - 110	125813337

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Phosphorus	1097552	18.6	18.5	20.0	80.0 - 120	93.0	92.5	mg/kg	0.539	25.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Phosphorus	2258849	683	571	250	478	23.3 - 179	86.9	64.5	mg/kg	29.7 *	25.0
Phosphorus	2258865	2080	1750	1380	469	23.3 - 179	147	77.7	mg/kg	61.7 *	25.0

Analytical Set 1097593 — EPA 6010C

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Potassium	1097322	ND	0.111	0.500	mg/kg	125814353

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Potassium	26.9	25.0	mg/kg	108	90.0 - 110	125814352
Potassium	26.3	25.0	mg/kg	105	90.0 - 110	125814360
Potassium	25.2	25.0	mg/kg	101	90.0 - 110	125814367
Potassium	25.7	25.0	mg/kg	103	90.0 - 110	125814370

ICL

Parameter	Reading	Known	Units	Recover%	Limits%	File
Potassium	48.2	50.0	mg/kg	96.4	95.0 - 105	125814346

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Potassium	26.2	25.0	mg/kg	105	90.0 - 110	125814350

QUALITY CONTROL

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LDR

Parameter	Reading	Known	Units	Recover%	Limits%	File
Potassium	93.8	100	mg/kg	93.8	90.0 - 110	125814347

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Potassium	2258849	1490	1280	740	598	33.6 - 179	121	86.8	mg/kg	32.6 *	25.0
Potassium	2258865	905	748	275	587	33.6 - 179	106	79.5	mg/kg	28.5 *	25.0

Analytical Set 1097650 — EPA 7470 A

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP Mercury	1097330	ND	0.000113	0.0002	mg/L	125815076

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Mercury	0.00496	0.005	mg/L	99.2	90.0 - 110	125815074
TCLP Mercury	0.00505	0.005	mg/L	101	90.0 - 110	125815075
TCLP Mercury	0.00495	0.005	mg/L	99.0	90.0 - 110	125815085
TCLP Mercury	0.00498	0.005	mg/L	99.6	90.0 - 110	125815087
TCLP Mercury	0.00482	0.005	mg/L	96.4	90.0 - 110	125815095
TCLP Mercury	0.00496	0.005	mg/L	99.2	90.0 - 110	125815099
TCLP Mercury	0.00513	0.005	mg/L	103	90.0 - 110	125815105
TCLP Mercury	0.00491	0.005	mg/L	98.2	90.0 - 110	125815118
TCLP Mercury	0.0049	0.005	mg/L	98.0	90.0 - 110	125815125
TCLP Mercury	0.00488	0.005	mg/L	97.6	90.0 - 110	125815126

ICL

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Mercury	0.0204	0.02	mg/L	102	90.0 - 110	125815073

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Mercury	0.00507	0.005	mg/L	101	90.0 - 110	125815072

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
TCLP Mercury	1097330	0.00947	0.00967	0.010	85.1 - 117	94.7	96.7	mg/L	2.09	20.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
TCLP Mercury	2258849	0.094	0.0962	ND	0.100	80.9 - 121	94.0	96.2	mg/L	2.31	20.0

Analytical Set 1097885 — EPA 7471B 2

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Mercury	1097757	0.0000926	0.0000419	0.0001	mg/kg	125821080

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CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Mercury	0.00498	0.005	mg/kg	99.6	90.0 - 110	125821078
Mercury	0.00477	0.005	mg/kg	95.4	90.0 - 110	125821079
Mercury	0.00479	0.005	mg/kg	95.8	90.0 - 110	125821090
Mercury	0.00505	0.005	mg/kg	101	90.0 - 110	125821092
Mercury	0.00462	0.005	mg/kg	92.4	90.0 - 110	125821093

ICL

Parameter	Reading	Known	Units	Recover%	Limits%	File
Mercury	0.0194	0.02	mg/kg	97.0	90.0 - 110	125821077

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Mercury	0.00484	0.005	mg/kg	96.8	90.0 - 110	125821076

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Mercury	1097757	0.00998	0.00997	0.010	78.6 - 104	99.8	99.7	mg/kg	0.100	20.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Mercury	2258993	1.30	1.33	0.423	0.992	74.3 - 109	87.9	90.9	mg/kg	3.36	25.0
Mercury	2260172	1.70	1.71	0.829	0.977	74.3 - 109	89.2	90.2	mg/kg	1.14	25.0

Analytical Set 1098034 — EPA 6020A

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP Arsenic	1097405	ND	0.010	0.010	mg/L	125826294
TCLP Barium	1097405	ND	0.010	0.010	mg/L	125826294
TCLP Cadmium	1097405	ND	0.001	0.001	mg/L	125826294
TCLP Chromium	1097405	ND	0.010	0.010	mg/L	125826294
TCLP Selenium	1097405	ND	0.010	0.010	mg/L	125826294
TCLP Silver	1097405	ND	0.010	0.010	mg/L	125826294

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Arsenic	0.0478	0.05	mg/L	95.6	90.0 - 110	125826278
TCLP Arsenic	0.0479	0.05	mg/L	95.8	90.0 - 110	125826289
TCLP Arsenic	0.0497	0.05	mg/L	99.4	90.0 - 110	125826301
TCLP Arsenic	0.0477	0.05	mg/L	95.4	90.0 - 110	125826313
TCLP Cadmium	0.047	0.05	mg/L	94.0	90.0 - 110	125826278
TCLP Cadmium	0.0487	0.05	mg/L	97.4	90.0 - 110	125826289
TCLP Cadmium	0.0482	0.05	mg/L	96.4	90.0 - 110	125826301
TCLP Cadmium	0.0476	0.05	mg/L	95.2	90.0 - 110	125826313
TCLP Chromium	0.0449	0.05	mg/L	89.8	90.0 - 110	125826278
TCLP Chromium	0.0469	0.05	mg/L	93.8	90.0 - 110	125826289
TCLP Chromium	0.0463	0.05	mg/L	92.6	90.0 - 110	125826301

QUALITY CONTROL

DETX-R

Denali Water
Tony Castillo
15308 Bass 3 Lane
Harlingen, TX 78552

Project
1085420

Printed 01/09/2024

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Chromium	0.0451	0.05	mg/L	90.2	90.0 - 110	125826313
TCLP Selenium	0.0491	0.05	mg/L	98.2	90.0 - 110	125826278
TCLP Selenium	0.0495	0.05	mg/L	99.0	90.0 - 110	125826289
TCLP Selenium	0.052	0.05	mg/L	104	90.0 - 110	125826301
TCLP Selenium	0.0479	0.05	mg/L	95.8	90.0 - 110	125826313
TCLP Silver	0.0481	0.05	mg/L	96.2	90.0 - 110	125826278
TCLP Silver	0.0478	0.05	mg/L	95.6	90.0 - 110	125826289
TCLP Silver	0.0485	0.05	mg/L	97.0	90.0 - 110	125826301
TCLP Silver	0.0481	0.05	mg/L	96.2	90.0 - 110	125826313

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Arsenic	0.0488	0.05	mg/L	97.6	90.0 - 110	125826155
TCLP Cadmium	0.0487	0.05	mg/L	97.4	90.0 - 110	125826155
TCLP Chromium	0.0483	0.05	mg/L	96.6	90.0 - 110	125826155
TCLP Selenium	0.0475	0.05	mg/L	95.0	90.0 - 110	125826155
TCLP Silver	0.0485	0.05	mg/L	97.0	90.0 - 110	125826155

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
TCLP Arsenic	1097405	0.482	0.490	0.500	82.8 - 120	96.4	98.0	mg/L	1.65	14.0
TCLP Barium	1097405	0.483	0.490	0.500	83.1 - 113	96.6	98.0	mg/L	1.44	14.0
TCLP Cadmium	1097405	0.251	0.255	0.250	86.0 - 115	100	102	mg/L	1.58	14.0
TCLP Chromium	1097405	0.534	0.537	0.500	84.3 - 118	107	107	mg/L	0.560	14.0
TCLP Selenium	1097405	0.490	0.501	0.500	83.5 - 121	98.0	100	mg/L	2.22	14.0
TCLP Silver	1097405	0.0896	0.0904	0.100	80.1 - 118	89.6	90.4	mg/L	0.889	14.0

LDR

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Arsenic	1.08	1	mg/L	108	90.0 - 110	125826165
TCLP Chromium	10.5	10	mg/L	105	90.0 - 110	125826163
TCLP Selenium	10.3	10	mg/L	103	90.0 - 110	125826163

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
TCLP Arsenic	2258849	2.42	2.36	0.0156	2.50	84.9 - 114	96.2	93.8	mg/L	2.53	20.0
TCLP Barium	2258849	3.08	2.96	0.618	2.50	80.3 - 115	98.5	93.7	mg/L	5.00	20.0
TCLP Cadmium	2258849	1.28	1.24	ND	1.25	78.2 - 120	102	99.2	mg/L	3.17	20.0
TCLP Chromium	2258849	2.66	2.54	0.0256	2.50	86.0 - 117	105	101	mg/L	4.66	20.0
TCLP Selenium	2258849	2.43	2.37	0.0161	2.50	80.2 - 121	96.6	94.2	mg/L	2.52	20.0
TCLP Silver	2258849	0.453	0.447	ND	0.500	80.7 - 115	90.6	89.4	mg/L	1.33	20.0

Analytical Set 1098083 — EPA 6010C

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Arsenic	1097322	ND	0.014	0.050	mg/kg	125827347

QUALITY CONTROL

DETX-R

Denali Water
Tony Castillo
15308 Bass 3 Lane
Harlingen, TX 78552

Project
1085420

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Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Cadmium	1097322	ND	0.00142	0.025	mg/kg	125827347
Chromium	1097322	ND	0.005	0.050	mg/kg	125827347
Copper	1097322	ND	0.00321	0.025	mg/kg	125827347
Lead	1097322	ND	0.0146	0.050	mg/kg	125827347
Molybdenum	1097322	ND	0.00353	0.025	mg/kg	125827347
Nickel	1097322	ND	0.00409	0.025	mg/kg	125827347
Selenium	1097322	0.0176	0.012	0.050	mg/kg	125827347
Zinc	1097322	ND	0.0332	0.050	mg/kg	125827347

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Arsenic	2.56	2.50	mg/kg	102	90.0 - 110	125827346
Arsenic	2.55	2.50	mg/kg	102	90.0 - 110	125827354
Arsenic	2.49	2.50	mg/kg	99.6	90.0 - 110	125827361
Arsenic	2.54	2.50	mg/kg	102	90.0 - 110	125827364
Cadmium	1.28	1.25	mg/kg	102	90.0 - 110	125827346
Cadmium	1.26	1.25	mg/kg	101	90.0 - 110	125827354
Cadmium	1.24	1.25	mg/kg	99.2	90.0 - 110	125827361
Cadmium	1.26	1.25	mg/kg	101	90.0 - 110	125827364
Chromium	2.57	2.50	mg/kg	103	90.0 - 110	125827346
Chromium	2.53	2.50	mg/kg	101	90.0 - 110	125827354
Chromium	2.49	2.50	mg/kg	99.6	90.0 - 110	125827361
Chromium	2.53	2.50	mg/kg	101	90.0 - 110	125827364
Copper	2.46	2.50	mg/kg	98.4	90.0 - 110	125827346
Copper	2.41	2.50	mg/kg	96.4	90.0 - 110	125827354
Copper	2.38	2.50	mg/kg	95.2	90.0 - 110	125827361
Copper	2.43	2.50	mg/kg	97.2	90.0 - 110	125827364
Lead	2.55	2.50	mg/kg	102	90.0 - 110	125827346
Lead	2.50	2.50	mg/kg	100	90.0 - 110	125827354
Lead	2.47	2.50	mg/kg	98.8	90.0 - 110	125827361
Lead	2.50	2.50	mg/kg	100	90.0 - 110	125827364
Molybdenum	2.62	2.50	mg/kg	105	90.0 - 110	125827346
Molybdenum	2.59	2.50	mg/kg	104	90.0 - 110	125827354
Molybdenum	2.54	2.50	mg/kg	102	90.0 - 110	125827361
Molybdenum	2.57	2.50	mg/kg	103	90.0 - 110	125827364
Nickel	2.54	2.50	mg/kg	102	90.0 - 110	125827346
Nickel	2.49	2.50	mg/kg	99.6	90.0 - 110	125827354
Nickel	2.46	2.50	mg/kg	98.4	90.0 - 110	125827361
Nickel	2.50	2.50	mg/kg	100	90.0 - 110	125827364
Selenium	2.57	2.50	mg/kg	103	90.0 - 110	125827346
Selenium	2.57	2.50	mg/kg	103	90.0 - 110	125827354
Selenium	2.47	2.50	mg/kg	98.8	90.0 - 110	125827361
Selenium	2.54	2.50	mg/kg	102	90.0 - 110	125827364
Zinc	2.59	2.50	mg/kg	104	90.0 - 110	125827346
Zinc	2.55	2.50	mg/kg	102	90.0 - 110	125827354

QUALITY CONTROL

DETX-R

Denali Water
Tony Castillo
15308 Bass 3 Lane
Harlingen, TX 78552

Project
1085420

Printed 01/09/2024

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Zinc	2.50	2.50	mg/kg	100	90.0 - 110	125827361
Zinc	2.54	2.50	mg/kg	102	90.0 - 110	125827364

ICL

Parameter	Reading	Known	Units	Recover%	Limits%	File
Arsenic	5.03	5.00	mg/kg	101	95.0 - 105	125827340
Cadmium	2.47	2.50	mg/kg	98.8	95.0 - 105	125827340
Chromium	4.98	5.00	mg/kg	99.6	95.0 - 105	125827340
Copper	4.77	5.00	mg/kg	95.4	95.0 - 105	125827340
Lead	4.92	5.00	mg/kg	98.4	95.0 - 105	125827340
Molybdenum	5.09	5.00	mg/kg	102	95.0 - 105	125827340
Nickel	4.87	5.00	mg/kg	97.4	95.0 - 105	125827340
Selenium	5.00	5.00	mg/kg	100	95.0 - 105	125827340
Zinc	5.00	5.00	mg/kg	100	95.0 - 105	125827340

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Arsenic	2.60	2.50	mg/kg	104	90.0 - 110	125827344
Cadmium	1.27	1.25	mg/kg	102	90.0 - 110	125827344
Chromium	2.59	2.50	mg/kg	104	90.0 - 110	125827344
Copper	2.49	2.50	mg/kg	99.6	90.0 - 110	125827344
Lead	2.54	2.50	mg/kg	102	90.0 - 110	125827344
Molybdenum	2.63	2.50	mg/kg	105	90.0 - 110	125827344
Nickel	2.52	2.50	mg/kg	101	90.0 - 110	125827344
Selenium	2.63	2.50	mg/kg	105	90.0 - 110	125827344
Zinc	2.56	2.50	mg/kg	102	90.0 - 110	125827344

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Arsenic	1097322	2.49	2.42	2.50	84.7 - 113	99.6	96.8	mg/kg	2.85	25.0
Cadmium	1097322	1.28	1.26	1.25	85.5 - 114	102	101	mg/kg	1.57	25.0
Chromium	1097322	2.65	2.58	2.50	86.1 - 117	106	103	mg/kg	2.68	25.0
Copper	1097322	2.56	2.49	2.50	83.8 - 115	102	99.6	mg/kg	2.77	25.0
Lead	1097322	2.60	2.54	2.50	83.9 - 117	104	102	mg/kg	2.33	25.0
Molybdenum	1097322	2.55	2.47	2.50	87.5 - 114	102	98.8	mg/kg	3.19	25.0
Nickel	1097322	2.63	2.57	2.50	88.3 - 113	105	103	mg/kg	2.31	25.0
Selenium	1097322	2.44	2.39	2.50	77.2 - 114	97.6	95.6	mg/kg	2.07	25.0
Zinc	1097322	2.61	2.57	2.50	86.1 - 112	104	103	mg/kg	1.54	25.0

LDR

Parameter	Reading	Known	Units	Recover%	Limits%	File
Arsenic	9.84	10.0	mg/kg	98.4	90.0 - 110	125827341
Cadmium	4.74	5.00	mg/kg	94.8	90.0 - 110	125827341
Chromium	9.67	10.0	mg/kg	96.7	90.0 - 110	125827341
Copper	9.35	10.0	mg/kg	93.5	90.0 - 110	125827341
Lead	9.56	10.0	mg/kg	95.6	90.0 - 110	125827341

QUALITY CONTROL

DETX-R

Denali Water
Tony Castillo
15308 Bass 3 Lane
Harlingen, TX 78552

Project
1085420

Printed 01/09/2024

LDR

Parameter	Reading	Known	Units	Recover%	Limits%	File
Molybdenum	9.91	10.0	mg/kg	99.1	90.0 - 110	125827341
Nickel	9.44	10.0	mg/kg	94.4	90.0 - 110	125827341
Selenium	9.63	10.0	mg/kg	96.3	90.0 - 110	125827341
Zinc	9.72	10.0	mg/kg	97.2	90.0 - 110	125827341

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Arsenic	2258849	71.1	62.5	13.8	59.8	77.7 - 119	92.1	78.3	mg/kg	16.2	25.0
Cadmium	2258849	29.4	24.7	ND	29.9	74.3 - 123	94.5	79.4	mg/kg	17.4	25.0
Chromium	2258849	62.7	52.5	2.04	59.8	90.7 - 118	97.5	81.1 *	mg/kg	18.4	25.0
Copper	2258849	546	504	498	59.8	75.8 - 122	77.2	9.65 *	mg/kg	156 *	25.0
Lead	2258849	60.5	49.8	0.490	59.8	82.0 - 118	96.5	79.3 *	mg/kg	19.6	25.0
Molybdenum	2258849	55.1	46.4	ND	59.8	84.5 - 118	88.6	74.6 *	mg/kg	17.1	25.0
Nickel	2258849	61.6	52.1	1.96	59.8	91.0 - 115	95.9	80.6 *	mg/kg	17.3	25.0
Selenium	2258849	58.0	49.3	1.99	59.8	71.1 - 119	90.0	76.1	mg/kg	16.8	25.0
Zinc	2258849	72.8	61.7	13.7	59.8	88.5 - 114	95.0	77.2 *	mg/kg	20.7	25.0
Chromium	2258865	70.6	59.3	14.2	58.7	90.7 - 118	94.8	75.8 *	mg/kg	22.3	25.0
Copper	2258865	82.4	68.3	22.8	58.7	75.8 - 122	100	76.5	mg/kg	26.8 *	25.0
Molybdenum	2258865	54.5	45.7	2.32	58.7	84.5 - 118	87.7	72.9 *	mg/kg	18.4	25.0

Analytical Set 1098232 — EPA 6020A

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP Barium	1097405	ND	0.010	0.010	mg/L	125832223

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Barium	0.0496	0.05	mg/L	99.2	90.0 - 110	125832201
TCLP Barium	0.0483	0.05	mg/L	96.6	90.0 - 110	125832211
TCLP Barium	0.0476	0.05	mg/L	95.2	90.0 - 110	125832221
TCLP Barium	0.0476	0.05	mg/L	95.2	90.0 - 110	125832231
TCLP Barium	0.0472	0.05	mg/L	94.4	90.0 - 110	125832239

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Barium	0.051	0.05	mg/L	102	90.0 - 110	125832182

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
TCLP Barium	1097405	0.505	0.500	0.500	83.1 - 113	101	100	mg/L	0.995	14.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
TCLP Barium	2258849	3.12	3.25	0.663	2.50	80.3 - 115	98.3	103	mg/L	5.15	20.0

Analytical Set 1098445 — EPA 6020A

QUALITY CONTROL

DETX-R

Denali Water
Tony Castillo
15308 Bass 3 Lane
Harlingen, TX 78552

Project
1085420

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Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP Lead	1097405	ND	0.010	0.010	mg/L	125839102

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Lead	0.0488	0.05	mg/L	97.6	90.0 - 110	125839099
TCLP Lead	0.0476	0.05	mg/L	95.2	90.0 - 110	125839109
TCLP Lead	0.0479	0.05	mg/L	95.8	90.0 - 110	125839118

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Lead	0.0488	0.05	mg/L	97.6	90.0 - 110	125839074

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
TCLP Lead	1097405	0.532	0.537	0.500	85.1 - 115	106	107	mg/L	0.935	14.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
TCLP Lead	2258849	2.67	2.71	ND	2.50	85.0 - 116	107	108	mg/L	1.49	20.0

Analytical Set 1097566 — EPA 8151

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP 2,4 D	1096859	ND	0.000159	0.0005	mg/L	125813712
TCLP 2,4,5-TP (Silvex)	1096859	ND	0.0000893	0.0003	mg/L	125813712
TCLP 2,4 D	1097168	ND	0.000159	0.0005	mg/L	125813707
TCLP 2,4,5-TP (Silvex)	1097168	ND	0.0000893	0.0003	mg/L	125813707

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP 2,4 D	0.142	0.150	mg/L	94.3	70.0 - 130	125813719
TCLP 2,4 D	0.152	0.150	mg/L	101	70.0 - 130	125813718
TCLP 2,4,5-TP (Silvex)	0.156	0.150	mg/L	104	70.0 - 130	125813719
TCLP 2,4,5-TP (Silvex)	0.176	0.150	mg/L	118	70.0 - 130	125813718

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
TCLP 2,4 D	1097168	0.000956	0.00106	0.001	2.06 - 194	95.6	106	mg/L	10.3	30.0
TCLP 2,4,5-TP (Silvex)	1097168	0.000939	0.00104	0.001	19.3 - 162	93.9	104	mg/L	10.2	30.0

MS

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
TCLP 2,4 D	2258854	0.828	0	ND	1.00	0.100 - 228	82.8		mg/L		30.0
TCLP 2,4,5-TP (Silvex)	2258854	0.834	0	ND	1.00	2.02 - 165	83.4		mg/L		30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
2,4-Dichlorophenylacetic Acid		CCV	0.148	0.200	mg/L	74.0	0.100 - 294	125813719

QUALITY CONTROL

DETX-R

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Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
2,4-Dichlorophenylacetic Acid		CCV	0.164	0.200	mg/L	82.0	0.100 - 294	125813718
2,4-Dichlorophenylacetic Acid	1096859	Blank	0.127	0.200	mg/L	63.5	0.100 - 294	125813712
2,4-Dichlorophenylacetic Acid	1097168	Blank	0.120	0.200	mg/L	60.0	0.100 - 294	125813707
2,4-Dichlorophenylacetic Acid	1097168	LCS	0.125	0.200	mg/L	62.5	0.100 - 294	125813708
2,4-Dichlorophenylacetic Acid	1097168	LCS Dup	0.139	0.200	mg/L	69.5	0.100 - 294	125813709
2,4-Dichlorophenylacetic Acid	2258852	Unknown	0.953	2.00	mg/L	47.6	0.100 - 294	125813715
2,4-Dichlorophenylacetic Acid	2258854	MS	1.12	2.00	mg/L	56.0	0.100 - 294	125813717

Analytical Set 1097586 EPA 8260B

BFB

Parameter	Sample	RefMass	Reading	%	Limits%	File
BFB Mass 173	1097586	174	193	0.9	0 - 2.00	125814141
BFB Mass 174	1097586	95.0	20461	73.2	50.0 - 100	125814141
BFB Mass 175	1097586	174	1557	7.6	5.00 - 9.00	125814141
BFB Mass 176	1097586	174	19901	97.3	95.0 - 101	125814141
BFB Mass 177	1097586	176	1334	6.7	5.00 - 9.00	125814141
BFB Mass 50	1097586	95.0	4739	16.9	15.0 - 40.0	125814141
BFB Mass 75	1097586	95.0	12683	45.4	30.0 - 60.0	125814141
BFB Mass 95	1097586	95.0	27963	100.0	100 - 100	125814141
BFB Mass 96	1097586	95.0	1815	6.5	5.00 - 9.00	125814141

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP 1,1-Dichloroethene	1097586	ND	0.000812	0.001	mg/L	125814145
TCLP 1,1-Dichloroethene	1097586	ND	0.000812	0.001	mg/L	125814146
TCLP 1,1-Dichloroethene	1097586	ND	0.000812	0.001	mg/L	125814147
TCLP 1,2-Dichloroethane	1097586	ND	0.000856	0.001	mg/L	125814145
TCLP 1,2-Dichloroethane	1097586	ND	0.000856	0.001	mg/L	125814146
TCLP 1,2-Dichloroethane	1097586	ND	0.000856	0.001	mg/L	125814147
TCLP 1,4 Dichlorobenzene	1097586	ND	0.000865	0.001	mg/L	125814145
TCLP 1,4 Dichlorobenzene	1097586	ND	0.000865	0.001	mg/L	125814146
TCLP 1,4 Dichlorobenzene	1097586	ND	0.000865	0.001	mg/L	125814147
TCLP Benzene	1097586	ND	0.000813	0.001	mg/L	125814145
TCLP Benzene	1097586	ND	0.000813	0.001	mg/L	125814146
TCLP Benzene	1097586	ND	0.000813	0.001	mg/L	125814147
TCLP Carbon tetrachloride	1097586	ND	0.000825	0.001	mg/L	125814145
TCLP Carbon tetrachloride	1097586	ND	0.000825	0.001	mg/L	125814146
TCLP Carbon tetrachloride	1097586	ND	0.000825	0.001	mg/L	125814147
TCLP Chlorobenzene	1097586	ND	0.000945	0.001	mg/L	125814145
TCLP Chlorobenzene	1097586	ND	0.000945	0.001	mg/L	125814146
TCLP Chlorobenzene	1097586	ND	0.000945	0.001	mg/L	125814147
TCLP Chloroform	1097586	ND	0.000945	0.001	mg/L	125814145
TCLP Chloroform	1097586	ND	0.000945	0.001	mg/L	125814146
TCLP Chloroform	1097586	ND	0.000945	0.001	mg/L	125814147
TCLP MEK	1097586	ND	0.00654	0.010	mg/L	125814145

QUALITY CONTROL

DETX-R

Denali Water
Tony Castillo
15308 Bass 3 Lane
Harlingen, TX 78552

Project
1085420

Printed 01/09/2024

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP MEK	1097586	ND	0.00654	0.010	mg/L	125814146
TCLP MEK	1097586	ND	0.00654	0.010	mg/L	125814147
TCLP Tetrachloroethylene	1097586	ND	0.000921	0.001	mg/L	125814145
TCLP Tetrachloroethylene	1097586	ND	0.000921	0.001	mg/L	125814146
TCLP Tetrachloroethylene	1097586	ND	0.000921	0.001	mg/L	125814147
TCLP Trichloroethylene	1097586	ND	0.000789	0.001	mg/L	125814145
TCLP Trichloroethylene	1097586	ND	0.000789	0.001	mg/L	125814146
TCLP Trichloroethylene	1097586	ND	0.000789	0.001	mg/L	125814147
TCLP Vinyl chloride	1097586	ND	0.00104	0.00104	mg/L	125814145
TCLP Vinyl chloride	1097586	ND	0.00104	0.00104	mg/L	125814146
TCLP Vinyl chloride	1097586	ND	0.00104	0.00104	mg/L	125814147

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP 1,1-Dichloroethene	0.0215	0.020	mg/L	108	70.0 - 130	125814142
TCLP 1,2-Dichloroethane	0.0208	0.020	mg/L	104	70.0 - 130	125814142
TCLP 1,4 Dichlorobenzene	0.0203	0.020	mg/L	102	70.0 - 130	125814142
TCLP Benzene	0.021	0.020	mg/L	105	70.0 - 130	125814142
TCLP Carbon tetrachloride	0.0215	0.020	mg/L	108	70.0 - 130	125814142
TCLP Chlorobenzene	0.0211	0.020	mg/L	106	70.0 - 130	125814142
TCLP Chloroform	0.0212	0.020	mg/L	106	70.0 - 130	125814142
TCLP MEK	0.0176	0.020	mg/L	88.0	70.0 - 130	125814142
TCLP Tetrachloroethylene	0.0218	0.020	mg/L	109	70.0 - 130	125814142
TCLP Trichloroethylene	0.0208	0.020	mg/L	104	70.0 - 130	125814142
TCLP Vinyl chloride	0.0255	0.020	mg/L	128	70.0 - 130	125814142

IS Areas

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
1,4-DichlorobenzeneD4 (ISTD)	1097586	CCV	125400	125400	87770	163000	125814142	1097586
1,4-DichlorobenzeneD4 (ISTD)	1097586	LCS	130300	125400	87770	163000	125814143	1097586
1,4-DichlorobenzeneD4 (ISTD)	1097586	LCS Dup	127400	125400	87770	163000	125814144	1097586
1,4-DichlorobenzeneD4 (ISTD)	1097586	Blank	121300	125400	87770	163000	125814145	1097586
1,4-DichlorobenzeneD4 (ISTD)	1097586	Blank	106200	125400	87770	163000	125814146	1097586
1,4-DichlorobenzeneD4 (ISTD)	1097586	Blank	100200	125400	87770	163000	125814147	1097586
ChlorobenzeneD5 (ISTD)	1097586	CCV	234400	234400	164000	304700	125814142	1097586
ChlorobenzeneD5 (ISTD)	1097586	LCS	249300	234400	164000	304700	125814143	1097586
ChlorobenzeneD5 (ISTD)	1097586	LCS Dup	241400	234400	164000	304700	125814144	1097586
ChlorobenzeneD5 (ISTD)	1097586	Blank	247700	234400	164000	304700	125814145	1097586
ChlorobenzeneD5 (ISTD)	1097586	Blank	218300	234400	164000	304700	125814146	1097586
ChlorobenzeneD5 (ISTD)	1097586	Blank	213700	234400	164000	304700	125814147	1097586

IS RetTime

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
1,4-DichlorobenzeneD4 (ISTD)	1097586	LCS	11.09	11.09	11.03	11.15	125814143	1097586
1,4-DichlorobenzeneD4 (ISTD)	1097586	LCS Dup	11.09	11.09	11.03	11.15	125814144	1097586
1,4-DichlorobenzeneD4 (ISTD)	1097586	Blank	11.09	11.09	11.03	11.15	125814145	1097586

QUALITY CONTROL

DETX-R

Denali Water
Tony Castillo
15308 Bass 3 Lane
Harlingen, TX 78552

Project
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IS RetTime

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
1,4-DichlorobenzeneD4 (ISTD)	1097586	Blank	11.09	11.09	11.03	11.15	125814146	1097586
1,4-DichlorobenzeneD4 (ISTD)	1097586	Blank	11.09	11.09	11.03	11.15	125814147	1097586
ChlorobenzeneD5 (ISTD)	1097586	LCS	8.735	8.735	8.675	8.795	125814143	1097586
ChlorobenzeneD5 (ISTD)	1097586	LCS Dup	8.735	8.735	8.675	8.795	125814144	1097586
ChlorobenzeneD5 (ISTD)	1097586	Blank	8.735	8.735	8.675	8.795	125814145	1097586
ChlorobenzeneD5 (ISTD)	1097586	Blank	8.741	8.735	8.675	8.795	125814146	1097586
ChlorobenzeneD5 (ISTD)	1097586	Blank	8.735	8.735	8.675	8.795	125814147	1097586

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
TCLP 1,1-Dichloroethene	1097586	0.013	0.0132	0.020	56.7 - 135	65.0	66.0	mg/L	1.53	30.0
TCLP 1,2-Dichloroethane	1097586	0.018	0.0181	0.020	69.8 - 132	90.0	90.5	mg/L	0.554	30.0
TCLP 1,4 Dichlorobenzene	1097586	0.0184	0.0184	0.020	74.8 - 116	92.0	92.0	mg/L	0	30.0
TCLP Benzene	1097586	0.0167	0.0167	0.020	67.1 - 123	83.5	83.5	mg/L	0	30.0
TCLP Carbon tetrachloride	1097586	0.0174	0.0178	0.020	60.1 - 132	87.0	89.0	mg/L	2.27	30.0
TCLP Chlorobenzene	1097586	0.0182	0.0186	0.020	74.0 - 115	91.0	93.0	mg/L	2.17	30.0
TCLP Chloroform	1097586	0.0175	0.0176	0.020	71.1 - 128	87.5	88.0	mg/L	0.570	30.0
TCLP MEK	1097586	0.0225	0.0199	0.020	40.7 - 166	112	99.5	mg/L	11.8	30.0
TCLP Tetrachloroethylene	1097586	0.0174	0.0173	0.020	71.2 - 126	87.0	86.5	mg/L	0.576	30.0
TCLP Trichloroethylene	1097586	0.0164	0.0167	0.020	71.4 - 126	82.0	83.5	mg/L	1.81	30.0
TCLP Vinyl chloride	1097586	0.0113	0.012	0.020	18.5 - 155	56.5	60.0	mg/L	6.01	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
1,2-DCA-d4 (SURR)	1097586	CCV	0.020	0.020	mg/L	100	74.2 - 132	125814142
1,2-DCA-d4 (SURR)	1097586	LCS	0.0197	0.020	mg/L	98.5	74.2 - 132	125814143
1,2-DCA-d4 (SURR)	1097586	LCS Dup	0.0204	0.020	mg/L	102	74.2 - 132	125814144
1,2-DCA-d4 (SURR)	1097586	Blank	0.0207	0.020	mg/L	104	74.2 - 132	125814145
1,2-DCA-d4 (SURR)	1097586	Blank	0.0226	0.020	mg/L	113	74.2 - 132	125814146
1,2-DCA-d4 (SURR)	1097586	Blank	0.0225	0.020	mg/L	112	74.2 - 132	125814147
Bromofluorobenzene (SURR)	1097586	CCV	0.0202	0.020	mg/L	101	77.2 - 134	125814142
Bromofluorobenzene (SURR)	1097586	LCS	0.0204	0.020	mg/L	102	77.2 - 134	125814143
Bromofluorobenzene (SURR)	1097586	LCS Dup	0.0206	0.020	mg/L	103	77.2 - 134	125814144
Bromofluorobenzene (SURR)	1097586	Blank	0.0196	0.020	mg/L	98.0	77.2 - 134	125814145
Bromofluorobenzene (SURR)	1097586	Blank	0.0213	0.020	mg/L	106	77.2 - 134	125814146
Bromofluorobenzene (SURR)	1097586	Blank	0.0204	0.020	mg/L	102	77.2 - 134	125814147
Dibromofluoromethane (SURR)	1097586	CCV	0.020	0.020	mg/L	100	67.2 - 122	125814142
Dibromofluoromethane (SURR)	1097586	LCS	0.020	0.020	mg/L	100	67.2 - 122	125814143
Dibromofluoromethane (SURR)	1097586	LCS Dup	0.0201	0.020	mg/L	100	67.2 - 122	125814144
Dibromofluoromethane (SURR)	1097586	Blank	0.0204	0.020	mg/L	102	67.2 - 122	125814145
Dibromofluoromethane (SURR)	1097586	Blank	0.0214	0.020	mg/L	107	67.2 - 122	125814146
Dibromofluoromethane (SURR)	1097586	Blank	0.021	0.020	mg/L	105	67.2 - 122	125814147
ToluneneD8 (SURR)	1097586	CCV	0.0202	0.020	mg/L	101	69.2 - 122	125814142
ToluneneD8 (SURR)	1097586	LCS	0.0201	0.020	mg/L	100	69.2 - 122	125814143
ToluneneD8 (SURR)	1097586	LCS Dup	0.0203	0.020	mg/L	102	69.2 - 122	125814144

QUALITY CONTROL

DETX-R

Denali Water
Tony Castillo
15308 Bass 3 Lane
Harlingen, TX 78552

Project
1085420

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Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
TolueneD8 (SURR)	1097586	Blank	0.0195	0.020	mg/L	97.5	69.2 - 122	125814145
TolueneD8 (SURR)	1097586	Blank	0.0203	0.020	mg/L	102	69.2 - 122	125814146
TolueneD8 (SURR)	1097586	Blank	0.0199	0.020	mg/L	99.5	69.2 - 122	125814147
1,2-DCA-d4 (SURR)	2258852	Unknown	0.0217	0.020	mg/L	108	74.2 - 132	125814150
Bromofluorobenzene (SURR)	2258852	Unknown	0.0197	0.020	mg/L	98.5	77.2 - 134	125814150
Dibromofluoromethane (SURR)	2258852	Unknown	0.0215	0.020	mg/L	108	67.2 - 122	125814150
TolueneD8 (SURR)	2258852	Unknown	0.0192	0.020	mg/L	96.0	69.2 - 122	125814150

Analytical Set 1097822 EPA 8270C

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP 2,4,5-Trichlorophenol	1096859	ND	0.000734	0.001	mg/L	125819893
TCLP 2,4,6-Trichlorophenol	1096859	ND	0.000704	0.001	mg/L	125819893
TCLP 2,4-Dinitrotoluene	1096859	ND	0.00335	0.0035	mg/L	125819893
TCLP 2-Methylphenol (o-Cresol)	1096859	ND	0.00513	0.0052	mg/L	125819893
TCLP 3&4-Methylphenol (m&p-Creso	1096859	ND	0.00615	0.0062	mg/L	125819893
TCLP Hexachlorobenzene	1096859	ND	0.000187	0.001	mg/L	125819893
TCLP Hexachlorobutadiene	1096859	ND	0.000618	0.001	mg/L	125819893
TCLP Hexachloroethane	1096859	ND	0.000789	0.001	mg/L	125819893
TCLP Nitrobenzene	1096859	ND	0.00039	0.001	mg/L	125819893
TCLP Pentachlorophenol	1096859	ND	0.000129	0.001	mg/L	125819893
TCLP Pyridine (Reg. Limit 5)	1096859	ND	0.00533	0.0054	mg/L	125819893
TCLP 2,4,5-Trichlorophenol	1097026	ND	0.000734	0.001	mg/L	125819886
TCLP 2,4,6-Trichlorophenol	1097026	ND	0.000704	0.001	mg/L	125819886
TCLP 2,4-Dinitrotoluene	1097026	ND	0.00335	0.0035	mg/L	125819886
TCLP 2-Methylphenol (o-Cresol)	1097026	ND	0.00513	0.0052	mg/L	125819886
TCLP 3&4-Methylphenol (m&p-Creso	1097026	ND	0.00615	0.0062	mg/L	125819886
TCLP Hexachlorobenzene	1097026	ND	0.000187	0.001	mg/L	125819886
TCLP Hexachlorobutadiene	1097026	ND	0.000618	0.001	mg/L	125819886
TCLP Hexachloroethane	1097026	ND	0.000789	0.001	mg/L	125819886
TCLP Nitrobenzene	1097026	ND	0.00039	0.001	mg/L	125819886
TCLP Pentachlorophenol	1097026	ND	0.000129	0.001	mg/L	125819886
TCLP Pyridine (Reg. Limit 5)	1097026	ND	0.00533	0.0054	mg/L	125819886

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
TCLP 2,4,5-Trichlorophenol	1097026	0.0186	0.0172	0.025	39.3 - 111	74.4	68.8	mg/L	7.82	30.0
TCLP 2,4,6-Trichlorophenol	1097026	0.0162	0.0156	0.025	38.2 - 109	64.8	62.4	mg/L	3.77	30.0
TCLP 2,4-Dinitrotoluene	1097026	0.0187	0.0157	0.025	36.3 - 132	74.8	62.8	mg/L	17.4	30.0
TCLP 2-Methylphenol (o-Cresol)	1097026	0.0168	0.014	0.025	23.0 - 87.8	67.2	56.0	mg/L	18.2	30.0
TCLP 3&4-Methylphenol (m&p-Creso	1097026	0.0157	0.0148	0.025	14.9 - 92.5	62.8	59.2	mg/L	5.90	30.0
TCLP Hexachlorobenzene	1097026	0.0244	0.0209	0.025	44.4 - 117	97.6	83.6	mg/L	15.5	30.0
TCLP Hexachlorobutadiene	1097026	0.018	0.0143	0.025	17.2 - 88.9	72.0	57.2	mg/L	22.9	30.0
TCLP Hexachloroethane	1097026	0.020	0.0154	0.025	14.6 - 88.8	80.0	61.6	mg/L	26.0	30.0
TCLP Nitrobenzene	1097026	0.0206	0.0173	0.025	34.3 - 113	82.4	69.2	mg/L	17.4	30.0

QUALITY CONTROL

DETX-R

Denali Water
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Project
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LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
TCLP Pentachlorophenol	1097026	0.0159	0.0131	0.025	15.7 - 129	63.6	52.4	mg/L	19.3	30.0
TCLP Pyridine (Reg. Limit 5)	1097026	0.0128	0.0104	0.025	0.0753 - 83.4	51.2	41.6	mg/L	20.7	30.0

MS

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
TCLP 2,4,5-Trichlorophenol	2257864	0.189	0	ND	0.250	33.7 - 116	75.6		mg/L		30.0
TCLP 2,4,6-Trichlorophenol	2257864	0.170	0	ND	0.250	20.1 - 131	68.0		mg/L		30.0
TCLP 2,4-Dinitrotoluene	2257864	0.171	0	ND	0.250	31.8 - 135	68.4		mg/L		30.0
TCLP 2-Methylphenol (o-Cresol)	2257864	0.163	0	ND	0.250	10.6 - 106	65.2		mg/L		30.0
TCLP 3&4-Methylphenol (m&p-Creso	2257864	0.162	0	ND	0.250	0.100 - 149	64.8		mg/L		30.0
TCLP Hexachlorobenzene	2257864	0.250	0	ND	0.250	35.9 - 125	100		mg/L		30.0
TCLP Hexachlorobutadiene	2257864	0.191	0	ND	0.250	11.1 - 88.5	76.4		mg/L		30.0
TCLP Hexachloroethane	2257864	0.206	0	ND	0.250	8.41 - 88.1	82.4		mg/L		30.0
TCLP Nitrobenzene	2257864	0.177	0	ND	0.250	28.7 - 119	70.8		mg/L		30.0
TCLP Pentachlorophenol	2257864	0.191	0	ND	0.250	8.33 - 141	76.4		mg/L		30.0
TCLP Pyridine (Reg. Limit 5)	2257864	0.104	0	ND	0.250	0.100 - 97.2	41.6		mg/L		30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
2,4,6-Tribromophenol	1096859	Blank	2.10	3.33	mg/L	63.1	9.79 - 123	125819893
2-Fluorobiphenyl-SURR	1096859	Blank	35.2	50.0	mg/L	70.4	0.100 - 131	125819893
2-Fluorophenol-SURR	1096859	Blank	44.7	100	mg/L	44.7	5.36 - 80.2	125819893
4-Terphenyl-d14-SURR	1096859	Blank	42.5	50.0	mg/L	85.0	0.100 - 137	125819893
Nitrobenzene-d5-SURR	1096859	Blank	42.7	50.0	mg/L	85.4	0.100 - 131	125819893
Phenol-d6-SURR	1096859	Blank	35.7	100	mg/L	35.7	0.100 - 66.5	125819893

Analytical Set 1097899 EPA 8081A

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP Chlordane	1097169	ND	0.0183	0.020	mg/L	125821244
TCLP Endrin	1097169	ND	0.000538	0.001	mg/L	125821244
TCLP gamma-BHC (Lindane)	1097169	ND	0.000385	0.001	mg/L	125821244
TCLP Heptachlor	1097169	ND	0.000207	0.001	mg/L	125821244
TCLP Heptachlor Epoxide	1097169	ND	0.00066	0.001	mg/L	125821244
TCLP Methoxychlor	1097169	ND	0.000898	0.001	mg/L	125821244
TCLP Toxaphene	1097169	ND	0.000169	0.0002	mg/L	125821244

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Endrin	0.0482	0.050	mg/L	96.5	70.0 - 130	125821243
TCLP Endrin	0.0477	0.050	mg/L	95.4	70.0 - 130	125821255
TCLP gamma-BHC (Lindane)	0.0468	0.050	mg/L	93.6	70.0 - 130	125821243
TCLP gamma-BHC (Lindane)	0.0468	0.050	mg/L	93.7	70.0 - 130	125821255
TCLP Heptachlor	0.0456	0.050	mg/L	91.3	70.0 - 130	125821243
TCLP Heptachlor	0.0461	0.050	mg/L	92.3	70.0 - 130	125821255
TCLP Heptachlor Epoxide	0.0443	0.050	mg/L	88.7	70.0 - 130	125821243

QUALITY CONTROL

DETX-R

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CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Heptachlor Epoxide	0.0435	0.050	mg/L	87.0	70.0 - 130	125821255
TCLP Methoxychlor	0.0493	0.050	mg/L	98.5	70.0 - 130	125821243
TCLP Methoxychlor	0.0517	0.050	mg/L	103	70.0 - 130	125821255

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
TCLP Endrin	1097169	0.0726	0.0771	0.100	42.6 - 137	72.6	77.1	mg/L	6.01	30.0
TCLP gamma-BHC (Lindane)	1097169	0.071	0.0754	0.100	33.0 - 129	71.0	75.4	mg/L	6.01	30.0
TCLP Heptachlor	1097169	0.0653	0.0688	0.100	24.2 - 129	65.3	68.8	mg/L	5.22	30.0
TCLP Heptachlor Epoxide	1097169	0.0703	0.0743	0.100	40.8 - 128	70.3	74.3	mg/L	5.53	30.0
TCLP Methoxychlor	1097169	0.0762	0.0764	0.100	33.3 - 146	76.2	76.4	mg/L	0.262	30.0

MS

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
TCLP Endrin	2258851	0.00334	0	ND	0.005	24.3 - 151	66.8		mg/L		30.0
TCLP gamma-BHC (Lindane)	2258851	0.00322	0	ND	0.005	21.3 - 144	64.4		mg/L		30.0
TCLP Heptachlor	2258851	0.003	0	ND	0.005	14.9 - 138	60.0		mg/L		30.0
TCLP Heptachlor Epoxide	2258851	0.00321	0	ND	0.005	29.9 - 133	64.2		mg/L		30.0
TCLP Methoxychlor	2258851	0.00352	0	ND	0.005	10.3 - 183	70.4		mg/L		30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Decachlorobiphenyl	621878	CCV	0.0417	0.100	mg/L	41.7	10.0 - 150	125821243
Decachlorobiphenyl	621878	CCV	0.0429	0.100	mg/L	42.9	10.0 - 150	125821255
Tetrachloro-m-Xylene (Surr)	621878	CCV	0.045	0.100	mg/L	45.0	10.0 - 150	125821243
Tetrachloro-m-Xylene (Surr)	621878	CCV	0.0438	0.100	mg/L	43.8	10.0 - 150	125821255
Decachlorobiphenyl	1097169	Blank	0.0762	0.100	mg/L	76.2	10.0 - 150	125821244
Decachlorobiphenyl	1097169	LCS	0.0829	0.100	mg/L	82.9	10.0 - 150	125821245
Decachlorobiphenyl	1097169	LCS Dup	0.0819	0.100	mg/L	81.9	10.0 - 150	125821246
Tetrachloro-m-Xylene (Surr)	1097169	Blank	0.0564	0.100	mg/L	56.4	10.0 - 150	125821244
Tetrachloro-m-Xylene (Surr)	1097169	LCS	0.056	0.100	mg/L	56.0	10.0 - 150	125821245
Tetrachloro-m-Xylene (Surr)	1097169	LCS Dup	0.0609	0.100	mg/L	60.9	10.0 - 150	125821246
Decachlorobiphenyl	2258851	MS	0.00338	0.005	mg/L	67.6	10.0 - 150	125821254
Tetrachloro-m-Xylene (Surr)	2258851	MS	0.00262	0.005	mg/L	52.4	10.0 - 150	125821254

Analytical Set 1098144 EPA 8082

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
PCB-1016	1097678	ND	43.0	250	ug/kg	125828460
PCB-1221	1097678	ND	43.0	250	ug/kg	125828460
PCB-1232	1097678	ND	43.0	250	ug/kg	125828460
PCB-1242	1097678	ND	43.0	250	ug/kg	125828460
PCB-1248	1097678	ND	43.0	250	ug/kg	125828460
PCB-1254	1097678	ND	43.0	250	ug/kg	125828460
PCB-1260	1097678	ND	43.0	250	ug/kg	125828460

QUALITY CONTROL

DETX-R

Denali Water
Tony Castillo
15308 Bass 3 Lane
Harlingen, TX 78552

Project
1085420

Printed 01/09/2024

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
PCB-1016	1010	1000	ug/kg	101	80.0 - 120	125828459
PCB-1016	1150	1000	ug/kg	115	80.0 - 120	125828471
PCB-1260	1060	1000	ug/kg	106	80.0 - 120	125828459
PCB-1260	1120	1000	ug/kg	112	80.0 - 120	125828471

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
PCB-1016	1097678	5130	4980	5000	28.4 - 187	103	99.6	ug/kg	3.36	30.0
PCB-1260	1097678	5190	5440	5000	22.3 - 183	104	109	ug/kg	4.69	30.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
PCB-1016	2259851	5200	5480	ND	5000	0.100 - 427	104	110	ug/kg	5.24	30.0
PCB-1260	2259851	5180	5390	ND	5000	0.100 - 470	104	108	ug/kg	3.97	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Decachlorobiphenyl	1097678	Blank	131	100	ug/kg	131	10.0 - 200	125828460
Tetrachloro-m-Xylene (Surr)	1097678	Blank	128	100	ug/kg	128	10.0 - 160	125828460
Decachlorobiphenyl	2258852	Unknown	374	503	ug/kg	74.4	10.0 - 200	125828466
Tetrachloro-m-Xylene (Surr)	2258852	Unknown	501	503	ug/kg	99.6	10.0 - 160	125828466

Analytical Set 1098289 — EPA 8270C

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP 2,4,5-Trichlorophenol	46.1	50.0	mg/L	92.2	70.0 - 130	125834543
TCLP 2,4,6-Trichlorophenol	45.3	50.0	mg/L	90.6	70.0 - 130	125834543
TCLP 2,4-Dinitrotoluene	45.2	50.0	mg/L	90.4	70.0 - 130	125834543
TCLP 2-Methylphenol (o-Cresol)	46.7	50.0	mg/L	93.4	70.0 - 130	125834543
TCLP 3&4-Methylphenol (m&p-Creso	53.3	50.0	mg/L	107	70.0 - 130	125834543
TCLP Hexachlorobenzene	53.8	50.0	mg/L	108	70.0 - 130	125834543
TCLP Hexachlorobutadiene	56.2	50.0	mg/L	112	70.0 - 130	125834543
TCLP Hexachloroethane	53.3	50.0	mg/L	107	70.0 - 130	125834543
TCLP Nitrobenzene	49.7	50.0	mg/L	99.3	70.0 - 130	125834543
TCLP Pentachlorophenol	49.3	50.0	mg/L	98.5	70.0 - 130	125834543
TCLP Pyridine (Reg. Limit 5)	44.2	50.0	mg/L	88.5	70.0 - 130	125834543

DFTPP

Parameter		RefMass	Reading	%	Limits%	File
DFTPP Mass 127	621999	198	23318	50.6	40.0 - 60.0	125834542
DFTPP Mass 197	621999	198	0	0.0	0 - 1.00	125834542
DFTPP Mass 198	621999	198	46081	100.0	100 - 100	125834542
DFTPP Mass 199	621999	198	3057	6.6	5.00 - 9.00	125834542
DFTPP Mass 275	621999	198	13579	29.5	10.0 - 30.0	125834542
DFTPP Mass 365	621999	198	4126	9.0	1.00 - 100	125834542
DFTPP Mass 441	621999	443	5740	81.0	0 - 100	125834542

QUALITY CONTROL

DETX-R

Denali Water
Tony Castillo
15308 Bass 3 Lane
Harlingen, TX 78552

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DFTPP

Parameter		RefMass	Reading	%	Limits%		File
DFTPP Mass 442	621999	198	36336	78.9	40.0 - 100		125834542
DFTPP Mass 443	621999	442	7086	19.5	17.0 - 23.0		125834542
DFTPP Mass 51	621999	198	24254	52.6	30.0 - 60.0		125834542
DFTPP Mass 68	621999	69.0	286	1.6	0 - 2.00		125834542
DFTPP Mass 69	621999	198	18154	39.4	0 - 100		125834542
DFTPP Mass 70	621999	69.0	107	0.6	0 - 2.00		125834542

IS Areas

Parameter	Sample	Type	Reading	CCVISM	Low	High		File	PrepSet
1,4-Dichlorobenzene-d4-ISTD	621350	CCV	95450	95450	47730	143200		125834543	621350
Acenaphthene-d10-ISTD	621350	CCV	195300	195300	97660	293000		125834543	621350
Naphthalene-d8-ISTD	621350	CCV	331500	331500	165700	497200		125834543	621350
Phenanthrene-d10-ISTD	621350	CCV	236900	236900	118500	355400		125834543	621350
1,4-Dichlorobenzene-d4-ISTD	2258852	Unknown	43940	95450	47730	143200	*	125834550	1097026
Acenaphthene-d10-ISTD	2258852	Unknown	70300	195300	97660	293000	*	125834550	1097026
Naphthalene-d8-ISTD	2258852	Unknown	149200	331500	165700	497200	*	125834550	1097026
Phenanthrene-d10-ISTD	2258852	Unknown	91630	236900	118500	355400	*	125834550	1097026

IS RetTime

Parameter	Sample	Type	Reading	CCVISM	Low	High		File	PrepSet
1,4-Dichlorobenzene-d4-ISTD	621350	CCV	8.980	8.980	8.920	9.040		125834543	621350
Acenaphthene-d10-ISTD	621350	CCV	15.53	15.53	15.47	15.59		125834543	621350
Naphthalene-d8-ISTD	621350	CCV	11.57	11.57	11.51	11.63		125834543	621350
Phenanthrene-d10-ISTD	621350	CCV	18.01	18.01	17.95	18.07		125834543	621350
1,4-Dichlorobenzene-d4-ISTD	2258852	Unknown	8.980	8.980	8.920	9.040		125834550	1097026
Acenaphthene-d10-ISTD	2258852	Unknown	15.52	15.53	15.47	15.59		125834550	1097026
Naphthalene-d8-ISTD	2258852	Unknown	11.56	11.57	11.51	11.63		125834550	1097026
Phenanthrene-d10-ISTD	2258852	Unknown	18.00	18.01	17.95	18.07		125834550	1097026

SPCC

Parameter	Sample	RF	Minimum	File
TCLP 2,4-Dinitrophenol	621350	42.8	0.050	125834543
TCLP 4-Nitrophenol	621350	49.2	0.050	125834543
TCLP Hexachlorocyclopentadiene	621350	44.1	0.050	125834543
TCLP N-Nitroso-n-propylamine	621350	51.6	0.050	125834543

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
2,4,6-Tribromophenol	621350	CCV	53.9	100	mg/L	53.9	9.79 - 123	125834543
2-Fluorobiphenyl-SURR	621350	CCV	48.5	50.0	mg/L	97.0	0.100 - 131	125834543
2-Fluorophenol-SURR	621350	CCV	60.4	100	mg/L	60.4	5.36 - 80.2	125834543
4-Terphenyl-d14-SURR	621350	CCV	55.5	50.0	mg/L	111	0.100 - 137	125834543
Nitrobenzene-d5-SURR	621350	CCV	48.3	50.0	mg/L	96.6	0.100 - 131	125834543
Phenol-d6-SURR	621350	CCV	50.1	100	mg/L	50.1	0.100 - 66.5	125834543
2,4,6-Tribromophenol	2258852	Unknown	0.691	1.00	mg/L	69.1	9.79 - 123	125834550
2-Fluorobiphenyl-SURR	2258852	Unknown	0.402	0.500	mg/L	80.4	0.100 - 131	125834550

QUALITY CONTROL

DETX-R

Denali Water
Tony Castillo
15308 Bass 3 Lane
Harlingen, TX 78552

Project
1085420

Printed 01/09/2024

Surrogate

Parameter	*Sample*	*Type*	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
2-Fluorophenol-SURR	2258852	Unknown	0.512	1.00	mg/L	51.2	5.36 - 80.2	125834550
4-Terphenyl-d14-SURR	2258852	Unknown	0.404	0.500	mg/L	80.8	0.100 - 137	125834550
Nitrobenzene-d5-SURR	2258852	Unknown	0.338	0.500	mg/L	67.6	0.100 - 131	125834550
Phenol-d6-SURR	2258852	Unknown	0.268	1.00	mg/L	26.8	0.100 - 66.5	125834550

* Out RPD is Relative Percent Difference: abs(r1-r2) / mean(r1,r2) * 100% Recover% is Recovery Percent: result / known * 100%

Blank - Method Blank (reagent water or other blank matrices that contains all reagents except standard(s) and is processed simultaneously with and under the same conditions as samples; carried through preparation and analytical procedures exactly like a sample; monitors); CCV - Continuing Calibration Verification (same standard used to prepare the curve; typically a mid-range concentration; verifies the continued validity of the calibration curve); MSD - Matrix Spike Duplicate (replicate of the matrix spike; same solution and amount of target analyte added to the MS is added to a third aliquot of sample; quantifies matrix bias and precision.); LCS Dup - Laboratory Control Sample Duplicate (replicate LCS; analyzed when there is insufficient sample for duplicate or MSD; quantifies accuracy and precision.); ICV - Initial Calibration Verification; MS - Matrix Spike (same solution and amount of target analyte added to the LCS is added to a second aliquot of sample; quantifies matrix bias.); Surrogate - Surrogate (mimics the analyte of interest but is unlikely to be found in environmental samples; added to analytical samples for QC purposes. **ANSI/ASQC E4 1994 Ref #4 TRADE QA Resources Guide.); BFB - Bromofluorobenzene, GC/MS Tuning Compound (mass intensity used as tuning acceptance criteria.); IS Areas - Internal Standard Area (The area of the internal stadard relative to a check standard. Internal Standard is a known concentration of an analyte(s) that is not a sample component or standard that is added to the sample and standard and is used to measure the relative responses of other analytes in the same sample or standard.); IS RetTime - Internal Standard Retention Time (the time the internal standard comes off the column. Internal Stardard is a known concentration of an analyte(s) that is not a sample component or standard that is added to the sample and standard and is used to measure the relative responses of other analytes in the same sample or standard.); LDR - Linear Dynamic Range Standard; DFTPP - GC/MS Tuning Compound

PUP FEES 0.00 TT
SUB:
ALL CLIENT COCs ON SINGLE
PROJECT YES

ANA-LAB CORP. THE COMPLETE SERVICE LAB

Chain of Custody

Shipping: 2600 Dudley · Kilgore TX 75662 Mailing: P.O. BOX 9000 · Kilgore, TX 75663-9000
Phone (903) 984-0551 · Fax (903) 984-5914 · Email: corp@ana-lab.com

Abilene 325.669.2422 | ArkLaMiss 318.219.9300 | Central TX 512.621.0045 | Gulf Coast 281.333.9414 | New Orleans 504.330.0021 | North TX 817.261.6404 | Oklahoma 405.292.6830 | Panhandle 806.355.3556 | Rio Grande Valley 956.631.6437

Client Code: DETX

Page 1 of 2

Report to: Tony Castillo
Project- Name/Location: San Benito WTP #2
Company name: Denali Water
Client Code: DETX
Billing (if different):
Address: 3308 Bernice Ave
City: Russellville State: AR Zip: 72802
City State Zip
Phone: 956 483 9029 Fax: E-mail:
Phone Fax
Sampler Signature: T Castillo
Printed Name: Tony Castillo
Affiliation: Mgr Env Svcs
PO Number

□Wastewater □ Drinking Water □SW846
Analysis Requested

Lab Number Do Not Use	Field Identification	Date	Time	Matrix	# of Containers		Comments	Hill RST
1258852	San Benito WTP #2	12/20/23	1245	solid	1	Comp/Grab		✓
						Comp/Grab		
						Comp/Grab		
						Comp/Grab		
						Comp/Grab		
						Comp/Grab		
						Comp/Grab		
						Comp/Grab		
						Comp/Grab		
						Comp/Grab		

Date	Time	Relinquished by: Printed Name	Signature	Affiliation	Received by: Printed Name	Signature	Affiliation
12/20/23	14:00	Tony Castillo	T Castillo	Mgr Env. Svcs	Frank Gamez III - SPL, Inc.		
12/21/23	17:30	Frank Gamez III - SPL, Inc.			FedEx		
12/22/23	11:00	FedEx			Jennifer Garrett SPL, Inc.		

Samples Received on Ice? ☑ Yes □ No Method of Shipment: ☑ FedEx □ LoneStar □ UPS □ Hand Delivered □ DHL □ Clemens □ Other

Cooler/Sample Secure? ☑ Yes □ No Requested TAT: ☑ Routine □ 3-Day □ 2-Day □ Next Day Samples Contain: □ HF □ Cyanide □ Sulfide

Comments:

Tracking or Shipping Number _____
Ana-Lab Personnel collect samples as specified by Ana-Lab SOP #000323.

Samples analysis will be provided according to Ana-Lab/'s Standard Terms and Conditions of Agreement, available upon request and at www.ana-lab.com. Any other terms proposed by client are deemed material alterations and are rejected unless expressly agreed to in writing by Ana-Lab.

J:\word\SOP\Active_Generic_COC_06.doc Issue Date: 03/27/2019 Effective Date: 04/01/2019

tony.castillo@denaliwater.com

TCEQ ANALYTICAL REQUIREMENTS - WWTP SLUDGE

2/2
San Benito WTP #2
12/20/23
R-114

NUTRIENTS AND TOTAL METALS	REPORT AS
TKN	% dry weight
NH4-N	% dry weight
NO3-N	% dry weight
P	% dry weight
K	% dry weight
As	mg/kg dry weight
Cd	mg/kg dry weight
Cr	mg/kg dry weight
Cu	mg/kg dry weight
Pb	mg/kg dry weight
Hg	mg/kg dry weight
Mo	mg/kg dry weight
Ni	mg/kg dry weight
Se	mg/kg dry weight
Zn	mg/kg dry weight
PCBs	mg/kg dry weight
TCLP	full TCLP, including VOCs, Pesticides, Herbicides

[redacted]

ORIGIN ID:HRLA (555) 555-5555
ANA LAB / RGV
2401 VILLAGE DR STE C
BROWNSVILLE, TX 78521
UNITED STATES US

SHIP DATE: 21
ACTWGT: 79.90
CAD: 6994257/
DIMS: 24x14x1
BILL THIRD PA

TO LOGIN
SPL
2600 DUDLEY RD

KILGORE TX 75662
(555) 555-5555 REF:
INV:
PO: DEPT:

FRI - 22 DEC
PRIORITY OVERN

TRK# 0200 8171 3104 2370

AH GGGA

TX-S

12/22 1135 CP
Date Time Tech
Temp: 1.9 / 1.8 C
Therm#: 6443 Corr Fact: -0.1 C

644

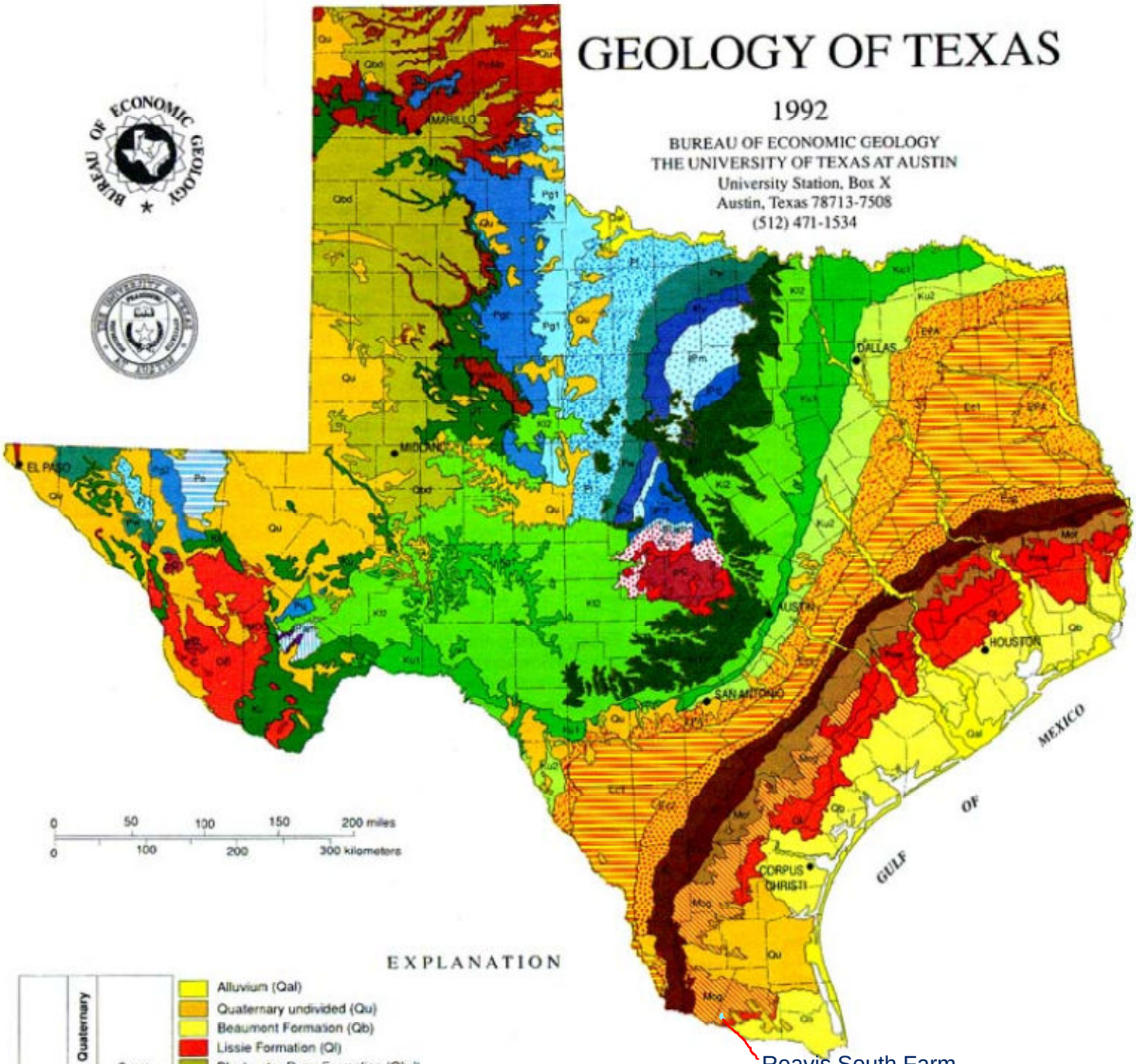
<u>Attachment 16.</u>

Hydraulic Maps

GEOLOGY OF TEXAS

1992

BUREAU OF ECONOMIC GEOLOGY
THE UNIVERSITY OF TEXAS AT AUSTIN
University Station, Box X
Austin, Texas 78713-7508
(512) 471-1534

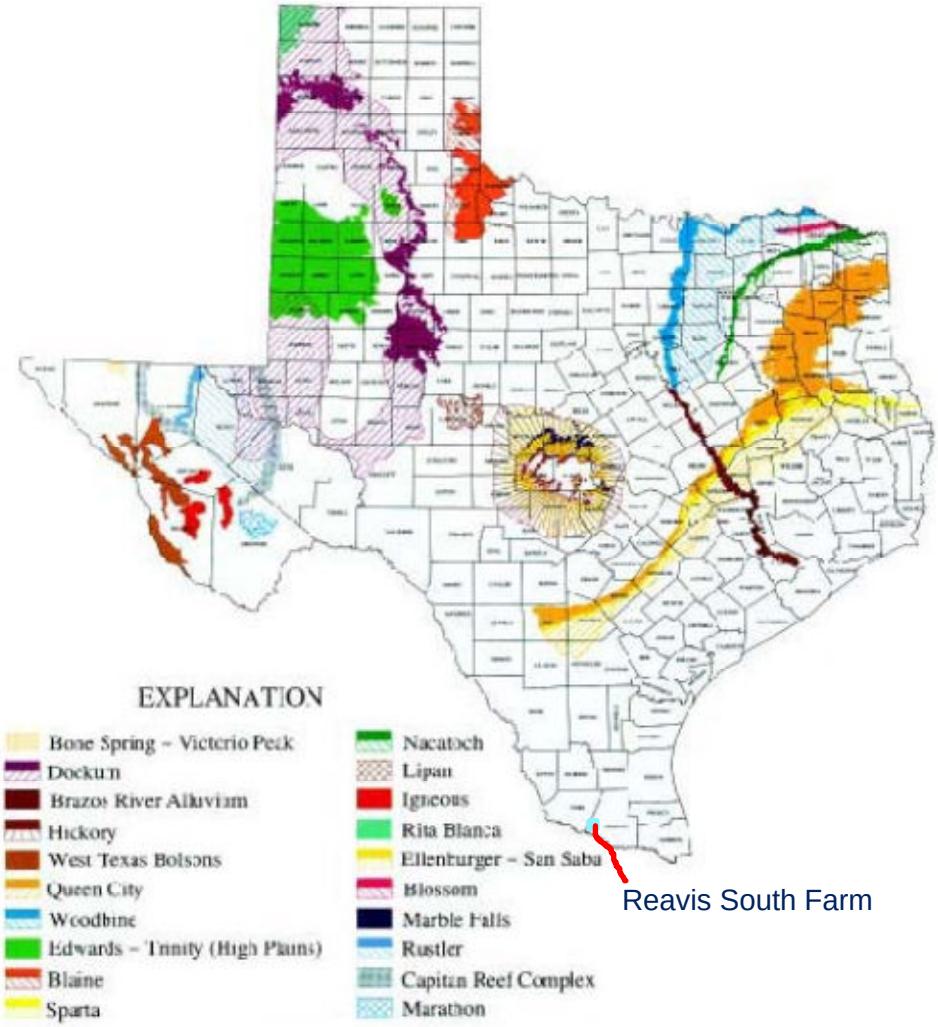


EXPLANATION

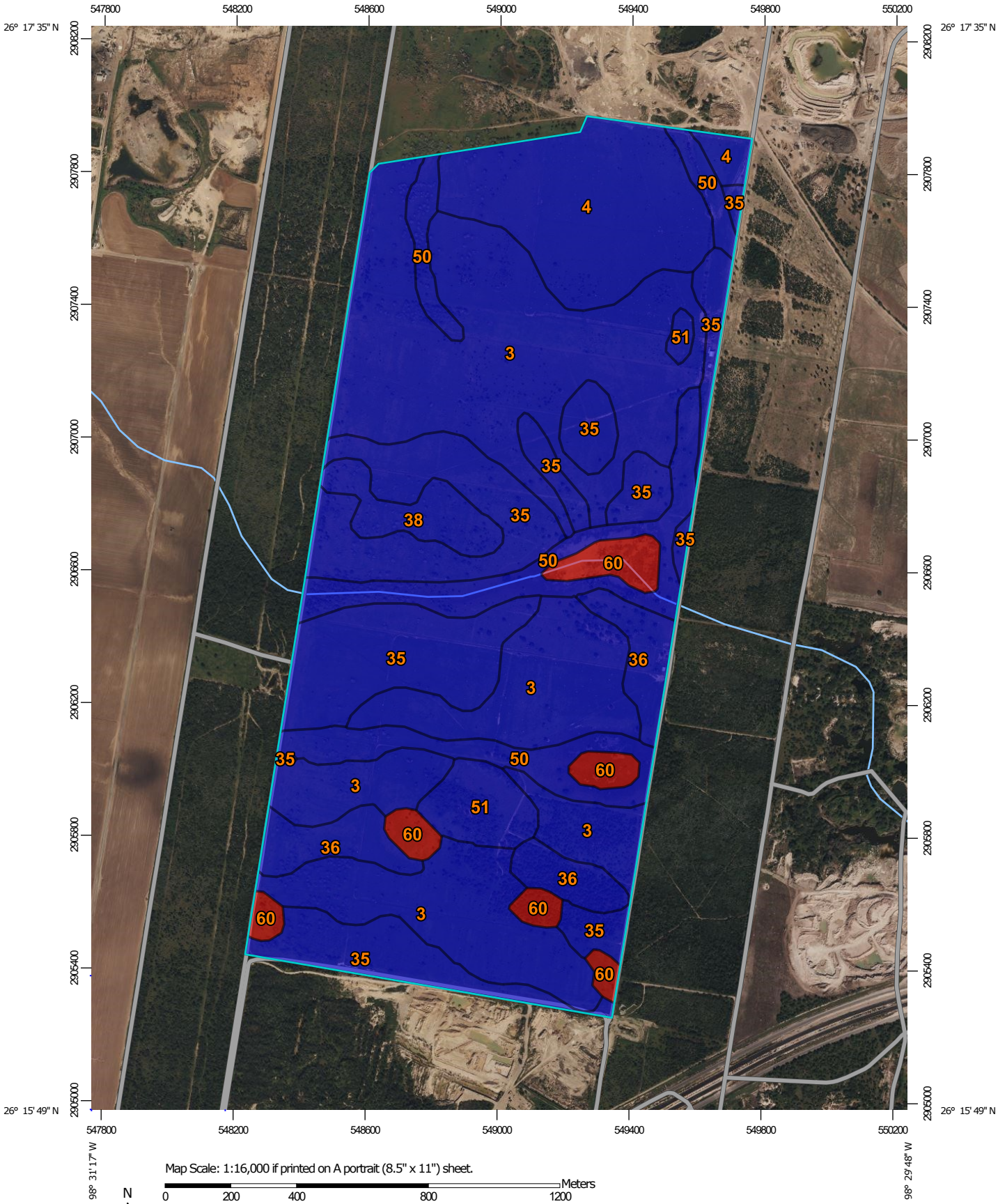
CENOZOIC	Quaternary	2 m.y.	Alluvium (Qal)
			Quaternary undivided (Qu)
			Beaumont Formation (Qb)
			Lissie Formation (Ql)
			Blackwater Draw Formation (Qbd)
	Tertiary	Pliocene 5 m.y.	Willis Formation (Pow)
			Ogallala Formation (PoMo)
		Miocene 24 m.y.	Goliad Formation (Mog)
			Fleming and Oakville Formations (Mof)
		Oligocene 38 m.y.	Catahoula Formation (Oc)
			Oligocene and Eocene undivided (OE) (volcanic rocks and conglomerates in Trans-Pecos Texas)
		Eocene 58 m.y.	Jackson Group (Whitsett, Manning, Wellborn, Caddell, Yazoo, and Moodys Branch Fms.) (Ej)
			Claiborne Group (Yegua Formation) (Ec2)
			Claiborne Group (Cook Mountain, Sparta, Weches, Queen City, and Reklaw) (Ec1)
	Paleocene		Wilcox and Midway Groups (EPA)
MESOZOIC	Cretaceous 66 m.y. – 144 m.y.		Navarro and Taylor Groups (Ku2)
			Austin, Eagle Ford, Woodbine, and U. Washita Groups (Ku1)
			Fredericksburg and L. Washita Groups (Kl2)
			Trinity Group (Kl1)
			Cretaceous undivided (Ku)
	Jurassic Triassic 245 m.y.		Jurassic Triassic undivided (JT)

PALEOZOIC	245 m.y. – 286 m.y.	Ochoan Series (Po)
		Guadalupian Series (Whitehorse and Quartermaster Formations) (Pg2)
		Guadalupian Series (Blaine and San Angelo Formations) (Pg1)
		Leonardian Series (Pl)
		Wolfcampian Series (Pw)
	286 m.y. – 320 m.y.	Permian undivided (Pu)
		Virgilian Series (IPv)
		Missourian Series (IP m)
		Desmoinesian Series (IP d)
	320 m.y. – 505 m.y.	Atokan and Morrowan Series (IP am)
		Mississippian, Devonian, and Ordovician undivided (MDO)
	505 m.y. – 570 m.y.	Cambrian (-C)
	570 m.y. – 1200 m.y.	Paleozoic undivided (Pau)
Pre-cambrian	1200 m.y. – 2000 m.y.	Precambrian undivided (p-C)

Minor Aquifers of Texas



Depth to Water Table—Hidalgo County, Texas
(Reavis South)



Map Scale: 1:16,000 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 200 400 800 1200

Feet: 0 500 1000 2000 3000

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 14N WGS84

MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Rating Polygons

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available

Soil Rating Lines

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available

Soil Rating Points

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available

Water Features

Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background

Aerial Photography

MAP INFORMATION

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

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

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

Soil Survey Area: Hidalgo County, Texas
Survey Area Data: Version 22, Sep 5, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Nov 7, 2021—Jan 14, 2022

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

Depth to Water Table

Map unit symbol	Map unit name	Rating (centimeters)	Acres in AOI	Percent of AOI
3	Brennan fine sandy loam, 0 to 1 percent slopes	>200	293.3	40.5%
4	Brennan fine sandy loam, 0 to 3 percent slopes	>200	82.1	11.3%
35	McAllen fine sandy loam, 0 to 1 percent slopes	>200	165.8	22.9%
36	McAllen fine sandy loam, 1 to 3 percent slopes	>200	39.6	5.5%
38	McAllen sandy clay loam, 0 to 1 percent slopes	>200	18.4	2.5%
50	Ramadero sandy clay loam	>200	77.2	10.7%
51	Cuevitas-Randado complex, 0 to 3 percent slopes	>200	19.5	2.7%
60	Rio clay loam, ponded	0	27.8	3.8%
Totals for Area of Interest			**723.8**	**100.0%**

Description

"Water table" refers to a saturated zone in the soil. It occurs during specified months. Estimates of the upper limit are based mainly on observations of the water table at selected sites and on evidence of a saturated zone, namely grayish colors (redoximorphic features) in the soil. A saturated zone that lasts for less than a month is not considered a water table.

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.

Rating Options

Units of Measure: centimeters

Aggregation Method: Dominant Component

Component Percent Cutoff: None Specified

Tie-break Rule: Lower

Interpret Nulls as Zero: No

Beginning Month: January

Ending Month: December