Administrative Package Cover Page

This file contains the following documents:

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

Portada de Paquete Administrativo

Este archivo contiene los siguientes documentos:

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

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUMMARY OF APPLICATION IN PLAIN LANGUAGE FOR TPDES OR TLAP PERMIT APPLICATIONS

Summary of Application (in plain language) Template and Instructions for Texas Pollutant Discharge Elimination System (TPDES) and Texas Land Application (TLAP) Permit Applications

Applicants should use this template to develop a plain language summary of your facility and application as required by Title 30, Texas Administrative Code (30 TAC), Chapter 39, Subchapter H. You may modify the template as necessary to accurately describe your facility as long as the summary includes the following information: (1) the function of the proposed plant or facility; (2) the expected output of the proposed plant or facility; (3) the expected pollutants that may be emitted or discharged by the proposed plant or facility; and (4) how you will control those pollutants, so that the proposed plant will not have an adverse impact on human health or the environment.

Fill in the highlighted areas below to describe your facility and application in plain language. Instructions and examples are provided below. Make any other edits necessary to improve readability or grammar and to comply with the rule requirements. After filling in the information for your facility delete these instructions.

If you are subject to the alternative language notice requirements in 30 TAC Section 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 TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS DOMESTIC WASTEWATER/STORMWATER

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

Laguna Madre Water District (CN600647952) operates Port Isabel Wastewater Treatment Facility (RN102079852), an Activated Sludge Process Plant. The facility is located at 205 Woodys Lane , in Port Isabel, Cameron County, Texas 78578. Renewal of the existing permit that authorizes the discharge of treated domestic wastewater at a daily flow not to exceed 1.1 million gallons per day (MGD).

Discharges from the facility are expected to contain Treated Effluent. Domestic Wastewater is treated by making its way through one of two rotary drum screens into two aeriation basins, through one of two clarifiers from which waste is directed to digester, seven drying beds, and one chlorine contact chamber.

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

AGUAS RESIDUALES DOMESTICAS /AGUAS PLUVIALES

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

Laguna Madre Water District (CN600047952) opera Port Isabel Wastewater Treatment Facility RN102079852, una planta de proceso de lodos activados. La instalación está ubicada en 205 Woodys Lane , en Port Isabel, Condado de Camaron, Texas 78578. Renovacion del permiso existente que autoriza la descarga de aguas residuals domesticas tratadas a un flujo diario que no exceda los 1.1 millones de galones por dia. *<<Para las solicitudes de TLAP incluya la siguiente oración, de lo contrario, elimine:>>* Este permiso no autorizará una descarga de contaminantes en el agua en el estado.

Se espera que las descargas de la instalación contengan efluente tratado. Aguas residuals domesticas. está tratado por abriendose paso a traves de uno de los dos tambores giratorios cribas hacia dos cuencas de aireacion, a traves de uno de los dos clarificcadoes desde los cuales los desechosse dirigen al digestor, siete lechos de secado y una camara de contacto con el cloro.

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

AGUAS RESIDUALES DOMESTICAS /AGUAS PLUVIALES

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

Laguna Madre Water District (CN600047952) opera Port Isabel Wastewater Treatment Facility RN102079852, una planta de proceso de lodos activados. La instalación está ubicada en 205 Woodys Lane , en Port Isabel, Condado de Camaron, Texas 78578. Renovacion del permiso existente que autoriza la descarga de aguas residuals domesticas tratadas a un flujo diario que no exceda los 1.1 millones de galones por dia.

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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

PERMIT NO. WQ0010350001

APPLICATION. Laguna Madre Water District, 205 Woody Lane, Port Isabel, Texas 78578, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010350001 (EPA I.D. No. TX0023647) to authorize the discharge of treated wastewater at a volume not to exceed an annual average flow of 1,100,000 gallons per day. The domestic wastewater treatment facility is located at 205 Woody Lane, in the city of Port Isabel, in Cameron County, Texas 78578. The discharge route is from the plant site directly to Laguna Madre. TCEQ received this application on March 20, 2025. The permit application will be available for viewing and copying at Port Isabel Wastewater Treatment Facility, 205 Woody Lane, Port Isabel, in Cameron County, Texas prior to the date this notice is published in the newspaper. The application, including any updates, and associated notices are available electronically at the following webpage: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application.
https://gisweb.tceq.texas.gov/LocationMapper/?marker=-97.2225,26.062777&level=18

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

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

PUBLIC COMMENT / PUBLIC MEETING. You may submit public comments or request a public meeting on this application. The purpose of a public meeting is to provide the opportunity to submit comments or to ask questions about the application. TCEQ will hold a public meeting if the Executive Director determines that there is a significant degree of public interest in the application or if requested by a local legislator. A public meeting is not a contested case hearing.

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

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

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

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

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

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

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

AGENCY CONTACTS AND INFORMATION. All public comments and requests must be submitted either electronically at **https://www14.tceq.texas.gov/epic/eComment/**, or in writing to the Texas Commission on Environmental Quality, Office of the Chief Clerk, MC-105,

P.O. Box 13087, Austin, Texas 78711-3087. Please be aware that any contact information you provide, including your name, phone number, email address and physical address will become part of the agency's public record. For more information about this permit application or the permitting process, please call the TCEQ Public Education Program, Toll Free, at 1-800-687-4040 or visit their website at www.tceq.texas.gov/goto/pep. Si desea información en Español, puede llamar al 1-800-687-4040.

Further information may also be obtained from Laguna Madre Water District at the address stated above or by calling Mr. Carlos Galvan, CPM, General Manager/Laguna Madre Water District, at 956-943-2626.

Issuance Date: May 20, 2025

Comisión de Calidad Ambiental del Estado de Texas

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

PERMISO NO. WQ0010350001

SOLICITUD. Laguna Madre Water District, 205 Woody Lane, Port Isabel Texas, 78578 ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para el propuesto Permiso No. WQ0010350001(EPA I.D. No. TX 0023647) del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) para autorizar la descarga de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio diario de 1,100,000 millón galones por día. La ruta de descarga es del sitio de la planta directo a la Laguna Madre. La TCEQ recibió esta solicitud el Marzo 20, 2025. La solicitud del permiso estará disponible para ver y copiar en la instalación de tratamiento de aguas residuales de Port Isabel, 205 Woody Lane, Port Isabel, en el condado de Cameron, Texas, antes de la fecha en que este aviso se publique en el periódico.. La solicitud (cualquier actualización y aviso inclusive) está disponible electrónicamente en la siguiente página web: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud.
https://gisweb.tceq.texas.gov/LocationMapper/?marker=-97.2225,26.062777&level=18

El Director Ejecutivo de la TCEQ ha revisado esta medida para ver si está de acuerdo con los objetivos y las regulaciones del Programa de Administración Costero de Texas (CMP) de acuerdo con las regulaciones del Consejo Coordinador de la Costa (CCC) y ha determinado que la acción es conforme con las metas y regulaciones pertinentes del CMP.

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

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

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

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

Después del cierre de todos los períodos de comentarios y de petición que aplican, el Director Ejecutivo enviará la solicitud y cualquier petición para reconsideración o para una audiencia de caso impugnado a los Comisionados de la TCEQ para su consideración durante una reunión

programada de la Comisión. La Comisión sólo puede conceder una solicitud de una audiencia de caso impugnado sobre los temas que el solicitante haya presentado en sus comentarios oportunos que no fueron retirados posteriormente. Si se concede una audiencia, el tema de la audiencia estará limitado a cuestiones de hecho en disputa o cuestiones mixtas de hecho y de derecho relacionadas a intereses pertinentes y materiales de calidad del agua que se hayan presentado durante el período de comentarios.

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

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

También se puede obtener información adicional de Mark A Garza a la dirección indicada arriba o llamando a (956) 943-2626 a Laguna Madre Water District.

Fecha de emisión: 20 de mayo de 2025

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

April 14, 2025

CERTIFIED MAIL

Mr. Mark Garza, WWA
Wastewater Plant Manager
Laguna Madre Water District
105 Port Road
Port Isabel, Texas 78578

Re: Application to Renew Permit No. WQ0010350001 (EPA I.D. TX0023647)
Issued to Laguna Madre Water District
CN600647952, RN102079852

Dear Mr. Garza:

Our records indicate that we have not received a complete response to the Notice of Deficiency email sent March 26, 2025. The complete response to the Notice of Deficiency was due no later than April 9, 2025.

Applicants are required to respond to the Notice of Deficiency in a timely manner and failure to do so will result in the return of the permit application. If the complete response is not received within 30 days from the date of this letter, the permit application will be removed from our list of pending applications and the permit will expire as of August 14, 2025. If you have submitted your response to our requests for information, please disregard this letter.

This is the final notice that will be sent requesting information to administratively complete the application. Please email a complete response or mail the response along with two copies to the attention of Ms. Francesca Findlay. If you have any questions, please do not hesitate to call Mr. Erwin Madrid at (512) 239-2191 or Ms. Francesca Findlay of the Applications Review and processing team at (512) 239-2441.

Sincerely,

Robert Sadlier, Deputy Director
Water Quality Division

RS/em

bcc: TCEQ Region 15, Wastewater Program Manager
Mr. Erwin Madrid, Team Leader, Applications Review and Processing Team (MC-148)

Erwin Madrid

From: Erwin Madrid
Sent: Monday, April 14, 2025 11:58 AM
To: Mark Garza
Cc: Francesca Findlay; cgalvan@lmwd.org
Subject: Application for Permit No. WQ0010350001 – Notice of Deficiency 30-Day Will Return Letter
Attachments: WQ0010350001_Will Return Ltr.pdf

Importance: High

Dear applicant,

The attached Notice of Deficiency 30-Day Will Return Letter was mailed on **April 14, 2025,** requesting additional information needed to declare the application administratively complete. Please mail an original and two copies (with a cover letter) of the complete response by **May 14, 2025.**

Regards,

Erwin Madrid
Team Lead
ARP Team | Water Quality Division
512-239-2191
Texas Commission on Environmental Quality

Francesca Findlay

From: Mark Garza <mgarza@lmwd.org>
Sent: Friday, May 16, 2025 2:22 PM
To: Francesca Findlay
Subject: USGS MAP & NORI FOR WQ0010350001
Attachments: NORI SPANISH PISTP 3-26-2025.docx; TX_Port_Isabel_20250227_TM_geoR1.pdf

Hello Ms. Findlay

Here are the items needed to complete the application. I reviewed the NORI for omissions and errors and found none. I will contact you next week to confirm if the information i sent you is correct. Thank you..

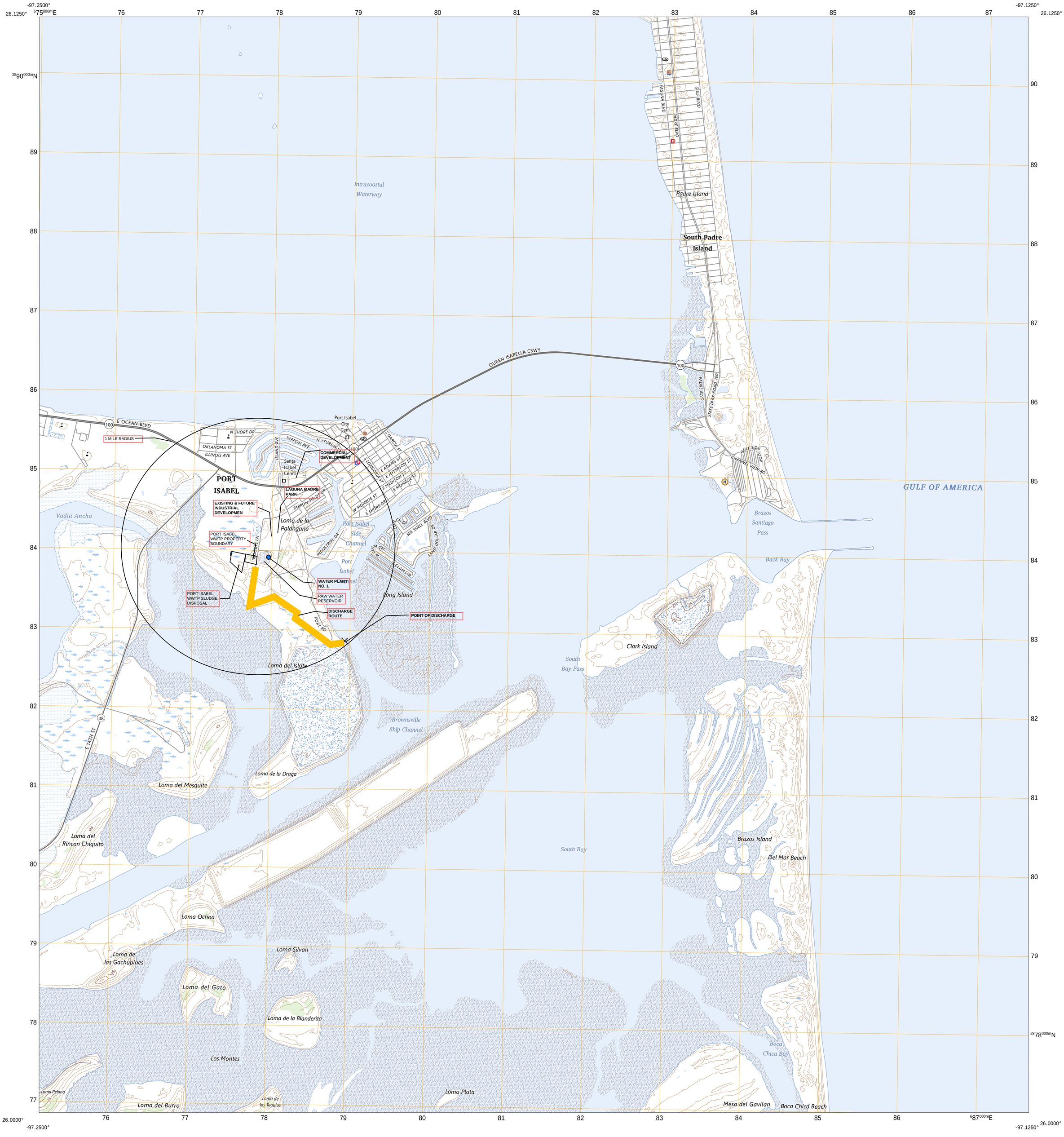
Have a great weekend,

Mark A. Garza Sr.
Wastewater Plants Manager
242 Woody's Lane | Port Isabel, TX
M (956) 572-0395
O (956) 943-2626 Ext. 610
mgarza@lmwd.org

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

The National Map US Topo

PORT ISABEL QUADRANGLE
TEXAS - CAMERON COUNTY
7.5-MINUTE SERIES



Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and
1 000-meter grid:Universal Transverse Mercator, Zone 14R

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

Imagery.....NAIP, November 2016 - January 2017
Roads.....U.S. Census Bureau, 2015
Names.....GNIS, 1979 - 2023
Hydrography.....National Hydrography Dataset, 2002 - 2018
Contours.....National Elevation Dataset, 2019
Boundaries.....Multiple sources; see metadata file 2020 - 2022

Wetlands.....FWS National Wetlands Inventory Not Available

MN
GN
0°48′ 14 MILS
3°2′ 54 MILS
UTM GRID AND 2023 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000 - m Square ID
PP
Grid Zone Designation 14R

SCALE 1:24 000

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

CONTOUR INTERVAL 5 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the National Geospatial Program US Topo Product Standard.

TEXAS
QUADRANGLE LOCATION

1 2
3
4 5
ADJOINING QUADRANGLES

1 La Coma
2 Port Isabel NW
3 Laguna Vista
4 Palmito Hill
5 Mouth of Rio Grande

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

PORT ISABEL, TX
2025

NSN 7643016397789
NGA REF NO. USGSX24K36036

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

March 20, 2025

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

Dear Applicant:

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

ER Account Number: ER084378
Application Reference Number: 767604
Authorization Number: WQ0010350001
Site Name: Port Isabel WWTP
Regulated Entity: RN105426464 - Port Isabel Wastewater Treatment Plant
Customer(s): CN600647952 - Laguna Madre Water District

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

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

Sincerely,
Applications Review and Processing Team
Water Quality Division

Texas Commission on Environmental Quality

Update Domestic or Industrial Individual Permit

WQ0010350001

Site Information (Regulated Entity)

What is the name of the site to be authorized?	PORT ISABEL WWTP
Does the site have a physical address?	Yes
Physical Address	
Number and Street	205 WOODY LN
City	PORT ISABEL
State	TX
ZIP	78578
County	CAMERON
Latitude (N) (##.######)	26.062777
Longitude (W) (-###.######)	-97.2225
Primary SIC Code	4952
Secondary SIC Code	
Primary NAICS Code	221320
Secondary NAICS Code	
Regulated Entity Site Information	
What is the Regulated Entity's Number (RN)?	RN105426464
What is the name of the Regulated Entity (RE)?	PORT ISABEL WASTEWATER TREATMENT PLANT
Does the RE site have a physical address?	Yes
Physical Address	
Number and Street	205 WOODY LN
City	PORT ISABEL
State	TX
ZIP	78578
County	CAMERON
Latitude (N) (##.######)	26.065527
Longitude (W) (-###.######)	-97.221952
Facility NAICS Code	
What is the primary business of this entity?	

Laguna -Customer (Applicant) Information (Owner)

How is this applicant associated with this site?	Owner
What is the applicant's Customer Number (CN)?	CN600647952
Type of Customer	Other Government
Full legal name of the applicant:	
Legal Name	Laguna Madre Water District
Texas SOS Filing Number	
Federal Tax ID	746003590
State Franchise Tax ID	
State Sales Tax ID	
Local Tax ID	
DUNS Number	47662788
Number of Employees	0-20
Independently Owned and Operated?	
I certify that the full legal name of the entity applying for this permit has been provided and is legally authorized to do business in Texas.	Yes
Responsible Authority Contact	
Organization Name	Laguna Madre Water District
Prefix	MR
First	Carlos
Middle	J
Last	Galvan
Suffix	JR
Credentials	CPM
Title	General Manager
Responsible Authority Mailing Address	
Enter new address or copy one from list:	Site Physical Address
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	205 WOODY LN
Routing (such as Mail Code, Dept., or Attn:)	
City	PORT ISABEL
State	TX
ZIP	78578
Phone (###-###-####)	9569432626
Extension	120
Alternate Phone (###-###-####)	

Fax (###-###-####)	9569436827
E-mail	Cgalvan@lmwd.org

Billing Contact

Responsible contact for receiving billing statements:	
Select the permittee that is responsible for payment of the annual fee.	CN600647952, Laguna Madre Water District
Organization Name	LAGUNA MADRE WATER DISTRICT
Prefix	MR
First	Carlos
Middle	J
Last	Galvan
Suffix	JR
Credentials	CPM
Title	General Manager
Enter new address or copy one from list:	RE Physical Address
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	105 PORT RD
Routing (such as Mail Code, Dept., or Attn:)	
City	PORT ISABEL
State	TX
ZIP	78578
Phone (###-###-####)	9569432626
Extension	110
Alternate Phone (###-###-####)	
Fax (###-###-####)	9569436827
E-mail	Cgalvan@lmwd.org

Application Contact

Person TCEQ should contact for questions about this application:	
Same as another contact?	
Organization Name	LAGUNA MADRE WATER DISTRICT
Prefix	MR
First	Mark
Middle	Anthony

Last	Garza
Suffix	
Credentials	
Title	Wastewater Plant Manager
Enter new address or copy one from list:	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	105 PORT RD
Routing (such as Mail Code, Dept., or Attn:)	
City	PORT ISABEL
State	TX
ZIP	78578
Phone (###-###-####)	9569432626
Extension	610
Alternate Phone (###-###-####)	
Fax (###-###-####)	9569436827
E-mail	mgarza@lmwd.org

Technical Contact

Person TCEQ should contact for questions about this application:	
Same as another contact?	
Organization Name	LAGUNA MADRE WATER DISTRICT
Prefix	MR
First	Mark
Middle	Anthony
Last	Garza
Suffix	
Credentials	
Title	Wastewater Treatment Plants Manager
Enter new address or copy one from list:	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	105 PORT RD
Routing (such as Mail Code, Dept., or Attn:)	
City	PORT ISABEL
State	TX

ZIP	78578
Phone (###-###-####)	9569432626
Extension	610
Alternate Phone (###-###-####)	
Fax (###-###-####)	9569436827
E-mail	mgarza@lmwd.org

DMR Contact

Person responsible for submitting Discharge Monitoring Report Forms:

Same as another contact?	Technical Contact
Organization Name	LAGUNA MADRE WATER DISTRICT
Prefix	MR
First	Mark
Middle	Anthony
Last	Garza
Suffix	
Credentials	
Title	Wastewater Treatment Plants Manager
Enter new address or copy one from list:	

Mailing Address:

Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	105 PORT RD
Routing (such as Mail Code, Dept., or Attn:)	
City	PORT ISABEL
State	TX
ZIP	78578
Phone (###-###-####)	9569432626
Extension	610
Alternate Phone (###-###-####)	
Fax (###-###-####)	9569436827
E-mail	mgarza@lmwd.org

Section 1# Permit Contact

Permit Contact#: 1

Person TCEQ should contact throughout the permit term.

1) Same as another contact?	Technical Contact
2) Organization Name	LAGUNA MADRE WATER DISTRICT
3) Prefix	MR
4) First	Mark
5) Middle	Anthony
6) Last	Garza
7) Suffix	
8) Credentials	
9) Title	Wastewater Treatment Plants Manager
Mailing Address	
10) Enter new address or copy one from list	
11) Address Type	Domestic
11.1) Mailing Address (include Suite or Bldg. here, if applicable)	105 PORT RD
11.2) Routing (such as Mail Code, Dept., or Attn:)	
11.3) City	PORT ISABEL
11.4) State	TX
11.5) ZIP	78578
12) Phone (###-###-####)	9565720395
13) Extension	610
14) Alternate Phone (###-###-####)	
15) Fax (###-###-####)	
16) E-mail	mgarza@lmwd.org

Owner Information

Owner of Treatment Facility	
1) Prefix	
2) First and Last Name	Laguna Madre Water District
3) Organization Name	Laguna Madre Water District
4) Mailing Address	105 Port Road
5) City	Port Isabel
6) State	TX
7) Zip Code	78578
8) Phone (###-###-####)	9569432626
9) Extension	
10) Email	tochoa@lmwd.org
11) What is ownership of the treatment facility?	Public

Owner of Land (where treatment facility is or will be)

12) Prefix	
13) First and Last Name	Laguna Madre Water District
14) Organization Name	Laguna Madre Water District
15) Mailing Address	105 Port Road
16) City	Port Isabel
17) State	TX
18) Zip Code	78578
19) Phone (###-###-####)	9569432626
20) Extension	103
21) Email	tochoa@lmwd.org
22) Is the landowner the same person as the facility owner or co-applicant?	Yes

General Information Renewal-Amendment

1) Current authorization expiration date:	08/14/2025
2) Current Facility operational status:	Active
3) Is the facility located on or does the treated effluent cross American Indian Land?	No
4) What is the application type that you are seeking?	Renewal without changes
5) Current Authorization type:	Public Domestic Wastewater
5.1) What is the proposed total flow in MGD discharged at the facility?	1.1
5.2) Select the applicable fee	>= 1.0 MGD - Renewal - $2,015
6) What is the classification for your authorization?	TPDES
6.1) What is the EPA Identification Number?	TX0023647
6.2) Is the wastewater treatment facility location in the existing permit accurate?	Yes
6.3) Are the point(s) of discharge and the discharge route(s) in the existing permit correct?	Yes
6.4) City nearest the outfall(s):	Port Isabel
6.5) County where the outfalls are located:	CAMERON
6.6) Is or will the treated wastewater discharge to a city, county, or state highway right-of-way, or a flood control district drainage ditch?	No
6.7) Is the daily average discharge at your facility of 5 MGD or more?	No
7) Did any person formerly employed by the TCEQ represent your company and get paid for service regarding this application?	No

Public Notice Information

Individual Publishing the Notices

1) Prefix	MR
2) First and Last Name	Enrique Samaniego
3) Credential	
4) Title	Purchasing Agent
5) Organization Name	Laguna Madre Water District
6) Mailing Address	105 PORT RD
7) Address Line 2	
8) City	PORT ISABEL
9) State	TX
10) Zip Code	78578
11) Phone (###-###-####)	9569432626
12) Extension	312
13) Fax (###-###-####)	
14) Email	esamaniego@lmwd.org
Contact person to be listed in the Notices	
15) Prefix	MR
16) First and Last Name	Carlos Galvan
17) Credential	CPM
18) Title	General Manager
19) Organization Name	Laguna Madre Water District
20) Phone (###-###-####)	9569432626
21) Fax (###-###-####)	
22) Email	Cgalvan@lmwd.org
Bilingual Notice Requirements	
23) Is a bilingual education program required by the Texas Education Code at the elementary or middle school nearest to the facility or proposed facility?	Yes
23.1) Are the students who attend either the elementary school or the middle school enrolled in a bilingual education program at that school?	Yes
23.2) Do the students at these schools attend a bilingual education program at another location?	No
23.3) Would the school be required to provide a bilingual education program but the school has waived out of this requirement under 19 TAC 89.1205(g)?	No
23.4) Which language is required by the bilingual program?	Spanish

Section 1# Public Viewing Information

County#: 1

1) County	CAMERON

2) Public building name	Port Isabel Wastewater Treatment Facility
3) Location within the building	
4) Physical Address of Building	205 woodys lane
5) City	Port Isabel
6) Contact Name	Mark Anthony Garza
7) Phone (###-###-####)	9569432626
8) Extension	
9) Is the location open to the public?	Yes

Plain Language

1) Plain Language	
[File Properties]	
File Name	LANG_LANG_Plain Launguage PISTP.docx
Hash	1254023D2A194D60B237A55693FFBB80057988189CD757C8CF5BEB0342966BBF
MIME-Type	application/vnd.openxmlformats-officedocument.wordprocessingml.document

Supplemental Permit Information Form

1) Supplemental Permit Information Form (SPIF)	
[File Properties]	
File Name	SPIF_spif.docx
Hash	85C51492D2903722CC5C7D1113D5FFC60CE33FDC6451AC223DEF554C597219C3
MIME-Type	application/vnd.openxmlformats-officedocument.wordprocessingml.document

Domestic Attachments

1) Attach an 8.5"x11", reproduced portion of the most current and original USGS Topographic Quadrangle Map(s) that meets the 1:24,000 scale.	
[File Properties]	
File Name	MAP_BUFFER ZONE MAP-Layout1.pdf
Hash	288DA1ABC9590D4656E02151205740C4CC71634B415802478C5C51E424E4AE08
MIME-Type	application/pdf

2) I confirm that all required sections of Technical Report 1.0 are complete and will be included in the Technical Attachment.	Yes
2.1) I confirm that Worksheet 2.0 (Receiving Waters) is complete and included in the Technical Attachment.	Yes
2.2) Are you planning to include Worksheet 2.1 (Stream Physical Characteristics) in the Technical Attachment?	Yes
2.3) Are you planning to include Worksheet 4.0 (Pollutant Analyses Requirements) in the Technical Attachment?	Yes
2.4) Are you planning to include Worksheet 5.0 (Toxicity Testing Requirements) in the Technical Attachment?	Yes
2.5) I confirm that Worksheet 6.0 (Industrial Waste Contribution) is complete and included in the Technical Attachment.	Yes
2.6) Are you planning to include Worksheet 7.0 (Class V Injection Well Inventory/Authorization Form) in the Technical Attachment?	Yes
2.7) Technical Attachment	
[File Properties]	
File Name	TECH_domestic technical report 1.0.docx
Hash	B34A67F9479C146389AC3770C1F554C32E73208DDA78668CD48358498FA8C1BB
MIME-Type	application/vnd.openxmlformats-officedocument.wordprocessingml.document
3) Buffer Zone Map	
[File Properties]	
File Name	BUFF_ZM_BUFFER ZONE MAP-Layout1.pdf
Hash	288DA1ABC9590D4656E02151205740C4CC71634B415802478C5C51E424E4AE08
MIME-Type	application/pdf
4) Flow Diagram	
[File Properties]	
File Name	FLDIA_Port Isabel WWTP Process Flow Diagram (Revised).pdf
Hash	A00724126177A191A768C73287B5F39795C1C5E3F61C42B0329C32E7E482B4C8
MIME-Type	application/pdf
5) Site Drawing	
[File Properties]	
File Name	SITEDR_Site Drawning PISTP.pdf
Hash	1D16C9F420B423591EAB1A5A926A7C56C3806DEAC2BAC789EC1F472E3F292434
MIME-Type	application/pdf
6) Design Calculations	

[File Properties]

File Name	DES_CAL_design calculations.pdf
Hash	70D894F0DC323509A50C4DFEF751685D988A3B485376C4A64259F5BD451E4BD3
MIME-Type	application/pdf

7) Solids Management Plan

[File Properties]

File Name	SMP_Sludge management Plan.pdf
Hash	70D894F0DC323509A50C4DFEF751685D988A3B485376C4A64259F5BD451E4BD3
MIME-Type	application/pdf

8) Water Balance

9) Other Attachments

[File Properties]

File Name	OTHER_ABSTP TCLP.pdf
Hash	E2AA81AFFEA80D72C52A63CE925B7FF4BABF2749D7D4B195E9EF12194CAB4C14
MIME-Type	application/pdf

[File Properties]

File Name	OTHER_LVSTP TCLP.pdf
Hash	1E9345EFFAAF661F7BEB035725F28B41314EB5395D3B98A0A20284382BFB544A
MIME-Type	application/pdf

[File Properties]

File Name	OTHER_IBSTP TCLP.pdf
Hash	E7B8F6E2FA71F79EEA7466FCCFB2103F96898F2205635EB2916C9C46480F60A0
MIME-Type	application/pdf

[File Properties]

File Name	OTHER_PISTP TCLP.pdf
Hash	26EDC886E9EAAD57F5056A9464EA727193CF1406876C03D7F07592B320E61400
MIME-Type	application/pdf

[File Properties]

File Name	OTHER_10056 FORM SLUDGE.docx
Hash	655E6249D694A39C0733C204067DCE1B1A64EB28B00C080FB1DE50066220049F
MIME-Type	application/vnd.openxmlformats-officedocument.wordprocessingml.document

Certification

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

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

1. I am Santiago Ochoa IV, the owner of the STEERS account ER103816.
2. I have the authority to sign this data on behalf of the applicant named above.
3. I have personally examined the foregoing and am familiar with its content and the content of any attachments, and based upon my personal knowledge and/or inquiry of any individual responsible for information contained herein, that this information is true, accurate, and complete.
4. I further certify that I have not violated any term in my TCEQ STEERS participation agreement and that I have no reason to believe that the confidentiality or use of my password has been compromised at any time.
5. I understand that use of my password constitutes an electronic signature legally equivalent to my written signature.
6. I also understand that the attestations of fact contained herein pertain to the implementation, oversight and enforcement of a state and/or federal environmental program and must be true and complete to the best of my knowledge.
7. I am aware that criminal penalties may be imposed for statements or omissions that I know or have reason to believe are untrue or misleading.
8. I am knowingly and intentionally signing Update Domestic or Industrial Individual Permit WQ0010350001.
9. My signature indicates that I am in agreement with the information on this form, and authorize its submittal to the TCEQ.

OWNER Signature: Santiago Ochoa IV OWNER

Customer Number:	CN600647952
Legal Name:	Laguna Madre Water District
Account Number:	ER103816
Signature IP Address:	50.84.234.182
Signature Date:	2025-03-10
Signature Hash:	4FE1DE1C475D5EC9CA0618E2AADF266C3B6129D11ED68DABFAB9F8F083B99496
Form Hash Code at time of Signature:	8E80A25799C847B8275E2FFCC5B3C9DC3DB036351F94C156B14918718CE79146

Fee Payment

Transaction by:	The application fee payment transaction was made by MARK ANTHONY GARZA
Paid by:	The application fee was paid by MARK ANTHONY GARZA
Fee Amount:	$2000.00
Paid Date:	The application fee was paid on 2025-02-10
Transaction/Voucher number:	The transaction number is 582EA000650576 and the voucher number is 748395

Submission

Reference Number:	The application reference number is 767604
Submitted by:	The application was submitted by ER084378/Mark A Garza
Submitted Timestamp:	The application was submitted on 2025-03-20 at 16:02:24 CDT
Submitted From:	The application was submitted from IP address 50.84.234.182
Confirmation Number:	The confirmation number is 640476
Steers Version:	The STEERS version is 6.88
Permit Number:	The permit number is WQ0010350001

Additional Information

Application Creator: This account was created by Laurence G Gonzalez

DOMESTIC WASTEWATER PERMIT APPLICATION:

SEWAGE SLUDGE TECHNICAL REPORT 1.0

GENERAL INFORMATION

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

SECTION 1. TREATMENT PROCESSING INFORMATION

A. Attach the engineering report and/or plans and specifications for the proposed facility which must include the following:

- Description of the type of process facility
- Process flow diagram
- Design calculations, features, and functional arrangements
- Site controls
- Groundwater protection
- Odor, dust, and bio-aerosol management
- Ultimate product

Attachment Number: A

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

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

The Port Isabel Monofill is located in zone AE (elevation 8 feet). The berm located along the perimeter of the property protects the monofill from storm surge that would produce a water surface elevation of 8 feet. Attached survey shows top of berm elevation within floodplain ranging from 8.23 ft. to 9.41 ft.

SECTION 2. SOURCES OF SLUDGE

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

Facility Name	**Permit Number**	**Annual Quantity**
Port Isabel Wastewater Treatment Facility	WQ0010350001	165 Metric Tons

Facility Name	Permit Number	Annual Quantity
Isla Blanca Wastewater Treatment Facility	WQ0010757001	80 Metric Tons
Andy Bowie Wastewater Treatment Facility	WQ0013772001	33 Metric Tons
Laguna Vista Wastewater Treatment Facility	WQ0013877001	77 Metric TOns

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

SECTION 3. PATHOGEN AND VECTOR ATTRACTION REDUCTION

A. For each source of sludge, complete Tables 2 and 3 located at the end of this form.

B. Indicate by a checkmark that all of the following are being followed for Class B land application.

- ☒ Food crop harvesting restrictions
- ☒ Animal grazing restrictions
- ☒ Public access restrictions

SECTION 4. WELL INFORMATION

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

Well Type (Water Well, Oil Well, Injection Well)	Producing or Non-Producing	Open, Cased, or Capped*	Protective Measures**
Monitoring Well MW-1	Producing	Cased	N/A – For all monitoring Wells MW- 2 thru MW- 4, See attached
Monitoring Well MW-2	Producing	Cased	Groundwater Sampling and Analysis Plan, Revised date
Monitoring Well MW-3	Producing	Cased	January 15,2018 and prepared by Intertek PSI; it includes Well
Monitoring Well MW-4	Producing	Cased	Reports and Site Map
Monitoring Well MW-5	Producing	Cased	N/A- See attached Groundwater Sampling and Statistical Analysis Report dated

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

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

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

SECTION 5. ADDITIONAL TECHNICAL REPORTS

Identify which additional technical reports are submitted with this application.

☐ Technical Report 2.0, Sewage Sludge Composting

☐ Technical Report 3.0, Marketing and Distribution

☒ Technical Report 4.0, Sewage Sludge Surface Disposal

SITE OPERATOR SIGNATURE PAGE

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

Permit Number: WQ0010350001

Applicant: Laguna Madre Water District

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: Santiago Ochoa

Title: Wastewater Superintendent

Signature (use blue ink): _____ Date: _____

SUBSCRIBED AND SWORN to before me by the said _____ on

this _____ day of _____, 20_____

My commission expires on the _____ day of _____, 20_____

_____

(Seal) Notary Public

_____

County, Texas

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:

Applicant: Click here to enter text.

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

Signatory Name: Click here to enter text.

Title: Click here to enter text.

Signature (use blue ink): _____Date: _____

SUBSCRIBED AND SWORN to before me by the said _____on

this_____day of_____, 20_____

My commission expires on the_____day of_____, 20_____

(Seal)

_____
Notary Public

_____
County, Texas

DOMESTIC WASTEWATER PERMIT APPLICATION:

SEWAGE SLUDGE TECHNICAL REPORT 2.0

SEWAGE SLUDGE COMPOSTING

SECTION 1. RENEWAL OF EXISTING AUTHORIZATION

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

Date operation commenced: Click here to enter text.

Location of operation: Click here to enter text.

Type of bulking agent: Click here to enter text.

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

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

Click here to enter text.

SECTION 2. NEW AUTHORIZATION TO COMPOST SEWAGE SLUDGE

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

Attachment Number: Click here to enter text.

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

Yes ☐ No ☐

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

Click here to enter text

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

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

Attachment Number: Click here to enter text

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

Yes ☐ No ☐

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

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

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

Attachment Number: Click here to enter text

DOMESTIC WASTEWATER PERMIT APPLICATION:

SEWAGE SLUDGE TECHNICAL REPORT 3.0

SEWAGE SLUDGE MARKETING AND DISTRIBUTION

A. What is the TCEQ Permit number for the Wastewater Treatment Plant that is generating the Class A or Class AB sewage sludge? Click here to enter text.

B. What is the name and location of the distribution storage center? Click here to enter text.

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

Click here to enter text.

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

1. Contact Name: Click here to enter text.

Company Name: Click here to enter text.

Mailing Address: Click here to enter text.

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

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

Longitude: Click here to enter text.

Latitude: Click here to enter text.

Permits: Click here to enter text.

2. Contact Name: Click here to enter text.

Company Name: Click here to enter text.

Mailing Address: Click here to enter text.

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

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

Longitude: Click here to enter text.

Latitude: Click here to enter text.

Permits: Click here to enter text.

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

Attachment Number: Click here to enter text.

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

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

☐ Vector attraction reduction requirements

☐ Class A, Class AB or Class B pathogen requirements

G. Indicate the type of recordkeeping: Click here to enter text.

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

DOMESTIC WASTEWATER PERMIT APPLICATION:

SEWAGE SLUDGE TECHNICAL REPORT 4.0

SEWAGE SLUDGE SURFACE DISPOSAL

SECTION 1. LOCATION INFORMATION

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

Attachment Numbers: 1,2,3,4

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

☒ Overlaps a designated 100-year frequency floodplain

☐ Soils with flooding classification

☐ Wetlands

☐ Located less than 60 meters from a fault

☐ Overlaps an unstable area

☐ None of these

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

The Port Isabel Monofill is located in zone AE (elevation 8 feet). The berm located along the perimeter of the property protects the monofill from storm surge that would produce a water surface elevation of 8 feet. Attached survey shows top of berm elevation within floodplain ranging from 8.23 ft. to 9.41 ft.

SECTION 2. DISPOSAL INFORMATION

A. What is the volume and frequency of sludge disposal? 32.5 tons; about once a month

B. What is the total dry tons placed on the disposal unit per 365-day period? 390 tons

C. What is the total dry tons placed on the disposal unit over the life of the unit? 6,368

D. Attach a current TCLP test result from each sludge source.
Attachment Number: Pollutant Concentrations in sewage sludge

SECTION 3. FACILITY INFORMATION

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

If yes, describe the liner.

The natural clayey soils are acting as a liner. The hydrologic conductivity of the soils is 5.3x10^-9 cm/sec, a range Plasticity Index of 18 to 23, Liquid Limit range of 34 to 40 and range percent passing the minus #200 sieve of 65 to 71. See attached Groundwater Sampling and Analysis Plan, Revised date of January 15, 2018 and prepared by Intertek PSI.

B. Does the disposal unit have a leachate collection system?
Yes ☐ No ☒

If yes, describe the leachate collection system and the method used for leachate treatment and disposal.

Click here to enter text.

C. If you answered No to A. and B., is the boundary of the disposal unit less than 150 meters from the nearest property boundary?
Yes ☒ No ☐

If you answered No to C., what is the actual distance to the nearest property boundary in meters? 8 meters

Click here to enter text.

Yes ☐ No ☐

D. Do the design calculations for the disposal unit show that stormwater will not run-off of the disposal unit during a 25-year, 24-hour rainfall event?

Yes ☒ No ☐

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

N/A

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

Yes ☐ No ☒

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

Click here to enter text.

SECTION 4. SITE DEVELOPMENT PLAN

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

Waste Activated Sludge is pumped from the secondary clarifiers to aerobic digesters. In the digesters, Operators decant biosolids in an aerobic process. After sufficient decan, sludge is pumped to either belt press or drying beds for dewatering. The dewatered sludge is then hauled by a registered transporter for disposal at a TCEQ- permitted sludge disposal site. Once at the disposal site, the sludge is directly deposited in the active area (no Stockpiles are created) and is spread and disked into surface of the active area. No mixing or applying daily cover are performed.

B. Indicate by a checkmark that the following information is provided with this application.

☒ Plan view and cross-sectional view of the disposal unit

☐ Source and physical properties of the soil and/or other media for sludge bulking

☐ Locations of stockpiles of media and the area for sludge loading and unloading

☐ Operation procedures detailing mixing, ratio of mixture, handling of mixture, placement of the mixture, and daily cover

☐ Copy of the closure plan and post-closure maintenance requirements developed in accordance with 30 TAC §312.62(c) and (d)

☒ Copy of deed record for the site

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

☐ Financial assurances of proper operation and final closure of the disposal unit and storage in accordance with 30 TAC §312.62(g)

☐ Description of methane gas monitoring if cover is placed on the disposal unit

☒ Description of method to restrict public access to the site.

SECTION 5. GROUNDWATER MONITORING

A. Is groundwater monitoring currently conducted at this disposal unit, or is groundwater monitoring data otherwise available?

Yes ☒ No ☐

If yes, attach a copy of available groundwater monitoring data.

Attachment Number: B – Groundwater Monitoring Report

B. Has a groundwater monitoring program been prepared for this disposal unit? Yes ☒ No ☐

If yes, attach a copy of the groundwater monitoring program.

Attachment Number: C -Groundwater Monitoring Plan

C. Provide a certification from a qualified groundwater scientist that the aquifer below the disposal unit will not be contaminated.

Attachment Number: C – Included in Groundwater Monitoring Plan

D. Provide a profile of soil types encountered down to the groundwater table and the depth to the shallowest groundwater.

Attachment Number: C – Included in Groundwater Monitoring Plan

Appendix A
Pollutant Concentrations in Sewage Sludge

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

Facility Name: Port Isabel Wastewater Treatment Facility
TCEQ Authorization Number: WQ001030001
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	8.00	12/16/2024	1.37	EPA 6020A
Cadmium (Cd)	85	<0.250	12/16/2024	0.250	EPA 6010C
Chromium (Cr)	3000	51.8	12/16/2024	0.686	EPA 6020A
Copper (Cu)	4300				
Lead (Pb)	840	<0.250	12/16/2024	0.250	EPA 6010C
Mercury (Hg)	57	<0.002	12/16/2024	0.002	EPA 7470A
Molybdenum (Mo)	75				
Nickel (Ni)	420	27.0	12/16/2024	0.686	EPA 6020A
Selenium (Se)	100	<0.250	12/16/2024	0.250	
Zinc (Zn)	7500				
PCB (ppm)	50.0 ppm	<1.000	12/16/2024	1.000	EPA 8082
Fecal Coliform (MPN)		17100	12/16/2024	17100	SM 9221 E-2014 (A1)

Facility Name: Laguna Vista Wastewater Treatment Facility
TCEQ Authorization Number: WQ0014069001
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	33.7	12/10/2024	2.10	EPA 6020A
Cadmium (Cd)	85	<0.125	12/10/2024	0.125	EPA 6010C
Chromium (Cr)	3000	30.1	12/10/2024	1.05	EPA 6020A
Copper (Cu)	4300				

Pollutant	Maximum Concentration, mg/kg dry weight	Test Results, mg/kg dry weight	Sample Date	Detection Level for Analysis	Sample Method
Lead (Pb)	840	<0.250	12/10/2024	0.250	EPA 6010C
Mercury (Hg)	57	<0.002	12/10/2024	0.002	EPA 7470A
Molybdenum (Mo)	75				
Nickel (Ni)	420	18.3	12/10/2024	1.05	EPA 6020A
Selenium (Se)	100	<0.250	12/10/2024	0.250	EPA 6010C
Zinc (Zn)	7500				
PCB (ppm)	50.0 ppm	<1.000	12/10/2024	1.000	EPA 8082
Fecal Coliform (MPN)		37600	12/10/2024	2900	SM 9221 E-2014 (A1)

Facility Name: Isla Blanca Wastewater Treatment Facility
TCEQ Authorization Number: WQ0010350001

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	<20.8	12/17/2024	20.8	EPA 6010C
Cadmium (Cd)	85	<0.125	12/17/2024	0.125	EPA 6010C
Chromium (Cr)	3000	81.9	12/17/2024	20.8	EPA 6010C
Copper (Cu)	4300				
Lead (Pb)	840	<0.250	12/17/2024	0.250	EPA 6010C
Mercury (Hg)	57	<0.002	12/17/2024	0.002	EPA 7470 A
Molybdenum (Mo)	75				
Nickel (Ni)	420	256	12/17/2024	20.8	EPA 6010C
Selenium (Se)	100	<0.250	12/17/2024	0.250	EPA 6010C
Zinc (Zn)	7500				
PCB (ppm)	50.0 ppm	<0.8080	12/17/2024	0.8080	EPA 8082
Fecal Coliform (MPN)		615	12/17/2024	524	SM 9221 E-2014 (A1)

Facility Name: Andy Bowie Wastewater Treatment Facility
TCEQ Authorization Number: WQ0013772001

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	12.8	01/06/2025	2.83	EPA 6020A
Cadmium (Cd)	85	<0.125	01/06/2025	0.125	EPA 6010C
Chromium (Cr)	3000	<0.250	01/06/2025	0.250	EPA 6010C
Copper (Cu)	4300				
Lead (Pb)	840	<0.250	01/06/2025	0.250	EPA 6010C
Mercury (Hg)	57	0.00202	01/06/2025	0.002	EPA7470 A
Molybdenum (Mo)	75				
Nickel (Ni)	420	24.8	01/06/2025	1.41	EPA 6020A
Selenium (Se)	100	<0.250	01/06/2025	0.250	EPA 6010C
Zinc (Zn)	7500				
PCB (ppm)	50.0 ppm	<0.8620	01/06/2025	0.8620	EPA 8082
Fecal Coliform (MPN)		<2890	01/06/2025	2890	SM 9221 E-2014 (A1)

Appendix B
PATHOGEN REDUCTION REQUIREMENTS

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

TCEQ Permit Number	Pathogen Reduction Alternative Used	Fecal Coliform Geometric Mean (cfu/gram total solids)*	Fecal Test Date*	Is PSRP Certification Attached?** (Yes/No/NA)
Example WQ11280-001	Option 1: Density of Fecal Coliform	300,000 cfu/g	12/2/98	NA
WQ001030001	Option 2b: PSRP Air Drying	17100	12/16/2024	NA
WQ0014069001	Option 2b: PSRP Air Drying	37600	12/10/2024	NA
WQ0010350001	Option 2b: PSRP Air Drying	615	12/17/2024	NA
WQ0013772001	Option 2b: PSRP Air Drying	<2890	01/06/2025	NA
	Choose an item.			
	Choose an item.			
	Choose an item.			
	Choose an item.			
	Choose an item.			
	Choose an item.			
	Choose an item.			

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

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

Appendix C
VECTOR ATTRACTION REDUCTION REQUIREMENTS

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

TCEQ Permit Number	Vector Attraction Reduction Alternative Used*	Monitoring Criteria and results needed for alternative
Example WQ11280-001	Option 10: Incorporate within 6 hrs	Visual inspection of area after tilling
Example WQ13450-003	Option 4: SOUR <=1.5 mg 02/hr/g total solids at 20C (<2% solids)	Visual inspection of area after tilling
WQ001030001	Option 10. Incorporate within 6 hrs	Visual inspection of area after tilling
WQ0014069001	Option 10. Incorporate within 6 hrs	Visual inspection of area after tilling
WQ0010350001	Option 10. Incorporate within 6 hrs	Visual inspection of area after tilling
WQ0013772001	Option 10. Incorporate within 6 hrs	Visual inspection of area after tilling
	Choose an item.	
	Choose an item.	
	Choose an item.	
	Choose an item.	
	Choose an item.	

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

INSTRUCTIONS FOR SEWAGE SLUDGE TECHNICAL REPORTS

GENERAL INFORMATION

Purpose of the Application

This form is used to request authorization for certain sludge disposal options within or adjacent to a publicly-owned wastewater treatment plant (WWTP).

The Administrative and Technical Reports of the Domestic Wastewater Permit Application (TCEQ-10053 and TCEQ-10054) must be submitted with this form.

Who Should Apply?

This application should be submitted by owners of domestic wastewater treatment plants that are requesting authorization for sewage sludge and/or septage disposal in a **surface disposal site** (ie. sludge monofill) at a site located adjacent to the wastewater treatment facility, **sewage sludge composting**, or **sludge marketing and distribution**.

When Is The Application Submitted?

For new and amendment applications, the completed application must be submitted at least 180 days before the proposed activity is to occur. For renewal applications, the completed application must be submitted at least 180 days before the expiration date of the current wastewater permit.

Where to Send the Application Form

One original and three copies of the application, including attachments, must be provided to the address below:

Regular U.S. Mail:
TCEQ
ARP Team, MC 148
PO Box 13087
Austin TX 78711-3087

Express Mail or Hand Delivery:
TCEQ
ARP Team, MC 148
Building F Room 2101
12100 Park 35 Circle
Austin TX 78753

TCEQ Contact List

Permit Information and Application Forms:	512-239-4671
Technical Information, Land Application Team:	512-239-4671
Environmental Law Division:	512-239-0600

Copies of records on file with the TCEQ may be obtained for a minimal fee from the Records Management Office at 512-239-2900.

Abbreviations and Acronyms

CFR - Code of Federal Regulations
CFU - Colony Forming Units
EPA - United States Environmental Protection Agency
MPN - Most Probable Number
mg/l - Milligrams per Liter
PFRP - Process to Further Reduce Pathogens
PSRP - Process to Significantly Reduce Pathogens
TAC - Texas Administrative Code
TCEQ - Texas Commission on Environmental Quality
USDA - United States Department of Agriculture
USGS - United States Geological Survey

SEWAGE SLUDGE TECHNICAL REPORT 1.0 - GENERAL INFORMATION

Section 1. Treatment Processing Information

A. Attach an engineer's report that includes the following information:

- **Description of the type of sludge processing** (e.g., aerobic digestion, heat drying, and lime stabilization). Provide a detailed description of processes and treatment units utilized to meet pathogen and vector reduction requirements as needed for the sludge use or disposal. Include any admixtures and blending agents.
- **Process flow diagram** of the entire wastewater treatment process. Include all components of the treatment system and flow streams through the process, storage, and removal from the treatment plant site. Provide more detailed flow stream information regarding the sludge treatment units. The flow streams must indicate the quantity of sludge on a wet weight, dry weight, and volumetric basis through each sludge process unit.
- **Design calculations** for the specified treatment process. Provide the dimensions of the treatment units (Length x Width x Height, capacity in gallons and/or cubic feet). Include design calculations for the specified treatment process (temperature ranges, residence time, chemical additions, dewatering capability, etc). Provide information within the design calculations that discuss design features (alarms, standby and duplicate units, holding tanks) and functional arrangements (flexibility of piping, valves, backup generator) within the sludge process units that will prevent the partial treatment of sewage sludge or the overflow of wastewater (e.g., supernate) due to: 1) power failure; 2) equipment malfunction; 3) plant maintenance; or 4) other circumstances.
- **Site Controls.** Description of storage method. Include the method to control surface water run-on and run-off, collection of leachate, and/or process wastewater generated from the facility, and any bulk material storage areas. For uncovered bulk material storage or processed material, provide design calculations for protecting the areas from the 25-year, 24-hour rainfall event. Include sources of information and assumptions.

- **Groundwater protection**. Description of method to control groundwater contamination.
- **Odor, dust, and bio-aerosol management plan.** Describe how the production and migration of each of these emissions will be monitored and minimized, including design and operational practices. The buffer zone requirements for treatment units are found in 30 TAC Section 312.13(e) and are applicable for all wastewater treatment plant units.
- Description of the **ultimate use for the finished product**. The description of the proposed use or disposal and method of disposal of any product that cannot be used in the expected manner due to poor quality or change in market conditions.

B. Indicate whether the facility is above the 100-year frequency flood plain. All units must be protected from inundation from a 100-year frequency flood. If any units are not located above the 100-year frequency flood, provide a separate site map that shows the location of the units within the 100-year frequency flood plain and a detailed description of the type and size of protective measures.

Section 2. Sources of Sludge

A. For each source of sewage sludge or domestic septage, provide the name of the facility; the TCEQ permit number, registration number, or transporter number; and the average quantity received from the source.

B. For each source of sewage sludge or domestic septage, use the sludge laboratory analyses to complete Appendix A Pollutant Concentrations in Sewage Sludge.

Section 3. Pathogen and Vector Attraction Reduction

A. For each source of sewage sludge or domestic septage, complete Appendix B Pathogen Reduction Requirements and Appendix C Vector Attraction Reduction Requirements. The requirements for each option are found in 30 TAC §312.82-83.

B. Indicate that the following restrictions are being followed for land application of Class B sewage sludge and domestic septage:

- Food crop harvesting restrictions:
    - Food crops with harvested parts totally above the land surface **(e.g., strawberries, squash, pecans picked up from the ground)** must not be harvested from the land for at least 14 months after the last application of sludge if any of the harvested parts contact the sludge or soil.
    - Food crops with harvested parts below the surface of the land **(e.g., onions, potatoes)** must not be harvested from the land for at least 20 months after application of sludge when the sludge remains on the land surface for 4 months or longer prior to incorporation into the soil.
    - Food crops with harvested parts below the surface of the land **(e.g., onions, potatoes)** must not be harvested for at least 38 months after application of sludge when the sludge remains on the land surface for less than four months prior to the incorporation into the soil.
    - Food crops (when grown and harvested in a manner that prevents any part of the crop from contacting the soil or sludge such as **hand-picked oranges and apples**), feed crops **(e.g., hay)**, and fiber crops **(e.g., cotton)** must not be harvested for at least 30 days after application of sludge.

- Animal grazing restrictions:
    - Animals must not be allowed to graze on the land for at least 30 days after application of sludge.
- Public access restrictions:
    - Public access to land with a high potential for public exposure **(e.g., parks, soccer fields)** must be restricted for at least one year after application of sludge.
    - Public access to land with a low potential for public exposure **(e.g. land at the WWTP)** must be restricted for at least 30 days after application of the sludge.

Section 4. Well Information

Complete the table by providing the requested information for each well located on and within 500 feet of the application area, including off-site wells. Each well shall also be provided on the site map.

Section 5. Additional Technical reports

Indicate with a checkmark each additional technical report that is submitted with Technical Report 1.0.

Signature Pages

A separate signature page must be provided for the site operator, each co-applicant, and the landowner of the application site (if the landowner is different from the site operator and co-applicant). The signature page must bear an original signature and the seal of a notary public. The date signed by the applicant must be the same as the date notarized. The signature page will not be acceptable if the dates are different.

In accordance with 30 Texas Administrative Code §305.44 relating to Signatories to Applications, all applications shall be signed as follows:

For a corporation, the application shall be signed by a responsible corporate officer. For purposes of this paragraph, a responsible corporate officer means a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation; or the manager of one or more manufacturing, production, or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding $25 million (in second-quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures. Corporate procedures governing authority to sign permit or post-closure order applications may provide for assignment or delegation to applicable corporate positions rather than to specific individuals.

For a partnership or sole proprietorship, the application shall be signed by a general partner or the proprietor, respectively.

For a municipality, state, federal, or other public agency, the application shall be signed by either a principal executive officer or a ranking elected official. For purposes of this

paragraph, a principal executive officer of a federal agency includes the chief executive officer of the agency, or a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., regional administrator of the EPA).

SEWAGE SLUDGE TECHNICAL REPORT 2.0 - SEWAGE SLUDGE COMPOSTING

This technical report is required it you are requesting authorization to compost sewage sludge.

Section 1. Renewal of an existing authorization to compost sewage sludge

This section is only applicable if composting sewage sludge is authorized in the existing and the applicant is seeking to continue that authorization. This does not include facilities that obtained composting authorization through a Municipal Solid Waste Permit.

Section 2. New and amended authorization to compost sewage sludge

A. Submit an original **General Highway (County) Map** showing the applicant's property boundaries in RED ink and the location of the composting area. Copies may be submitted on 8.5 x 11-inch sheets. These maps can be ordered from the Texas Department of Transportation Map Sales from the following web site: http://www.txdot.gov/travel/county_grid_search.htm

B. Indicate whether composting has previously been conducted at this site. If yes, the discussion of the use history of the composting operations must include the following information:

- the type of sludge composted
- the amount of sludge composted so far (in tons)
- the quality of the final product with respect to 30 TAC §332.72
- how the final product was marketed and distributed
- compliance history (e.g., enforcement, upsets)
- copy of any closure plan developed for this facility including anticipated closure date

C. Provide a detailed description of the sewage sludge composting site and operation. The description must include the following information.

- Amount of sludge originating off-site which is to be composted
- Total amount of sewage sludge to be composted and total amount of feedstocks identified in 30 TAC §332.3(b)
- The Fecal Coliform or Salmonella sp. bacteria analysis of the sludge in MPN or CFU
- The type, origin and the amount of bulking material to be used
- Set back distance from the facility boundary to the areas for receiving, processing, or storing feedstocks or final product
- A plan view of the site showing all the equipment, storage facilities, and sludge management facilities
- Types of composting proposed (e.g., windrow process, aerated pile process, etc.)

- Description how the facility shall be constructed, maintained, and operated to manage run-on and run-off during a 25-year, 24-hour rainfall event and include calculations and provide source of all assumptions used
- Description the leachate collection system and the method used for leachate processing and disposal in accordance with applicable requirements and provide the TCEQ permit(s) numbers for leachate treatment and disposal
- Description of how the facility will be constructed, maintained, and operated to protect groundwater
- Description of a design plan to line all the surfaces used for sewage sludge delivery, mixing, composting, curing, screening and storing to control seepage
- Design of facility to minimize windblown material, odor and vector control

D. Indicate whether the end product meets the requirements set forth in 30 TAC §332.72(d)(2)(A)-(D).

E. Submit a site operating plan. This document provides guidance from the design engineer to site management and operating personnel in sufficient detail to enable them to conduct day to day operations in a manner consistent with the engineer's design. At a minimum, the site operating plan shall include specific guidance or instructions on all of the following:

- Process description. The process description must include the following.
    - Feedstock identification. The applicant must prepare a list of the materials intended for processing along with the anticipated volume to be processed. This section must also contain an estimate of the daily quantity of material to be processed at the facility along with a description of the proposed process of screening for unauthorized and prohibited materials.
    - Tipping process. Indicate what happens to the feedstock material from the point it enters the gate. Indicate how the material is handled in the tipping area, how long it remains in the tipping area, what equipment is used, how the material is evacuated from the tipping area, at what interval the tipping area is cleaned, the process used to clean the tipping area.
    - Process. Indicate what happens to the material as it leaves the tipping area. Indicate how the material is incorporated into the process and what process or processes are used until it goes to the post-processing area. The narrative shall include: water addition; processing rates; equipment; energy and mass balance calculations; process monitoring method; testing and monitoring methods and frequency.
    - Post-processing. Provide a complete narrative on the post-processing process to include: post-processing times; identification and segregation of product; storage of product; quality assurance and quality control; testing methods and frequency.
    - Product distribution. Provide a complete narrative on product distribution to include but not limited to: end-product quantities; anticipated final grades; packaging; labeling; loading; tracking bulk material; anticipated end use; method of distribution or use.
    - Process diagram. Present a process diagram that displays graphically the narrative discussion identified in the previous bullets.
- Minimum number of personnel and their functions to be provided by the site operator in order to have adequate capability to conduct the operation in conformance with the design and operational standards;

- Minimum number and operational capacity of each type of equipment to be provided by the site operator in order to have adequate capability to conduct the operation in conformance with the design and operational standards;
- Security, site access control, traffic control and safety;
- Control of dumping within designated areas
- Mechanical and process screening for unprocessable, prohibited, and unauthorized material;
- A fire prevention and suppression plan that complies with provisions of the local fire code, which must also be sent to the local fire protection entity responsible for responding to a fire at the facility;
- Control of windblown material;
- Equipment failures including alternative plans in the event of an equipment failure; and
- A description of the anticipated final grade of the materials.
- Submit a description of the method(s) by which materials that do not meet the end product requirements of 30 TAC Chapters 312 and 332 will be handled and/or disposed.

SEWAGE SLUDGE TECHNICAL REPORT 3.0 - SEWAGE SLUDGE MARKETING AND DISTRIBUTION

This technical report is required it you are requesting authorization to market and distribute Class A or Class AB sewage sludge.

A. Provide the TCEQ Permit Number of the facility generating the Class A or Class AB sewage sludge.

B. Provide the name and location of the sites used for the storage and distribution of the Class A or Class AB sewage sludge.

C. Provide a description of the marketing and distribution plan. The plan must include, but is not limited to, the following activities:

- If the sewage sludge will be sold or given away directly to the public, include a general description of the types of end uses proposed by persons who will be receiving the sewage sludge;
- The methods of distribution, marketing, handling, and transportation of the sewage sludge;
- A reasonable estimate of the expected quantity of sewage sludge to be generated or handled; and
- Any proposed storage and the methods used to prevent surface water runoff of the sewage sludge or contamination of groundwater.

D. For all entities that receive Class A or Class AB sewage sludge directly from the permittee, provide the name, company name, telephone and fax numbers, address, and all federal, state, and local permits that the receiving facility has obtained. If more than two entities receive Class A or Class AB sewage sludge directly, provide a separate attachment that includes the requested information for all entities.

E. Provide a copy of the label or information sheet provided to all entities that receive the sewage sludge.

F. Indicate by a check mark that the Class A or Class AB sewage sludge being sold, given away in bulk, bag, or container for land application meets the following (as shown on Appendix A,B and C:

- Metal concentrations in 30 TAC Section 312.82(a);
- Vector attraction reduction requirements; and
- Class A or Class AB pathogen requirements.

G. Describe the type of recordkeeping.

SEWAGE SLUDGE TECHNICAL REPORT 4.0 - SEWAGE SLUDGE SURFACE DISPOSAL

This technical report is required it you are requesting authorization to dispose of sewage sludge by placing it in a sewage sludge surface disposal unit (ie. sludge monofill). Do not use this technical report for sludge that is disposed of in a municipal landfill.

NOTE: Sewage sludge that has failed a TCLP test cannot be disposed of within a sewage sludge surface disposal unit.

Section 1. Location information

A. Attach the following maps which display the required information noted below:

- Submit an original **General Highway (County) Map** showing all applicant's property boundaries in RED ink, the location of the disposal unit, a scale sufficient to verify the distance of the disposal unit from the property line in accordance with 30 TAC Section 312.63, and all areas within 1000 feet of the site. Copies may be submitted on 8.5 x 11-inch sheets. These maps can be ordered from the Texas Department of Transportation Map Sales from the following web site: http://www.txdot.gov/travel/county_grid_search.htm
- Submit a legible copy of a **USDA Natural Resources Conservation Service (NRCS) Soil Map** with soil legend and necessary interpretative information. These maps can be created on the NRCS Web Soil Survey web site: https://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm. If the county is not mapped, have a soil scientist identify the soils.
- Submit a copy of the **Federal Emergency Management Agency (FEMA) Map** showing the 100-year floodplain. These maps can be obtained by requesting a Flood Insurance Study at no charge from the FEMA Flood Map Distribution Center at (800) 358-9616. The flood insurance study will contain a booklet and the FEMA maps.
- Submit a site map that indicates all of the components that pertain to the disposal unit (cross section diagram(s), storage area(s), run-off collection area(s), etc.)

B. Indicate with checkmarks if the sludge disposal unit contains one or more of the features listed in the application. For each identified feature, provide a discussion of the type and size of the protective measures.

Section 2. Disposal information

A. Provide the approximate volume of sludge and the frequency of each sludge disposal activity.

B. Provide the total amount of sludge placed in the disposal unit each year, in dry tons.

C. Provide the total amount of sludge that has been placed in the disposal unit over the life of the unit, in dry tons.

D. For each sludge source, provide the most recent TCLP test result.

Section 3. Facility information

A. If the disposal unit has a liner, indicate how the liner meets the hydraulic conductivity listed in the application.

B. Indicate it the disposal unit has leachate collection system. If so, describe the leachate collection system and the method used for leachate treatment and disposal.

C. If the disposal unit does not have a liner or leachate collection system, indicate if the disposal unit located less than 150 meters from the nearest property boundary.

If the disposal unit is located less than 150 meters from the nearest property boundary, provide the actual distance to the nearest property boundary, in meters. Also indicate if the metal concentrations listed in the application exceed the maximum metal concentrations and property boundary distances required by 30 TAC 3212.63(b)(2).

D. Indicate if the design calculations for the disposal unit show that stormwater will not leave the disposal unit during a 25-year, 24-hour rainfall event.

E. If the sewage sludge is dewatered prior to placing in the disposal unit, describe the method of sludge dewatering and the average percent solids of the sludge placed in the disposal unit.

F. Indicate if crops are grown or animals allowed to graze at the disposal site. If yes, provide a detailed description of management practices that protect human health from bioaccumulation of metals in the sewage sludge.

Section 4. Site development plan

A. Describe the methods used to deposit sludge in the disposal unit. This description should include site layout plan, site entrance roads from public access roads, rate of sludge deposition, average and maximum lift size, average and maximum trench or cell size, sludge unit cover, seismic impact design, protection from floods, and other information necessary to depict how the surface disposal unit will be developed.

B. Indicate by a checkmark that each the following information has been submitted with the application.

- A detailed plan view and cross-section view of the surface disposal unit.
- The source and physical properties of the soil, daily cover, and other media for sludge bulking, if applicable.
- Locations of stockpiles of the bulking media and the area for sludge unloading and mixing within the plant site and include

on the site map.
- Describe operational procedures detailing the following: how the sludge is to be mixed; the ratio of the media/sludge mixture; the handling and placement of the mixture in the sludge unit; the method of spreading the daily cover; the depth of the daily cover.
- Provide a copy of any closure plan, which includes post-closure maintenance requirements, that has been developed for disposal unit in accordance with 30 TAC §312.62(c) and (d).
- A copy of deed record for the site showing that a sludge disposal unit is located at the site.
- Provide a description controlling the infiltration of sludge from entering ground and surface water.
- Provide financial assurance to properly operate this surface disposal unit and to provide final closure of this surface disposal unit and storage (if applicable) (30 TAC Section 312.62(g)).
- Provide a brief description of how methane gas is monitored, if cover is placed on unit and
- Provide a brief description of how public access to the site is restricted.

Section 5. Groundwater monitoring

A. Indicate if groundwater monitoring data is available for the site. If so, attach a copy of the data.

B. Indicate if a groundwater monitoring program has been developed. If so, attach a copy.

C. Provide a certification from a qualified groundwater scientist that the aquifer below the disposal unit will not be contaminated.

D. Provide a profile of the soil types encountered down to the groundwater table and the depth to the shallowest groundwater.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUMMARY OF APPLICATION IN PLAIN LANGUAGE FOR TPDES OR TLAP PERMIT APPLICATIONS

Summary of Application (in plain language) Template and Instructions for Texas Pollutant Discharge Elimination System (TPDES) and Texas Land Application (TLAP) Permit Applications

Applicants should use this template to develop a plain language summary of your facility and application as required by Title 30, Texas Administrative Code (30 TAC), Chapter 39, Subchapter H. You may modify the template as necessary to accurately describe your facility as long as the summary includes the following information: (1) the function of the proposed plant or facility; (2) the expected output of the proposed plant or facility; (3) the expected pollutants that may be emitted or discharged by the proposed plant or facility; and (4) how you will control those pollutants, so that the proposed plant will not have an adverse impact on human health or the environment.

Fill in the highlighted areas below to describe your facility and application in plain language. Instructions and examples are provided below. Make any other edits necessary to improve readability or grammar and to comply with the rule requirements. After filling in the information for your facility delete these instructions.

If you are subject to the alternative language notice requirements in 30 TAC Section 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 TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS DOMESTIC WASTEWATER/STORMWATER

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

Laguna Madre Water District (CN600647952) operates Port Isabel Wastewater Treatment Facility (RN102079852), an Activated Sludge Process Plant. The facility is located at 205 Woodys Lane , in Port Isabel, Cameron County, Texas 78578. Renewal of the existing permit that authorizes the discharge of treated domestic wastewater at a daily flow not to exceed 1.1 million gallons per day (MGD). *<<For TLAP applications include the following sentence, otherwise delete:>>* This permit will not authorize a discharge of pollutants into water in the state.

Discharges from the facility are expected to contain Treated Effluent. Domestic Wastewater is treated by making its way through one of two rotary drum screens into two aeriation basins, through one of two clarifiers from which waste is directed to digester, seven drying beds, and one chlorine contact chamber.

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

AGUAS RESIDUALES DOMESTICAS /AGUAS PLUVIALES

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

Laguna Madre Water District (CN600047952) opera Port Isabel Wastewater Treatment Facility RN102079852, una planta de proceso de lodos activados. La instalación está ubicada en 205 Woodys Lane , en Port Isabel, Condado de Camaron, Texas 78578. Renovacion del permiso existente que autoriza la descarga de aguas residuals domesticas tratadas a un flujo diario que no exceda los 1.1 millones de galones por dia. *<<Para las solicitudes de TLAP incluya la siguiente oración, de lo contrario, elimine:>>* Este permiso no autorizará una descarga de contaminantes en el agua en el estado.

Se espera que las descargas de la instalación contengan efluente tratado. Aguas residuals domesticas. está tratado por abriendose paso a traves de uno de los dos tambores giratorios cribas hacia dos cuencas de aireacion, a traves de uno de los dos clarificcadoes desde los cuales los desechosse dirigen al digestor, siete lechos de secado y una camara de contacto con el cloro.

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. Choose “operates” in this section for existing facility applications or choose “proposes to operate” for new facility applications.
4. Enter the name of the facility 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 facility in this section. For example: steam electric generating facility, nitrogenous fertilizer manufacturing facility, etc.
8. Choose “is” for an existing facility or “will be” for a new facility.
9. Enter the location of the facility in this section.
10. Enter the City nearest the facility in this section.
11. Enter the County nearest the facility in this section.
12. Enter the zip code for the facility address in this section.
13. Enter a summary of the application request in this section. For example: renewal to discharge 25,000 gallons per day of treated domestic wastewater, new application to discharge process wastewater and stormwater on an intermittent and flow-variable basis, or major amendment to reduce monitoring frequency for pH, etc. If more than one outfall is included in the application, provide applicable information for each individual outfall.
14. List all pollutants expected in the discharge from this facility in this section. If applicable, refer to the pollutants from any federal numeric effluent limitations that apply to your facility.
15. Enter the discharge types from your facility in this section (e.g., stormwater, process wastewater, once through cooling water, etc.)
16. Choose the appropriate verb tense to complete the sentence.
17. Enter a description of the wastewater treatment used at your facility. Include a description of each process, starting with initial treatment and finishing with the outfall/point of disposal. Use additional lines for individual discharge types if necessary.

Questions or comments concerning this form may be directed to the Water Quality Division’s Application Review and Processing Team by email at WQ-ARPTeam@tceq.texas.gov or by phone at (512) 239-4671.

Example 1: Industrial Wastewater TPDES Application (ENGLISH)

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

ABC Corporation (CN600000000) operates the Starr Power Station (RN10000000000), a two-unit gas-fired electric generating facility. Unit 1 has a generating capacity of 393 megawatts (MWs) and Unit 2 has a generating capacity of 528 MWs. The facility is located at 1356 Starr Street, near the City of Austin, Travis County, Texas 78753.

This application is for a renewal to discharge 870,000,000 gallons per day of once through cooling water, auxiliary cooling water, and also authorizes the following waste streams monitored inside the facility (internal outfalls) before it is mixed with the other wastewaters authorized for discharge via main Outfall 001, referred to as "previously monitored effluents" (low-volume wastewater, metal-cleaning waste, and stormwater (from diked oil storage area yards and storm drains)) via Outfall 001. Low-volume waste sources, metal-cleaning waste, and stormwater drains on a continuous and flow-variable basis via internal Outfall 101.

The discharge of once through cooling water via Outfall 001 and low-volume waste and metal-cleaning waste via Outfall 101 from this facility is subject to federal effluent limitation guidelines at 40 CFR Part 423. The pollutants expected from these discharges based on 40 CFR Part 423 are: free available chlorine, total residual chlorine, total suspended solids, oil and grease, total iron, total copper, and pH. Temperature is also expected from these discharges. Additional potential pollutants are included in the Industrial Wastewater Application Technical Report, Worksheet 2.0.

Cooling water and boiler make-up water are supplied by Lake Starr Reservoir. The City of Austin municipal water plant (CN600000000, PWS 00000) supplies the facility's potable water and serves as an alternate source of boiler make-up water. Water from the Lake Starr Reservoir is withdrawn at the intake structure and treated with sodium hypochlorite to prevent biofouling and sodium bromide as a chlorine enhancer to improve efficacy and then passed through condensers and auxiliary equipment on a once-through basis to cool equipment and condense exhaust steam.

Low-volume wastewater from blowdown of boiler Units 1 and 2 and metal-cleaning wastes receive no treatment prior to discharge via Outfall 101. Plant floor and equipment drains and stormwater runoff from diked oil storage areas, yards, and storm drains are routed through an oil and water separator prior to discharge via Outfall 101. Domestic wastewater, blowdown, and backwash water from the service water filter, clarifier, and sand filter are routed to the Starr Creek Domestic Sewage Treatment Plant, TPDES Permit No. WQ0010000001, for treatment and disposal. Metal-cleaning waste from equipment cleaning is generally disposed of off-site.

Example 2: Domestic Wastewater TPDES Renewal 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.

The City of Texas (CN000000000) operates the City of Texas wastewater treatment plant (RN000000000), an activated sludge process plant operated in the complete mix mode. The facility is located at 123 Texas Street, near the City of More Texas, Texas County, Texas 71234.

This application is for a renewal to discharge at an annual average flow of 1,200,000 gallons per day of treated domestic wastewater via Outfalls 001 and 002.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand ($CBOD_5$), total suspended solids (TSS), ammonia nitrogen (NH_3-N), and *Escherichia coli*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent and Domestic Worksheet 4.0 in the permit application package. Domestic wastewater is treated by an activated sludge process plant and the treatment units include a bar screen, a grit chamber, aeration basins, final clarifiers, sludge digesters, a belt filter press, chlorine contact chambers and a dechlorination chamber.

Example 3: Domestic Wastewater TPDES New 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.

The City of Texas (CN000000000) proposes to operate the City of Texas wastewater treatment plant (RN000000000), an activated sludge process plant operated in the extended aeration mode. The facility will be located at 123 Texas Street, in the City of More Texas, Texas County, Texas 71234.

This application is for a new application to discharge at a daily average flow of 200,000 gallons per day of treated domestic wastewater.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand ($CBOD_5$), total suspended solids (TSS), ammonia nitrogen (NH_3-N), and *Escherichia coli*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent in the permit application package. Domestic wastewater will be treated by an activated sludge process plant and the treatment units will include a bar screen, a grit chamber, aeration basins, final clarifiers, sludge digesters, a belt filter press, chlorine contact chambers and a dechlorination chamber.

Example 4: Domestic Wastewater TLAP Renewal application

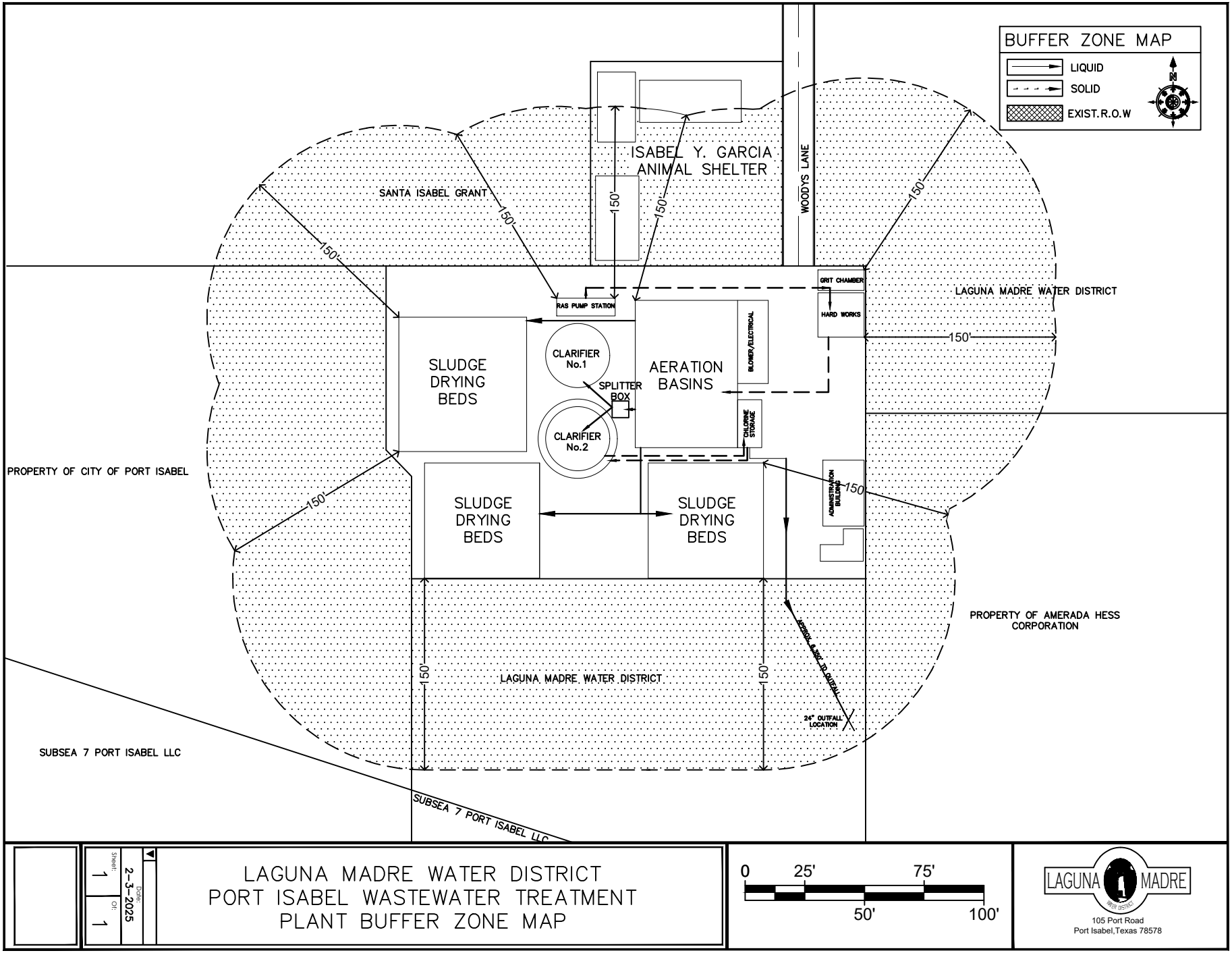
The following summary is provided for this pending water quality permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 Texas Administrative Code Chapter 39. The information provided in this summary may change during the technical review of the application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

of the permit application.

The City of Texas (CN000000000) operates the City of Texas wastewater treatment plant (RN000000000), an activated sludge process plant operated in the complete mix mode. The facility is located at 123 Texas Street, near the City of More Texas, Texas County, Texas 71234.

This application is for a renewal to dispose a daily average flow not to exceed 76,500 gallons per day of treated domestic wastewater via public access subsurface drip irrigation system with a minimum area of 32 acres. This permit will not authorize a discharge of pollutants into water in the state.

Land application of domestic wastewater from the facility are expected to contain five-day biochemical oxygen demand (BOD_5), total suspended solids (TSS), and *Escherichia coli*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent in the permit application package. Domestic wastewater is treated by an activated sludge process plant and the treatment units include a bar screen, an equalization basin, an aeration basin, a final clarifier, an aerobic sludge digester, tertiary filters, and a chlorine contact chamber. In addition, the facility includes a temporary storage that equals to at least three days of the daily average flow.



Sheet: 1 Of: 1

Date: 2-3-2025

LAGUNA MADRE WATER DISTRICT
PORT ISABEL WASTEWATER TREATMENT
PLANT BUFFER ZONE MAP

0 25' 50' 75' 100'

LAGUNA MADRE WATER DISTRICT

105 Port Road
Port Isabel,Texas 78578

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

FOR AGENCIES REVIEWING DOMESTIC OR INDUSTRIAL TPDES WASTEWATER PERMIT APPLICATIONS

TCEQ USE ONLY:

Application type: ____Renewal ____Major Amendment ____Minor Amendment ____New

County: _____ Segment Number: _____

Admin Complete Date: _____

Agency Receiving SPIF:

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

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

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

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

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

The following applies to all applications:

1. Permittee: Laguna Madre Water District

   Permit No. WQ00 10350001 EPA ID No. TX 0023647

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

   205 woodys lane Port Isabel, Texas Cameron county

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

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

First and Last Name: Mark Garza

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

Title: Wastewater Plants Manager

Mailing Address: 105 Port Rd

City, State, Zip Code: Port Isabel, Tx 78578

Phone No.: 956-943-2626 Ext.: 610 Fax No.: 9569436827

E-mail Address: Mgarza@lmwd.org

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

City of Port Isabel (Deed granting easement to Laguna Madre Water District)

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

Effluent is discharged via a pipeline and diffuser directly to the Laguna Madre in Segment No. 2491 of the Bays and Estuaries.

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

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

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

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

☐ Disturbance of vegetation or wetlands

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

N/A

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

No existing disturbances, land use limited to the WWTP, open area

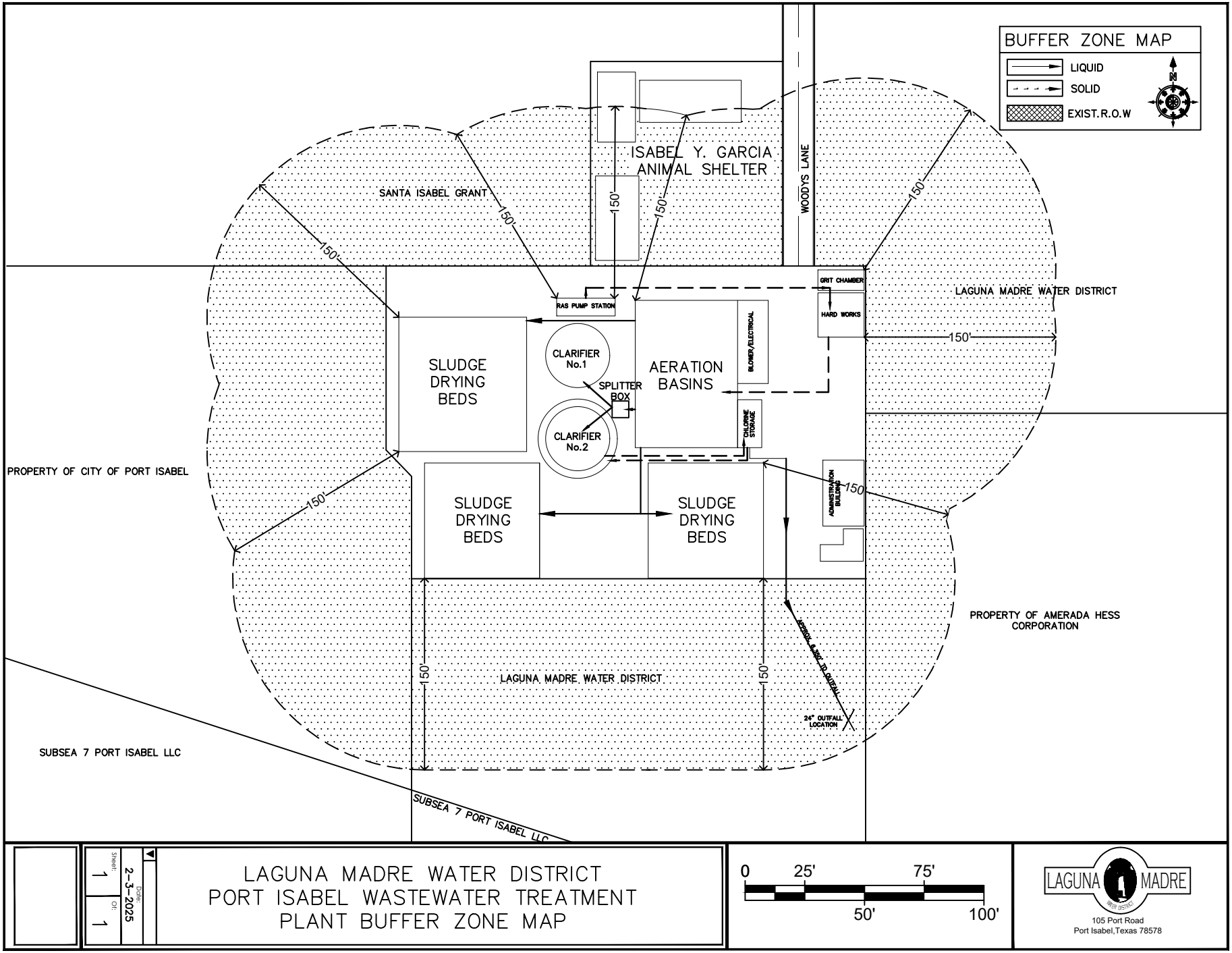
THE FOLLOWING ITEMS APPLY ONLY TO APPLICATIONS FOR NEW TPDES PERMITS AND MAJOR AMENDMENTS TO TPDES PERMITS

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

Click here to enter text.

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

Click here to enter text.



Sheet: 1 Of: 1

Date: 2-3-2025

LAGUNA MADRE WATER DISTRICT
PORT ISABEL WASTEWATER TREATMENT
PLANT BUFFER ZONE MAP

0 25' 50' 75' 100'

LAGUNA MADRE WATER DISTRICT

105 Port Road
Port Isabel,Texas 78578

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

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

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

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

A. Existing/Interim I Phase

Design Flow (MGD): 1.1

2-Hr Peak Flow (MGD): 3.85

Estimated construction start date: N/A

Estimated waste disposal start date: N/A

B. Interim II Phase

Design Flow (MGD): N/A

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

Estimated construction start date: N/A

Estimated waste disposal start date: N/A

C. Final Phase

Design Flow (MGD): N/A

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

Estimated construction start date: N/A

Estimated waste disposal start date: N/A

D. Current Operating Phase

Provide the startup date of the facility: 8/22/2018

Section 2. Treatment Process (Instructions Page 43)

A. Current Operating Phase

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

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

Activated sludge process plant operated in the single stage nitrification mode treatment unit includes an onsite lift station, head works facility, aeration basins, final clarifier, aerobic digester, chlorine contact chamber and dechlorinating chamber prior to discharge. The stabilized sludge in the digesters is drawn into the sludge sand drying beds where the dry sludge is hauled off for disposal at the monofil located at this facility.

B. Treatment Units

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

Table 1.0(1) - Treatment Units

Treatment Unit Type	Number of Units	Dimensions (L x W x D)
Aeration Tank	1	14.5' x 24'-2" x 105'
Channel to Aeration tank #4	1	14.5' x 4' x 75'
Aeration tank #4	1	14.5' x 14-4" x 105'
Clarifier #1 & 2	2	12' x 50' diameter
Chlorine contact chamber	1	53,235 Gallons
Digester #2	1	14.5' x 16' x 105'
Digester # 3	1	14.5 x 13-7' x 105'

C. Process Flow Diagram

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

Attachment: Process Flow Diagram

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

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

- Latitude: 26.053517N
- Longitude: 97.211286W

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

- Latitude: N/A
- Longitude: N/A

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

- The boundaries of the treatment facility;
- The boundaries of the area served by the treatment facility;

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

Attachment: Site Drawing

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

The city of Port Isabel, Texas, and adjacent and the unincorporated area of Cameron County including Long Island Village and Laguna Heights

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

Collection System Information

Collection System Name	Owner Name	Owner Type	Population Served
Laguna Madre Water District	**Lagun Madre Water District**	**Publicly Owned**	6,681
		Choose an item.	
		Choose an item.	
		Choose an item.	

Section 4. Unbuilt Phases (Instructions Page 45)

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

Click to enter text.

Section 5. Closure Plans (Instructions Page 45)

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

Click to enter text.

Section 6. Permit Specific Requirements (Instructions Page 45)

For applicants with an existing permit, check the Other Requirements or Special Provisions of the permit.

A. Summary transmittal

Have plans and specifications been approved for the existing facilities and each proposed phase?

☒ Yes ☐ No

If yes, provide the date(s) of approval for each phase: 5/29/2016 for new outfall 001; 5/26/16 for WWTF modifications

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

Outfall extension and wastewater treatment plant modifications required separate project summaries transmittal letters. Approval letters for TCEQ are provided in attachments.

B. Buffer zones

Have the buffer zone requirements been met?

☒ Yes ☐ No

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

May 25, 2017, an easement agreement with Amerada Hess Corporation prohibiting residential structures on 0.7 acres adjacent to WWTF. August 15, 2017, the rezoned animal shelter rezoned to WWTF to H-1 industrial, which prohibits residential structures. December 2, 2019, -LMWD purchased property adjacent to WWTF. See attachment

C. Other actions required by the current permit

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

☒ Yes ☐ No

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

June 16, 2017, notice to completion of new outfall 001 provided to TCEQ.

D. Grit and grease treatment

1. Acceptance of grit and grease waste

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

☐ Yes ☒ No

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

2. Grit and grease processing

Describe below how the grit and grease waste is treated at the facility. In your description, include how and where the grit and grease is introduced to the treatment works and how it is separated or processed. Provide a flow diagram showing how grit and grease is processed at the facility.

Click to enter text.

3. Grit disposal

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

☐ Yes ☐ No

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

Describe the method of grit disposal.

Click to enter text.

4. Grease and decanted liquid disposal

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

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

Click to enter text.

E. Stormwater management

1. Applicability

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

☒ Yes ☐ No

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

☐ Yes ☒ No

If no to both of the above, then skip to Subsection F, Other Wastes Received.

2. MSGP coverage

Is the stormwater runoff from the WWTP and dedicated lands for sewage disposal currently permitted under the TPDES Multi-Sector General Permit (MSGP), TXR050000?

☒ Yes ☐ No

If yes, please provide MSGP Authorization Number and skip to Subsection F, Other Wastes Received:

TXR05 T712 or TXRNE Click to enter text.

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

☐ Yes ☐ No

3. *Conditional exclusion*

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

☐ Yes ☐ No

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

Click to enter text.

4. *Existing coverage in individual permit*

Is your stormwater discharge currently permitted through this individual TPDES or TLAP permit?

☐ Yes ☐ No

If yes, provide a description of stormwater runoff management practices at the site that are authorized in the wastewater permit then skip to Subsection F, Other Wastes Received.

Click to enter text.

5. *Zero stormwater discharge*

Do you intend to have no discharge of stormwater via use of evaporation or other means?

☐ Yes ☐ No

If yes, explain below then skip to Subsection F. Other Wastes Received.

Click to enter text.

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

6. *Request for coverage in individual permit*

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

☐ Yes ☐ No

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

Click to enter text.

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

F. Discharges to the Lake Houston Watershed

Does the facility discharge in the Lake Houston watershed?

☐ Yes ☒ No

If yes, attach a Sewage Sludge Solids Management Plan. See Example 5 in the instructions.
Click to enter text.

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

1. Acceptance of sludge from other WWTPs

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

☐ Yes ☒ No

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

In addition, provide the date the plant started or is anticipated to start accepting sludge, an estimate of monthly sludge acceptance (gallons or millions of gallons), an estimate of the BOD_5 concentration of the sludge, and the design BOD_5 concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.

Click to enter text.

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

2. Acceptance of septic waste

Is the facility accepting or will it accept septic waste?

☐ Yes ☒ No

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

☐ Yes ☐ No

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

☐ Yes ☐ No

If yes to any of the above, provide the date the plant started or is anticipated to start accepting septic waste, an estimate of monthly septic waste acceptance (gallons or millions of gallons), an estimate of the BOD_5 concentration of the septic waste, and the design BOD_5 concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.

Click to enter text.

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

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

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

☐ Yes ☒ No

If yes, provide the date that the plant started accepting the waste, an estimate how much waste is accepted on a monthly basis (gallons or millions of gallons), a description of the entities generating the waste, and any distinguishing chemical or other physical characteristic of the waste. Also note if this information has or has not changed since the last permit action.

Click to enter text.

Section 7. Pollutant Analysis of Treated Effluent (Instructions Page 50)

Is the facility in operation?

☒ Yes ☐ No

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

If yes, provide effluent analysis data for the listed pollutants. ***Wastewater treatment facilities*** complete Table 1.0(2). W***ater treatment facilities*** discharging filter backwash water, complete Table 1.0(3). Provide copies of the laboratory results sheets. **These tables are not applicable for a minor amendment without renewal.** See the instructions for guidance.

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

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

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
$CBOD_5$, mg/l	<2.00	200	1	Grab	12/05/24
Total Suspended Solids, mg/l	7.27	2.60	1	Grab	12/05/24
Ammonia Nitrogen, mg/l	0.147	0.020	1	Grab	12/05/24
Nitrate Nitrogen, mg/l	35.7	0.100	7	Grab	12/05/24
Total Kjeldahl Nitrogen, mg/l	<0.050	0.050	8	Grab	12/05/24
Sulfate, mg/l	383	30.0	1	Grab	12/05/24
Chloride, mg/l	906	30.0	1	Grab	12/05/24
Total Phosphorus, mg/l	4.38	0.600	4	Grab	12/05/24
pH, standard units	6.65	9.00	1	On Site Grab	12/05/24
Dissolved Oxygen*, mg/l	7.2	7.2	1	On Site Grab	12/05/24
Chlorine Residual, mg/l	3.6	3.6	1	On Site Grab	12/05/24
E.coli (CFU/100ml) freshwater	N/A	N/A	N/A	N/A	N/A
Entercocci (CFU/100ml) saltwater	6.725	13.2	4	On Site Grab	December 2024
Total Dissolved Solids, mg/l	2460	50	1	Grab	12/05/24
Electrical Conductivity, µmohs/cm, †	3970	3970	1	Grab	12/05/24
Oil & Grease, mg/l	<4.71	4.71	3	Grab	12/05/24
Alkalinity ($CaCO_3$)*, mg/l	28.1	1.00	1	Grab	12/05/24

*TPDES permits only
†TLAP permits only

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

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
Total Suspended Solids, mg/l	N/A	N/A	N/A	N/A	N/A
Total Dissolved Solids, mg/l	N/A	N/A	N/A	N/A	N/A
pH, standard units	N/A	N/A	N/A	N/A	N/A
Fluoride, mg/l	N/A	N/A	N/A	N/A	N/A
Aluminum, mg/l	N/A	N/A	N/A	N/A	N/A
Alkalinity ($CaCO_3$), mg/l	N/A	N/A	N/A	N/A	N/A

Section 8. Facility Operator (Instructions Page 50)

Facility Operator Name: Mark A. Garza

Facility Operator's License Classification and Level: Class A Wastewater Treatment

Facility Operator's License Number: WW0029914

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

A. WWTP's Biosolids Management Facility Type

Check all that apply. See instructions for guidance

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

B. WWTP's Biosolids Treatment Process

Check all that apply. See instructions for guidance.

- ☒ Aerobic Digestion
- ☒ Air Drying (or sludge drying beds)
- ☐ Lower Temperature Composting
- ☐ Lime Stabilization
- ☐ Higher Temperature Composting
- ☐ Heat Drying
- ☐ Thermophilic Aerobic Digestion
- ☐ Beta Ray Irradiation
- ☐ Gamma Ray Irradiation
- ☐ Pasteurization
- ☐ Preliminary Operation (e.g. grinding, de-gritting, blending)
- ☐ Thickening (e.g. gravity thickening, centrifugation, filter press, vacuum filter)
- ☐ Sludge Lagoon
- ☐ Temporary Storage (< 2 years)
- ☐ Long Term Storage (>= 2 years)
- ☐ Methane or Biogas Recovery

☐ Other Treatment Process: Click to enter text.

C. Biosolids Management

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

Biosolids Management

Management Practice	Handler or Preparer Type	Bulk or Bag Container	Amount (dry metric tons)	Pathogen Reduction Options	Vector Attraction Reduction Option
Other	Off-site Third-Party Preparer	Bulk	20	Class B: PSRP Air Drying	Choose an item.
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.

If "Other" is selected for Management Practice, please explain (e.g. monofill or transport to another WWTP): Monofill

D. Disposal site

Disposal site name: Port Isabel Wastewater Treatment Facility

TCEQ permit or registration number: WQ0010350001

County where disposal site is located: Cameron

E. Transportation method

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

Name of the hauler: Denali

Hauler registration number: 24979

Sludge is transported as a:

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

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

A. Beneficial use authorization

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

☐ Yes ☐ No

B. Sludge processing authorization

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

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

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

☒ Yes ☐ No

Section 11. Sewage Sludge Lagoons (Instructions Page 53)

Does this facility include sewage sludge lagoons?

☐ Yes ☒ No

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

A. Location information

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

- Original General Highway (County) Map:

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

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

  Attachment: Click to enter text.
- Site map:

  Attachment: Click to enter text.

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

☐ Overlap a designated 100-year frequency flood plain

☐ Soils with flooding classification

☐ Overlap an unstable area

☐ Wetlands

☐ Located less than 60 meters from a fault

☐ None of the above

Attachment: Click to enter text.

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

Click to enter text.

B. Temporary storage information

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

Nitrate Nitrogen, mg/kg: Click to enter text.

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

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

Phosphorus, mg/kg: Click to enter text.

Potassium, mg/kg: Click to enter text.

pH, standard units: Click to enter text.

Ammonia Nitrogen mg/kg: Click to enter text.

Arsenic: Click to enter text.

Cadmium: Click to enter text.

Chromium: Click to enter text.

Copper: Click to enter text.

Lead: Click to enter text.

Mercury: Click to enter text.

Molybdenum: Click to enter text.

Nickel: Click to enter text.

Selenium: Click to enter text.

Zinc: Click to enter text.

Total PCBs: Click to enter text.

Provide the following information:

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

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

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

C. Liner information

Does the active/proposed sludge lagoon(s) have a liner with a maximum hydraulic conductivity of $1x10^{-7}$ cm/sec?

☐ Yes ☐ No

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

Click to enter text.

D. Site development plan

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

Click to enter text.

Attach the following documents to the application.

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

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

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

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

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

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

  Attachment: Click to enter text.

E. Groundwater monitoring

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

☐ Yes ☐ No

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

Attachment: Click to enter text.

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

A. Additional authorizations

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

☐ Yes ☒ No

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

Click to enter text.

B. Permittee enforcement status

Is the permittee currently under enforcement for this facility?

☐ Yes ☒ No

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

☐ Yes ☒ No

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

Click to enter text.

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

A. RCRA hazardous wastes

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

☐ Yes ☒ No

B. Remediation activity wastewater

Has the facility received in the past three years, does it currently receive, or will it receive CERCLA wastewater, RCRA remediation/corrective action wastewater or other remediation activity wastewater?

☐ Yes ☒ No

C. Details about wastes received

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

Attachment: Click to enter text.

Section 14. Laboratory Accreditation (Instructions Page 56)

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

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

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

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

CERTIFICATION:

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

Printed Name: Scott Friedman

Title: Chairman

Signature: _____

Date: _____

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.1

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

Section 1. Justification for Permit (Instructions Page 57)

A. Justification of permit need

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

Click to enter text.

B. Regionalization of facilities

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

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

1. *Municipally incorporated areas*

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

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

☐ Yes ☐ No ☐ Not Applicable

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

If yes, attach correspondence from the city.

Attachment: Click to enter text.

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

Attachment: Click to enter text.

2. *Utility CCN areas*

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

☐ Yes ☐ No

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

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

Attachment: Click to enter text.

3. Nearby WWTPs or collection systems

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

☐ Yes ☐ No

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

Attachment: Click to enter text.

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

Attachment: Click to enter text.

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

Attachment: Click to enter text.

Section 2. Proposed Organic Loading (Instructions Page 59)

Is this facility in operation?

☐ Yes ☐ No

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

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

A. Current organic loading

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

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

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

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

Click to enter text.

B. Proposed organic loading

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

Table 1.1(1) – Design Organic Loading

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

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

A. Existing/Interim I Phase Design Effluent Quality

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

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

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

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

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

Other: Click to enter text.

B. Interim II Phase Design Effluent Quality

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

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

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

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

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

Other: Click to enter text.

C. Final Phase Design Effluent Quality

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

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

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

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

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

Other: Click to enter text.

D. Disinfection Method

Identify the proposed method of disinfection.

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

Dechlorination process: Click to enter text.

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

☐ Other: Click to enter text.

Section 4. Design Calculations (Instructions Page 59)

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

Attachment: Click to enter text.

Section 5. Facility Site (Instructions Page 60)

A. 100-year floodplain

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

☐ Yes ☐ No

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

Click to enter text.

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

Click to enter text.

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

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

B. Wind rose

Attach a wind rose: Click to enter text.

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

A. Beneficial use authorization

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

☐ Yes ☐ No

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

B. Sludge processing authorization

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

☐ Sludge Composting

☐ Marketing and Distribution of sludge

☐ Sludge Surface Disposal or Sludge Monofill

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

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

Attach a solids management plan to the application.

Attachment: Click to enter text.

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

- Treatment units and processes dimensions and capacities

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

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 2.0: RECEIVING WATERS

The following information is required for all TPDES permit applications.

Section 1. Domestic Drinking Water Supply (Instructions Page 64)

Is there a surface water intake for domestic drinking water supply located within 5 miles downstream from the point or proposed point of discharge?

☐ Yes ☒ No

If **no**, proceed it Section 2. **If yes**, provide the following:

Owner of the drinking water supply: Click to enter text.

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

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

Attachment: Click to enter text.

Section 2. Discharge into Tidally Affected Waters (Instructions Page 64)

Does the facility discharge into tidally affected waters?

☒ Yes ☐ No

If **no**, proceed to Section 3. **If yes**, complete the remainder of this section. If no, proceed to Section 3.

A. Receiving water outfall

Width of the receiving water at the outfall, in feet: Approximately 465

B. Oyster waters

Are there oyster waters in the vicinity of the discharge?

☒ Yes ☐ No

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

N/A

C. Sea grasses

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

☐ Yes ☒ No

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

N/A

Section 3. Classified Segments (Instructions Page 64)

Is the discharge directly into (or within 300 feet of) a classified segment?

☒ Yes ☐ No

If yes, this Worksheet is complete.

If no, complete Sections 4 and 5 of this Worksheet.

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

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

A. Receiving water type

Identify the appropriate description of the receiving waters.

☐ Stream

☐ Freshwater Swamp or Marsh

☐ Lake or Pond

Surface area, in acres: Click to enter text.

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

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

☐ Man-made Channel or Ditch

☐ Open Bay

☐ Tidal Stream, Bayou, or Marsh

☐ Other, specify: Click to enter text.

B. Flow characteristics

If a stream, man-made channel or ditch was checked above, provide the following. For existing discharges, check one of the following that best characterizes the area *upstream* of the discharge. For new discharges, characterize the area *downstream* of the discharge (check one).

☐ Intermittent - dry for at least one week during most years

☐ Intermittent with Perennial Pools - enduring pools with sufficient habitat to maintain significant aquatic life uses

☐ Perennial - normally flowing

Check the method used to characterize the area upstream (or downstream for new dischargers).

☐ USGS flow records

☐ Historical observation by adjacent landowners

☐ Personal observation

☐ Other, specify: Click to enter text.

C. Downstream perennial confluences

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

Click to enter text.

D. Downstream characteristics

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

☐ Yes ☐ No

If yes, discuss how.

Click to enter text.

E. Normal dry weather characteristics

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

Click to enter text.

Date and time of observation: Click to enter text.

Was the water body influenced by stormwater runoff during observations?

☐ Yes ☐ No

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

A. Upstream influences

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

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

B. Waterbody uses

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

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

C. Waterbody aesthetics

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

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 2.1: STREAM PHYSICAL CHARACTERISTICS

Required for new applications, major facilities, and applications adding an outfall.

Worksheet 2.1 is not required for discharges to intermittent streams or discharges directly to (or within 300 feet of) a classified segment.

Section 1. General Information (Instructions Page 66)

Date of study: Click to enter text. Time of study: Click to enter text.

Stream name: Click to enter text.

Location: Click to enter text.

Type of stream upstream of existing discharge or downstream of proposed discharge (check one).

☐ Perennial ☐ Intermittent with perennial pools

Section 2. Data Collection (Instructions Page 66)

Number of stream bends that are well defined: Click to enter text.

Number of stream bends that are moderately defined: Click to enter text.

Number of stream bends that are poorly defined: Click to enter text.

Number of riffles: Click to enter text.

Evidence of flow fluctuations (check one):

☐ Minor ☐ moderate ☐ severe

Indicate the observed stream uses and if there is evidence of flow fluctuations or channel obstruction/modification.

Click to enter text.

Stream transects

In the table below, provide the following information for each transect downstream of the existing or proposed discharges. Use a separate row for each transect.

Table 2.1(1) - Stream Transect Records

Stream type at transect Select riffle, run, glide, or pool. See Instructions, Definitions section.	**Transect location**	**Water surface width (ft)**	**Stream depths (ft)** at 4 to 10 points along each transect from the channel bed to the water surface. Separate the measurements with commas.
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.			

Section 3. Summarize Measurements (Instructions Page 66)

Streambed slope of entire reach, from USGS map in feet/feet: Click to enter text.

Approximate drainage area above the most downstream transect (from USGS map or county highway map, in square miles): Click to enter text.

Length of stream evaluated, in feet: Click to enter text.

Number of lateral transects made: Click to enter text.

Average stream width, in feet: Click to enter text.

Average stream depth, in feet: Click to enter text.

Average stream velocity, in feet/second: Click to enter text.

Instantaneous stream flow, in cubic feet/second: Click to enter text.

Indicate flow measurement method (type of meter, floating chip timed over a fixed distance, etc.): Click to enter text.

Size of pools (large, small, moderate, none): Click to enter text.

Maximum pool depth, in feet: Click to enter text.

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 3.0: LAND DISPOSAL OF EFFLUENT

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

Section 1. Type of Disposal System (Instructions Page 68)

Identify the method of land disposal:

- ☐ Surface application
- ☐ Irrigation
- ☐ Drip irrigation system
- ☐ Evaporation
- ☐ Subsurface application
- ☐ Subsurface soils absorption
- ☐ Subsurface area drip dispersal system
- ☐ Evapotranspiration beds
- ☐ Other (describe in detail): Click to enter text.

NOTE: All applicants without authorization or proposing new/amended subsurface disposal MUST complete and submit Worksheet 7.0.

For existing authorizations, provide Registration Number: Click to enter text.

Section 2. Land Application Site(s) (Instructions Page 68)

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

Table 3.0(1) – Land Application Site Crops

Crop Type & Land Use	Irrigation Area (acres)	Effluent Application (GPD)	Public Access? Y/N

Section 3. Storage and Evaporation Lagoons/Ponds (Instructions Page 68)

Table 3.0(2) – Storage and Evaporation Ponds

Pond Number	Surface Area (acres)	Storage Volume (acre-feet)	Dimensions	Liner Type

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

Attachment: Click to enter text.

Section 4. Flood and Runoff Protection (Instructions Page 68)

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

☐ Yes ☐ No

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

Click to enter text.

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

Click to enter text.

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

Click to enter text.

Section 5. Annual Cropping Plan (Instructions Page 68)

Attach an Annual Cropping Plan which includes a discussion of each of the following items. If not applicable, provide a detailed explanation indicating why. **Attachment**: Click to enter text.

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

Section 6. Well and Map Information (Instructions Page 69)

Attach a USGS map with the following information shown and labeled. If not applicable, provide a detailed explanation indicating why. **Attachment**: Click to enter text.

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

List and cross reference all water wells located within a half-mile radius of the disposal site or property boundaries shown on the USGS map in the following table. Attach additional pages as necessary to include all of the wells.

Table 3.0(3) – Water Well Data

Well ID	Well Use	Producing? Y/N	Open, cased, capped, or plugged?	Proposed Best Management Practice
			Choose an item.	
			Choose an item.	
			Choose an item.	
			Choose an item.	
			Choose an item.	

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

Attachment: Click to enter text.

Section 7. Groundwater Quality (Instructions Page 69)

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

Attachment: Click to enter text.

Are groundwater monitoring wells available onsite? ☐ Yes ☐ No

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

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

Attachment: Click to enter text.

Section 8. Soil Map and Soil Analyses (Instructions Page 70)

A. Soil map

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

Attachment: Click to enter text.

B. Soil analyses

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

Attachment: Click to enter text.

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

Table 3.0(4) – Soil Data

Soil Series	Depth from Surface	Permeability	Available Water Capacity	Curve Number

Section 9. Effluent Monitoring Data (Instructions Page 71)

Is the facility in operation?

☐ Yes ☐ No

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

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

Table 3.0(5) – Effluent Monitoring Data

Date	30 Day Avg Flow MGD	BOD5 mg/l	TSS mg/l	pH	Chlorine Residual mg/l	Acres irrigated

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

Click to enter text.

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 3.1: SURFACE LAND DISPOSAL OF EFFLUENT

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

Section 1. Surface Disposal (Instructions Page 72)

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

A. Irrigation

Area under irrigation, in acres: Click to enter text.

Design application frequency:

hours/day Click to enter text. **And** days/week Click to enter text.

Land grade (slope):

average percent (%): Click to enter text.

maximum percent (%): Click to enter text.

Design application rate in acre-feet/acre/year: Click to enter text.

Design total nitrogen loading rate, in lbs N/acre/year: Click to enter text.

Soil conductivity (mmhos/cm): Click to enter text.

Method of application: Click to enter text.

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

Attachment: Click to enter text.

B. Evaporation ponds

Daily average effluent flow into ponds, in gallons per day: Click to enter text.

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

Attachment: Click to enter text.

C. Evapotranspiration beds

Number of beds: Click to enter text.

Area of bed(s), in acres: Click to enter text.

Depth of bed(s), in feet: Click to enter text.

Void ratio of soil in the beds: Click to enter text.

Storage volume within the beds, in acre-feet: Click to enter text.

Attach a separate engineering report with the water balance and storage volume calculations, and a description of the lining.

Attachment: Click to enter text.

D. Overland flow

Area used for application, in acres: Click to enter text.

Slopes for application area, percent (%): Click to enter text.

Design application rate, in gpm/foot of slope width: Click to enter text.

Slope length, in feet: Click to enter text.

Design BOD_5 loading rate, in lbs BOD_5/acre/day: Click to enter text.

Design application frequency:

hours/day: Click to enter text. **And** days/week: Click to enter text.

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

Attachment: Click to enter text.

Section 2. Edwards Aquifer (Instructions Page 73)

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

☐ Yes ☐ No

If **yes**, is the facility located on the Edwards Aquifer Recharge Zone?

☐ Yes ☐ No

If yes, attach a geological report addressing potential recharge features.

Attachment: Click to enter text.

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 3.2: SURFACE LAND DISPOSAL OF EFFLUENT

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

NOTE: All applicants proposing new/amended subsurface disposal MUST complete and submit Worksheet 7.0. This worksheet applies to any subsurface disposal system that **does not meet** the definition of a subsurface area drip dispersal system as defined in *30 TAC Chapter 222, Subsurface Area Drip Dispersal System.*

Section 1. Subsurface Application (Instructions Page 74)

Identify the type of system:

- ☐ Conventional Gravity Drainfield, Beds, or Trenches (new systems must be less than 5,000 GPD)
- ☐ Low Pressure Dosing
- ☐ Other, specify: Click to enter text.

Application area, in acres: Click to enter text.

Area of drainfield, in square feet: Click to enter text.

Application rate, in gal/square foot/day: Click to enter text.

Depth to groundwater, in feet: Click to enter text.

Area of trench, in square feet: Click to enter text.

Dosing duration per area, in hours: Click to enter text.

Number of beds: Click to enter text.

Dosing amount per area, in inches/day: Click to enter text.

Infiltration rate, in inches/hour: Click to enter text.

Storage volume, in gallons: Click to enter text.

Area of bed(s), in square feet: Click to enter text.

Soil Classification: Click to enter text.

Attach a separate engineering report with the information required in *30 TAC § 309.20,* excluding the requirements of *§* 309.20 b(3)(A) and (B) design analysis which may be asked for on a case by case basis. Include a description of the schedule of dosing basin rotation.

Attachment: Click to enter text.

Section 2. Edwards Aquifer (Instructions Page 74)

Is the subsurface system over the Edwards Aquifer Recharge Zone as mapped by TCEQ?

☐ Yes ☐ No

Is the subsurface system over the Edwards Aquifer Transition Zone as mapped by TCEQ?

☐ Yes ☐ No

If yes to either question, the subsurface system may be prohibited by *30 TAC §213.8*. Please call the Municipal Permits Team, at 512-239-4671, to schedule a pre-application meeting.

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 3.3: SUBSURFACE AREA DRIP DISPERSAL (SADDS) LAND DISPOSAL OF EFFLUENT

The following **is required** for **new and major amendment** subsurface area drip dispersal system permit applications. Renewal and minor amendments applicants may be asked for the worksheet on a case by case basis.

NOTE: All applicants proposing new/amended subsurface disposal MUST complete and submit Worksheet 7.0. This worksheet applies to any subsurface disposal system that **meets** the definition of a subsurface area drip dispersal system as defined in *30 TAC Chapter 222, Subsurface Area Drip Dispersal System.*

Section 1. Administrative Information (Instructions Page 75)

A. Provide the legal name of all corporations or other business entities managed, owned, or otherwise closely related to the owner of the treatment facility:

B. Click to enter text. Is the owner of the land where the treatment facility is located the same as the owner of the treatment facility?

☐ Yes ☐ No

If **no**, provide the legal name of all corporations or other business entities managed, owned, or otherwise closely related to the owner of the land where the treatment facility is located.

Click to enter text.

C. Owner of the subsurface area drip dispersal system: Click to enter text.

D. Is the owner of the subsurface area drip dispersal system the same as the owner of the wastewater treatment facility or the site where the wastewater treatment facility is located?

☐ Yes ☐ No

If **no**, identify the names of all corporations or other business entities managed, owned, or otherwise closely related to the entity identified in Item 1.C.

Click to enter text.

E. Owner of the land where the subsurface area drip dispersal system is located: Click to enter text.

F. Is the owner of the land where the subsurface area drip dispersal system is located the same as owner of the wastewater treatment facility, the site where the wastewater treatment facility is located, or the owner of the subsurface area drip dispersal system?

☐ Yes ☐ No

If **no**, identify the name of all corporations or other business entities managed, owned, or otherwise closely related to the entity identified in item 1.E.

Click to enter text.

Section 2. Subsurface Area Drip Dispersal System (Instructions Page 75)

A. Type of system

☐ Subsurface Drip Irrigation

☐ Surface Drip Irrigation

☐ Other, specify: Click to enter text.

B. Irrigation operations

Application area, in acres: Click to enter text.

Infiltration Rate, in inches/hour: Click to enter text.

Average slope of the application area, percent (%): Click to enter text.

Maximum slope of the application area, percent (%): Click to enter text.

Storage volume, in gallons: Click to enter text.

Major soil series: Click to enter text.

Depth to groundwater, in feet: Click to enter text.

C. Application rate

Is the facility located **west** of the boundary shown in *30 TAC § 222.83* **and** also using a vegetative cover of non-native grasses over seeded with cool season grasses during the winter months (October-March)?

☐ Yes ☐ No

If yes, then the facility may propose a hydraulic application rate not to exceed 0.1 gal/square foot/day.

Is the facility located **east** of the boundary shown in *30 TAC § 222.83* **or** in any part of the state when the vegetative cover is any crop other than non-native grasses?

☐ Yes ☐ No

If **yes**, the facility must use the formula in *30 TAC §222.83* to calculate the maximum hydraulic application rate.

Do you plan to submit an alternative method to calculate the hydraulic application rate for approval by the executive director?

☐ Yes ☐ No

Hydraulic application rate, in gal/square foot/day: Click to enter text.

Nitrogen application rate, in lbs/gal/day: Click to enter text.

D. Dosing information

Number of doses per day: Click to enter text.

Dosing duration per area, in hours: Click to enter text.

Rest period between doses, in hours: Click to enter text.

Dosing amount per area, in inches/day: Click to enter text.

Number of zones: Click to enter text.

Does the proposed subsurface drip irrigation system use tree vegetative cover as a crop?

☐ Yes ☐ No

If **yes**, provide a vegetation survey by a certified arborist. Please call the Water Quality Assessment Team at (512) 239-4671 to schedule a pre-application meeting.

Attachment: Click to enter text.

Section 3. Required Plans (Instructions Page 75)

A. Recharge feature plan

Attach a Recharge Feature Plan with all information required in *30 TAC §222.79*.

Attachment: Click to enter text.

B. Soil evaluation

Attach a Soil Evaluation with all information required in *30 TAC §222.73*.

Attachment: Click to enter text.

C. Site preparation plan

Attach a Site Preparation Plan with all information required in *30 TAC §222.75*.

Attachment: Click to enter text.

D. Soil sampling/testing

Attach soil sampling and testing that includes all information required in *30 TAC §222.157*.

Attachment: Click to enter text.

Section 4. Floodway Designation (Instructions Page 76)

A. Site location

Is the existing/proposed land application site within a designated floodway?

☐ Yes ☐ No

B. Flood map

Attach either the FEMA flood map or alternate information used to determine the floodway.

Attachment: Click to enter text.

Section 5. Surface Waters in the State (Instructions Page 76)

A. Buffer Map

Attach a map showing appropriate buffers on surface waters in the state, water wells, and springs/seeps.

Attachment: Click to enter text.

B. Buffer variance request

Do you plan to request a buffer variance from water wells or waters in the state?

☐ Yes ☐ No

If yes, then attach the additional information required in *30 TAC § 222.81(c).*

Attachment: Click to enter text.

Section 6. Edwards Aquifer (Instructions Page 76)

A. Is the SADDS located over the Edwards Aquifer Recharge Zone as mapped by TCEQ?

☐ Yes ☐ No

B. Is the SADDS located over the Edwards Aquifer Transition Zone as mapped by TCEQ?

☐ Yes ☐ No

If yes to either question, then the SADDS may be prohibited by *30 TAC §213.8*. Please call the Municipal Permits Team at 512-239-4671 to schedule a pre-application meeting.

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 4.0: POLLUTANT ANALYSIS REQUIREMENTS

The following **is required** for facilities with a permitted or proposed flow of **1.0 MGD or greater**, facilities with an approved **pretreatment** program, or facilities classified as a **major** facility. See instructions for further details.

This worksheet is not required minor amendments without renewal.

Section 1. Toxic Pollutants (Instructions Page 78)

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

Grab ☒ Composite ☐

Date and time sample(s) collected: 12/05/24 8:00:00

Table 4.0(1) – Toxics Analysis

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acrylonitrile	<0.0010	0.0010	1	50
Aldrin	<0.00000997	0.00000997	1	0.01
Aluminum	0.0782	0.005	1	2.5
Anthracene	<0.00101	0.00101	1	10
Antimony	<0.003	0.003	1	5
Arsenic	0.00421	0.0005	1	0.5
Barium	0.0461	0.003	1	3
Benzene	<0.0010	0.0010	1	10
Benzidine	<0.0202	0.0202	1	50
Benzo(a)anthracene	<0.00101	0.00101	1	5
Benzo(a)pyrene	<0.00101	0.00101	1	5
Bis(2-chloroethyl)ether	<0.00101	0.00101	1	10
Bis(2-ethylhexyl)phthalate	<0.00758	0.00758	1	10
Bromodichloromethane	0.0152	0.0010	1	10
Bromoform	0.1480	0.0010	1	10
Cadmium	<0.001	0.001	1	1
Carbon Tetrachloride	<0.0010	0.0010	1	2
Carbaryl	<0.00249	0.00249	1	5
Chlordane*	<0.000199	0.000199	1	0.2
Chlorobenzene	<0.0010	0.0010	1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Chlorodibromomethane	0.0152	0.0010	1	10
Chloroform	0.00353	0.0010	1	10
Chlorpyrifos	<0.0000499	0.0000499	1	0.05
Chromium (Total)	0.00127	0.001	1	3
Chromium (Tri) **(*1)**	<0.003	0.003	1	N/A
Chromium (Hex)	<0.0030	0.0030	1	3
Copper	0.0064	0.001	1	2
Chrysene	<0.00101	0.00101	1	5
p-Chloro-m-Cresol	<0.00242	0.00242	1	10
4,6-Dinitro-o-Cresol	<0.00626	0.00626	1	50
p-Cresol	<0.00525	0.00525	1	10
Cyanide **(*2)**	0.0186	0.005	1	10
4,4'- DDD	<0.00000997	0.00000997	1	0.1
4,4'- DDE	0.0000136	0.00000997	1	0.1
4,4'- DDT	<0.00000997	0.00000997	1	0.02
2,4-D	<0.000504	0.000504	1	0.7
Demeton (O and S)	<0.0000499	0.0000499	1	0.20
Diazinon	<0.0000499	0.0000499	1	0.5/0.1
1,2-Dibromoethane	<0.0010	0.0010	1	10
m-Dichlorobenzene	<0.0010	0.0010	1	10
o-Dichlorobenzene	<0.0010	0.0010	1	10
p-Dichlorobenzene	<0.0010	0.0010	1	10
3,3'-Dichlorobenzidine	<0.0050	0.0050	1	5
1,2-Dichloroethane	<0.0010	0.0010	1	10
1,1-Dichloroethylene	<0.0010	0.0010	1	10
Dichloromethane	<0.00102	0.00102	1	20
1,2-Dichloropropane	<0.0010	0.0010	1	10
1,3-Dichloropropene	<0.0010	0.0010	1	10
Dicofol	<0.0000499	0.0000499	1	1
Dieldrin	<0.00000997	0.00000997		0.02
2,4-Dimethylphenol	<0.00242	0.00242	1	10
Di-n-Butyl Phthalate	<0.00758	0.00758	1	10
Diuron	<0.0000449	0.0000449	1	0.09

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Endosulfan I (alpha)	<0.00000997	0.00000997	1	0.01
Endosulfan II (beta)	<0.00000997	0.00000997	1	0.02
Endosulfan Sulfate	<0.00000997	0.00000997	1	0.1
Endrin	<0.00000997	0.00000997	1	0.02
Ethylbenzene	<0.0010	0.0010	1	10
Fluoride	<0.0010	0.0010	1	500
Guthion	<0.0000499	0.0000499	1	0.1
Heptachlor	<0.00000997	0.00000997	1	0.01
Heptachlor Epoxide	<0.00000001	0.00000001	1	0.01
Hexachlorobenzene	<0.00101	0.00101	1	5
Hexachlorobutadiene	<0.00101	0.00101	1	10
Hexachlorocyclohexane (alpha)	<0.00000997	0.00000997	1	0.05
Hexachlorocyclohexane (beta)	<0.00000997	0.00000997	1	0.05
gamma-Hexachlorocyclohexane (Lindane)	<0.00000997	0.00000997	1	0.05
Hexachlorocyclopentadiene	<0.00909	0.00909	1	10
Hexachloroethane	<0.00101	0.00101	1	20
Hexachlorophene	<0.00251	0.00251	1	10
Lead	<0.001	0.001	1	0.5
Malathion	<0.0000499	0.0000499	1	0.1
Mercury	<0.00000532	0.00000532	1	0.005
Methoxychlor	<0.00000997	0.00000997	1	2
Methyl Ethyl Ketone	<0.0010	0.0010	1	50
Mirex	0.00002	0.00000997	1	0.02
Nickel	0.00342	0.001	1	2
Nitrate-Nitrogen	35.7	0.100	1	100
Nitrobenzene	<0.00101	0.00101	1	10
N-Nitrosodiethylamine	<0.00101	0.00101	1	20
N-Nitroso-di-n-Butylamine	<0.00101	0.00101	1	20
Nonylphenol	<0.0337	0.0337	1	333
Parathion (ethyl)	<0.0000499	0.0000499	1	0.1
Pentachlorobenzene	<0.00101	0.00101	1	20
Pentachlorophenol	<0.00101	0.00101	1	5

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Phenanthrene	<0.00101	0.00101	1	10
Polychlorinated Biphenyls (PCB's) **(*3)**	<0.000199	0.000199	1	0.2
Pyridine	<0.00545	0.00545	1	20
Selenium	<0.005	0.005	1	5
Silver	<0.0005	0.0005	1	0.5
1,2,4,5-Tetrachlorobenzene	<0.00101	0.00101	1	20
1,1,2,2-Tetrachloroethane	<0.0010	0.0010	1	10
Tetrachloroethylene	<0.0010	0.0010	1	10
Thallium	<0.001	0.001	1	0.5
Toluene	<0.0010	0.0010	1	10
Toxaphene	<0.000199	0.000199	1	0.3
2,4,5-TP (Silvex)	<0.0003	0.0003	1	0.3
Tributyltin (see instructions for explanation)	N/A	N/A	N/A	0.01
1,1,1-Trichloroethane	<0.0010	0.0010	1	10
1,1,2-Trichloroethane	<0.0010	0.0010	1	10
Trichloroethylene	<0.0010	0.0010	1	10
2,4,5-Trichlorophenol	<0.00101	0.00101	1	50
TTHM (Total Trihalomethanes)	0.24433	.24433	1	10
Vinyl Chloride	<0.0010	0.0010	1	10
Zinc	0.0556	0.001	1	5

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

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

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

Section 2. Priority Pollutants

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

Grab ☒ Composite ☐

Date and time sample(s) collected: 12/5/2024 at 08:00:00

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

Pollutant	**AVG Effluent Conc. (µg/l)**	**MAX Effluent Conc. (µg/l)**	**Number of Samples**	**MAL (µg/l)**
Antimony	<0.003	0.003	1	5
Arsenic	0.00421	0.00421	1	0.5
Beryllium	<0.0005	0.0005	1	0.5
Cadmium	<0.001	0.001	1	1
Chromium (Total)	0.00127	0.001	1	3
Chromium (Hex)	<0.0030	0.0030	1	3
Chromium (Tri) **(*1)**	<0.003	0.003	1	N/A
Copper	0.0064	0.001	1	2
Lead	<0.001	0.001	1	0.5
Mercury	<0.00000532	0.00000532	1	0.005
Nickel	0.00342	0.001	1	2
Selenium	<0.005	0.005	1	5
Silver	<0.0005	0.0005	1	0.5
Thallium	<0.001	0.001	1	0.5
Zinc	0.0556	0.0005	1	5
Cyanide **(*2)**	0.0186	0.005	1	10
Phenols, Total	0.011	0.005	1	10

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

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

Table 4.0(2)B – Volatile Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acrolein	<0.0040	0.0040	1	50
Acrylonitrile	<0.0010	0.0010	1	50
Benzene	<0.0010	0.0010	1	10
Bromoform	0.1480	0.0010	1	10
Carbon Tetrachloride	<0.0010	0.0010	1	2
Chlorobenzene	<0.0010	0.0010	1	10
Chlorodibromomethane	0.0776	0.0010	1	10
Chloroethane	<0.00112	0.00112	1	50
2-Chloroethylvinyl Ether	<0.0010	0.0010	1	10
Chloroform	0.00353	0.0010	1	10
Dichlorobromomethane [Bromodichloromethane]	0.0776	0.0010	1	10
1,1-Dichloroethane	<0.0010	0.0010	1	10
1,2-Dichloroethane	<0.0010	0.0010	1	10
1,1-Dichloroethylene	<0.0010	0.0010	1	10
1,2-Dichloropropane	<0.0010	0.0010	1	10
1,3-Dichloropropylene [1,3-Dichloropropene]	<0.0010	0.0010	1	10
1,2-Trans-Dichloroethylene	<0.0010	0.0010	1	10
Ethylbenzene	<0.0010	0.0010	1	10
Methyl Bromide	<0.0010	0.0010	1	50
Methyl Chloride	<0.0010	0.0010	1	50
Methylene Chloride	<0.00102	0.00102	1	20
1,1,2,2-Tetrachloroethane	<0.0010	0.0010	1	10
Tetrachloroethylene	<0.0010	0.0010	1	10
Toluene	<0.0010	0.0010	1	10
1,1,1-Trichloroethane	<0.0010	0.0010	1	10
1,1,2-Trichloroethane	<0.0010	0.0010	1	10
Trichloroethylene	<0.0010	0.0010	1	10
Vinyl Chloride	<0.0010	0.0010	1	10

Table 4.0(2)C – Acid Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
2-Chlorophenol	<0.00101	0.00101	1	10
2,4-Dichlorophenol	<0.00101	0.00101	1	10
2,4-Dimethylphenol	<0.00242	0.00242	1	10
4,6-Dinitro-o-Cresol	<0.00626	0.00626	1	50
2,4-Dinitrophenol	<0.00909	0.00909	1	50
2-Nitrophenol	<0.00101	0.00101	1	20
4-Nitrophenol	<0.00101	0.00101	1	50
P-Chloro-m-Cresol	<0.00242	0.00242	1	10
Pentalchlorophenol	<0.00101	0.00101	1	5
Phenol	<0.00152	0.00152	1	10
2,4,6-Trichlorophenol	<0.00101	0.00101	1	10

Table 4.0(2)D – Base/Neutral Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acenaphthene	<0.00101	0.00101	1	10
Acenaphthylene	<0.00101	0.00101	1	10
Anthracene	<0.00101	0.00101	1	10
Benzidine	<0.0202	0.0202	1	50
Benzo(a)Anthracene	<0.00101	0.00101	1	5
Benzo(a)Pyrene	<0.00101	0.00101	1	5
3,4-Benzofluoranthene	<0.00101	0.00101	1	10
Benzo(ghi)Perylene	<0.00101	0.00101	1	20
Benzo(k)Fluoranthene	<0.00101	0.00101	1	5
Bis(2-Chloroethoxy)Methane	<0.00101	0.00101	1	10
Bis(2-Chloroethyl)Ether	<0.00101	0.00101	1	10
Bis(2-Chloroisopropyl)Ether	<0.00101	0.00101	1	10
Bis(2-Ethylhexyl)Phthalate	<0.00758	0.00758	1	10
4-Bromophenyl Phenyl Ether	<0.00101	0.00101	1	10
Butyl benzyl Phthalate	<0.00758	0.00758	1	10
2-Chloronaphthalene	<0.00101	0.00101	1	10
4-Chlorophenyl phenyl ether	<0.00101	0.00101	1	10
Chrysene	<0.00101	0.00101	1	5
Dibenzo(a,h)Anthracene	<0.00101	0.00101	1	5
1,2-(o)Dichlorobenzene	<0.00101	0.00101	1	10
1,3-(m)Dichlorobenzene	<0.00101	0.00101	1	10
1,4-(p)Dichlorobenzene	<0.00101	0.00101	1	10
3,3-Dichlorobenzidine	<0.0050	0.0050	1	5
Diethyl Phthalate	<0.00576	0.00576	1	10
Dimethyl Phthalate	<0.00485	0.00485	1	10
Di-n-Butyl Phthalate	<0.00758	0.00758	1	10
2,4-Dinitrotoluene	<0.00354	0.00354	1	10
2,6-Dinitrotoluene	<0.00101	0.00101	1	10
Di-n-Octyl Phthalate	<0.00101	0.00101	1	10
1,2-Diphenylhydrazine (as Azo-benzene)	<0.00101	0.00101	1	20
Fluoranthene	<0.00101	0.00101	1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Fluorene	<0.00101	0.00101	1	10
Hexachlorobenzene	<0.00101	0.00101	1	5
Hexachlorobutadiene	<0.00101	0.00101	1	10
Hexachlorocyclo-pentadiene	<0.00909	0.00909	1	10
Hexachloroethane	<0.00101	0.00101	1	20
Indeno(1,2,3-cd)pyrene	<0.00101	0.00101	1	5
Isophorone	<0.00101	0.00101	1	10
Naphthalene	<0.00101	0.00101	1	10
Nitrobenzene	<0.00101	0.00101	1	10
N-Nitrosodimethylamine	<0.00101	0.00101	1	50
N-Nitrosodi-n-Propylamine	<0.00101	0.00101	1	20
N-Nitrosodiphenylamine	<0.00101	0.00101	1	20
Phenanthrene	<0.00101	0.00101	1	10
Pyrene	<0.00101	0.00101	1	10
1,2,4-Trichlorobenzene	<0.00101	0.00101	1	10

Table 4.0(2)E - Pesticides

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Aldrin	<0.00000997	0.00000997	1	0.01
alpha-BHC (Hexachlorocyclohexane)	<0.00000997	0.00000997	1	0.05
beta-BHC (Hexachlorocyclohexane)	<0.00000997	0.00000997	1	0.05
gamma-BHC (Hexachlorocyclohexane)	<0.00000997	0.00000997	1	0.05
delta-BHC (Hexachlorocyclohexane)	<0.00000997	0.00000997	1	0.05
Chlordane	<0.000199	0.000199	1	0.2
4,4-DDT	<0.00000997	0.00000997	1	0.02
4,4-DDE	0.0000136	0.00000997	1	0.1
4,4,-DDD	<0.00000997	0.00000997	1	0.1
Dieldrin	<0.00000997	0.00000997	1	0.02
Endosulfan I (alpha)	<0.00000997	0.00000997	1	0.01
Endosulfan II (beta)	<0.00000997	0.00000997	1	0.02
Endosulfan Sulfate	<0.00000997	0.00000997	1	0.1
Endrin	<0.00000997	0.00000997	1	0.02
Endrin Aldehyde	<0.00000997	0.00000997	1	0.1
Heptachlor	<0.00000997	0.00000997	1	0.01
Heptachlor Epoxide	<0.00000001	0.00000001	1	0.01
PCB-1242	<0.000199	0.000199	1	0.2
PCB-1254	<0.000199	0.000199	1	0.2
PCB-1221	<0.000199	0.000199	1	0.2
PCB-1232	<0.000199	0.000199	1	0.2
PCB-1248	<0.000199	0.000199	1	0.2
PCB-1260	<0.000199	0.000199	1	0.2
PCB-1016	<0.0002	0.0002	1	0.2
Toxaphene	<0.000199	0.000199		0.3

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

Section 3. Dioxin/Furan Compounds

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

☐ 2,4,5-trichlorophenoxy acetic acid

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

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

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

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

Common Name Erbon, CASRN 136-25-4

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

Common Name Ronnel, CASRN 299-84-3

☐ 2,4,5-trichlorophenol

Common Name TCP, CASRN 95-95-4

☐ hexachlorophene

Common Name HCP, CASRN 70-30-4

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

N/A

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

☐ Yes ☒ No

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

Click to enter text.

C. If any of the compounds in Subsection A **or** B are present, complete Table 4.0(2)F.

For pollutants identified in Table 4.0(2)F, indicate the type of sample.

Grab ☐ Composite ☐

Date and time sample(s) collected: N/A

Table 4.0(2)F – Dioxin/Furan Compounds

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 5.0: TOXICITY TESTING REQUIREMENTS

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

This worksheet is not required minor amendments without renewal.

Section 1. Required Tests (Instructions Page 88)

Indicate the number of 7-day chronic or 48-hour acute Whole Effluent Toxicity (WET) tests performed in the four and one-half years prior to submission of the application.

7-day Chronic: 18

48-hour Acute: 9

Section 2. Toxicity Reduction Evaluations (TREs)

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

☐ Yes ☒ No

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

Click to enter text.

Section 3. Summary of WET Tests

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

Table 5.0(1) Summary of WET Tests

Test Date	Test Species	NOEC Survival	NOEC Sub-lethal

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 6.0: INDUSTRIAL WASTE CONTRIBUTION

The following **is required** for **all publicly owned treatment works**.

Section 1. All POTWs (Instructions Page 89)

A. Industrial users (IUs)

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

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

Categorical IUs:

Number of IUs: 0

Average Daily Flows, in MGD: 0

Significant IUs – non-categorical:

Number of IUs: 0

Average Daily Flows, in MGD: 0

Other IUs:

Number of IUs: 0

Average Daily Flows, in MGD: 0

B. Treatment plant interference

In the past three years, has your POTW experienced treatment plant interference (see instructions)?

☐ Yes ☒ No

If yes, identify the dates, duration, description of interference, and probable cause(s) and possible source(s) of each interference event. Include the names of the IUs that may have caused the interference.

Click to enter text.

C. Treatment plant pass through

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

☐ Yes ☒ No

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

Click to enter text.

D. Pretreatment program

Does your POTW have an approved pretreatment program?

☐ Yes ☒ No

If yes, complete Section 2 only of this Worksheet.

Is your POTW required to develop an approved pretreatment program?

☐ Yes ☐ No

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

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

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

A. Substantial modifications

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

☐ Yes ☐ No

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

Click to enter text.

B. Non-substantial modifications

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

☐ Yes ☐ No

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

Click to enter text.

C. Effluent parameters above the MAL

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

Table 6.0(1) – Parameters Above the MAL

Pollutant	Concentration	MAL	Units	Date

D. Industrial user interruptions

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

☐ Yes ☐ No

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

Click to enter text.

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

A. General information

Company Name: Click to enter text.

SIC Code: Click to enter text.

Contact name: Click to enter text.

Address: Click to enter text.

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

Telephone number: Click to enter text.

Email address: Click to enter text.

B. Process information

Describe the industrial processes or other activities that affect or contribute to the SIU(s) or CIU(s) discharge (i.e., process and non-process wastewater).

Click to enter text.

C. Product and service information

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

Click to enter text.

D. Flow rate information

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

Process Wastewater:

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

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

Non-Process Wastewater:

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

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

E. Pretreatment standards

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

☐ Yes ☐ No

Is the SIU or CIU subject to categorical pretreatment standards found in *40 CFR Parts 405-471*?

☐ Yes ☐ No

If subject to categorical pretreatment standards, indicate the applicable category and subcategory for each categorical process.

Category: Subcategories: Click to enter text.

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

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

F. Industrial user interruptions

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

☐ Yes ☐ No

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

Click to enter text.

WORKSHEET 7.0

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

CLASS V INJECTION WELL INVENTORY/AUTHORIZATION FORM

Submit the completed form to:

TCEQ
IUC Permits Team
Radioactive Materials Division
MC-233
PO Box 13087
Austin, Texas 78711-3087
512-239-6466

For TCEQ Use Only
Reg. No._____
Date Received_____
Date Authorized_____

Section 1. General Information (Instructions Page 92)

1. TCEQ Program Area

Program Area (PST, VCP, IHW, etc.): Click to enter text.

Program ID: Click to enter text.

Contact Name: Click to enter text.

Phone Number: Click to enter text.

2. Agent/Consultant Contact Information

Contact Name: Click to enter text.

Address: Click to enter text.

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

Phone Number: Click to enter text.

3. Owner/Operator Contact Information

☐ Owner ☐ Operator

Owner/Operator Name: Click to enter text.

Contact Name: Click to enter text.

Address: Click to enter text.

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

Phone Number: Click to enter text.

4. Facility Contact Information

Facility Name: Click to enter text.

Address: Click to enter text.

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

Location description (if no address is available): Click to enter text.

Facility Contact Person: Click to enter text.

Phone Number: Click to enter text.

5. **Latitude and Longitude, in degrees-minutes-seconds**

Latitude: Click to enter text.

Longitude: Click to enter text.

Method of determination (GPS, TOPO, etc.): Click to enter text.

Attach topographic quadrangle map as attachment A.

6. **Well Information**

Type of Well Construction, select one:

- ☐ Vertical Injection
- ☐ Subsurface Fluid Distribution System
- ☐ Infiltration Gallery
- ☐ Temporary Injection Points
- ☐ Other, Specify: Click to enter text.

Number of Injection Wells: Click to enter text.

7. **Purpose**

Detailed Description regarding purpose of Injection System:

Click to enter text.

Attach a Site Map as Attachment B (Attach the Approved Remediation Plan, if appropriate.)

8. **Water Well Driller/Installer**

Water Well Driller/Installer Name: Click to enter text.

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

Phone Number: Click to enter text.

License Number: Click to enter text.

Section 2. Proposed Down Hole Design

Attach a diagram signed and sealed by a licensed engineer as Attachment C.

Table 7.0(1) – Down Hole Design Table

Name of String	Size	Setting Depth	Sacks Cement/Grout – Slurry Volume – Top of Cement	Hole Size	Weight (lbs/ft) PVC/Steel
Casing					
Tubing					
Screen					

Section 3. Proposed Trench System, Subsurface Fluid Distribution System, or Infiltration Gallery

Attach a diagram signed and sealed by a licensed engineer as Attachment D.

System(s) Dimensions: Click to enter text.

System(s) Construction: Click to enter text.

Section 4. Site Hydrogeological and Injection Zone Data

1. Name of Contaminated Aquifer: Click to enter text.

2. Receiving Formation Name of Injection Zone: Click to enter text.

3. Well/Trench Total Depth: Click to enter text.

4. Surface Elevation: Click to enter text.

5. Depth to Ground Water: Click to enter text.

6. Injection Zone Depth: Click to enter text.

7. Injection Zone vertically isolated geologically? ☐ Yes ☐ No

Impervious Strata between Injection Zone and nearest Underground Source of Drinking Water:

Name: Click to enter text.

Thickness: Click to enter text.

8. Provide a list of contaminants and the levels (ppm) in contaminated aquifer

Attach as Attachment E.

9. Horizontal and Vertical extent of contamination and injection plume

Attach as Attachment F.

10. Formation (Injection Zone) Water Chemistry (Background levels) TDS, etc.

Attach as Attachment G.

11. Injection Fluid Chemistry in PPM at point of injection

Attach as Attachment H.

12. Lowest Known Depth of Ground Water with < 10,000 PPM TDS: Click to enter text.

13. Maximum injection Rate/Volume/Pressure: Click to enter text.

14. Water wells within 1/4 mile radius (attach map as Attachment I): Click to enter text.

15. Injection wells within 1/4 mile radius (attach map as Attachment J): Click to enter text.

16. Monitor wells within 1/4 mile radius (attach drillers logs and map as Attachment K): Click to enter text.

17. Sampling frequency: Click to enter text.

18. Known hazardous components in injection fluid: Click to enter text.

Section 5. Site History

1. Type of Facility: Click to enter text.
2. Contamination Dates: Click to enter text.
3. Original Contamination (VOCs, TPH, BTEX, etc.) and Concentrations (attach as Attachment L): Click to enter text.
4. Previous Remediation (attach results of any previous remediation as attachment M): Click to enter text.

NOTE: Authorization Form should be completed in detail and authorization given by the TCEQ before construction, operation, and/or conversion can begin. Attach additional pages as necessary.

Class V Injection Well Designations

5A07 Heat Pump/AC return (IW used for groundwater to heat and/or cool buildings)
5A19 Industrial Cooling Water Return Flow (IW used to cool industrial process equipment)
5B22 Salt Water Intrusion Barrier (IW used to inject fluids to prevent the intrusion of salt water into an aquifer)
5D02 Storm Water Drainage (IW designed for the disposal of rain water)
5D04 Industrial Stormwater Drainage Wells (IW designed for the disposal of rain water associated with industrial facilities)
5F01 Agricultural Drainage (IW that receive agricultural runoff)
5R21 Aquifer Recharge (IW used to inject fluids to recharge an aquifer)
5S23 Subsidence Control Wells (IW used to control land subsidence caused by ground water withdrawal)
5W09 Untreated Sewage
5W10 Large Capacity Cesspools (Cesspools that are designed for 5,000 gpd or greater)
5W11 Large Capacity Septic systems (Septic systems designed for 5,000 gpd or greater)
5W12 WTTP disposal
5W20 Industrial Process Waste Disposal Wells
5W31 Septic System (Well Disposal method)
5W32 Septic System Drainfield Disposal
5X13 Mine Backfill (IW used to control subsidence, dispose of mining byproducts, and/or fill sections of a mine)
5X25 Experimental Wells (Pilot Test) (IW used to test new technologies or tracer dye studies)
5X26 Aquifer Remediation (IW used to clean up, treat, or prevent contamination of a USDW)
5X27 Other Wells
5X28 Motor Vehicle Waste Disposal Wells (IW used to dispose of waste from a motor vehicle site - These are currently banned)
5X29 Abandoned Drinking Water Wells (waste disposal)

2.1 Effluent Discharge Limits

The plant discharge is currently in the process of being relocated from the mud flats to the Intercoastal Channel. This change in location will impact the discharge limits. The anticipated design discharge permit limits for the plant modifications and upgrade are shown in Table 1. The discharge limits for total suspended solids (TSS) and five-day carbonaceous biochemical oxygen demand ($CBOD_5$) are not expected to change with the change in discharge location. However, it is anticipated that the ammonia nitrogen (NH_3-N) limits will be lowered. Limits on metals are expected to be less stringent than the current permit limits. The plant modifications and upgrade will be designed to meet these anticipated future discharge requirements.

Table 1 Anticipated Effluent Discharge Limits
Port Isabel Wastewater Treatment Facility Modifications and Upgrade
Laguna Madre Water District

Parameter	Limit, mg/L
$CBOD_5$	10
TSS	15
NH3-N	2
Minimum DO	4

2.2 Design Flows and Loadings

Flow projections for the Port Isabel WWTF service area are shown in Table 2. The current design capacity of the plant is expected to be adequate beyond the year 2035.

Table 2 Projected Wastewater Flows
Port Isabel Wastewater Treatment Facility Modifications and Upgrade
Laguna Madre Water District

Year	Annual Average Daily Flow, mgd
2015	0.80
2020	0.86
2025	0.93
2035	1.0

At the current projected rate of flow increase, the capacity of the upgraded plant is anticipated to be adequate until 2040 (25 years). Converting the existing sludge holding basins to aeration basins and adding a third secondary clarifier will increase the plant capacity to 2.0 mgd. Therefore, some limited accommodations will be included in this project for an AADF beyond 1.1 mgd.

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Laguna Madre Water District
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Port Isabel, TX 78578-

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TABLE OF CONTENTS

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Email: Kilgore.ProjectManagement@spllabs.com

2600 Dudley Rd. Kilgore, Texas 75662
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SAMPLE CROSS REFERENCE

Project
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Laguna Madre Water District
Mark A. Garza
105 Port Rd.
Port Isabel, TX 78578-

Sample	Sample ID	Taken	Time	Received
2370279	*SAMPLE #1 ANDY BOWIE WWTP*	01/06/2025	15:43:00	01/07/2025

Bottle 01 Na2S2O3 (0.008%) Polystyrene-250 mL Sterilized

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
SM 9221 E-2014 (A1)	01	1155665	01/08/2025	1155665	01/08/2025
Calculation			01/14/2025		01/14/2025
SM2540 G-1997 /MOD	01	1155172	01/07/2025	1155172	01/07/2025

Sample	Sample ID	Taken	Time	Received
2370281	*SAMPLE #2 ANDY BOWIE WWTP*	01/06/2025	15:44:00	01/07/2025

Bottle 01 Na2S2O3 (0.008%) Polystyrene-250 mL Sterilized

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
SM 9221 E-2014 (A1)	01	1155665	01/08/2025	1155665	01/08/2025
SM2540 G-1997 /MOD	01	1155172	01/07/2025	1155172	01/07/2025

Sample	Sample ID	Taken	Time	Received
2370282	*SAMPLE #3 ANDY BOWIE WWTP*	01/06/2025	15:45:00	01/07/2025

Bottle 01 Na2S2O3 (0.008%) Polystyrene-250 mL Sterilized

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
SM 9221 E-2014 (A1)	01	1155665	01/08/2025	1155665	01/08/2025
SM2540 G-1997 /MOD	01	1155172	01/07/2025	1155172	01/07/2025

Sample	Sample ID	Taken	Time	Received
2370283	*SAMPLE #4 ANDY BOWIE WWTP*	01/06/2025	15:46:00	01/07/2025

Bottle 01 Na2S2O3 (0.008%) Polystyrene-250 mL Sterilized

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
SM 9221 E-2014 (A1)	01	1155282	01/08/2025	1155282	01/08/2025
SM2540 G-1997 /MOD	01	1155172	01/07/2025	1155172	01/07/2025

Sample	Sample ID	Taken	Time	Received
2370284	*SAMPLE #5 ANDY BOWIE WWTP*	01/06/2025	15:47:00	01/07/2025

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SAMPLE CROSS REFERENCE

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Laguna Madre Water District
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Bottle 01 Na2S2O3 (0.008%) Polystyrene-250 mL Sterilized

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
SM 9221 E-2014 (A1)	01	1155282	01/08/2025	1155282	01/08/2025
SM2540 G-1997 /MOD	01	1155172	01/07/2025	1155172	01/07/2025

Sample	Sample ID	Taken	Time	Received
2370285	*SAMPLE #6 ANDY BOWIE WWTP*	01/06/2025	15:48:00	01/07/2025

Bottle 01 Na2S2O3 (0.008%) Polystyrene-250 mL Sterilized

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
SM 9221 E-2014 (A1)	01	1155282	01/08/2025	1155282	01/08/2025
SM2540 G-1997 /MOD	01	1155172	01/07/2025	1155172	01/07/2025

Sample	Sample ID	Taken	Time	Received
2370286	*SAMPLE #7 ANDY BOWIE WWTP*	01/06/2025	15:49:00	01/07/2025

Bottle 01 Na2S2O3 (0.008%) Polystyrene-250 mL Sterilized

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
SM 9221 E-2014 (A1)	01	1155282	01/08/2025	1155282	01/08/2025
SM2540 G-1997 /MOD	01	1155172	01/07/2025	1155172	01/07/2025

Sample	Sample ID	Taken	Time	Received
2370287	*Sludge ANDY BOWIE WWTP*	01/06/2025	15:42:00	01/07/2025

Bottle 01 Glass 4 oz w/Teflon lined lid

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
SM 2710 B-2004	01	1155202	01/08/2025	1155202	01/08/2025
SM 2710 B-2011 MOD			01/08/2025		01/08/2025
SM2540 G-1997 /MOD	01	1155745	01/10/2025	1155745	01/10/2025
SM 2540 D-2015			01/07/2025		01/07/2025
SM 2540 G-1997	01	1155746	01/10/2025	1155746	01/10/2025
EPA 160.4			01/07/2025		01/07/2025

Sample	Sample ID	Taken	Time	Received
2370289	*ID ANDY BOWIE WWTP*	01/06/2025	15:40:00	01/07/2025

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Bottle 01 Glass Qt w/Teflon lined lid
Bottle 02 Glass Qt w/Teflon lined lid
Bottle 03 Glass 4 oz w/Teflon lined lid
Bottle 04 Prepared Bottle: TCLP Extract for TVOA (Batch 1155010)<== Derived from 01 (0 ml)
Bottle 05 Prepared Bottle: TEDLAR BAG (Batch 1155010) Volume: 300.00000 mL <== Derived from 01 (15 ml)
Bottle 06 Prepared Bottle: TCLP Extract (Batch 1155021) Volume: 2000.00000 mL <== Derived from 01 (100 ml)
Bottle 07 Prepared Bottle: TCLP Extract for Metals (Batch 1155021) Volume: 100.00000 mL <== Derived from 01 (300 ml)
Bottle 08 Prepared Bottle: TCLP Extract for TABN/TCYH (Batch 1155021) Volume: 2000.00000 mL <== Derived from 01 (100 ml)
Bottle 09 Prepared Bottle: TCLP Acid Mercury Digestion (Batch 1155135) Volume: 50.00000 mL <== Derived from 07 (2.5 ml)
Bottle 10 Prepared Bottle: TG80 2 mL Autosampler Vial (Batch 1155237) Volume: 10.00000 mL <== Derived from 08 (200 ml)
Bottle 11 Prepared Bottle: TG80 2 mL Autosampler Vial (Batch 1155237) Volume: 10.00000 mL <== Derived from 08 (200 ml)
Bottle 12 Prepared Bottle: 2 mL Autosampler Vial (Batch 1155243) Volume: 1.00000 mL <== Derived from 08 (100 ml)
Bottle 13 Prepared Bottle: TCLP Acid Digestion (Batch 1155300) Volume: 50.00000 mL <== Derived from 07 (10 ml)
Bottle 14 Prepared Bottle: 2 mL Autosampler Vial (Batch 1155591) Volume: 10.00000 mL <== Derived from 08 (1 ml)
Bottle 15 Prepared Bottle:PCBL 2 mL Autosampler Vial (Batch 1156017) Volume: 10.00000 mL <== Derived from 01 (10 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 8082	15	1156017	01/14/2025	1157527	01/16/2025
EPA 6010C	13	1155300	01/08/2025	1155468	01/09/2025
EPA 7470 A	09	1155135	01/08/2025	1155267	01/08/2025
EPA 8260B	05	1155010	01/07/2025	1155610	01/09/2025
EPA 8081A	10	1155237	01/08/2025	1155718	01/09/2025
EPA 8270C	12	1155243	01/08/2025	1156300	01/15/2025
EPA 8151	14	1155591	01/10/2025	1155910	01/13/2025
SM2540 G-1997 /MOD	01	1155172	01/07/2025	1155172	01/07/2025

Sample	Sample ID	Taken	Time	Received
2370291	*Sludge ANDY BOWIE WWTP*	01/06/2025	15:41:00	01/07/2025

Bottle 01 Glass 4 oz w/Teflon lined lid
Bottle 02 Prepared Bottle: ICP Preparation for Metals (Batch 1155621) Volume: 50.00000 mL <== Derived from 01 (2.8 grams)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 6020A	02	1155621	01/10/2025	1156130	01/14/2025
SM2540 G-1997 /MOD	01	1155172	01/07/2025	1155172	01/07/2025

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RESULTS

Sample Results

2370279 SAMPLE #1 ANDY BOWIE WWTP — Received: 01/07/2025

Solid & Chemical Materials — Collected by: FG3 — SPL Kilgore — PO: 23- 13245
Taken: 01/06/2025 15:43:00

Calculation — Prepared: 01/14/2025 14:55:21 — Calculated 01/14/2025 14:55:21 CAL

Parameter	Results	Units	RL	Flags	CAS	Bottle
Fecal Geometric Mean	<2890	MPN/g	2890			

SM 9221 E-2014 (A1) — Prepared: 1155665 01/08/2025 12:58:00 — Analyzed 1155665 01/08/2025 12:58:00 MDM

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	FC - Solid/Sludge MPN Class A/B	<2870 *	MPN/gram	2870			01

* Dry Weight Basis

SM2540 G-1997 /MOD — Prepared: 1155172 01/07/2025 16:55:00 — Analyzed 1155172 01/07/2025 16:55:00 BEK

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Total Solids for Dry Wt Conversi	6.27	%	0.010			01

2370281 SAMPLE #2 ANDY BOWIE WWTP — Received: 01/07/2025

Solid & Chemical Materials — Collected by: FG3 — SPL Kilgore — PO: 23- 13245
Taken: 01/06/2025 15:44:00

SM 9221 E-2014 (A1) — Prepared: 1155665 01/08/2025 12:58:00 — Analyzed 1155665 01/08/2025 12:58:00 MDM

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	FC - Solid/Sludge MPN Class A/B	<2910 *	MPN/gram	2910			01

* Dry Weight Basis

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2370281 SAMPLE #2 ANDY BOWIE WWTP

Received: 01/07/2025

Solid & Chemical Materials | Collected by: FG3 | SPL Kilgore | PO: 23- 13245
Taken: 01/06/2025 15:44:00

SM2540 G-1997 /MOD Prepared: 1155172 01/07/2025 16:55:00 Analyzed 1155172 01/07/2025 16:55:00 BEK

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Total Solids for Dry Wt Conversi**	**6.18**	**%**	0.010			01

2370282 SAMPLE #3 ANDY BOWIE WWTP

Received: 01/07/2025

Solid & Chemical Materials | Collected by: FG3 | SPL Kilgore | PO: 23- 13245
Taken: 01/06/2025 15:45:00

SM 9221 E-2014 (A1) Prepared: 1155665 01/08/2025 12:58:00 Analyzed 1155665 01/08/2025 12:58:00 MDM

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**FC - Solid/Sludge MPN Class A/B**	**<2930 ***	**MPN/gram**	2930			01

* Dry Weight Basis

SM2540 G-1997 /MOD Prepared: 1155172 01/07/2025 16:55:00 Analyzed 1155172 01/07/2025 16:55:00 BEK

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Total Solids for Dry Wt Conversi**	**6.15**	**%**	0.010			01

2370283 SAMPLE #4 ANDY BOWIE WWTP

Received: 01/07/2025

Solid & Chemical Materials | Collected by: FG3 | SPL Kilgore | PO: 23- 13245
Taken: 01/06/2025 15:46:00

SM 9221 E-2014 (A1) Prepared: 1155282 01/08/2025 14:17:00 Analyzed 1155282 01/08/2025 14:17:00 CP1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**FC - Solid/Sludge MPN Class A/B**	**<2940 ***	**MPN/gram**	2940			01

* Dry Weight Basis

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2370283 SAMPLE #4 ANDY BOWIE WWTP

Received: 01/07/2025

Solid & Chemical Materials | Collected by: FG3 | SPL Kilgore | PO: 23- 13245
Taken: 01/06/2025 15:46:00

SM2540 G-1997 /MOD — Prepared: 1155172 01/07/2025 16:55:00 — Analyzed 1155172 01/07/2025 16:55:00 BEK

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Total Solids for Dry Wt Conversi**	**6.13**	**%**	0.010			01

2370284 SAMPLE #5 ANDY BOWIE WWTP

Received: 01/07/2025

Solid & Chemical Materials | Collected by: FG3 | SPL Kilgore | PO: 23- 13245
Taken: 01/06/2025 15:47:00

SM 9221 E-2014 (A1) — Prepared: 1155282 01/08/2025 14:17:00 — Analyzed 1155282 01/08/2025 14:17:00 CP1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**FC - Solid/Sludge MPN Class A/B**	**<2800 ***	**MPN/gram**	2800			01

* Dry Weight Basis

SM2540 G-1997 /MOD — Prepared: 1155172 01/07/2025 16:55:00 — Analyzed 1155172 01/07/2025 16:55:00 BEK

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Total Solids for Dry Wt Conversi**	**6.44**	**%**	0.010			01

2370285 SAMPLE #6 ANDY BOWIE WWTP

Received: 01/07/2025

Solid & Chemical Materials | Collected by: FG3 | SPL Kilgore | PO: 23- 13245
Taken: 01/06/2025 15:48:00

SM 9221 E-2014 (A1) — Prepared: 1155282 01/08/2025 14:17:00 — Analyzed 1155282 01/08/2025 14:17:00 CP1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**FC - Solid/Sludge MPN Class A/B**	**<2870 ***	**MPN/gram**	2870			01

* Dry Weight Basis

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Printed: 01/24/2025

2370285 SAMPLE #6 ANDY BOWIE WWTP

Received: 01/07/2025

Solid & Chemical Materials | Collected by: FG3 | SPL Kilgore | PO: 23- 13245
Taken: 01/06/2025 15:48:00

SM2540 G-1997 /MOD Prepared: 1155172 01/07/2025 16:55:00 Analyzed 1155172 01/07/2025 16:55:00 BEK

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Total Solids for Dry Wt Conversi**	**6.27**	**%**	0.010			01

2370286 SAMPLE #7 ANDY BOWIE WWTP

Received: 01/07/2025

Solid & Chemical Materials | Collected by: FG3 | SPL Kilgore | PO: 23- 13245
Taken: 01/06/2025 15:49:00

SM 9221 E-2014 (A1) Prepared: 1155282 01/08/2025 14:17:00 Analyzed 1155282 01/08/2025 14:17:00 CP1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**FC - Solid/Sludge MPN Class A/B**	**<2880 ***	**MPN/gram**	2880			01

* Dry Weight Basis

SM2540 G-1997 /MOD Prepared: 1155172 01/07/2025 16:55:00 Analyzed 1155172 01/07/2025 16:55:00 BEK

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Total Solids for Dry Wt Conversi**	**6.24**	**%**	0.010			01

2370287 Sludge ANDY BOWIE WWTP

Received: 01/07/2025

Solid & Chemical Materials | Collected by: FG3 | SPL Kilgore | PO: 23- 13245
Taken: 01/06/2025 15:42:00

EPA 160.4 Prepared: 01/07/2025 17:50:00 Analyzed 01/07/2025 17:50:00 RC1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Volatile Suspended Solids**	**Inapp matrix**					

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2370287 Sludge ANDY BOWIE WWTP

Received: 01/07/2025

Solid & Chemical Materials | Collected by: FG3 | SPL Kilgore | PO: 23- 13245
Taken: 01/06/2025 15:42:00

SM 2540 D-2015 — Prepared: 01/07/2025 17:50:00 — Analyzed: 01/07/2025 17:50:00 — RC1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Total Suspended Solids	Inapp matrix					

SM 2540 G-1997 — Prepared: 1155746 01/10/2025 12:14:00 — Analyzed: 1155746 01/10/2025 12:14:00 — BEK

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Volatile Solids	66.8	%	0.100			01

SM 2710 B-2004 — Prepared: 1155202 01/08/2025 12:48:01 — Analyzed: 1155202 01/08/2025 12:48:01 — JW1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Oxygen Consumption Rate	0.00080	(mg/g)/min				01

SM 2710 B-2011 MOD — Prepared: 01/08/2025 15:37:47 — Calculated: 01/08/2025 15:37:47 — CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Specific Oxygen Uptake Rate 20C	<0.1	mg O2/g/hr	0.1			

SM2540 G-1997 /MOD — Prepared: 1155745 01/10/2025 12:14:00 — Analyzed: 1155745 01/10/2025 12:14:00 — BEK

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Total Solids for Dry Wt Conversi	6.12	%	0.010			01

** Sample was diluted to <2% solids prior to analysis.

2370289 ID ANDY BOWIE WWTP

Received: 01/07/2025

Solid & Chemical Materials | Collected by: FG3 | SPL Kilgore | PO: 23- 13245
Taken: 01/06/2025 15:40:00

EPA 6010C — Prepared: 1155300 01/08/2025 15:15:00 — Analyzed: 1155468 01/09/2025 12:04:00 — CAS

Parameter	Results	Units	RL	Flags	CAS	Bottle

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2370289 ID ANDY BOWIE WWTP

Received: 01/07/2025

Solid & Chemical Materials | Collected by: FG3 | SPL Kilgore | PO: 23- 13245

Taken: 01/06/2025 15:40:00

EPA 6010C — Prepared: 1155300 01/08/2025 15:15:00 — Analyzed 1155468 01/09/2025 12:04:00 — CAS

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP Arsenic	<0.250	mg/L	0.250		7440-38-2	13
NELAC	TCLP Barium	<0.250	mg/L	0.250		7440-39-3	13
NELAC	TCLP Cadmium	<0.125	mg/L	0.125		7440-43-9	13
NELAC	TCLP Chromium	<0.250	mg/L	0.250		7440-47-3	13
NELAC	TCLP Lead	<0.250	mg/L	0.250		7439-92-1	13
NELAC	TCLP Selenium	<0.250	mg/L	0.250		7782-49-2	13
NELAC	TCLP Silver	<0.050	mg/L	0.050		7440-22-4	13

EPA 7470 A — Prepared: 1155135 01/08/2025 11:00:00 — Analyzed 1155267 01/08/2025 14:30:00 — CAS

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP Mercury	0.00202	mg/L	0.002		7439-97-6	09

EPA 8081A — Prepared: 1155237 01/08/2025 13:35:00 — Analyzed 1155718 01/09/2025 21:37:00 — 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: 1156017 01/15/2025 11:25:00 — Analyzed 1157527 01/16/2025 15:35:00 — KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	PCB-1016	<0.8620 *	mg/kg	0.8620	X	12674-11-2	15
NELAC	PCB-1221	<0.8620 *	mg/kg	0.8620		11104-28-2	15
NELAC	PCB-1232	<0.8620 *	mg/kg	0.8620		11141-16-5	15
NELAC	PCB-1242	<0.8620 *	mg/kg	0.8620		53469-21-9	15
NELAC	PCB-1248	<0.8620 *	mg/kg	0.8620		12672-29-6	15
NELAC	PCB-1254	<0.8620 *	mg/kg	0.8620		11097-69-1	15
NELAC	PCB-1260	<0.8620 *	mg/kg	0.8620	X	11096-82-5	15
NELAC	PCB-1262	<0.8620 *	mg/kg	0.8620		37324-23-5	15

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Laguna Madre Water District
Mark A. Garza
105 Port Rd.
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Printed: 01/24/2025

2370289 ID ANDY BOWIE WWTP — Received: 01/07/2025

Solid & Chemical Materials — Collected by: FG3 — SPL Kilgore — PO: 23- 13245

Taken: 01/06/2025 15:40:00

EPA 8082

Prepared: 1156017 01/15/2025 11:25:00 Analyzed 1157527 01/16/2025 15:35:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	PCB-1268	<0.8620 *	mg/kg	0.8620		11100-14-4	15

* Dry Weight Basis

EPA 8151

Prepared: 1155591 01/10/2025 11:15:00 Analyzed 1155910 01/13/2025 21:35:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP 2,4 D	<0.500	mg/L	0.500		94-75-7	14
NELAC	TCLP 2,4,5-TP (Silvex)	<0.300	mg/L	0.300		93-72-1	14

EPA 8260B

Prepared: 1155010 01/07/2025 15:20:00 Analyzed 1155610 01/09/2025 19:27:00 MR1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP 1,1-Dichloroethene	<0.010	mg/L	0.010		75-35-4	05
NELAC	TCLP 1,2-Dichloroethane	<0.010	mg/L	0.010		107-06-2	05
NELAC	TCLP 1,4 Dichlorobenzene	<0.010	mg/L	0.010		106-46-7	05
NELAC	TCLP Benzene	<0.010	mg/L	0.010		71-43-2	05
NELAC	TCLP Carbon tetrachloride	<0.010	mg/L	0.010		56-23-5	05
NELAC	TCLP Chlorobenzene	<0.010	mg/L	0.010		108-90-7	05
NELAC	TCLP Chloroform	<0.010	mg/L	0.010		67-66-3	05
NELAC	TCLP MEK	<0.010	mg/L	0.010		78-93-3	05
NELAC	TCLP Tetrachloroethylene	<0.010	mg/L	0.010		127-18-4	05
NELAC	TCLP Trichloroethylene	<0.010	mg/L	0.010		79-01-6	05
NELAC	TCLP Vinyl chloride	<0.010	mg/L	0.010		75-01-4	05

EPA 8270C

Prepared: 1155243 01/08/2025 13:40:00 Analyzed 1156300 01/15/2025 01:16:00 PM1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP 2,4,5-Trichlorophenol	<0.050	mg/L	0.050		95-95-4	12
NELAC	TCLP 2,4,6-Trichlorophenol	<0.020	mg/L	0.020		88-06-2	12
NELAC	TCLP 2,4-Dinitrotoluene	<0.020	mg/L	0.020		121-14-2	12
NELAC	TCLP 2-Methylphenol (o-Cresol)	<0.100	mg/L	0.100		95-48-7	12
NELAC	TCLP 3&4-Methylphenol (m&p-Creso	<0.080	mg/L	0.080		108-39-4	12
NELAC	TCLP Hexachlorobenzene	<0.010	mg/L	0.010		118-74-1	12
NELAC	TCLP Hexachlorobutadiene	<0.0103	mg/L	0.0103		87-68-3	12
NELAC	TCLP Hexachloroethane	<0.020	mg/L	0.020		67-72-1	12

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2370289 ID ANDY BOWIE WWTP

Received: 01/07/2025

Solid & Chemical Materials | Collected by: FG3 | SPL Kilgore | PO: 23- 13245
Taken: 01/06/2025 15:40:00

EPA 8270C Prepared: 1155243 01/08/2025 13:40:00 Analyzed 1156300 01/15/2025 01:16:00 PM1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP Nitrobenzene	<0.010	mg/L	0.010		98-95-3	12
NELAC	TCLP Pentachlorophenol	<0.050	mg/L	0.050		87-86-5	12
NELAC	TCLP Pyridine (Reg. Limit 5)	<0.0135	mg/L	0.0135		110-86-1	12

EPA 8270C Prepared: 1155243 01/08/2025 13:40:00 Calculated 1156300 01/16/2025 10:36:28 CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	TCLP Total Cresols (Reg Lim 200)	<0.080	mg/L	0.080		108-39-4,ect.	12

SM2540 G-1997 /MOD Prepared: 1155172 01/07/2025 16:55:00 Analyzed 1155172 01/07/2025 16:55:00 BEK

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Total Solids for Dry Wt Conversi	5.80	%	0.010			01

2370291 Sludge ANDY BOWIE WWTP

Received: 01/07/2025

Solid & Chemical Materials | Collected by: FG3 | SPL Kilgore | PO: 23- 13245
Taken: 01/06/2025 15:41:00

EPA 6020A Prepared: 1155621 01/10/2025 14:00:00 Analyzed 1156130 01/14/2025 16:06:00 ESG

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Arsenic, Total	12.8 *	mg/kg	2.83		7440-38-2	02
NELAC	Chromium, Total	57.1 *	mg/kg	1.41		7440-47-3	02
NELAC	Nickel, Total	24.8 *	mg/kg	1.41		7440-02-0	02

* Dry Weight Basis

SM2540 G-1997 /MOD Prepared: 1155172 01/07/2025 16:55:00 Analyzed 1155172 01/07/2025 16:55:00 BEK

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Total Solids for Dry Wt Conversi	6.37	%	0.010			01

Sample Preparation

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2370279 SAMPLE #1 ANDY BOWIE WWTP — Received: 01/07/2025

23- 13245

01/06/2025

Calculation		*Prepared:*		*01/14/2025*	*14:48:48*	*Calculated*		*01/14/2025*	*14:48:48*	*CAL*
	As Received to Dry Weight Basis	**Calculated**								
SM 2540 G-1997		*Prepared:*	*1155024*	*01/07/2025*	*16:55:00*	*Analyzed*	*1155024*	*01/07/2025*	*16:55:00*	*BEK*
NELAC	**Total Solids Start Code**	**Started**								
SM 9221 E-2014 (A1)		*Prepared:*	*1155664*	*01/07/2025*	*11:46:00*	*Analyzed*	*1155664*	*01/07/2025*	*11:46:00*	*MDM*
NELAC	**FC Path Red MPN Started**	**STARTED**								01

2370281 SAMPLE #2 ANDY BOWIE WWTP — Received: 01/07/2025

23- 13245

01/06/2025

Calculation		*Prepared:*		*01/14/2025*	*14:48:48*	*Calculated*		*01/14/2025*	*14:48:48*	*CAL*
	As Received to Dry Weight Basis	**Calculated**								
SM 2540 G-1997		*Prepared:*	*1155024*	*01/07/2025*	*16:55:00*	*Analyzed*	*1155024*	*01/07/2025*	*16:55:00*	*BEK*
NELAC	**Total Solids Start Code**	**Started**								
SM 9221 E-2014 (A1)		*Prepared:*	*1155664*	*01/07/2025*	*11:46:00*	*Analyzed*	*1155664*	*01/07/2025*	*11:46:00*	*MDM*
NELAC	**FC Path Red MPN Started**	**STARTED**								01

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2370282 SAMPLE #3 ANDY BOWIE WWTP — Received: 01/07/2025

23- 13245

01/06/2025

Calculation	*Prepared:*		*01/14/2025*	*14:48:48*	*Calculated*		*01/14/2025*	*14:48:48*	*CAL*
	As Received to Dry Weight Basis	**Calculated**							
SM 2540 G-1997	*Prepared:*	*1155024*	*01/07/2025*	*16:55:00*	*Analyzed*	*1155024*	*01/07/2025*	*16:55:00*	*BEK*
NELAC	**Total Solids Start Code**	**Started**							
SM 9221 E-2014 (A1)	*Prepared:*	*1155664*	*01/07/2025*	*11:46:00*	*Analyzed*	*1155664*	*01/07/2025*	*11:46:00*	*MDM*
NELAC	**FC Path Red MPN Started**	**STARTED**							01

2370283 SAMPLE #4 ANDY BOWIE WWTP — Received: 01/07/2025

23- 13245

01/06/2025

Calculation	*Prepared:*		*01/13/2025*	*15:42:58*	*Calculated*		*01/13/2025*	*15:42:58*	*CAL*
	As Received to Dry Weight Basis	**Calculated**							
SM 2540 G-1997	*Prepared:*	*1155024*	*01/07/2025*	*16:55:00*	*Analyzed*	*1155024*	*01/07/2025*	*16:55:00*	*BEK*
NELAC	**Total Solids Start Code**	**Started**							
SM 9221 E-2014 (A1)	*Prepared:*	*1155281*	*01/07/2025*	*11:46:00*	*Analyzed*	*1155281*	*01/07/2025*	*11:46:00*	*CP1*
NELAC	**FC Path Red MPN Started**	**STARTED**							01

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2370284 SAMPLE #5 ANDY BOWIE WWTP — Received: 01/07/2025

23- 13245

01/06/2025

Calculation	*Prepared:*		*01/13/2025*	*15:42:58*	*Calculated*		*01/13/2025*	*15:42:58*	*CAL*
As Received to Dry Weight Basis	**Calculated**								
SM 2540 G-1997	*Prepared:*	*1155024*	*01/07/2025*	*16:55:00*	*Analyzed*	*1155024*	*01/07/2025*	*16:55:00*	*BEK*
NELAC **Total Solids Start Code**	**Started**								
SM 9221 E-2014 (A1)	*Prepared:*	*1155281*	*01/07/2025*	*11:46:00*	*Analyzed*	*1155281*	*01/07/2025*	*11:46:00*	*CP1*
NELAC **FC Path Red MPN Started**	**STARTED**								01

2370285 SAMPLE #6 ANDY BOWIE WWTP — Received: 01/07/2025

23- 13245

01/06/2025

Calculation	*Prepared:*		*01/13/2025*	*15:42:58*	*Calculated*		*01/13/2025*	*15:42:58*	*CAL*
As Received to Dry Weight Basis	**Calculated**								
SM 2540 G-1997	*Prepared:*	*1155024*	*01/07/2025*	*16:55:00*	*Analyzed*	*1155024*	*01/07/2025*	*16:55:00*	*BEK*
NELAC **Total Solids Start Code**	**Started**								
SM 9221 E-2014 (A1)	*Prepared:*	*1155281*	*01/07/2025*	*11:46:00*	*Analyzed*	*1155281*	*01/07/2025*	*11:46:00*	*CP1*
NELAC **FC Path Red MPN Started**	**STARTED**								01

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2370286 SAMPLE #7 ANDY BOWIE WWTP — Received: 01/07/2025

23- 13245

01/06/2025

Calculation	*Prepared:*		*01/13/2025*	*15:42:58*	*Calculated*		*01/13/2025*	*15:42:58*	*CAL*
	As Received to Dry Weight Basis		**Calculated**						
SM 2540 G-1997	*Prepared:*	*1155024*	*01/07/2025*	*16:55:00*	*Analyzed*	*1155024*	*01/07/2025*	*16:55:00*	*BEK*
NELAC	**Total Solids Start Code**		**Started**						
SM 9221 E-2014 (A1)	*Prepared:*	*1155281*	*01/07/2025*	*11:46:00*	*Analyzed*	*1155281*	*01/07/2025*	*11:46:00*	*CP1*
NELAC	**FC Path Red MPN Started**		**STARTED**						01

2370287 Sludge ANDY BOWIE WWTP — Received: 01/07/2025

23- 13245

01/06/2025

SM 2540 D-2011	*Prepared:*		*01/07/2025*	*17:50:00*	*Analyzed*		*01/07/2025*	*17:50:00*	*RC1*
NELAC	**TSS Set Started**		**Inapp matrix**						
SM 2540 G-1997	*Prepared:*	*1155595*	*01/10/2025*	*12:14:00*	*Analyzed*	*1155595*	*01/10/2025*	*12:14:00*	*BEK*
NELAC	**Total Solids Start Code**		**Started**						

2370289 ID ANDY BOWIE WWTP — Received: 01/07/2025

23- 13245

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2370289 ID ANDY BOWIE WWTP

Received: 01/07/2025

23- 13245

01/06/2025

		Prepared:		01/07/2025	11:01:40	Calculated	01/07/2025	11:01:40	CAL
z	Environmental Fee (per Sampling	Verified							
		Prepared:		01/24/2025	08:19:00	Analyzed	01/24/2025	08:19:00	WJP
z	Check Limits	Completed							
	Calculation	Prepared:		01/24/2025	08:13:20	Calculated	01/24/2025	08:13:20	CAL
	As Received to Dry Weight Basis	Calculated							
	EPA 1311	Prepared:	1155021	01/07/2025	15:20:00	Analyzed	1155021	01/07/2025	15:20:00 KN1
NELAC	TCLP Extraction Non-Volatile	SOLID EXT 1	ml						01
	EPA 1311ZHE	Prepared:	1155010	01/07/2025	15:20:00	Analyzed	1155010	01/07/2025	15:20:00 KN1
NELAC	TCLP Extraction ZHE Volatiles	100% SOLID	ml						01
	EPA 3005A	Prepared:	1155021	01/07/2025	15:20:00	Analyzed	1155300	01/08/2025	15:15:00 TES
z	Metals Digestion TCLP Extract	50/10	ml						07
	EPA 3510C	Prepared:	1155021	01/07/2025	15:20:00	Analyzed	1155237	01/08/2025	13:35:00 MCC
	TCLP Liq-Liq Extr. W/Hex Exch.	10/200	ml						08
	EPA 3510C	Prepared:	1155021	01/07/2025	15:20:00	Analyzed	1155243	01/08/2025	13:40:00 CRS
	TCLP Liquid-Liquid Extract	1/100	ml						08

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2370289 ID ANDY BOWIE WWTP

Received: 01/07/2025

23- 13245

01/06/2025

EPA 3510C	*Prepared:*	*1156017*	*01/15/2025*	*11:25:00*	*Analyzed*	*1156017*	*01/15/2025*	*11:25:00*	*MCC*	
PCB Liq-Liq Extr. W/Hex Exch.	**10/10**	**ml**								01
EPA 7470A	*Prepared:*	*1155021*	*01/07/2025*	*15:20:00*	*Analyzed*	*1155135*	*01/08/2025*	*11:00:00*	*ALB*	
NELAC **Metals Digestion TCLP 7470**	**50/2.5**	**ml**								07
EPA 8081A	*Prepared:*	*1155237*	*01/08/2025*	*13:35:00*	*Analyzed*	*1155718*	*01/09/2025*	*21:37:00*	*KAP*	
NELAC **GC TCLP Pesticide**	**Entered**									10
EPA 8082	*Prepared:*	*1156017*	*01/15/2025*	*11:25:00*	*Analyzed*	*1157527*	*01/16/2025*	*15:35:00*	*KAP*	
NELAC **Polychlorinated Biphenyls**	**Entered**									15
EPA 8151	*Prepared:*	*1155591*	*01/10/2025*	*11:15:00*	*Analyzed*	*1155910*	*01/13/2025*	*21:35:00*	*KAP*	
NELAC **GC TCLP Herbicide**	**Entered**									14
EPA 8151A (Prep)	*Prepared:*	*1155021*	*01/07/2025*	*15:20:00*	*Analyzed*	*1155591*	*01/10/2025*	*11:15:00*	*CRS*	
NELAC **Esterification of TCLP Extract**	**10/1**	**ml**								08
EPA 8260B	*Prepared:*	*1155010*	*01/07/2025*	*15:20:00*	*Analyzed*	*1155610*	*01/09/2025*	*19:27:00*	*MR1*	
NELAC **MS TCLP Volatile Analysis**	**Entered**									05

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2370289 ID ANDY BOWIE WWTP — Received: 01/07/2025

23- 13245

01/06/2025

EPA 8270C	*Prepared:*	*1155243*	*01/08/2025*	*13:40:00*	*Analyzed*	*1156300*	*01/15/2025*	*01:16:00*	*PM1*
NELAC **MS TCLP Semivolatile Analysis**	**Entered**								12
SM 2540 G-1997	*Prepared:*	*1155024*	*01/07/2025*	*16:55:00*	*Analyzed*	*1155024*	*01/07/2025*	*16:55:00*	*BEK*
NELAC **Total Solids Start Code**	**Started**								

2370291 Sludge ANDY BOWIE WWTP — Received: 01/07/2025

23- 13245

01/06/2025

	Prepared:		*01/07/2025*	*11:01:40*	*Calculated*		*01/07/2025*	*11:01:40*	*CAL*
Sampling/Transport	**Verified**								
Calculation	*Prepared:*		*01/15/2025*	*16:07:35*	*Calculated*		*01/15/2025*	*16:07:35*	*CAL*
As Received to Dry Weight Basis	**Calculated**								
EPA 3050B	*Prepared:*	*1155621*	*01/10/2025*	*14:00:00*	*Analyzed*	*1155621*	*01/10/2025*	*14:00:00*	*TES*
NELAC **Solid/Sludge/Soil/Sediment Metal**	**50/2.78**	**grams**							01
SM 2540 G-1997	*Prepared:*	*1155024*	*01/07/2025*	*16:55:00*	*Analyzed*	*1155024*	*01/07/2025*	*16:55:00*	*BEK*
NELAC **Total Solids Start Code**	**Started**								

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Printed: 01/24/2025

Qualifiers:

X - Standard reads higher than desired.

We report results on an As Received (or Wet) basis unless marked Dry Weight.

Unless otherwise noted, testing was performed at SPL, Inc.- Kilgore laboratory which holds International, Federal, and state accreditations. Please see our Websites for details.

(N)ELAC - Covered in our NELAC scope of accreditation
z -- Not covered by our NELAC scope of accreditation

These analytical results relate to the sample tested. This report may NOT be reproduced EXCEPT in FULL without written approval of SPL Kilgore. Unless otherwise specified, these test results meet the requirements of NELAC.
RL is the Reporting Limit (sample specific quantitation limit) and is at or above the Method Detection Limit (MDL). CAS is Chemical Abstract Service number. RL is our Reporting Limit, or Minimum Quantitation Level. The RL takes into account the Instrument Detection Limit (IDL), Method Detection Limit (MDL), and Practical Quantitation Limit (PQL), and any dilutions and/or concentrations performed during sample preparation (EQL). Our analytical result must be above this RL before we report a value in the 'Results' column of our report (without a 'J' flag). Otherwise, we report ND (Not Detected above RL), because the result is "<" (less than) the number in the RL column. MAL is Minimum Analytical Level and is typically from regulatory agencies. Unless we report a result in the result column, or interferences prevent it, we work to have our RL at or below the MAL.

Bill Peery, MS, VP Technical Services

QUALITY CONTROL

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Analytical Set 1155282 — SM 9221 E-2014 (A1)

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
FC - Solid/Sludge MPN Class A/B	1155282	PASS	1.80	1.80	MPN/gram	127193393

Standard

Parameter	Sample	Reading	Known	Units	Recover%	Limits%	File
FC - Solid/Sludge MPN Class A/B	1155281	POSITIVE	POSITIVI	MPN/gram		-	127193394

Analytical Set 1155665 — SM 9221 E-2014 (A1)

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
FC - Solid/Sludge MPN Class A/B	1155665	PASS	1.80	1.80	MPN/gram	127202971

Standard

Parameter	Sample	Reading	Known	Units	Recover%	Limits%	File
FC - Solid/Sludge MPN Class A/B	1155664	POSITIVE	POSITIVI	MPN/gram		-	127202972

Analytical Set 1155202 — SM 2710 B-2004

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Oxygen Consumption Rate	1155202	ND			(mg/g)/min	127191879

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Oxygen Consumption Rate	2370287	0.00080	0.00080	(mg/g)/min	0	20.000

Analytical Set 1155172 — SM2540 G-1997 /MOD

ControlBlk

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Total Solids for Dry Wt Conversi	1155172	0			grams	127191447

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Total Solids for Dry Wt Conversi	2369914	70.3	66.0	%	6.31	20.0
Total Solids for Dry Wt Conversi	2370279	6.23	6.27	%	0.640	20.0
Total Solids for Dry Wt Conversi	2370340	15.0	13.6	%	9.79	20.0

Analytical Set 1155745 — SM2540 G-1997 /MOD

ControlBlk

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Total Solids for Dry Wt Conversi	1155745	0.0003			grams	127205116

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Total Solids for Dry Wt Conversi	2369429	0.566	0.545	%	3.78	20.0

Analytical Set 1155746 — SM 2540 G-1997

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ControlBlk

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Volatile Solids	1155746	0.0003			grams	127205121

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Volatile Solids	2369429	71.0	71.1	%	0.141	20.0

Analytical Set 1155267 — EPA 7470 A

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP Mercury	1155135	ND	0.000113	0.0002	mg/L	127192983

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Mercury	0.00488	0.005	mg/L	97.6	90.0 - 110	127192967
TCLP Mercury	0.00488	0.005	mg/L	97.6	90.0 - 110	127192968
TCLP Mercury	0.005	0.005	mg/L	100	90.0 - 110	127192982
TCLP Mercury	0.00478	0.005	mg/L	95.6	90.0 - 110	127192989
TCLP Mercury	0.00483	0.005	mg/L	96.6	90.0 - 110	127192994

ICL

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Mercury	0.0197	0.02	mg/L	98.5	90.0 - 110	127192966

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Mercury	0.00491	0.005	mg/L	98.2	90.0 - 110	127192965

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
TCLP Mercury	1155135	0.00939	0.00926	0.010	85.1 - 117	93.9	92.6	mg/L	1.39	20.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
TCLP Mercury	2370340	0.0903	0.0868	0.00196	0.100	80.9 - 121	88.3	84.8	mg/L	4.04	20.0

Analytical Set 1155468 — EPA 6010C

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP Arsenic	1155300	ND	0.0149	0.050	mg/L	127197410
TCLP Barium	1155300	ND	0.00102	0.050	mg/L	127197410
TCLP Cadmium	1155300	ND	0.0014	0.025	mg/L	127197410
TCLP Chromium	1155300	ND	0.00175	0.050	mg/L	127197410
TCLP Lead	1155300	ND	0.0146	0.050	mg/L	127197410
TCLP Selenium	1155300	ND	0.0282	0.050	mg/L	127197410
TCLP Silver	1155300	ND	0.00208	0.010	mg/L	127197410

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CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
TCLP Arsenic	2.50	2.50	mg/L	100	90.0 - 110	127197394
TCLP Arsenic	2.51	2.50	mg/L	100	90.0 - 110	127197401
TCLP Arsenic	2.53	2.50	mg/L	101	90.0 - 110	127197408
TCLP Arsenic	2.53	2.50	mg/L	101	90.0 - 110	127197416
TCLP Arsenic	2.58	2.50	mg/L	103	90.0 - 110	127197424
TCLP Barium	2.48	2.50	mg/L	99.2	90.0 - 110	127197394
TCLP Barium	2.51	2.50	mg/L	100	90.0 - 110	127197401
TCLP Barium	2.52	2.50	mg/L	101	90.0 - 110	127197408
TCLP Barium	2.51	2.50	mg/L	100	90.0 - 110	127197416
TCLP Barium	2.55	2.50	mg/L	102	90.0 - 110	127197424
TCLP Cadmium	1.24	1.25	mg/L	99.2	90.0 - 110	127197394
TCLP Cadmium	1.26	1.25	mg/L	101	90.0 - 110	127197401
TCLP Cadmium	1.27	1.25	mg/L	102	90.0 - 110	127197408
TCLP Cadmium	1.26	1.25	mg/L	101	90.0 - 110	127197416
TCLP Cadmium	1.28	1.25	mg/L	102	90.0 - 110	127197424
TCLP Chromium	2.44	2.50	mg/L	97.6	90.0 - 110	127197394
TCLP Chromium	2.46	2.50	mg/L	98.4	90.0 - 110	127197401
TCLP Chromium	2.47	2.50	mg/L	98.8	90.0 - 110	127197408
TCLP Chromium	2.47	2.50	mg/L	98.8	90.0 - 110	127197416
TCLP Chromium	2.50	2.50	mg/L	100	90.0 - 110	127197424
TCLP Lead	2.47	2.50	mg/L	98.8	90.0 - 110	127197394
TCLP Lead	2.49	2.50	mg/L	99.6	90.0 - 110	127197401
TCLP Lead	2.52	2.50	mg/L	101	90.0 - 110	127197408
TCLP Lead	2.51	2.50	mg/L	100	90.0 - 110	127197416
TCLP Lead	2.54	2.50	mg/L	102	90.0 - 110	127197424
TCLP Selenium	2.49	2.50	mg/L	99.6	90.0 - 110	127197394
TCLP Selenium	2.48	2.50	mg/L	99.2	90.0 - 110	127197401
TCLP Selenium	2.49	2.50	mg/L	99.6	90.0 - 110	127197408
TCLP Selenium	2.51	2.50	mg/L	100	90.0 - 110	127197416
TCLP Selenium	2.56	2.50	mg/L	102	90.0 - 110	127197424
TCLP Silver	0.506	0.500	mg/L	101	90.0 - 110	127197394
TCLP Silver	0.509	0.500	mg/L	102	90.0 - 110	127197401
TCLP Silver	0.507	0.500	mg/L	101	90.0 - 110	127197408
TCLP Silver	0.510	0.500	mg/L	102	90.0 - 110	127197416
TCLP Silver	0.510	0.500	mg/L	102	90.0 - 110	127197424

ICL

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
TCLP Arsenic	5.03	5.00	mg/L	101	95.0 - 105	127197388
TCLP Barium	5.00	5.00	mg/L	100	95.0 - 105	127197388
TCLP Cadmium	2.49	2.50	mg/L	99.6	95.0 - 105	127197388
TCLP Chromium	4.88	5.00	mg/L	97.6	95.0 - 105	127197388
TCLP Lead	4.98	5.00	mg/L	99.6	95.0 - 105	127197388
TCLP Selenium	5.00	5.00	mg/L	100	95.0 - 105	127197388
TCLP Silver	0.975	1.00	mg/L	97.5	95.0 - 105	127197388

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ICV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
TCLP Arsenic	2.58	2.50	mg/L	103	90.0 - 110	127197392
TCLP Barium	2.58	2.50	mg/L	103	90.0 - 110	127197392
TCLP Cadmium	1.29	1.25	mg/L	103	90.0 - 110	127197392
TCLP Chromium	2.58	2.50	mg/L	103	90.0 - 110	127197392
TCLP Lead	2.55	2.50	mg/L	102	90.0 - 110	127197392
TCLP Selenium	2.58	2.50	mg/L	103	90.0 - 110	127197392
TCLP Silver	0.524	0.500	mg/L	105	90.0 - 110	127197392

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
TCLP Arsenic	1155300	0.503	0.501	0.500	87.8 - 119	101	100	mg/L	0.398	30.0
TCLP Barium	1155300	0.466	0.472	0.500	86.1 - 118	93.2	94.4	mg/L	1.28	30.0
TCLP Cadmium	1155300	0.239	0.242	0.250	85.7 - 117	95.6	96.8	mg/L	1.25	30.0
TCLP Chromium	1155300	0.472	0.478	0.500	93.8 - 121	94.4	95.6	mg/L	1.26	30.0
TCLP Lead	1155300	0.458	0.481	0.500	85.0 - 123	91.6	96.2	mg/L	4.90	30.0
TCLP Selenium	1155300	0.477	0.475	0.500	81.8 - 123	95.4	95.0	mg/L	0.420	30.0
TCLP Silver	1155300	0.097	0.0971	0.100	80.4 - 123	97.0	97.1	mg/L	0.103	30.0

MSD

Parameter	*Sample*	*MS*	*MSD*	*UNK*	*Known*	*Limits*	*MS%*	*MSD%*	*Units*	*RPD*	*Limit%*
TCLP Arsenic	2370270	2.49	2.50	0.0308	2.50	73.8 - 133	98.4	98.8	mg/L	0.406	30.0
TCLP Barium	2370270	2.69	2.69	0.202	2.50	73.3 - 125	99.5	99.5	mg/L	0	30.0
TCLP Cadmium	2370270	1.19	1.19	ND	1.25	47.5 - 140	95.2	95.2	mg/L	0	30.0
TCLP Chromium	2370270	2.38	2.39	ND	2.50	83.9 - 121	95.2	95.6	mg/L	0.419	30.0
TCLP Lead	2370270	2.39	2.40	ND	2.50	71.8 - 120	95.6	96.0	mg/L	0.418	30.0
TCLP Selenium	2370270	2.32	2.36	ND	2.50	59.3 - 142	92.8	94.4	mg/L	1.71	30.0
TCLP Silver	2370270	0.481	0.483	ND	0.500	72.3 - 126	96.2	96.6	mg/L	0.415	30.0

Analytical Set 1156130 — EPA 6020A

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Arsenic, Total	1155621	ND	0.000492	0.002	mg/kg	127212068
Chromium, Total	1155621	ND	0.000409	0.001	mg/kg	127212068
Nickel, Total	1155621	ND	0.000336	0.001	mg/kg	127212068

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Arsenic, Total	0.0505	0.05	mg/kg	101	90.0 - 110	127212053
Arsenic, Total	0.0502	0.05	mg/kg	100	90.0 - 110	127212067
Arsenic, Total	0.0497	0.05	mg/kg	99.4	90.0 - 110	127212075
Chromium, Total	0.0505	0.05	mg/kg	101	90.0 - 110	127212053
Chromium, Total	0.0507	0.05	mg/kg	101	90.0 - 110	127212067
Chromium, Total	0.051	0.05	mg/kg	102	90.0 - 110	127212075
Nickel, Total	0.0528	0.05	mg/kg	106	90.0 - 110	127212053
Nickel, Total	0.0509	0.05	mg/kg	102	90.0 - 110	127212067
Nickel, Total	0.050	0.05	mg/kg	100	90.0 - 110	127212075

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Parameter	Reading	Known	Units	Recover%	Limits%	File
Arsenic, Total	0.0498	0.05	mg/kg	99.6	90.0 - 110	127212046
Chromium, Total	0.0534	0.05	mg/kg	107	90.0 - 110	127212046
Nickel, Total	0.0515	0.05	mg/kg	103	90.0 - 110	127212046

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Arsenic, Total	1155621	2.45	2.43	2.50	80.0 - 120	98.0	97.2	mg/kg	0.820	20.0
Chromium, Total	1155621	2.54	2.52	2.50	80.0 - 120	102	101	mg/kg	0.791	20.0
Nickel, Total	1155621	2.40	2.38	2.50	80.0 - 120	96.0	95.2	mg/kg	0.837	20.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Arsenic, Total	2369639	41.0	41.7	1.57	48.3	67.5 - 123	83.0	84.5	mg/kg	1.76	20.0
Chromium, Total	2369639	59.7	62.9	11.3	48.3	80.1 - 122	102	109	mg/kg	6.40	20.0
Nickel, Total	2369639	51.6	51.3	12.9	48.3	76.5 - 121	81.5	80.8	mg/kg	0.778	20.0

Analytical Set 1155610 — EPA 8260B

BFB

Parameter	Sample	RefMass	Reading	%	Limits%	File
BFB Mass 173	1155610	174	1160	1.9	0 - 2.00	127201556
BFB Mass 174	1155610	95.0	61163	58.6	50.0 - 100	127201556
BFB Mass 175	1155610	174	4764	7.8	5.00 - 9.00	127201556
BFB Mass 176	1155610	174	61061	99.8	95.0 - 101	127201556
BFB Mass 177	1155610	176	3768	6.2	5.00 - 9.00	127201556
BFB Mass 50	1155610	95.0	17077	16.4	15.0 - 40.0	127201556
BFB Mass 75	1155610	95.0	49917	47.8	30.0 - 60.0	127201556
BFB Mass 95	1155610	95.0	104373	100.0	100 - 100	127201556
BFB Mass 96	1155610	95.0	6733	6.5	5.00 - 9.00	127201556

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP 1,1-Dichloroethene	1155610	ND	0.000574	0.001	mg/L	127201560
TCLP 1,1-Dichloroethene	1155610	ND	0.000574	0.001	mg/L	127201561
TCLP 1,2-Dichloroethane	1155610	ND	0.00059	0.001	mg/L	127201560
TCLP 1,2-Dichloroethane	1155610	ND	0.00059	0.001	mg/L	127201561
TCLP 1,4 Dichlorobenzene	1155610	ND	0.000837	0.001	mg/L	127201560
TCLP 1,4 Dichlorobenzene	1155610	ND	0.000837	0.001	mg/L	127201561
TCLP Benzene	1155610	ND	0.000453	0.001	mg/L	127201560
TCLP Benzene	1155610	ND	0.000453	0.001	mg/L	127201561
TCLP Carbon tetrachloride	1155610	ND	0.000299	0.001	mg/L	127201560
TCLP Carbon tetrachloride	1155610	ND	0.000299	0.001	mg/L	127201561
TCLP Chlorobenzene	1155610	ND	0.000558	0.001	mg/L	127201560
TCLP Chlorobenzene	1155610	ND	0.000558	0.001	mg/L	127201561
TCLP Chloroform	1155610	ND	0.000463	0.001	mg/L	127201560
TCLP Chloroform	1155610	ND	0.000463	0.001	mg/L	127201561
TCLP MEK	1155610	ND	0.000742	0.001	mg/L	127201560

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Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP MEK	1155610	ND	0.000742	0.001	mg/L	127201561
TCLP Tetrachloroethylene	1155610	ND	0.000607	0.001	mg/L	127201560
TCLP Tetrachloroethylene	1155610	ND	0.000607	0.001	mg/L	127201561
TCLP Trichloroethylene	1155610	ND	0.000521	0.001	mg/L	127201560
TCLP Trichloroethylene	1155610	ND	0.000521	0.001	mg/L	127201561
TCLP Vinyl chloride	1155610	ND	0.000702	0.001	mg/L	127201560
TCLP Vinyl chloride	1155610	ND	0.000702	0.001	mg/L	127201561

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP 1,1-Dichloroethene	0.0218	0.020	mg/L	109	70.0 - 130	127201557
TCLP 1,2-Dichloroethane	0.0178	0.020	mg/L	89.0	70.0 - 130	127201557
TCLP 1,4 Dichlorobenzene	0.0174	0.020	mg/L	87.0	70.0 - 130	127201557
TCLP Benzene	0.0217	0.020	mg/L	108	70.0 - 130	127201557
TCLP Carbon tetrachloride	0.0152	0.020	mg/L	76.0	70.0 - 130	127201557
TCLP Chlorobenzene	0.0187	0.020	mg/L	93.5	70.0 - 130	127201557
TCLP Chloroform	0.018	0.020	mg/L	90.0	70.0 - 130	127201557
TCLP MEK	0.0231	0.020	mg/L	116	70.0 - 130	127201557
TCLP Tetrachloroethylene	0.0165	0.020	mg/L	82.5	70.0 - 130	127201557
TCLP Trichloroethylene	0.0207	0.020	mg/L	104	70.0 - 130	127201557
TCLP Vinyl chloride	0.0229	0.020	mg/L	114	70.0 - 130	127201557

IS Areas

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
1,4-DichlorobenzeneD4 (ISTD)	1155610	CCV	530900	530900	371600	690100	127201557	1155610
1,4-DichlorobenzeneD4 (ISTD)	1155610	LCS	521700	530900	371600	690100	127201558	1155610
1,4-DichlorobenzeneD4 (ISTD)	1155610	LCS Dup	502900	530900	371600	690100	127201559	1155610
1,4-DichlorobenzeneD4 (ISTD)	1155610	Blank	459600	530900	371600	690100	127201560	1155610
1,4-DichlorobenzeneD4 (ISTD)	1155610	Blank	468800	530900	371600	690100	127201561	1155610
ChlorobenzeneD5 (ISTD)	1155610	CCV	1021000	1021000	714900	1328000	127201557	1155610
ChlorobenzeneD5 (ISTD)	1155610	LCS	997800	1021000	714900	1328000	127201558	1155610
ChlorobenzeneD5 (ISTD)	1155610	LCS Dup	999100	1021000	714900	1328000	127201559	1155610
ChlorobenzeneD5 (ISTD)	1155610	Blank	958300	1021000	714900	1328000	127201560	1155610
ChlorobenzeneD5 (ISTD)	1155610	Blank	970400	1021000	714900	1328000	127201561	1155610
1,4-DichlorobenzeneD4 (ISTD)	2370270	MS	437300	530900	371600	690100	127201568	1155010
1,4-DichlorobenzeneD4 (ISTD)	2370270	MSD	437100	530900	371600	690100	127201569	1155010
ChlorobenzeneD5 (ISTD)	2370270	MS	850500	1021000	714900	1328000	127201568	1155010
ChlorobenzeneD5 (ISTD)	2370270	MSD	872100	1021000	714900	1328000	127201569	1155010

IS RetTime

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
1,4-DichlorobenzeneD4 (ISTD)	1155610	LCS	11.97	11.97	11.91	12.03	127201558	1155610
1,4-DichlorobenzeneD4 (ISTD)	1155610	LCS Dup	11.97	11.97	11.91	12.03	127201559	1155610
1,4-DichlorobenzeneD4 (ISTD)	1155610	Blank	11.97	11.97	11.91	12.03	127201560	1155610
1,4-DichlorobenzeneD4 (ISTD)	1155610	Blank	11.97	11.97	11.91	12.03	127201561	1155610
ChlorobenzeneD5 (ISTD)	1155610	LCS	9.597	9.597	9.537	9.657	127201558	1155610

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IS RetTime

Parameter	*Sample*	*Type*	*Reading*	*CCVISM*	*Low*	*High*	*File*	*PrepSet*
ChlorobenzeneD5 (ISTD)	1155610	LCS Dup	9.597	9.597	9.537	9.657	127201559	1155610
ChlorobenzeneD5 (ISTD)	1155610	Blank	9.597	9.597	9.537	9.657	127201560	1155610
ChlorobenzeneD5 (ISTD)	1155610	Blank	9.597	9.597	9.537	9.657	127201561	1155610
1,4-DichlorobenzeneD4 (ISTD)	2370270	MS	11.97	11.97	11.91	12.03	127201568	1155010
1,4-DichlorobenzeneD4 (ISTD)	2370270	MSD	11.97	11.97	11.91	12.03	127201569	1155010
ChlorobenzeneD5 (ISTD)	2370270	MS	9.597	9.597	9.537	9.657	127201568	1155010
ChlorobenzeneD5 (ISTD)	2370270	MSD	9.597	9.597	9.537	9.657	127201569	1155010

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
TCLP 1,1-Dichloroethene	1155610	0.0172	0.017	0.020	56.7 - 135	86.0	85.0	mg/L	1.17	30.0
TCLP 1,2-Dichloroethane	1155610	0.0163	0.0161	0.020	69.8 - 132	81.5	80.5	mg/L	1.23	30.0
TCLP 1,4 Dichlorobenzene	1155610	0.015	0.0158	0.020	74.8 - 116	75.0	79.0	mg/L	5.19	30.0
TCLP Benzene	1155610	0.019	0.0185	0.020	67.1 - 123	95.0	92.5	mg/L	2.67	30.0
TCLP Carbon tetrachloride	1155610	0.0129	0.0125	0.020	60.1 - 132	64.5	62.5	mg/L	3.15	30.0
TCLP Chlorobenzene	1155610	0.0162	0.0159	0.020	74.0 - 115	81.0	79.5	mg/L	1.87	30.0
TCLP Chloroform	1155610	0.0155	0.0152	0.020	71.1 - 128	77.5	76.0	mg/L	1.95	30.0
TCLP MEK	1155610	0.0195	0.0195	0.020	40.7 - 166	97.5	97.5	mg/L	0	30.0
TCLP Tetrachloroethylene	1155610	0.0146	0.0143	0.020	71.2 - 126	73.0	71.5	mg/L	2.08	30.0
TCLP Trichloroethylene	1155610	0.0177	0.0171	0.020	71.4 - 126	88.5	85.5	mg/L	3.45	30.0
TCLP Vinyl chloride	1155610	0.0196	0.0184	0.020	18.5 - 155	98.0	92.0	mg/L	6.32	30.0

MSD

Parameter	*Sample*	*MS*	*MSD*	*UNK*	*Known*	*Limits*	*MS%*	*MSD%*	*Units*	*RPD*	*Limit%*
TCLP 1,1-Dichloroethene	2370270	0.178	0.165	0.0183	0.200	0.100 - 168	79.8	73.4	mg/L	8.49	30.0
TCLP 1,2-Dichloroethane	2370270	0.178	0.173	0.0183	0.200	48.4 - 134	79.8	77.4	mg/L	3.18	30.0
TCLP 1,4 Dichlorobenzene	2370270	0.162	0.159	0.0183	0.200	45.4 - 121	71.8	70.4	mg/L	2.11	30.0
TCLP Benzene	2370270	0.196	0.187	0.0183	0.200	5.00 - 119	88.8	84.4	mg/L	5.20	30.0
TCLP Carbon tetrachloride	2370270	0.146	0.137	0.0183	0.200	0.100 - 164	63.8	59.4	mg/L	7.31	30.0
TCLP Chlorobenzene	2370270	0.169	0.159	0.0183	0.200	32.5 - 130	75.4	70.4	mg/L	6.86	30.0
TCLP Chloroform	2370270	0.171	0.164	0.0051	0.200	22.1 - 141	83.0	79.4	mg/L	4.31	30.0
TCLP MEK	2370270	0.222	0.210	0.0183	0.200	9.88 - 197	102	95.8	mg/L	6.07	30.0
TCLP Tetrachloroethylene	2370270	0.154	0.144	0.0183	0.200	0.100 - 157	67.8	62.8	mg/L	7.65	30.0
TCLP Trichloroethylene	2370270	0.189	0.178	0.0183	0.200	0.100 - 161	85.4	79.8	mg/L	6.66	30.0
TCLP Vinyl chloride	2370270	0.201	0.192	0.0183	0.200	0.100 - 197	91.4	86.8	mg/L	5.05	30.0

Surrogate

Parameter	*Sample*	*Type*	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
1,2-DCA-d4 (SURR)	1155610	CCV	0.0168	0.020	mg/L	84.0	74.2 - 132	127201557
1,2-DCA-d4 (SURR)	1155610	LCS	0.017	0.020	mg/L	85.0	74.2 - 132	127201558
1,2-DCA-d4 (SURR)	1155610	LCS Dup	0.0174	0.020	mg/L	87.0	74.2 - 132	127201559
1,2-DCA-d4 (SURR)	1155610	Blank	0.0177	0.020	mg/L	88.5	74.2 - 132	127201560
1,2-DCA-d4 (SURR)	1155610	Blank	0.0171	0.020	mg/L	85.5	74.2 - 132	127201561
Bromofluorobenzene (SURR)	1155610	CCV	0.0232	0.020	mg/L	116	77.2 - 134	127201557
Bromofluorobenzene (SURR)	1155610	LCS	0.0228	0.020	mg/L	114	77.2 - 134	127201558
Bromofluorobenzene (SURR)	1155610	LCS Dup	0.0235	0.020	mg/L	118	77.2 - 134	127201559

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CAM5-R

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Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Bromofluorobenzene (SURR)	1155610	Blank	0.0238	0.020	mg/L	119	77.2 - 134	127201560
Bromofluorobenzene (SURR)	1155610	Blank	0.0244	0.020	mg/L	122	77.2 - 134	127201561
Dibromofluoromethane (SURR)	1155610	CCV	0.0205	0.020	mg/L	102	67.2 - 122	127201557
Dibromofluoromethane (SURR)	1155610	LCS	0.0205	0.020	mg/L	102	67.2 - 122	127201558
Dibromofluoromethane (SURR)	1155610	LCS Dup	0.0206	0.020	mg/L	103	67.2 - 122	127201559
Dibromofluoromethane (SURR)	1155610	Blank	0.0196	0.020	mg/L	98.0	67.2 - 122	127201560
Dibromofluoromethane (SURR)	1155610	Blank	0.0199	0.020	mg/L	99.5	67.2 - 122	127201561
ToluneneD8 (SURR)	1155610	CCV	0.0205	0.020	mg/L	102	69.2 - 122	127201557
ToluneneD8 (SURR)	1155610	LCS	0.0201	0.020	mg/L	100	69.2 - 122	127201558
ToluneneD8 (SURR)	1155610	LCS Dup	0.0204	0.020	mg/L	102	69.2 - 122	127201559
ToluneneD8 (SURR)	1155610	Blank	0.0202	0.020	mg/L	101	69.2 - 122	127201560
ToluneneD8 (SURR)	1155610	Blank	0.0202	0.020	mg/L	101	69.2 - 122	127201561
1,2-DCA-d4 (SURR)	2370270	MS	0.0183	0.020	mg/L	91.5	74.2 - 132	127201568
1,2-DCA-d4 (SURR)	2370270	MSD	0.0181	0.020	mg/L	90.5	74.2 - 132	127201569
Bromofluorobenzene (SURR)	2370270	MS	0.0236	0.020	mg/L	118	77.2 - 134	127201568
Bromofluorobenzene (SURR)	2370270	MSD	0.0244	0.020	mg/L	122	77.2 - 134	127201569
Dibromofluoromethane (SURR)	2370270	MS	0.0208	0.020	mg/L	104	67.2 - 122	127201568
Dibromofluoromethane (SURR)	2370270	MSD	0.021	0.020	mg/L	105	67.2 - 122	127201569
ToluneneD8 (SURR)	2370270	MS	0.0206	0.020	mg/L	103	69.2 - 122	127201568
ToluneneD8 (SURR)	2370270	MSD	0.0205	0.020	mg/L	102	69.2 - 122	127201569
1,2-DCA-d4 (SURR)	2370289	Unknown	0.0175	0.020	mg/L	87.5	74.2 - 132	127201564
Bromofluorobenzene (SURR)	2370289	Unknown	0.0242	0.020	mg/L	121	77.2 - 134	127201564
Dibromofluoromethane (SURR)	2370289	Unknown	0.0201	0.020	mg/L	100	67.2 - 122	127201564
ToluneneD8 (SURR)	2370289	Unknown	0.0202	0.020	mg/L	101	69.2 - 122	127201564

Analytical Set 1155718 — EPA 8081A

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP Chlordane	1155021	ND	0.0000183	0.00002	mg/L	127203653
TCLP Endrin	1155021	ND	0.000538	0.001	mg/L	127203653
TCLP gamma-BHC (Lindane)	1155021	ND	0.000385	0.001	mg/L	127203653
TCLP Heptachlor	1155021	ND	0.000207	0.001	mg/L	127203653
TCLP Heptachlor Epoxide	1155021	ND	0.00066	0.001	mg/L	127203653
TCLP Methoxychlor	1155021	ND	0.000898	0.001	mg/L	127203653
TCLP Toxaphene	1155021	ND	0.000169	0.0002	mg/L	127203653

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Endrin	0.0507	0.050	mg/L	101	70.0 - 130	127203649
TCLP Endrin	0.048	0.050	mg/L	96.0	70.0 - 130	127203658
TCLP gamma-BHC (Lindane)	0.048	0.050	mg/L	96.1	70.0 - 130	127203649
TCLP gamma-BHC (Lindane)	0.0397	0.050	mg/L	79.3	70.0 - 130	127203658
TCLP Heptachlor	0.0486	0.050	mg/L	97.1	70.0 - 130	127203649
TCLP Heptachlor	0.0421	0.050	mg/L	84.1	70.0 - 130	127203658
TCLP Heptachlor Epoxide	0.0476	0.050	mg/L	95.2	70.0 - 130	127203649

CAM5-R

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CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Heptachlor Epoxide	0.0445	0.050	mg/L	88.9	70.0 - 130	127203658
TCLP Methoxychlor	0.0522	0.050	mg/L	104	70.0 - 130	127203649
TCLP Methoxychlor	0.0456	0.050	mg/L	91.3	70.0 - 130	127203658

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
TCLP Endrin	1155237	0.0916	0.0972	0.100	42.6 - 137	91.6	97.2	mg/L	5.93	30.0
TCLP gamma-BHC (Lindane)	1155237	0.0858	0.0895	0.100	33.0 - 129	85.8	89.5	mg/L	4.22	30.0
TCLP Heptachlor	1155237	0.0808	0.0849	0.100	24.2 - 129	80.8	84.9	mg/L	4.95	30.0
TCLP Heptachlor Epoxide	1155237	0.0858	0.0896	0.100	40.8 - 128	85.8	89.6	mg/L	4.33	30.0
TCLP Methoxychlor	1155237	0.101	0.112	0.100	33.3 - 146	101	112	mg/L	10.3	30.0

MS

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
TCLP Endrin	2370340	0.005	0	ND	0.005	24.3 - 151	100		mg/L		30.0
TCLP gamma-BHC (Lindane)	2370340	0.0039	0	ND	0.005	21.3 - 144	78.0		mg/L		30.0
TCLP Heptachlor	2370340	0.0039	0	ND	0.005	14.9 - 138	78.0		mg/L		30.0
TCLP Heptachlor Epoxide	2370340	0.00445	0	ND	0.005	29.9 - 133	89.0		mg/L		30.0
TCLP Methoxychlor	2370340	0.00532	0	ND	0.005	10.3 - 183	106		mg/L		30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Decachlorobiphenyl	628925	CCV	0.0491	0.100	mg/L	49.1	10.0 - 150	127203649
Decachlorobiphenyl	628925	CCV	0.0444	0.100	mg/L	44.4	10.0 - 150	127203658
Tetrachloro-m-Xylene (Surr)	628925	CCV	0.0457	0.100	mg/L	45.7	10.0 - 150	127203649
Tetrachloro-m-Xylene (Surr)	628925	CCV	0.0431	0.100	mg/L	43.1	10.0 - 150	127203658
Decachlorobiphenyl	1155021	Blank	0.0851	0.100	mg/L	85.1	10.0 - 150	127203653
Tetrachloro-m-Xylene (Surr)	1155021	Blank	0.0633	0.100	mg/L	63.3	10.0 - 150	127203653
Decachlorobiphenyl	1155237	LCS	0.0878	0.100	mg/L	87.8	10.0 - 150	127203651
Decachlorobiphenyl	1155237	LCS Dup	0.0861	0.100	mg/L	86.1	10.0 - 150	127203652
Tetrachloro-m-Xylene (Surr)	1155237	LCS	0.0755	0.100	mg/L	75.5	10.0 - 150	127203651
Tetrachloro-m-Xylene (Surr)	1155237	LCS Dup	0.0771	0.100	mg/L	77.1	10.0 - 150	127203652
Decachlorobiphenyl	2370289	Unknown	0.0026	0.005	mg/L	52.0	10.0 - 150	127203654
Tetrachloro-m-Xylene (Surr)	2370289	Unknown	0.00305	0.005	mg/L	61.0	10.0 - 150	127203654
Decachlorobiphenyl	2370340	MS	0.00393	0.005	mg/L	78.6	10.0 - 150	127203656
Tetrachloro-m-Xylene (Surr)	2370340	MS	0.00351	0.005	mg/L	70.2	10.0 - 150	127203656

Analytical Set 1155867 — EPA 8270C

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP 2,4,5-Trichlorophenol	1155021	ND	0.000961	0.005	mg/L	127207839
TCLP 2,4,6-Trichlorophenol	1155021	ND	0.00124	0.002	mg/L	127207839
TCLP 2,4-Dinitrotoluene	1155021	ND	0.00135	0.002	mg/L	127207839
TCLP 2-Methylphenol (o-Cresol)	1155021	ND	0.00848	0.010	mg/L	127207839
TCLP 3&4-Methylphenol (m&p-Creso	1155021	ND	0.00778	0.008	mg/L	127207839
TCLP Hexachlorobenzene	1155021	ND	0.000871	0.001	mg/L	127207839

QUALITY CONTROL

CAM5-R

Laguna Madre Water District
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Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
TCLP Hexachlorobutadiene	1155021	ND	0.00103	0.00103	mg/L	127207839
TCLP Hexachloroethane	1155021	ND	0.00105	0.002	mg/L	127207839
TCLP Nitrobenzene	1155021	ND	0.000271	0.001	mg/L	127207839
TCLP Pentachlorophenol	1155021	ND	0.00096	0.005	mg/L	127207839
TCLP Pyridine (Reg. Limit 5)	1155021	ND	0.00135	0.00135	mg/L	127207839
TCLP 2,4,5-Trichlorophenol	1155243	ND	0.000961	0.005	mg/L	127207836
TCLP 2,4,6-Trichlorophenol	1155243	ND	0.00124	0.002	mg/L	127207836
TCLP 2,4-Dinitrotoluene	1155243	ND	0.00135	0.002	mg/L	127207836
TCLP 2-Methylphenol (o-Cresol)	1155243	ND	0.00848	0.010	mg/L	127207836
TCLP 3&4-Methylphenol (m&p-Creso	1155243	ND	0.00778	0.008	mg/L	127207836
TCLP Hexachlorobenzene	1155243	ND	0.000871	0.001	mg/L	127207836
TCLP Hexachlorobutadiene	1155243	ND	0.00103	0.00103	mg/L	127207836
TCLP Hexachloroethane	1155243	ND	0.00105	0.002	mg/L	127207836
TCLP Nitrobenzene	1155243	ND	0.000271	0.001	mg/L	127207836
TCLP Pentachlorophenol	1155243	ND	0.00096	0.005	mg/L	127207836
TCLP Pyridine (Reg. Limit 5)	1155243	ND	0.00135	0.00135	mg/L	127207836

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
TCLP 2,4,5-Trichlorophenol	1155243	0.0174	0.0216	0.025	39.3 - 111	69.6	86.4	mg/L	21.5	30.0
TCLP 2,4,6-Trichlorophenol	1155243	0.0172	0.0199	0.025	38.2 - 109	68.8	79.6	mg/L	14.6	30.0
TCLP 2,4-Dinitrotoluene	1155243	0.0145	0.0185	0.025	36.3 - 132	58.0	74.0	mg/L	24.2	30.0
TCLP 2-Methylphenol (o-Cresol)	1155243	0.0125	0.0134	0.025	23.0 - 87.8	50.0	53.6	mg/L	6.95	30.0
TCLP 3&4-Methylphenol (m&p-Creso	1155243	0.00991	0.0106	0.025	14.9 - 92.5	39.6	42.4	mg/L	6.83	30.0
TCLP Hexachlorobenzene	1155243	0.0185	0.0211	0.025	44.4 - 117	74.0	84.4	mg/L	13.1	30.0
TCLP Hexachlorobutadiene	1155243	0.0135	0.0144	0.025	17.2 - 88.9	54.0	57.6	mg/L	6.45	30.0
TCLP Hexachloroethane	1155243	0.0135	0.0136	0.025	14.6 - 88.8	54.0	54.4	mg/L	0.738	30.0
TCLP Nitrobenzene	1155243	0.0152	0.0172	0.025	34.3 - 113	60.8	68.8	mg/L	12.3	30.0
TCLP Pentachlorophenol	1155243	0.0135	0.0178	0.025	15.7 - 129	54.0	71.2	mg/L	27.5	30.0
TCLP Pyridine (Reg. Limit 5)	1155243	0.00853	0.0072	0.025	0.0753 - 83.4	34.1	28.8	mg/L	16.9	30.0

MS

Parameter	*Sample*	*MS*	*MSD*	*UNK*	*Known*	*Limits*	*MS%*	*MSD%*	*Units*	*RPD*	*Limit%*
TCLP 2,4,5-Trichlorophenol	2370340	0.203	0	ND	0.250	33.7 - 116	81.2		mg/L		30.0
TCLP 2,4,6-Trichlorophenol	2370340	0.196	0	ND	0.250	20.1 - 131	78.4		mg/L		30.0
TCLP 2,4-Dinitrotoluene	2370340	0.182	0	0.0089	0.250	31.8 - 135	69.2		mg/L		30.0
TCLP 2-Methylphenol (o-Cresol)	2370340	0.142	0	ND	0.250	10.6 - 106	56.8		mg/L		30.0
TCLP 3&4-Methylphenol (m&p-Creso	2370340	0.113	0	ND	0.250	0.100 - 149	45.2		mg/L		30.0
TCLP Hexachlorobenzene	2370340	0.204	0	ND	0.250	35.9 - 125	81.6		mg/L		30.0
TCLP Hexachlorobutadiene	2370340	0.148	0	ND	0.250	11.1 - 88.5	59.2		mg/L		30.0
TCLP Hexachloroethane	2370340	0.146	0	ND	0.250	8.41 - 88.1	58.4		mg/L		30.0
TCLP Nitrobenzene	2370340	0.165	0	ND	0.250	28.7 - 119	66.0		mg/L		30.0
TCLP Pentachlorophenol	2370340	0.179	0	ND	0.250	8.33 - 141	71.6		mg/L		30.0
TCLP Pyridine (Reg. Limit 5)	2370340	0.0689	0	ND	0.250	0.100 - 97.2	27.6		mg/L		30.0

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CAM5-R

Laguna Madre Water District
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Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
2,4,6-Tribromophenol	1155021	Blank	2.27	3.33	mg/L	68.2	9.79 - 123	127207839
2-Fluorobiphenyl-SURR	1155021	Blank	35.4	50.0	mg/L	70.8	0.100 - 131	127207839
2-Fluorophenol-SURR	1155021	Blank	40.0	100	mg/L	40.0	5.36 - 80.2	127207839
4-Terphenyl-d14-SURR	1155021	Blank	42.2	50.0	mg/L	84.4	0.100 - 137	127207839
Nitrobenzene-d5-SURR	1155021	Blank	32.7	50.0	mg/L	65.4	0.100 - 131	127207839
Phenol-d6-SURR	1155021	Blank	24.2	100	mg/L	24.2	0.100 - 66.5	127207839

Analytical Set 1155910 — EPA 8151

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP 2,4 D	1155021	ND	0.0159	0.050	mg/L	127208202
TCLP 2,4,5-TP (Silvex)	1155021	ND	0.00893	0.030	mg/L	127208202
TCLP 2,4 D	1155591	ND	0.0159	0.050	mg/L	127208197
TCLP 2,4,5-TP (Silvex)	1155591	ND	0.00893	0.030	mg/L	127208197

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP 2,4 D	0.151	0.150	mg/L	101	70.0 - 130	127208196
TCLP 2,4 D	0.179	0.150	mg/L	120	70.0 - 130	127208207
TCLP 2,4,5-TP (Silvex)	0.147	0.150	mg/L	98.3	70.0 - 130	127208196
TCLP 2,4,5-TP (Silvex)	0.161	0.150	mg/L	107	70.0 - 130	127208207

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
TCLP 2,4 D	1155591	0.0639	0.0736	0.100	2.06 - 194	63.9	73.6	mg/L	14.1	30.0
TCLP 2,4,5-TP (Silvex)	1155591	0.0603	0.0682	0.100	19.3 - 162	60.3	68.2	mg/L	12.3	30.0

MS

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
TCLP 2,4 D	2370344	0.645	0	ND	1.00	0.100 - 228	64.5		mg/L		30.0
TCLP 2,4,5-TP (Silvex)	2370344	0.601	0	ND	1.00	2.02 - 165	60.1		mg/L		30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
2,4-Dichlorophenylacetic Acid		CCV	0.150	0.200	mg/L	75.0	0.100 - 294	127208196
2,4-Dichlorophenylacetic Acid		CCV	0.171	0.200	mg/L	85.5	0.100 - 294	127208207
2,4-Dichlorophenylacetic Acid	1155021	Blank	0.0589	0.200	mg/L	29.4	0.100 - 294	127208202
2,4-Dichlorophenylacetic Acid	1155591	Blank	0.0792	0.200	mg/L	39.6	0.100 - 294	127208197
2,4-Dichlorophenylacetic Acid	1155591	LCS	0.0599	0.200	mg/L	30.0	0.100 - 294	127208198
2,4-Dichlorophenylacetic Acid	1155591	LCS Dup	0.0678	0.200	mg/L	33.9	0.100 - 294	127208199
2,4-Dichlorophenylacetic Acid	2370289	Unknown	0.621	2.00	mg/L	31.0	0.100 - 294	127208203
2,4-Dichlorophenylacetic Acid	2370344	MS	0.616	2.00	mg/L	30.8	0.100 - 294	127208206

Analytical Set 1156300 — EPA 8270C

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File

CAM5-R

Laguna Madre Water District
Mark A. Garza
105 Port Rd.
Port Isabel, TX 78578-

Project
1131338

Printed 01/24/2025

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
TCLP 2,4,5-Trichlorophenol	57.6	50.0	mg/L	115	70.0 - 130	127215228
TCLP 2,4,6-Trichlorophenol	56.1	50.0	mg/L	112	70.0 - 130	127215228
TCLP 2,4-Dinitrotoluene	46.4	50.0	mg/L	92.7	70.0 - 130	127215228
TCLP 2-Methylphenol (o-Cresol)	51.3	50.0	mg/L	103	70.0 - 130	127215228
TCLP 3&4-Methylphenol (m&p-Creso	45.7	50.0	mg/L	91.4	70.0 - 130	127215228
TCLP Hexachlorobenzene	47.4	50.0	mg/L	94.7	70.0 - 130	127215228
TCLP Hexachlorobutadiene	53.1	50.0	mg/L	106	70.0 - 130	127215228
TCLP Hexachloroethane	49.7	50.0	mg/L	99.4	70.0 - 130	127215228
TCLP Nitrobenzene	46.1	50.0	mg/L	92.2	70.0 - 130	127215228
TCLP Pentachlorophenol	49.8	50.0	mg/L	99.6	70.0 - 130	127215228
TCLP Pyridine (Reg. Limit 5)	48.2	50.0	mg/L	96.3	70.0 - 130	127215228

DFTPP

Parameter		*RefMass*	*Reading*	*%*	*Limits%*	*File*
DFTPP Mass 127	628829	198	10044	55.4	40.0 - 60.0	127215227
DFTPP Mass 197	628829	198	0	0.0	0 - 1.00	127215227
DFTPP Mass 198	628829	198	18138	100.0	100 - 100	127215227
DFTPP Mass 199	628829	198	1237	6.8	5.00 - 9.00	127215227
DFTPP Mass 275	628829	198	4399	24.3	10.0 - 30.0	127215227
DFTPP Mass 365	628829	198	635	3.5	1.00 - 100	127215227
DFTPP Mass 441	628829	443	1820	79.7	0 - 100	127215227
DFTPP Mass 442	628829	198	11953	65.9	40.0 - 100	127215227
DFTPP Mass 443	628829	442	2283	19.1	17.0 - 23.0	127215227
DFTPP Mass 51	628829	198	5485	30.2	30.0 - 60.0	127215227
DFTPP Mass 68	628829	69.0	15	0.2	0 - 2.00	127215227
DFTPP Mass 69	628829	198	6503	35.9	0 - 100	127215227
DFTPP Mass 70	628829	69.0	31	0.5	0 - 2.00	127215227

IS Areas

Parameter	*Sample*	*Type*	*Reading*	*CCVISM*	*Low*	*High*	*File*	*PrepSet*
1,4-Dichlorobenzene-d4-ISTD	628796	CCV	486600	486600	243300	729900	127215228	628796
Acenaphthene-d10-ISTD	628796	CCV	964700	964700	482300	1447000	127215228	628796
Naphthalene-d8-ISTD	628796	CCV	1718000	1718000	858800	2576000	127215228	628796
Phenanthrene-d10-ISTD	628796	CCV	1631000	1631000	815400	2446000	127215228	628796
1,4-Dichlorobenzene-d4-ISTD	2370289	Unknown	412000	486600	243300	729900	127215235	1155243
Acenaphthene-d10-ISTD	2370289	Unknown	817800	964700	482300	1447000	127215235	1155243
Naphthalene-d8-ISTD	2370289	Unknown	1541000	1718000	858800	2576000	127215235	1155243
Phenanthrene-d10-ISTD	2370289	Unknown	1272000	1631000	815400	2446000	127215235	1155243

IS RetTime

Parameter	*Sample*	*Type*	*Reading*	*CCVISM*	*Low*	*High*	*File*	*PrepSet*
1,4-Dichlorobenzene-d4-ISTD	628796	CCV	5.094	5.094	5.034	5.154	127215228	628796
Acenaphthene-d10-ISTD	628796	CCV	7.606	7.606	7.546	7.666	127215228	628796
Naphthalene-d8-ISTD	628796	CCV	6.138	6.138	6.078	6.198	127215228	628796
Phenanthrene-d10-ISTD	628796	CCV	8.868	8.868	8.808	8.928	127215228	628796
1,4-Dichlorobenzene-d4-ISTD	2370289	Unknown	5.088	5.094	5.034	5.154	127215235	1155243

CAM5-R

Laguna Madre Water District
Mark A. Garza
105 Port Rd.
Port Isabel, TX 78578-

Project
1131338

Printed 01/24/2025

IS RetTime

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
Acenaphthene-d10-ISTD	2370289	Unknown	7.594	7.606	7.546	7.666	127215235	1155243
Naphthalene-d8-ISTD	2370289	Unknown	6.126	6.138	6.078	6.198	127215235	1155243
Phenanthrene-d10-ISTD	2370289	Unknown	8.856	8.868	8.808	8.928	127215235	1155243

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
2,4,6-Tribromophenol	628796	CCV	56.4	100	mg/L	56.4	9.79 - 123	127215228
2-Fluorobiphenyl-SURR	628796	CCV	50.8	50.0	mg/L	102	0.100 - 131	127215228
2-Fluorophenol-SURR	628796	CCV	52.6	100	mg/L	52.6	5.36 - 80.2	127215228
4-Terphenyl-d14-SURR	628796	CCV	50.6	50.0	mg/L	101	0.100 - 137	127215228
Nitrobenzene-d5-SURR	628796	CCV	55.2	50.0	mg/L	110	0.100 - 131	127215228
Phenol-d6-SURR	628796	CCV	52.3	100	mg/L	52.3	0.100 - 66.5	127215228
2,4,6-Tribromophenol	2370289	Unknown	0.621	1.00	mg/L	62.1	9.79 - 123	127215235
2-Fluorobiphenyl-SURR	2370289	Unknown	0.366	0.500	mg/L	73.2	0.100 - 131	127215235
2-Fluorophenol-SURR	2370289	Unknown	0.394	1.00	mg/L	39.4	5.36 - 80.2	127215235
4-Terphenyl-d14-SURR	2370289	Unknown	0.377	0.500	mg/L	75.4	0.100 - 137	127215235
Nitrobenzene-d5-SURR	2370289	Unknown	0.360	0.500	mg/L	72.0	0.100 - 131	127215235
Phenol-d6-SURR	2370289	Unknown	0.258	1.00	mg/L	25.8	0.100 - 66.5	127215235

Analytical Set 1157527 EPA 8082

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
PCB-1016	1156017	ND	43.0	250	ug/kg	127243208
PCB-1221	1156017	ND	43.0	250	ug/kg	127243208
PCB-1232	1156017	ND	43.0	250	ug/kg	127243208
PCB-1242	1156017	ND	43.0	250	ug/kg	127243208
PCB-1248	1156017	ND	43.0	250	ug/kg	127243208
PCB-1254	1156017	ND	43.0	250	ug/kg	127243208
PCB-1260	1156017	ND	43.0	250	ug/kg	127243208
PCB-1262	1156017	ND	70.0	250	ug/kg	127243208
PCB-1268	1156017	ND	70.0	250	ug/kg	127243208

CCV

Parameter	Reading	Known	Units	Recover%	Limits%		File
PCB-1016	998	1000	ug/kg	99.8	80.0 - 115		127243207
PCB-1016	1480	1000	ug/kg	148	80.0 - 115	*	127243213
PCB-1260	1050	1000	ug/kg	105	80.0 - 115		127243207
PCB-1260	1360	1000	ug/kg	136	80.0 - 115	*	127243213

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
PCB-1016	1156017	3910	4290	5000	39.8 - 135	78.2	85.8	ug/kg	9.27	30.0
PCB-1260	1156017	4100	4770	5000	36.1 - 134	82.0	95.4	ug/kg	15.1	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File

QUALITY CONTROL

CAM5-R

Laguna Madre Water District
Mark A. Garza
105 Port Rd.
Port Isabel, TX 78578-

Project
1131338

Printed 01/24/2025

Surrogate

Parameter	*Sample*	*Type*	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Decachlorobiphenyl	1156017	Blank	66.3	100	ug/kg	66.3	10.0 - 200	127243208
Tetrachloro-m-Xylene (Surr)	1156017	Blank	58.8	100	ug/kg	58.8	10.0 - 200	127243208
Decachlorobiphenyl	2370289	Unknown	39.5	100	ug/kg	39.5	10.0 - 200	127243211
Tetrachloro-m-Xylene (Surr)	2370289	Unknown	39.0	100	ug/kg	39.0	10.0 - 200	127243211

* 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.); BFB - Bromofluorobenzene, GC/MS Tuning Compound (mass intensity used as tuning acceptance criteria.); 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.); 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.); 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

Email: Kilgore.ProjectManagement@spllabs.com

1131338 CoC Print Group 001 of 001

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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CHAIN OF CUSTODY

09/09/2024 Page 1 of 2

Laguna Madre Water District
Mark A. Garza
105 Port Rd.
Port Isabel, TX 78578-

CAM5-R
136

Phone 956/943-2626

PO Number 23-13245

ID

✓ Hand Delivered by Client to Region or LAB

Andy Bowie WWTP

Matrix: Solid & Chemical Materials

Sampler Printed Name: Frank Gamez III - SPL, Inc.

NOTE: USE 1 FOR FGEO ONLY. FG3

Sampler Affiliation:

Sampler Signature:

Samples Radioactive? ☐ Samples Contains Dioxin? ☐ Samples Biological Hazard? ☐

Ana-Lab # (Lab Only)	Sample ID	Bottles	Date	Time	Notes
1370279	Sample #1	1	1 6 25	15:43	
1370281	Sample #2	1	1 6 25	15:44	
1370282	Sample #3	1	1 6 25	15:45	
1370283	Sample #4	1	1 6 25	15:46	
1370284	Sample #5	1	1 6 25	15:47	
1370285	Sample #6	1	1 6 25	15:48	
1370286	Sample #7	1	1 6 25	15:49	

1 **Glass 4 oz w/Teflon lined lid**

NELAC TS% Total Solids for Dry Wt Conversi SM2540 G-199[illegible]/MOD

0 **Z – No bottle required**

ARDW As Received to Dry Weight Basis Calculation

FGEO Fecal Geometric Mean Calculation (30.0 days)

7 **Na2S2O3 (0.008%) Polystyrene-100 mL Sterilized for FCPR**

NELAC Short Hold FCPR FC - Solid/Sludge MPN Class A/B SM 9221 E-201[illegible] (A1) (1.00 days)

RGV Region: 240[illegible] Village Dr. Suite C Brownsville TX 78521

LDSClient v2.23.9.66 F[illegible] n rptcocproj NN Created 12/13/2019 v1.0

1131338 CoC Print Group 001 of 001

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CHAIN OF CUSTODY

09/09/2024 Page 2 of 2

Laguna Madre Water District
Mark A. Garza
105 Port Rd.
Port Isabel, TX 78578-

CAM5-R
136

Phone 956/943-2626

23-13245

ID

Date Time	Relinquished		Received	
1 6 25	Printed Name Frank Gamez III - SPL, Inc.		Printed Name Fedex	Affiliation
17:30	Signature		Signature	
1/7/25	Printed Name	Affiliation	Printed Name	Affiliation SPL
1000	Signature FedEx		Signature	
	Printed Name	Affiliation	Printed Name	Affiliation
	Signature		Signature	
	Printed Name	Affiliation	Printed Name	Affiliation
	Signature		Signature	

Sample Recieved on Ice? Yes No
Cooler/Sample Secure? Yes No If Shipped: Tracking Number & Temp - See Attached

The accredited column designates accreditation by A - A2LA, N - NELAC, or z - not listed under scope of accreditation. Unless otherwise specified, ANA-LAB shall provide these ordered services pursuant to our Standard Terms & Conditions Agreement (available for download from the welcome page at <http://www.ana-lab.com>). Ana-Lab personnel collect samples as specified by Ana-Lab SOP #000323.

Comments

1131338 CoC Print Group 001 of 001

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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CHAIN OF CUSTODY

Printed 04/2/2024 Page 1 of 2

Lab Number 23-10287

PO Number 23-13245

Laguna Madre Water District
Mark A. Garza
105 Port Rd.
Port Isabel, TX 78578-

Phone 956/943-2626

CAM5-R
135

Sludge

Andy Bowie WWTP

☑ *Hand Delivered by Client to Region or LAB*

Matrix: Solid & Chemical Materials

Sample Collection Start
Date: 1.6.25 Time: 15:42

Sampler Printed Name: Frank Gamez III - SPL, Inc.

Sampler Affiliation:

Sampler Signature:

Samples Radioactive? ☐ Samples Contains Dioxin? ☐ Samples Biological Hazard? ☐

1 Glass 4 oz w/Teflon lined lid

Short Hold	OCR	Oxygen Consumption Rate	SM 2710 B-2004 (2.00 days)
Short Hold	SOUR	Specific Oxygen Uptake Rate 20C	SM 2710 B-2011 MOD (2.00 days)
NELAC	TSS	Total Suspended Solids	SM 2540 D-2015 (7.00 days)
NELAC	VSS	Volatile Suspended Solids	EPA 160.4

Ambient Conditions/Comments

Date	Time	Relinquished	Received
1 6 25	17:30	Printed Name / Affiliation: Frank Gamez III - SPL, Inc.	Printed Name / Affiliation: Fedex
		Signature	Signature
1/7/25	1000	Printed Name / Affiliation	Printed Name / Affiliation
		Signature	Signature
		Printed Name / Affiliation	Printed Name / Affiliation
		Signature	Signature
		Printed Name / Affiliation	Printed Name / Affiliation
		Signature	Signature

RGV Region: 2401 Village Dr. Suite C Brownsville TX 78521

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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CHAIN OF CUSTODY

Printed 04 2/2024 Page 2 of 2

Laguna Madre Water District
Mark A. Garza
105 Port Rd.
Port Isabel, TX 78578-

CAM5-R
135

Sample Received on Ice? ☒ Yes ☐ No
Cooler/Sample Secure? ☒ Yes ☐ No

If Shipped: Tracking Number & Temp - See Attached

The accredited column designates accreditation by A - A2LA, N - NELAC, or z - not listed under scope of accreditation. Unless otherwise specified, ANA-LAB shall provide these ordered services pursuant to our Standard Terms & Conditions Agreement (available for download from the welcome page at <http://www.ana-lab.com>). Ana-Lab personnel collect samples as specified by Ana-Lab SOP #000323.

Comments

1131338 CoC Print Group 001 of 001

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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Printed 04/ /2024 Page 1 of 2

Laguna Madre Water District
Mark A. Garza
105 Port Rd.
Port Isabel, TX 78578-

CAM5 -R
129

Lab Number 23-10289
PO Number 23-13245
Phone 956/943-2626

ID

Andy Bowie WWTP

[✓] Hand D. vered by Client to Region or LAB

Matrix: Solid & Chemical Materials

Sample Collection Start
Date: 1.6.25 Time: 15:40

Sampler Printed Name: Frank Gamez III - SPL, Inc.

Sampler Affiliation:

Sampler Signature:

Samples Radioactive? [ ] Samples Contains Dioxin? [ ] Samples Biological H ard? [ ]

2 Glass Qt w/Teflon lined lid

NELAC	*AgT	TCLP Silver	EPA 6020A CAS:7440-22-4 (4.0 days)
NELAC	*AsT	TCLP Arsenic	EPA 6020A CAS:7440-38-2 (4.0 days)
NELAC	*BaT	TCLP Barium	EPA 6020A CAS:7440-39-3 (4.0 days)
NELAC	*CdT	TCLP Cadmium	EPA 6020A CAS:7440-43-9 (4.0 days)
NELAC	*CrT	TCLP Chromium	EPA 6020A CAS:7440-47-3 (4.0 days)
NELAC	*Hg*	TCLP Mercury	EPA 7470 A CAS:7439-97-6 14.0 days)
NELAC	*PbT	TCLP Lead	EPA 6020A CAS:7439-92-1 (4.0 days)
NELAC	*SeT	TCLP Selenium	EPA 6020A CAS:7782-49-2 (4.0 days)
NELAC	*TCL	TCLP Extraction Non-Volatile	EPA 1311 (14.0 days)
NELAC	TABN	MS TCLP Semivolatile Analysis	EPA 8270C (7.00 days)
NELAC	TG50	GC TCLP Herbicide	EPA 8151 (7.00 days)
NELAC	TG80	GC TCLP Pesticide	EPA 8081A (7.00 days)
NELAC	TVOA	MS TCLP Volatile Analysis	EPA 8260B (14.0 days)
NELAC	TVOX	TCLP Extraction ZHE Volatiles	EPA 1311ZHE (14.0 days)

1 Glass 4 oz w/Teflon lined lid

RGV Region: 2401 Village Dr. Suite C Brownsville TX 78521

1131338 CoC Print Group 001 of 001

2600 Dudley Rd. Kilgore, Texas 75662
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CHAIN OF CUSTODY

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Laguna Madre Water District
Mark A. Garza
105 Port Rd.
Port Isabel, TX 78578-
NELAC

CAM5 -R
129

PCB Polychlorinated Biphenyls EPA 8082 (7.00 days)

Ambient Conditions/Comments

Date	Time	Relinquished		Received	
1 6 25	17:30	Printed Name: Frank Gamez III - SPL, Inc.	Affiliation	Printed Name: Fedex	Affiliation
		Signature		Signature	
1/7/25	1000	Printed Name	Affiliation	Printed Name	Affiliation
		Signature: FedEx		Signature	
		Printed Name	Affiliation	Printed Name	Affiliation
		Signature		Signature	
		Printed Name	Affiliation	Printed Name	Affiliation
		Signature		Signature	

Sample Received on Ice? Yes No
Cooler/Sample Secure? Yes No
If Shipped: Tracking Number & Temp - See Attached

The accredited column designates accreditation by A - A2LA, N - NELAC, or z - not listed under scope of accreditation. Unless otherwise specified ANA-LAB shall provide these ordered services pursuant to our Standard Terms & Conditions Agreement (available for download from the welcome page at <http://www.ana-lab.com>). Ana-Lab personnel collect samples as specified by Ana-Lab SOP #000323.

Comments

1131338 CoC Print Group 001 of 001

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

SPL
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CHAIN OF CUSTODY

Printed 04/1 /2024 Page 1 of 2

Laguna Madre Water District
Mark A. Garza
105 Port Rd.
Port Isabel, TX 78578-

CAM5-R
147

Lab Number 23-13245
PO Number
Phone 956/943-2626

Sludge

Andy Bowie WWTP

☑ *Hand Delivered by Client to Region or LAB*

Matrix: Solid & Chemical Materials

Sample Collection Start
Date: 1.6.25 Time: 15:41

Sampler Printed Name: Frank Gamez III - SPL, Inc.

Sampler Affiliation:

Sampler Signature:

Samples Radioactive? ☐ Samples Contains Dioxin? ☐ Samples Biological Hazard? ☐

1 Glass 4 oz w/Teflon lined lid

NELAC	***AsM**	Arsenic, Total	EPA 6020A CAS:7440-38-2 (180 days)
NELAC	***CrM**	Chromium, Total	EPA 6020A CAS:7440-47-3 (180 days)
NELAC	***NiM**	Nickel, Total	EPA 6020A CAS:7440-02-0 (180 days)
NELAC	**301S**	Solid Metals Digestion	EPA 200.2 2.8 (180 days)
	PU85	Sampling/Transport	
NELAC	**TS%**	Total Solids for Dry Wt Conversi	SM2540 G-1997 /MOD

0 Z -- No bottle required

ARDW	As Received to Dry Weight Basis	Calculation

Ambient Conditions/Comments

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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CHAIN OF CUSTODY

Printed 04/12/2024 Page 2 of 2

Laguna Madre Water District
Mark A. Garza
105 Port Rd.
Port Isabel, TX 78578-

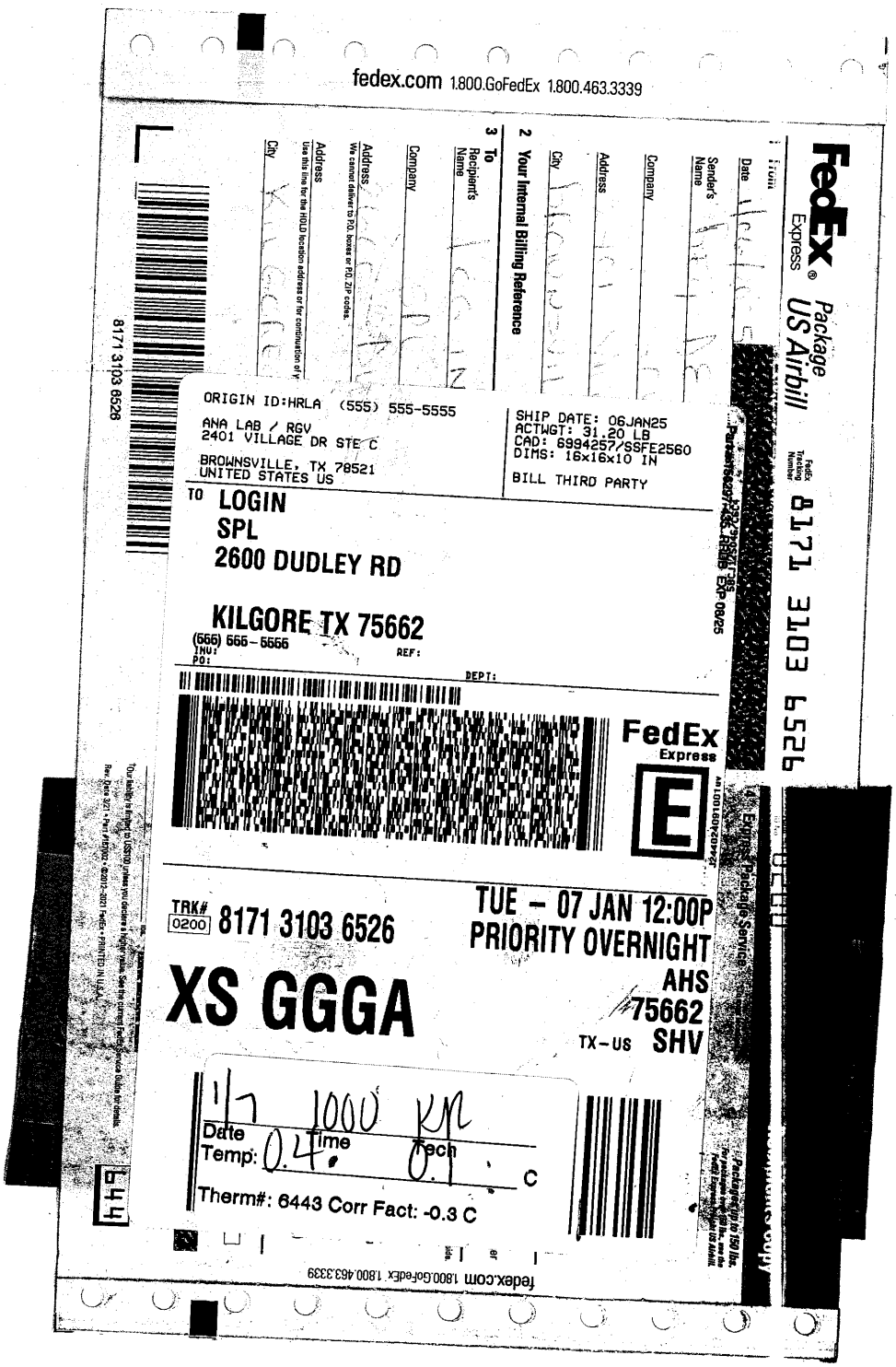
CAM5-R
147

Date	Time	Relinquished	Received
1/6/25	17:30	Printed Name: Frank Gamez III - SPL, Inc. / Affiliation Signature	Printed Name / Affiliation: Fedex Signature
1/7/25	1000	Printed Name / Affiliation: FedEx Signature	Printed Name / Affiliation: SPL Signature
		Printed Name / Affiliation Signature	Printed Name / Affiliation Signature
		Printed Name / Affiliation Signature	Printed Name / Affiliation Signature

Sample Received on Ice? ☒ Yes ☐ No
Cooler/Sample Secure? ☒ Yes ☐ No **If Shipped: Tracking Number & Temp - See Attached**

The accredited column designates accreditation by A - A2LA, N - NELAC, or z - not listed under scope of accreditation. Unless otherwise specific[ANA-LAB shall provide these ordered services pursuant to our Standard Terms & Conditions Agreement (available for download from the welcome page at <http://[ww.ana-lab.com>). Ana-Lab personnel collect samples as specified by Ana-Lab SOP #000323.

Comments


fedex.com 1.800.GoFedEx 1.800.463.3339
FedEx Express Package US Airbill
8171 3103 6526
From
Date
Sender's Name
Company
Address
City
2 Your Internal Billing Reference
3 To Recipient's Name
Company
Address
We cannot deliver to P.O. boxes or P.O. ZIP codes.
Address
Use this line for the HOLD location address or for continuation of y
City
8171 3103 6528
ORIGIN ID:HRLA (555) 555-5555
ANA LAB / RGV
2401 VILLAGE DR STE C
BROWNSVILLE, TX 78521
UNITED STATES US
SHIP DATE: 06JAN25
ACTWGT: 31.20 LB
CAD: 6994257/SSFE2560
DIMS: 16x16x10 IN
BILL THIRD PARTY
TO LOGIN
SPL
2600 DUDLEY RD
KILGORE TX 75662
(566) 666-5666
INV:
PO:
REF:
DEPT:
FedEx Express
TRK# 0200 8171 3103 6526
TUE - 07 JAN 12:00P
PRIORITY OVERNIGHT
XS GGGA
AHS
75662
TX-US SHV
1/7 1000 KM
Date
Temp: 0.4 Time 0.1 Tech C
Therm#: 6443 Corr Fact: -0.3 C
fedex.com 1.800.GoFedEx 1.800.463.3339

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CAM5-R

Laguna Madre Water District
Mark A. Garza
105 Port Rd.
Port Isabel, TX 78578-

Printed 01/14/2025
12:36

TABLE OF CONTENTS

This report consists of this Table of Contents and the following pages:

Email: Kilgore.ProjectManagement@spllabs.com

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Office: 903-984-0551 * Fax: 903-984-5914

1

SAMPLE CROSS REFERENCE

Project
1129426

Laguna Madre Water District
Mark A. Garza
105 Port Rd.
Port Isabel, TX 78578-

Sample	Sample ID	Taken	Time	Received
2365794	*ISLA BLANCA WWTP*	12/17/2024	16:33:00	12/18/2024

Bottle 01 Glass 4 oz w/Teflon lined lid
Bottle 02 Prepared Bottle: ICP Preparation for Metals (Batch 1155621) Volume: 50.00000 mL <== Derived from 01 (2 grams)
Bottle 03 Prepared Bottle: ICP Preparation for Metals (Batch 1155621) Volume: 50.00000 mL <== Derived from 01 (2.0 grams)
Bottle 04 Prepared Bottle: ICP Preparation for Metals (Batch 1155621) Volume: 50.00000 mL <== Derived from 01 (1.9 grams)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 6010C	02	1155621	01/10/2025	1155935	01/14/2025
SM 2710 B-2004	01	1152969	12/19/2024	1152969	12/19/2024
SM 2710 B-2011 MOD			12/19/2024		12/19/2024
SM2540 G-1997 /MOD	01	1153311	12/20/2024	1153311	12/20/2024
SM 2540 G-1997	01	1153312	12/20/2024	1153312	12/20/2024

Sample	Sample ID	Taken	Time	Received
2365795	*ISLA BLANCA WWTP*	12/17/2024	16:30:00	12/18/2024

Bottle 01 Glass Qt w/Teflon lined lid
Bottle 02 Glass Qt w/Teflon lined lid
Bottle 03 Glass 4 oz w/Teflon lined lid
Bottle 04 Prepared Bottle: TCLP Extract for TVOA (Batch 1153062)<== Derived from 01 (0 ml)
Bottle 05 Prepared Bottle: TEDLAR BAG (Batch 1153062) Volume: 300.00000 mL <== Derived from 01 (300 ml)
Bottle 06 Prepared Bottle: TCLP Extract (Batch 1153066) Volume: 2000.00000 mL <== Derived from 01 (100 ml)
Bottle 07 Prepared Bottle: TCLP Extract for Metals (Batch 1153066) Volume: 100.00000 mL <== Derived from 01 (300 ml)
Bottle 08 Prepared Bottle: TCLP Extract for TABN/TCYH (Batch 1153066) Volume: 2000.00000 mL <== Derived from 01 (100 ml)
Bottle 09 Prepared Bottle: TCLP Acid Mercury Digestion (Batch 1153209) Volume: 50.00000 mL <== Derived from 07 (2.5 ml)
Bottle 10 Prepared Bottle: TCLP Acid Digestion (Batch 1153212) Volume: 50.00000 mL <== Derived from 07 (10 ml)
Bottle 11 Prepared Bottle: TG80 2 mL Autosampler Vial (Batch 1153416) Volume: 10.00000 mL <== Derived from 08 (200 ml)
Bottle 12 Prepared Bottle: PCBS 2 mL Autosampler Vial (Batch 1153580) Volume: 10.00000 mL <== Derived from 03 (2.0 grams)
Bottle 13 Prepared Bottle: 2 mL Autosampler Vial (Batch 1153608) Volume: 10.00000 mL <== Derived from 08 (1 ml)
Bottle 14 Prepared Bottle: 2 mL Autosampler Vial (Batch 1153617) Volume: 1.00000 mL <== Derived from 08 (100 ml)
Bottle 15 Prepared Bottle: ICP Preparation for Metals (Batch 1155621) Volume: 50.00000 mL <== Derived from 01 (2.5 grams)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 8082	12	1153580	12/26/2024	1153773	12/26/2024
EPA 6010C	10	1153212	12/20/2024	1153408	12/23/2024
EPA 6010C	15	1155621	01/10/2025	1155935	01/14/2025
EPA 7470 A	09	1153209	12/20/2024	1153270	12/20/2024
EPA 8260B	05	1153062	12/19/2024	1154125	12/30/2024
EPA 8081A	11	1153416	12/23/2024	1153888	12/27/2024
EPA 8270C	14	1153617	12/26/2024	1154473	12/31/2024

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SAMPLE CROSS REFERENCE

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1129426

Laguna Madre Water District
Mark A. Garza
105 Port Rd.
Port Isabel, TX 78578-

Sample	Sample ID	Taken	Time	Received
2365795	*ISLA BLANCA WWTP*	12/17/2024	16:30:00	12/18/2024

Bottle 01 Glass Qt w/Teflon lined lid
Bottle 02 Glass Qt w/Teflon lined lid
Bottle 03 Glass 4 oz w/Teflon lined lid
Bottle 04 Prepared Bottle: TCLP Extract for TVOA (Batch 1153062)<== Derived from 01 (0 ml)
Bottle 05 Prepared Bottle: TEDLAR BAG (Batch 1153062) Volume: 300.00000 mL <== Derived from 01 (300 ml)
Bottle 06 Prepared Bottle: TCLP Extract (Batch 1153066) Volume: 2000.00000 mL <== Derived from 01 (100 ml)
Bottle 07 Prepared Bottle: TCLP Extract for Metals (Batch 1153066) Volume: 100.00000 mL <== Derived from 01 (300 ml)
Bottle 08 Prepared Bottle: TCLP Extract for TABN/TCYH (Batch 1153066) Volume: 2000.00000 mL <== Derived from 01 (100 ml)
Bottle 09 Prepared Bottle: TCLP Acid Mercury Digestion (Batch 1153209) Volume: 50.00000 mL <== Derived from 07 (2.5 ml)
Bottle 10 Prepared Bottle: TCLP Acid Digestion (Batch 1153212) Volume: 50.00000 mL <== Derived from 07 (10 ml)
Bottle 11 Prepared Bottle: TG80 2 mL Autosampler Vial (Batch 1153416) Volume: 10.00000 mL <== Derived from 08 (200 ml)
Bottle 12 Prepared Bottle: PCBS 2 mL Autosampler Vial (Batch 1153580) Volume: 10.00000 mL <== Derived from 03 (2.0 grams)
Bottle 13 Prepared Bottle: 2 mL Autosampler Vial (Batch 1153608) Volume: 10.00000 mL <== Derived from 08 (1 ml)
Bottle 14 Prepared Bottle: 2 mL Autosampler Vial (Batch 1153617) Volume: 1.00000 mL <== Derived from 08 (100 ml)
Bottle 15 Prepared Bottle: ICP Preparation for Metals (Batch 1155621) Volume: 50.00000 mL <== Derived from 01 (2.5 grams)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 8151	13	1153608	12/26/2024	1153943	12/28/2024
SM2540 G-1997 /MOD	02	1153130	12/19/2024	1153130	12/19/2024

Sample	Sample ID	Taken	Time	Received
2365796	*ISLA BLANCA WWTP*	12/17/2024	16:32:00	12/18/2024

Bottle 01 Glass 4 oz w/Teflon lined lid
Bottle 02 Prepared Bottle: ICP Preparation for Metals (Batch 1154915) Volume: 50.00000 mL <== Derived from 01 (2.1 grams)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 6010C	02	1154915	01/07/2025	1155525	01/08/2025
SM2540 G-1997 /MOD	01	1153130	12/19/2024	1153130	12/19/2024

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RESULTS

Sample Results

2365794 ISLA BLANCA WWTP Received: 12/18/2024

Solid & Chemical Materials | Collected by: FG3 | SPL Kilgore | PO: 23- 13245
Taken: 12/17/2024 16:33:00

EPA 6010C Prepared: 1155621 01/10/2025 14:00:00 Analyzed 1155935 01/14/2025 08:17:00 CAS

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Arsenic	<20.8 *	mg/kg	20.8		7440-38-2	02
NELAC	Nickel	256 *	mg/kg	20.8	P	7440-02-0	02

* Dry Weight Basis

SM 2540 G-1997 Prepared: 1153312 12/20/2024 17:03:00 Analyzed 1153312 12/20/2024 17:03:00 BEK

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Volatile Solids	66.6	%	0.100			01

SM 2710 B-2004 Prepared: 1152969 12/19/2024 12:37:48 Analyzed 1152969 12/19/2024 12:37:48 JW1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Oxygen Consumption Rate	0.00080	(mg/g)/min		B		01

SM 2710 B-2011 MOD Prepared: 12/19/2024 14:48:43 Calculated 12/19/2024 14:48:43 CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Specific Oxygen Uptake Rate 20C	<0.1	mg O2/g/hr	0.1			

SM2540 G-1997 /MOD Prepared: 1153311 12/20/2024 17:03:00 Analyzed 1153311 12/20/2024 17:03:00 BEK

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Total Solids for Dry Wt Conversi	30.0	%	0.010			01

** Sample was diluted to <2% solids prior to analysis.

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2365795 ISLA BLANCA WWTP — Received: 12/18/2024

Solid & Chemical Materials — Collected by: FG3 — SPL Kilgore — PO: 23- 13245

Taken: 12/17/2024 16:30:00

EPA 6010C — Prepared: 1153212 12/20/2024 11:30:00 — Analyzed 1153408 12/23/2024 11:08:00 — CAS

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP Arsenic	<0.250	mg/L	0.250		7440-38-2	10
NELAC	TCLP Barium	<0.250	mg/L	0.250		7440-39-3	10
NELAC	TCLP Cadmium	<0.125	mg/L	0.125		7440-43-9	10
NELAC	TCLP Chromium	<0.250	mg/L	0.250		7440-47-3	10
NELAC	TCLP Lead	<0.250	mg/L	0.250		7439-92-1	10
NELAC	TCLP Selenium	<0.250	mg/L	0.250		7782-49-2	10
NELAC	TCLP Silver	<0.050	mg/L	0.050		7440-22-4	10

EPA 6010C — Prepared: 1155621 01/10/2025 14:00:00 — Analyzed 1155935 01/14/2025 08:27:00 — CAS

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Arsenic	<5.04	mg/kg	5.04		7440-38-2	15
NELAC	Nickel	17.2	mg/kg	5.04		7440-02-0	15

EPA 7470 A — Prepared: 1153209 12/20/2024 10:50:00 — Analyzed 1153270 12/20/2024 13:47:00 — CAS

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP Mercury	<0.002	mg/L	0.002		7439-97-6	09

EPA 8081A — Prepared: 1153416 12/23/2024 12:00:00 — Analyzed 1153888 12/27/2024 23:03:00 — KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP Chlordane	<0.001	mg/L	0.001		57-74-9	11
NELAC	TCLP Endrin	<0.00005	mg/L	0.00005	X	72-20-8	11
NELAC	TCLP gamma-BHC (Lindane)	<0.00005	mg/L	0.00005	X	58-89-9	11
NELAC	TCLP Heptachlor	<0.00005	mg/L	0.00005	X	76-44-8	11
NELAC	TCLP Heptachlor Epoxide	<0.00005	mg/L	0.00005	X	1024-57-3	11
NELAC	TCLP Methoxychlor	<0.00005	mg/L	0.00005	X	72-43-5	11
NELAC	TCLP Toxaphene	<0.001	mg/L	0.001		8001-35-2	11

EPA 8082 — Prepared: 1153580 12/26/2024 12:19:02 — Analyzed 1153773 12/26/2024 19:55:00 — KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	PCB-1016	<0.8080 *	mg/kg	0.8080		12674-11-2	12
NELAC	PCB-1221	<0.8080 *	mg/kg	0.8080		11104-28-2	12
NELAC	PCB-1232	<0.8080 *	mg/kg	0.8080		11141-16-5	12

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Printed: 01/14/2025

2365795 ISLA BLANCA WWTP — Received: 12/18/2024

Solid & Chemical Materials — Collected by: FG3 — SPL Kilgore — PO: 23- 13245
Taken: 12/17/2024 16:30:00

EPA 8082

Prepared: 1153580 12/26/2024 12:19:02 — Analyzed 1153773 12/26/2024 19:55:00 — KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	PCB-1242	<0.8080 *	mg/kg	0.8080		53469-21-9	12
NELAC	PCB-1248	<0.8080 *	mg/kg	0.8080		12672-29-6	12
NELAC	PCB-1254	<0.8080 *	mg/kg	0.8080		11097-69-1	12
NELAC	PCB-1260	<0.8080 *	mg/kg	0.8080	X	11096-82-5	12
NELAC	PCB-1262	<0.8080 *	mg/kg	0.8080		37324-23-5	12
NELAC	PCB-1268	<0.8080 *	mg/kg	0.8080		11100-14-4	12

* Dry Weight Basis

EPA 8151

Prepared: 1153608 12/26/2024 13:55:00 — Analyzed 1153943 12/28/2024 03:07:00 — KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP 2,4 D	<0.500	mg/L	0.500		94-75-7	13
NELAC	TCLP 2,4,5-TP (Silvex)	<0.300	mg/L	0.300		93-72-1	13

EPA 8260B

Prepared: 1153062 12/19/2024 15:25:00 — Analyzed 1154125 12/30/2024 18:24:00 — DWL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP 1,1-Dichloroethene	<0.010	mg/L	0.010		75-35-4	05
NELAC	TCLP 1,2-Dichloroethane	<0.010	mg/L	0.010		107-06-2	05
NELAC	TCLP 1,4 Dichlorobenzene	<0.500	mg/L	0.500	B	106-46-7	05
NELAC	TCLP Benzene	<0.010	mg/L	0.010		71-43-2	05
NELAC	TCLP Carbon tetrachloride	<0.010	mg/L	0.010		56-23-5	05
NELAC	TCLP Chlorobenzene	<0.010	mg/L	0.010	B	108-90-7	05
NELAC	TCLP Chloroform	<0.010	mg/L	0.010		67-66-3	05
NELAC	TCLP MEK	<0.010	mg/L	0.010		78-93-3	05
NELAC	TCLP Tetrachloroethylene	<0.010	mg/L	0.010		127-18-4	05
NELAC	TCLP Trichloroethylene	<0.010	mg/L	0.010		79-01-6	05
NELAC	TCLP Vinyl chloride	<0.010	mg/L	0.010		75-01-4	05

EPA 8270C

Prepared: 1153617 12/26/2024 14:00:00 — Analyzed 1154473 12/31/2024 20:24:00 — PM1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP 2,4,5-Trichlorophenol	<0.050	mg/L	0.050		95-95-4	14
NELAC	TCLP 2,4,6-Trichlorophenol	<0.020	mg/L	0.020		88-06-2	14
NELAC	TCLP 2,4-Dinitrotoluene	<0.020	mg/L	0.020		121-14-2	14

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Printed: 01/14/2025

2365795 ISLA BLANCA WWTP

Received: 12/18/2024

Solid & Chemical Materials | Collected by: FG3 | SPL Kilgore | PO: 23- 13245
Taken: 12/17/2024 16:30:00

EPA 8270C — Prepared: 1153617 12/26/2024 14:00:00 — Analyzed 1154473 12/31/2024 20:24:00 PM1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP 2-Methylphenol (o-Cresol)	<0.100	mg/L	0.100		95-48-7	14
NELAC	TCLP 3&4-Methylphenol (m&p-Creso	<0.080	mg/L	0.080		108-39-4	14
NELAC	TCLP Hexachlorobenzene	<0.010	mg/L	0.010		118-74-1	14
NELAC	TCLP Hexachlorobutadiene	<0.0103	mg/L	0.0103		87-68-3	14
NELAC	TCLP Hexachloroethane	<0.020	mg/L	0.020		67-72-1	14
NELAC	TCLP Nitrobenzene	<0.010	mg/L	0.010		98-95-3	14
NELAC	TCLP Pentachlorophenol	<0.050	mg/L	0.050		87-86-5	14
NELAC	TCLP Pyridine (Reg. Limit 5)	<0.0135	mg/L	0.0135		110-86-1	14

EPA 8270C — Prepared: 1153617 12/26/2024 14:00:00 — Calculated 1154473 01/06/2025 16:06:55 CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	TCLP Total Cresols (Reg Lim 200)	<0.080	mg/L	0.080		108-39-4,ect.	14

SM2540 G-1997 /MOD — Prepared: 1153130 12/19/2024 16:00:00 — Analyzed 1153130 12/19/2024 16:00:00 BEK

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Total Solids for Dry Wt Conversi	30.8	%	0.010			02

2365796 ISLA BLANCA WWTP

Received: 12/18/2024

Solid & Chemical Materials | Collected by: FG3 | SPL Kilgore | PO: 23- 13245
Taken: 12/17/2024 16:32:00

EPA 6010C — Prepared: 1154915 01/07/2025 12:00:00 — Analyzed 1155525 01/08/2025 17:22:00 CAS

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Arsenic	<20.8 *	mg/kg	20.8		7440-38-2	02
NELAC	Chromium	81.9 *	mg/kg	20.8		7440-47-3	02
NELAC	Nickel	269 *	mg/kg	20.8		7440-02-0	02

* Dry Weight Basis

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CAM5-R

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Mark A. Garza
105 Port Rd.
Port Isabel, TX 78578-

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Printed: 01/14/2025

2365796 ISLA BLANCA WWTP — Received: 12/18/2024

Solid & Chemical Materials — Collected by: FG3 — SPL Kilgore — PO: 23- 13245
Taken: 12/17/2024 16:32:00

SM2540 G-1997 /MOD — Prepared: 1153130 12/19/2024 16:00:00 — Analyzed 1153130 12/19/2024 16:00:00 BEK

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Total Solids for Dry Wt Conversi	28.8	%	0.010			01

Sample Preparation

2365794 ISLA BLANCA WWTP — Received: 12/18/2024

23- 13245

12/17/2024

Calculation — Prepared: 01/14/2025 10:07:04 — Calculated 01/14/2025 10:07:04 CAL

	As Received to Dry Weight Basis	Calculated

EPA 3050B — Prepared: 1155621 01/10/2025 14:00:00 — Analyzed 1155621 01/10/2025 14:00:00 TES

NELAC	Solid/Sludge/Soil/Sediment Metal	50/2.00	grams

SM 2540 G-1997 — Prepared: 1153288 12/20/2024 17:03:00 — Analyzed 1153288 12/20/2024 17:03:00 BEK

NELAC	Total Solids Start Code	Started

2365795 ISLA BLANCA WWTP — Received: 12/18/2024

23- 13245

12/17/2024

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2365795 ISLA BLANCA WWTP

Received: 12/18/2024

23- 13245

12/17/2024

			Prepared:		12/18/2024	13:31:02	Calculated	12/18/2024	13:31:02 CAL
z	Environmental Fee (per Sampling	Verified							
			Prepared:		01/14/2025	12:02:00	Analyzed	01/14/2025	12:02:00 WJP
z	Check Limits	Completed							
	Calculation		Prepared:		01/08/2025	13:48:50	Calculated	01/08/2025	13:48:50 CAL
	As Received to Dry Weight Basis	Calculated							
	EPA 1311		Prepared:	1153066	12/19/2024	15:25:00	Analyzed	1153066	12/19/2024 15:25:00 KN1
NELAC	TCLP Extraction Non-Volatile	SOLID EXT 1	ml						01
	EPA 1311ZHE		Prepared:	1153062	12/19/2024	15:25:00	Analyzed	1153062	12/19/2024 15:25:00 KN1
NELAC	TCLP Extraction ZHE Volatiles	100% SOLID	ml						01
	EPA 3005A		Prepared:	1153066	12/19/2024	15:25:00	Analyzed	1153212	12/20/2024 11:30:00 TES
z	Metals Digestion TCLP Extract	50/10	ml						07
	EPA 3050B		Prepared:	1155621	01/10/2025	14:00:00	Analyzed	1155621	01/10/2025 14:00:00 TES
NELAC	Solid/Sludge/Soil/Sediment Metal	50/2.48	grams						01
	EPA 3510C		Prepared:	1153066	12/19/2024	15:25:00	Analyzed	1153416	12/23/2024 12:00:00 LSM

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CAM5-R

Laguna Madre Water District
Mark A. Garza
105 Port Rd.
Port Isabel, TX 78578-

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1129426

Printed: 01/14/2025

2365795 ISLA BLANCA WWTP

Received: 12/18/2024

23- 13245

12/17/2024

EPA 3510C	Prepared:	1153066	12/19/2024	15:25:00	Analyzed	1153416	12/23/2024	12:00:00	LSM	
TCLP Liq-Liq Extr. W/Hex Exch.	10/200	ml								08
EPA 3510C	Prepared:	1153066	12/19/2024	15:25:00	Analyzed	1153617	12/26/2024	14:00:00	LSM	
TCLP Liquid-Liquid Extract	1/100	ml								08
EPA 3550B	Prepared:	1153580	12/26/2024	12:19:02	Analyzed	1153580	12/26/2024	12:19:02	PEV	
NELAC PCB Total Sonic Extr. W/Hex Exch	10/2.01	grams								03
EPA 7470A	Prepared:	1153066	12/19/2024	15:25:00	Analyzed	1153209	12/20/2024	10:50:00	ALB	
NELAC Metals Digestion TCLP 7470	50/2.5	ml								07
EPA 8081A	Prepared:	1153416	12/23/2024	12:00:00	Analyzed	1153888	12/27/2024	23:03:00	KAP	
NELAC GC TCLP Pesticide	Entered									11
EPA 8082	Prepared:	1153580	12/26/2024	12:19:02	Analyzed	1153773	12/26/2024	19:55:00	KAP	
NELAC Polychlorinated Biphenyls	Entered									12
EPA 8151	Prepared:	1153608	12/26/2024	13:55:00	Analyzed	1153943	12/28/2024	03:07:00	KAP	
NELAC GC TCLP Herbicide	Entered									13
EPA 8151A (Prep)	Prepared:	1153066	12/19/2024	15:25:00	Analyzed	1153608	12/26/2024	13:55:00	MCC	

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23- 13245

12/17/2024

EPA 8151A (Prep)	*Prepared:*	*1153066*	*12/19/2024*	*15:25:00*	*Analyzed*	*1153608*	*12/26/2024*	*13:55:00*	*MCC*
NELAC **Esterification of TCLP Extract**	**10/1**	**ml**							08
EPA 8260B	*Prepared:*	*1153062*	*12/19/2024*	*15:25:00*	*Analyzed*	*1154125*	*12/30/2024*	*18:24:00*	*DWL*
NELAC **MS TCLP Volatile Analysis**	**Entered**								05
EPA 8270C	*Prepared:*	*1153617*	*12/26/2024*	*14:00:00*	*Analyzed*	*1154473*	*12/31/2024*	*20:24:00*	*PM1*
NELAC **MS TCLP Semivolatile Analysis**	**Entered**								14
SM 2540 G-1997	*Prepared:*	*1153045*	*12/19/2024*	*16:00:00*	*Analyzed*	*1153045*	*12/19/2024*	*16:00:00*	*BEK*
NELAC **Total Solids Start Code**	**Started**								

2365796 ISLA BLANCA WWTP — Received: 12/18/2024

23- 13245

12/17/2024

	Prepared:		*12/18/2024*	*13:31:02*	*Calculated*		*12/18/2024*	*13:31:02*	*CAL*
Sampling/Transport	**Verified**								
Calculation	*Prepared:*		*01/09/2025*	*16:36:47*	*Calculated*		*01/09/2025*	*16:36:47*	*CAL*
As Received to Dry Weight Basis	**Calculated**								

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2365796 ISLA BLANCA WWTP

Received: 12/18/2024

23- 13245

12/17/2024

EPA 3050B		Prepared:	1154915	01/07/2025	12:00:00	Analyzed	1154915	01/07/2025	12:00:00	TES
NELAC	Solid/Sludge/Soil/Sediment Metal	50/2.09	grams							01
SM 2540 G-1997		Prepared:	1153045	12/19/2024	16:00:00	Analyzed	1153045	12/19/2024	16:00:00	BEK
NELAC	Total Solids Start Code	Started								

Qualifiers:

B - Analyte detected in the associated method blank
P - Spike recovery outside control limits due to matrix effects.
X - Standard reads higher than desired.

We report results on an As Received (or Wet) basis unless marked Dry Weight.

Unless otherwise noted, testing was performed at SPL, Inc.- Kilgore laboratory which holds International, Federal, and state accreditations. Please see our Websites for details.

(N)ELAC - Covered in our NELAC scope of accreditation
z -- Not covered by our NELAC scope of accreditation

These analytical results relate to the sample tested. This report may NOT be reproduced EXCEPT in FULL without written approval of SPL Kilgore. Unless otherwise specified, these test results meet the requirements of NELAC.
RL is the Reporting Limit (sample specific quantitation limit) and is at or above the Method Detection Limit (MDL). CAS is Chemical Abstract Service number. RL is our Reporting Limit, or Minimum Quantitation Level. The RL takes into account the Instrument Detection Limit (IDL), Method Detection Limit (MDL), and Practical Quantitation Limit (PQL), and any dilutions and/or concentrations performed during sample preparation (EQL). Our analytical result must be above this RL before we report a value in the 'Results' column of our report (without a 'J' flag). Otherwise, we report ND (Not Detected above RL), because the result is "<" (less than) the number in the RL column. MAL is Minimum Analytical Level and is typically from regulatory agencies. Unless we report a result in the result column, or interferences prevent it, we work to have our RL at or below the MAL.

Bill Peery

Bill Peery, MS, VP Technical Services

QUALITY CONTROL

CAM5-R

Laguna Madre Water District
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105 Port Rd.
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Analytical Set 1152969 — SM 2710 B-2004

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units		File
Oxygen Consumption Rate	1152969	0.00667			(mg/g)/min	*	127144067

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Oxygen Consumption Rate	2365794	0.00080	0.00080	(mg/g)/min	0	20.000

Analytical Set 1153130 — SM2540 G-1997 /MOD

ControlBlk

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Total Solids for Dry Wt Conversi	1153130	0.0001			grams	127147795

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Total Solids for Dry Wt Conversi	2365455	39.6	39.8	%	0.504	20.0
Total Solids for Dry Wt Conversi	2365795	32.3	30.8	%	4.75	20.0
Total Solids for Dry Wt Conversi	2366153	33.0	33.4	%	1.20	20.0

Analytical Set 1153311 — SM2540 G-1997 /MOD

ControlBlk

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Total Solids for Dry Wt Conversi	1153311	0			grams	127151439

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Total Solids for Dry Wt Conversi	2365201	10.3	10.5	%	1.92	20.0

Analytical Set 1153312 — SM 2540 G-1997

ControlBlk

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Volatile Solids	1153312	0			grams	127151444

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Volatile Solids	2365201	55.2	55.1	%	0.181	20.0

Analytical Set 1153270 — EPA 7470 A

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP Mercury	1153209	ND	0.000113	0.0002	mg/L	127150725

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Mercury	0.00492	0.005	mg/L	98.4	90.0 - 110	127150711
TCLP Mercury	0.00503	0.005	mg/L	101	90.0 - 110	127150712

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CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Mercury	0.00481	0.005	mg/L	96.2	90.0 - 110	127150724
TCLP Mercury	0.00472	0.005	mg/L	94.4	90.0 - 110	127150728
TCLP Mercury	0.00486	0.005	mg/L	97.2	90.0 - 110	127150734

ICL

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Mercury	0.0207	0.02	mg/L	104	90.0 - 110	127150710

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Mercury	0.00488	0.005	mg/L	97.6	90.0 - 110	127150709

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
TCLP Mercury	1153209	0.00964	0.00947	0.010	85.1 - 117	96.4	94.7	mg/L	1.78	20.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
TCLP Mercury	2366642	0.0939	0.0945	0.000342	0.100	80.9 - 121	93.6	94.2	mg/L	0.639	20.0

Analytical Set 1153408 — EPA 6010C

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP Arsenic	1153212	ND	0.0149	0.050	mg/L	127153410
TCLP Barium	1153212	ND	0.00102	0.050	mg/L	127153410
TCLP Cadmium	1153212	ND	0.0014	0.025	mg/L	127153410
TCLP Chromium	1153212	ND	0.00175	0.050	mg/L	127153410
TCLP Lead	1153212	ND	0.0146	0.050	mg/L	127153410
TCLP Selenium	1153212	ND	0.0282	0.050	mg/L	127153410
TCLP Silver	1153212	ND	0.00208	0.010	mg/L	127153410

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Arsenic	2.49	2.50	mg/L	99.6	90.0 - 110	127153408
TCLP Arsenic	2.52	2.50	mg/L	101	90.0 - 110	127153409
TCLP Arsenic	2.55	2.50	mg/L	102	90.0 - 110	127153412
TCLP Arsenic	2.52	2.50	mg/L	101	90.0 - 110	127153419
TCLP Barium	2.47	2.50	mg/L	98.8	90.0 - 110	127153408
TCLP Barium	2.51	2.50	mg/L	100	90.0 - 110	127153409
TCLP Barium	2.51	2.50	mg/L	100	90.0 - 110	127153412
TCLP Barium	2.48	2.50	mg/L	99.2	90.0 - 110	127153419
TCLP Cadmium	1.24	1.25	mg/L	99.2	90.0 - 110	127153408
TCLP Cadmium	1.26	1.25	mg/L	101	90.0 - 110	127153409
TCLP Cadmium	1.27	1.25	mg/L	102	90.0 - 110	127153412
TCLP Cadmium	1.25	1.25	mg/L	100	90.0 - 110	127153419
TCLP Chromium	2.46	2.50	mg/L	98.4	90.0 - 110	127153408

QUALITY CONTROL

CAM5-R

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CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
TCLP Chromium	2.50	2.50	mg/L	100	90.0 - 110	127153409
TCLP Chromium	2.51	2.50	mg/L	100	90.0 - 110	127153412
TCLP Chromium	2.48	2.50	mg/L	99.2	90.0 - 110	127153419
TCLP Lead	2.42	2.50	mg/L	96.8	90.0 - 110	127153408
TCLP Lead	2.46	2.50	mg/L	98.4	90.0 - 110	127153409
TCLP Lead	2.46	2.50	mg/L	98.4	90.0 - 110	127153412
TCLP Lead	2.43	2.50	mg/L	97.2	90.0 - 110	127153419
TCLP Selenium	2.51	2.50	mg/L	100	90.0 - 110	127153408
TCLP Selenium	2.56	2.50	mg/L	102	90.0 - 110	127153409
TCLP Selenium	2.56	2.50	mg/L	102	90.0 - 110	127153412
TCLP Selenium	2.52	2.50	mg/L	101	90.0 - 110	127153419
TCLP Silver	0.512	0.500	mg/L	102	90.0 - 110	127153408
TCLP Silver	0.516	0.500	mg/L	103	90.0 - 110	127153409
TCLP Silver	0.517	0.500	mg/L	103	90.0 - 110	127153412
TCLP Silver	0.510	0.500	mg/L	102	90.0 - 110	127153419

ICL

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
TCLP Arsenic	5.03	5.00	mg/L	101	95.0 - 105	127153402
TCLP Barium	4.98	5.00	mg/L	99.6	95.0 - 105	127153402
TCLP Cadmium	2.52	2.50	mg/L	101	95.0 - 105	127153402
TCLP Chromium	4.95	5.00	mg/L	99.0	95.0 - 105	127153402
TCLP Lead	4.90	5.00	mg/L	98.0	95.0 - 105	127153402
TCLP Selenium	5.06	5.00	mg/L	101	95.0 - 105	127153402
TCLP Silver	0.986	1.00	mg/L	98.6	95.0 - 105	127153402

ICV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
TCLP Arsenic	2.58	2.50	mg/L	103	90.0 - 110	127153406
TCLP Barium	2.57	2.50	mg/L	103	90.0 - 110	127153406
TCLP Cadmium	1.29	1.25	mg/L	103	90.0 - 110	127153406
TCLP Chromium	2.60	2.50	mg/L	104	90.0 - 110	127153406
TCLP Lead	2.50	2.50	mg/L	100	90.0 - 110	127153406
TCLP Selenium	2.62	2.50	mg/L	105	90.0 - 110	127153406
TCLP Silver	0.529	0.500	mg/L	106	90.0 - 110	127153406

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
TCLP Arsenic	1153212	0.508	0.496	0.500	87.8 - 119	102	99.2	mg/L	2.39	30.0
TCLP Barium	1153212	0.469	0.471	0.500	86.1 - 118	93.8	94.2	mg/L	0.426	30.0
TCLP Cadmium	1153212	0.240	0.240	0.250	85.7 - 117	96.0	96.0	mg/L	0	30.0
TCLP Chromium	1153212	0.482	0.487	0.500	93.8 - 121	96.4	97.4	mg/L	1.03	30.0
TCLP Lead	1153212	0.469	0.471	0.500	85.0 - 123	93.8	94.2	mg/L	0.426	30.0
TCLP Selenium	1153212	0.494	0.500	0.500	81.8 - 123	98.8	100	mg/L	1.21	30.0
TCLP Silver	1153212	0.101	0.101	0.100	80.4 - 123	101	101	mg/L	0	30.0

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CAM5-R

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LDR

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Arsenic	9.89	10.0	mg/L	98.9	90.0 - 110	127153403
TCLP Barium	9.57	10.0	mg/L	95.7	90.0 - 110	127153403
TCLP Cadmium	4.81	5.00	mg/L	96.2	90.0 - 110	127153403
TCLP Chromium	9.63	10.0	mg/L	96.3	90.0 - 110	127153403
TCLP Lead	9.49	10.0	mg/L	94.9	90.0 - 110	127153403
TCLP Selenium	9.85	10.0	mg/L	98.5	90.0 - 110	127153403
TCLP Silver	2.01	2.00	mg/L	100	90.0 - 110	127153403

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
TCLP Arsenic	2366207	2.53	2.47	ND	2.50	73.8 - 133	101	98.8	mg/L	2.40	30.0
TCLP Barium	2366207	2.98	2.94	0.487	2.50	73.3 - 125	99.7	98.1	mg/L	1.62	30.0
TCLP Cadmium	2366207	1.20	1.20	ND	1.25	47.5 - 140	96.0	96.0	mg/L	0	30.0
TCLP Chromium	2366207	2.43	2.44	ND	2.50	83.9 - 121	97.2	97.6	mg/L	0.411	30.0
TCLP Lead	2366207	2.36	2.37	ND	2.50	71.8 - 120	94.4	94.8	mg/L	0.423	30.0
TCLP Selenium	2366207	2.43	2.40	ND	2.50	59.3 - 142	97.2	96.0	mg/L	1.24	30.0
TCLP Silver	2366207	0.505	0.502	ND	0.500	72.3 - 126	101	100	mg/L	0.596	30.0

Analytical Set 1155525 — EPA 6010C

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Arsenic	1154915	ND	0.0196	0.050	mg/kg	127198843
Chromium	1154915	ND	0.00343	0.050	mg/kg	127198843
Nickel	1154915	ND	0.00555	0.050	mg/kg	127198843

CCB

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Arsenic	1154915	ND	0.0196	0.050	mg/kg	127198838
Arsenic	1154915	ND	0.0196	0.050	mg/kg	127198841
Chromium	1154915	ND	0.00343	0.050	mg/kg	127198838
Chromium	1154915	ND	0.00343	0.050	mg/kg	127198841
Nickel	1154915	ND	0.00555	0.050	mg/kg	127198838
Nickel	1154915	ND	0.00555	0.050	mg/kg	127198841

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Arsenic	2.49	2.50	mg/kg	99.6	90.0 - 110	127198840
Arsenic	2.62	2.50	mg/kg	105	90.0 - 110	127198842
Arsenic	2.61	2.50	mg/kg	104	90.0 - 110	127198849
Arsenic	2.62	2.50	mg/kg	105	90.0 - 110	127198850
Arsenic	2.61	2.50	mg/kg	104	90.0 - 110	127198852
Chromium	2.50	2.50	mg/kg	100	90.0 - 110	127198840
Chromium	2.58	2.50	mg/kg	103	90.0 - 110	127198842
Chromium	2.57	2.50	mg/kg	103	90.0 - 110	127198849
Chromium	2.58	2.50	mg/kg	103	90.0 - 110	127198850
Chromium	2.57	2.50	mg/kg	103	90.0 - 110	127198852

CAM5-R

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CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Nickel	2.47	2.50	mg/kg	98.8	90.0 - 110	127198840
Nickel	2.54	2.50	mg/kg	102	90.0 - 110	127198842
Nickel	2.52	2.50	mg/kg	101	90.0 - 110	127198849
Nickel	2.52	2.50	mg/kg	101	90.0 - 110	127198850
Nickel	2.52	2.50	mg/kg	101	90.0 - 110	127198852

ICL

Parameter	Reading	Known	Units	Recover%	Limits%	File
Arsenic	5.04	5.00	mg/kg	101	95.0 - 105	127198833
Chromium	4.98	5.00	mg/kg	99.6	95.0 - 105	127198833
Nickel	4.94	5.00	mg/kg	98.8	95.0 - 105	127198833

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Arsenic	2.57	2.50	mg/kg	103	90.0 - 110	127198837
Chromium	2.60	2.50	mg/kg	104	90.0 - 110	127198837
Nickel	2.52	2.50	mg/kg	101	90.0 - 110	127198837

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Arsenic	1154915	2.52	2.51	2.50	84.7 - 113	101	100	mg/kg	0.398	25.0
Chromium	1154915	2.57	2.58	2.50	86.1 - 117	103	103	mg/kg	0.388	25.0
Nickel	1154915	2.56	2.56	2.50	88.3 - 113	102	102	mg/kg	0	25.0

LDR

Parameter	Reading	Known	Units	Recover%	Limits%	File
Arsenic	9.93	10.0	mg/kg	99.3	90.0 - 110	127198834
Chromium	9.74	10.0	mg/kg	97.4	90.0 - 110	127198834
Nickel	9.58	10.0	mg/kg	95.8	90.0 - 110	127198834

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Arsenic	2364675	50.2	47.8	0.575	42.8	77.7 - 119	111	105	mg/kg	4.96	25.0
Chromium	2364675	49.7	47.1	ND	42.8	90.7 - 118	111	105	mg/kg	5.37	25.0
Nickel	2364675	49.1	46.6	ND	42.8	91.0 - 115	110	104	mg/kg	5.22	25.0

Analytical Set 1155935 EPA 6010C

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Arsenic	1155621	ND	0.0196	0.050	mg/kg	127209010
Nickel	1155621	ND	0.00555	0.050	mg/kg	127209010

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Arsenic	2.47	2.50	mg/kg	98.8	90.0 - 110	127209009
Arsenic	2.48	2.50	mg/kg	99.2	90.0 - 110	127209017
Arsenic	2.51	2.50	mg/kg	100	90.0 - 110	127209018

CAM5-R

Laguna Madre Water District
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CCV

Parameter	Reading	Known	Units	Recover%	Limits%		File
Nickel	2.45	2.50	mg/kg	98.0	90.0 - 110		127209009
Nickel	2.46	2.50	mg/kg	98.4	90.0 - 110		127209017
Nickel	2.49	2.50	mg/kg	99.6	90.0 - 110		127209018

ICL

Parameter	Reading	Known	Units	Recover%	Limits%		File
Arsenic	5.07	5.00	mg/kg	101	95.0 - 105		127209003
Nickel	4.97	5.00	mg/kg	99.4	95.0 - 105		127209003

ICV

Parameter	Reading	Known	Units	Recover%	Limits%		File
Arsenic	2.59	2.50	mg/kg	104	90.0 - 110		127209007
Nickel	2.55	2.50	mg/kg	102	90.0 - 110		127209007

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Arsenic	1155621	2.41	2.40	2.50	84.7 - 113	96.4	96.0	mg/kg	0.416	25.0
Nickel	1155621	2.48	2.50	2.50	88.3 - 113	99.2	100	mg/kg	0.803	25.0

LDR

Parameter	Reading	Known	Units	Recover%	Limits%		File
Arsenic	9.91	10.0	mg/kg	99.1	90.0 - 110		127209004
Nickel	9.56	10.0	mg/kg	95.6	90.0 - 110		127209004

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Arsenic	2365794	65.2	67.0	4.94	66.5	77.7 - 119	94.5	97.3	mg/kg	2.94	25.0
Nickel	2365794	113	123	76.8	66.5	91.0 - 115	56.7 *	72.4 *	mg/kg	24.3	25.0

Analytical Set 1153773 — EPA 8082

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
PCB-1016	1153580	ND	43.0	250	ug/kg	127161726
PCB-1221	1153580	ND	43.0	250	ug/kg	127161726
PCB-1232	1153580	ND	43.0	250	ug/kg	127161726
PCB-1242	1153580	ND	43.0	250	ug/kg	127161726
PCB-1248	1153580	ND	43.0	250	ug/kg	127161726
PCB-1254	1153580	ND	43.0	250	ug/kg	127161726
PCB-1260	1153580	ND	43.0	250	ug/kg	127161726

CCV

Parameter	Reading	Known	Units	Recover%	Limits%		File
PCB-1016	1200	1000	ug/kg	120	80.0 - 120		127161725
PCB-1016	908	1000	ug/kg	90.8	80.0 - 120		127161741
PCB-1260	1130	1000	ug/kg	113	80.0 - 120		127161725
PCB-1260	5380	1000	ug/kg	538	80.0 - 120	*	127161741

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LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
PCB-1016	1153580	5790	5850	5000	28.4 - 187	116	117	ug/kg	0.858	30.0
PCB-1260	1153580	5840	5900	5000	22.3 - 183	117	118	ug/kg	0.851	30.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
PCB-1016	2366188	7020	6450	ND	10000	0.100 - 427	70.2	64.5	ug/kg	8.46	30.0
PCB-1260	2366188	6850	6500	ND	10000	0.100 - 470	68.5	65.0	ug/kg	5.24	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Decachlorobiphenyl	1153580	Blank	72.4	100	ug/kg	72.4	10.0 - 200	127161726
Tetrachloro-m-Xylene (Surr)	1153580	Blank	97.4	100	ug/kg	97.4	10.0 - 160	127161726
Decachlorobiphenyl	2365795	Unknown	342	498	ug/kg	68.7	10.0 - 200	127161733
Tetrachloro-m-Xylene (Surr)	2365795	Unknown	474	498	ug/kg	95.2	10.0 - 160	127161733

Analytical Set 1153888 — EPA 8081A

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP Chlordane	1153066	ND	0.0000183	0.00002	mg/L	127163435
TCLP Endrin	1153066	ND	0.000538	0.001	mg/L	127163435
TCLP gamma-BHC (Lindane)	1153066	ND	0.000385	0.001	mg/L	127163435
TCLP Heptachlor	1153066	0.000946	0.000207	0.001	mg/L	127163435
TCLP Heptachlor Epoxide	1153066	ND	0.00066	0.001	mg/L	127163435
TCLP Methoxychlor	1153066	ND	0.000898	0.001	mg/L	127163435
TCLP Toxaphene	1153066	ND	0.000169	0.0002	mg/L	127163435
TCLP Chlordane	1153416	ND	0.0000183	0.00002	mg/L	127163427
TCLP Endrin	1153416	ND	0.000538	0.001	mg/L	127163427
TCLP gamma-BHC (Lindane)	1153416	ND	0.000385	0.001	mg/L	127163427
TCLP Heptachlor	1153416	0.00062	0.000207	0.001	mg/L	127163427
TCLP Heptachlor Epoxide	1153416	ND	0.00066	0.001	mg/L	127163427
TCLP Methoxychlor	1153416	ND	0.000898	0.001	mg/L	127163427
TCLP Toxaphene	1153416	ND	0.000169	0.0002	mg/L	127163427

CCV

Parameter	Reading	Known	Units	Recover%	Limits%		File
TCLP Endrin	0.0557	0.050	mg/L	111	70.0 - 130		127163426
TCLP gamma-BHC (Lindane)	0.0528	0.050	mg/L	106	70.0 - 130		127163426
TCLP Heptachlor	0.0557	0.050	mg/L	111	70.0 - 130		127163426
TCLP Heptachlor Epoxide	0.0522	0.050	mg/L	104	70.0 - 130		127163426
TCLP Methoxychlor	0.054	0.050	mg/L	108	70.0 - 130		127163426
TCLP Endrin	0.0738	0.050	mg/L	148	70.0 - 130	*	127163434
TCLP Endrin	0.0674	0.050	mg/L	135	70.0 - 130	*	127163439
TCLP gamma-BHC (Lindane)	0.0718	0.050	mg/L	144	70.0 - 130	*	127163434
TCLP gamma-BHC (Lindane)	0.0652	0.050	mg/L	130	70.0 - 130		127163439
TCLP Heptachlor	0.0738	0.050	mg/L	148	70.0 - 130	*	127163434
TCLP Heptachlor	0.0702	0.050	mg/L	140	70.0 - 130	*	127163439

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Parameter	Reading	Known	Units	Recover%	Limits%		File
TCLP Heptachlor Epoxide	0.0708	0.050	mg/L	142	70.0 - 130	*	127163434
TCLP Heptachlor Epoxide	0.0656	0.050	mg/L	131	70.0 - 130	*	127163439
TCLP Methoxychlor	0.0924	0.050	mg/L	185	70.0 - 130	*	127163434
TCLP Methoxychlor	0.0914	0.050	mg/L	183	70.0 - 130	*	127163439

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
TCLP Endrin	1153416	0.0537	0.0566	0.100	42.6 - 137	53.7	56.6	mg/L	5.26	30.0
TCLP gamma-BHC (Lindane)	1153416	0.0466	0.0522	0.100	33.0 - 129	46.6	52.2	mg/L	11.3	30.0
TCLP Heptachlor	1153416	0.047	0.0531	0.100	24.2 - 129	47.0	53.1	mg/L	12.2	30.0
TCLP Heptachlor Epoxide	1153416	0.0462	0.0516	0.100	40.8 - 128	46.2	51.6	mg/L	11.0	30.0
TCLP Methoxychlor	1153416	0.0678	0.0595	0.100	33.3 - 146	67.8	59.5	mg/L	13.0	30.0

MS

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
TCLP Endrin	2366178	0.00301	0	ND	0.005	24.3 - 151	60.2		mg/L		30.0
TCLP gamma-BHC (Lindane)	2366178	0.00305	0	ND	0.005	21.3 - 144	61.0		mg/L		30.0
TCLP Heptachlor	2366178	0.00283	0	ND	0.005	14.9 - 138	56.6		mg/L		30.0
TCLP Heptachlor Epoxide	2366178	0.00299	0	ND	0.005	29.9 - 133	59.8		mg/L		30.0
TCLP Methoxychlor	2366178	0.00504	0	ND	0.005	10.3 - 183	101		mg/L		30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Decachlorobiphenyl	627643	CCV	0.0526	0.100	mg/L	52.6	10.0 - 150	127163426
Tetrachloro-m-Xylene (Surr)	627643	CCV	0.050	0.100	mg/L	50.0	10.0 - 150	127163426
Decachlorobiphenyl	628878	CCV	0.0613	0.100	mg/L	61.3	10.0 - 150	127163434
Decachlorobiphenyl	628878	CCV	0.0625	0.100	mg/L	62.5	10.0 - 150	127163439
Tetrachloro-m-Xylene (Surr)	628878	CCV	0.0526	0.100	mg/L	52.6	10.0 - 150	127163434
Tetrachloro-m-Xylene (Surr)	628878	CCV	0.0566	0.100	mg/L	56.6	10.0 - 150	127163439
Decachlorobiphenyl	1153066	Blank	0.0685	0.100	mg/L	68.5	10.0 - 150	127163435
Tetrachloro-m-Xylene (Surr)	1153066	Blank	0.035	0.100	mg/L	35.0	10.0 - 150	127163435
Decachlorobiphenyl	1153416	Blank	0.0421	0.100	mg/L	42.1	10.0 - 150	127163427
Decachlorobiphenyl	1153416	LCS	0.0444	0.100	mg/L	44.4	10.0 - 150	127163428
Decachlorobiphenyl	1153416	LCS Dup	0.0468	0.100	mg/L	46.8	10.0 - 150	127163429
Tetrachloro-m-Xylene (Surr)	1153416	Blank	0.0383	0.100	mg/L	38.3	10.0 - 150	127163427
Tetrachloro-m-Xylene (Surr)	1153416	LCS	0.0321	0.100	mg/L	32.1	10.0 - 150	127163428
Tetrachloro-m-Xylene (Surr)	1153416	LCS Dup	0.0407	0.100	mg/L	40.7	10.0 - 150	127163429
Decachlorobiphenyl	2365795	Unknown	0.00263	0.005	mg/L	52.6	10.0 - 150	127163436
Tetrachloro-m-Xylene (Surr)	2365795	Unknown	0.00158	0.005	mg/L	31.6	10.0 - 150	127163436
Decachlorobiphenyl	2366178	MS	0.0027	0.005	mg/L	54.0	10.0 - 150	127163438
Tetrachloro-m-Xylene (Surr)	2366178	MS	0.00176	0.005	mg/L	35.2	10.0 - 150	127163438

Analytical Set 1153943 — EPA 8151

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP 2,4 D	1153066	ND	0.0159	0.050	mg/L	127164348

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Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP 2,4,5-TP (Silvex)	1153066	ND	0.00893	0.030	mg/L	127164348
TCLP 2,4 D	1153608	0.0244	0.0159	0.050	mg/L	127164345
TCLP 2,4,5-TP (Silvex)	1153608	ND	0.00893	0.030	mg/L	127164345

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP 2,4 D	0.150	0.150	mg/L	100	70.0 - 130	127164341
TCLP 2,4 D	0.146	0.150	mg/L	97.1	70.0 - 130	127164353
TCLP 2,4,5-TP (Silvex)	0.148	0.150	mg/L	98.6	70.0 - 130	127164341
TCLP 2,4,5-TP (Silvex)	0.131	0.150	mg/L	87.5	70.0 - 130	127164353

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
TCLP 2,4 D	1153608	0.036	0.0402	0.100	2.06 - 194	36.0	40.2	mg/L	11.0	30.0
TCLP 2,4,5-TP (Silvex)	1153608	0.0312	0.0363	0.100	19.3 - 162	31.2	36.3	mg/L	15.1	30.0

MS

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
TCLP 2,4 D	2366188	0.583	0	ND	1.00	0.100 - 228	58.3		mg/L		30.0
TCLP 2,4,5-TP (Silvex)	2366188	0.501	0	ND	1.00	2.02 - 165	50.1		mg/L		30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
2,4-Dichlorophenylacetic Acid		CCV	0.150	0.200	mg/L	75.0	0.100 - 294	127164341
2,4-Dichlorophenylacetic Acid		CCV	0.156	0.200	mg/L	78.0	0.100 - 294	127164353
2,4-Dichlorophenylacetic Acid	1153066	Blank	0.0395	0.200	mg/L	19.8	0.100 - 294	127164348
2,4-Dichlorophenylacetic Acid	1153608	Blank	0.0446	0.200	mg/L	22.3	0.100 - 294	127164345
2,4-Dichlorophenylacetic Acid	1153608	LCS	0.0413	0.200	mg/L	20.6	0.100 - 294	127164346
2,4-Dichlorophenylacetic Acid	1153608	LCS Dup	0.049	0.200	mg/L	24.5	0.100 - 294	127164347
2,4-Dichlorophenylacetic Acid	2365795	Unknown	0.473	2.00	mg/L	23.6	0.100 - 294	127164349
2,4-Dichlorophenylacetic Acid	2366188	MS	0.810	2.00	mg/L	40.5	0.100 - 294	127164352

Analytical Set 1154125 EPA 8260B

BFB

Parameter	Sample	RefMass	Reading	%	Limits%	File
BFB Mass 173	1154125	174	486	1.1	0 - 2.00	127168452
BFB Mass 174	1154125	95.0	45995	70.2	50.0 - 100	127168452
BFB Mass 175	1154125	174	3661	8.0	5.00 - 9.00	127168452
BFB Mass 176	1154125	174	44058	95.8	95.0 - 101	127168452
BFB Mass 177	1154125	176	2821	6.4	5.00 - 9.00	127168452
BFB Mass 50	1154125	95.0	9849	15.0	15.0 - 40.0	127168452
BFB Mass 75	1154125	95.0	31948	48.7	30.0 - 60.0	127168452
BFB Mass 95	1154125	95.0	65565	100.0	100 - 100	127168452
BFB Mass 96	1154125	95.0	4352	6.6	5.00 - 9.00	127168452

QUALITY CONTROL

CAM5-R

Laguna Madre Water District
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Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*		*File*
TCLP 1,1-Dichloroethene	1154125	ND	0.000574	0.001	mg/L		127168456
TCLP 1,1-Dichloroethene	1154125	ND	0.000574	0.001	mg/L		127168457
TCLP 1,1-Dichloroethene	1154125	ND	0.000574	0.001	mg/L		127168458
TCLP 1,2-Dichloroethane	1154125	ND	0.00059	0.001	mg/L		127168456
TCLP 1,2-Dichloroethane	1154125	ND	0.00059	0.001	mg/L		127168457
TCLP 1,2-Dichloroethane	1154125	ND	0.00059	0.001	mg/L		127168458
TCLP 1,4 Dichlorobenzene	1154125	ND	0.000837	0.001	mg/L		127168456
TCLP 1,4 Dichlorobenzene	1154125	0.0106	0.000837	0.001	mg/L	*	127168457
TCLP 1,4 Dichlorobenzene	1154125	ND	0.000837	0.001	mg/L		127168458
TCLP Benzene	1154125	ND	0.000453	0.001	mg/L		127168456
TCLP Benzene	1154125	ND	0.000453	0.001	mg/L		127168457
TCLP Benzene	1154125	ND	0.000453	0.001	mg/L		127168458
TCLP Carbon tetrachloride	1154125	ND	0.000299	0.001	mg/L		127168456
TCLP Carbon tetrachloride	1154125	ND	0.000299	0.001	mg/L		127168457
TCLP Carbon tetrachloride	1154125	ND	0.000299	0.001	mg/L		127168458
TCLP Chlorobenzene	1154125	ND	0.000558	0.001	mg/L		127168456
TCLP Chlorobenzene	1154125	0.00161	0.000558	0.001	mg/L	*	127168457
TCLP Chlorobenzene	1154125	ND	0.000558	0.001	mg/L		127168458
TCLP Chloroform	1154125	ND	0.000463	0.001	mg/L		127168456
TCLP Chloroform	1154125	ND	0.000463	0.001	mg/L		127168457
TCLP Chloroform	1154125	ND	0.000463	0.001	mg/L		127168458
TCLP MEK	1154125	ND	0.000742	0.001	mg/L		127168456
TCLP MEK	1154125	ND	0.000742	0.001	mg/L		127168457
TCLP MEK	1154125	ND	0.000742	0.001	mg/L		127168458
TCLP Tetrachloroethylene	1154125	ND	0.000607	0.001	mg/L		127168456
TCLP Tetrachloroethylene	1154125	ND	0.000607	0.001	mg/L		127168457
TCLP Tetrachloroethylene	1154125	ND	0.000607	0.001	mg/L		127168458
TCLP Trichloroethylene	1154125	ND	0.000521	0.001	mg/L		127168456
TCLP Trichloroethylene	1154125	ND	0.000521	0.001	mg/L		127168457
TCLP Trichloroethylene	1154125	ND	0.000521	0.001	mg/L		127168458
TCLP Vinyl chloride	1154125	ND	0.000702	0.001	mg/L		127168456
TCLP Vinyl chloride	1154125	ND	0.000702	0.001	mg/L		127168457
TCLP Vinyl chloride	1154125	ND	0.000702	0.001	mg/L		127168458

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
TCLP 1,1-Dichloroethene	0.0221	0.020	mg/L	110	70.0 - 130	127168453
TCLP 1,2-Dichloroethane	0.0194	0.020	mg/L	97.0	70.0 - 130	127168453
TCLP 1,4 Dichlorobenzene	0.0205	0.020	mg/L	102	70.0 - 130	127168453
TCLP Benzene	0.0217	0.020	mg/L	108	70.0 - 130	127168453
TCLP Carbon tetrachloride	0.0184	0.020	mg/L	92.0	70.0 - 130	127168453
TCLP Chlorobenzene	0.0192	0.020	mg/L	96.0	70.0 - 130	127168453
TCLP Chloroform	0.0183	0.020	mg/L	91.5	70.0 - 130	127168453
TCLP MEK	0.0171	0.020	mg/L	85.5	70.0 - 130	127168453
TCLP Tetrachloroethylene	0.0206	0.020	mg/L	103	70.0 - 130	127168453

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CAM5-R

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CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
TCLP Trichloroethylene	0.0212	0.020	mg/L	106	70.0 - 130	127168453
TCLP Vinyl chloride	0.019	0.020	mg/L	95.0	70.0 - 130	127168453

IS Areas

Parameter	*Sample*	*Type*	*Reading*	*CCVISM*	*Low*	*High*		*File*	*PrepSet*
1,4-DichlorobenzeneD4 (ISTD)	1154125	CCV	471500	471500	330000	612900		127168453	1154125
1,4-DichlorobenzeneD4 (ISTD)	1154125	LCS	526000	471500	330000	612900		127168454	1154125
1,4-DichlorobenzeneD4 (ISTD)	1154125	LCS Dup	533800	471500	330000	612900		127168455	1154125
1,4-DichlorobenzeneD4 (ISTD)	1154125	Blank	487200	471500	330000	612900		127168456	1154125
1,4-DichlorobenzeneD4 (ISTD)	1154125	Blank	477500	471500	330000	612900		127168457	1154125
1,4-DichlorobenzeneD4 (ISTD)	1154125	Blank	501000	471500	330000	612900		127168458	1154125
ChlorobenzeneD5 (ISTD)	1154125	CCV	821100	821100	574800	1067000		127168453	1154125
ChlorobenzeneD5 (ISTD)	1154125	LCS	923600	821100	574800	1067000		127168454	1154125
ChlorobenzeneD5 (ISTD)	1154125	LCS Dup	901000	821100	574800	1067000		127168455	1154125
ChlorobenzeneD5 (ISTD)	1154125	Blank	933000	821100	574800	1067000		127168456	1154125
ChlorobenzeneD5 (ISTD)	1154125	Blank	914200	821100	574800	1067000		127168457	1154125
ChlorobenzeneD5 (ISTD)	1154125	Blank	939000	821100	574800	1067000		127168458	1154125
1,4-DichlorobenzeneD4 (ISTD)	2366188	MS	652000	471500	330000	612900	*	127168471	1153062
1,4-DichlorobenzeneD4 (ISTD)	2366188	MSD	663800	471500	330000	612900	*	127168472	1153062
ChlorobenzeneD5 (ISTD)	2366188	MS	1208000	821100	574800	1067000	*	127168471	1153062
ChlorobenzeneD5 (ISTD)	2366188	MSD	1207000	821100	574800	1067000	*	127168472	1153062

IS RetTime

Parameter	*Sample*	*Type*	*Reading*	*CCVISM*	*Low*	*High*	*File*	*PrepSet*
1,4-DichlorobenzeneD4 (ISTD)	1154125	LCS	11.97	11.97	11.91	12.03	127168454	1154125
1,4-DichlorobenzeneD4 (ISTD)	1154125	LCS Dup	11.97	11.97	11.91	12.03	127168455	1154125
1,4-DichlorobenzeneD4 (ISTD)	1154125	Blank	11.97	11.97	11.91	12.03	127168456	1154125
1,4-DichlorobenzeneD4 (ISTD)	1154125	Blank	11.97	11.97	11.91	12.03	127168457	1154125
1,4-DichlorobenzeneD4 (ISTD)	1154125	Blank	11.97	11.97	11.91	12.03	127168458	1154125
ChlorobenzeneD5 (ISTD)	1154125	LCS	9.597	9.597	9.537	9.657	127168454	1154125
ChlorobenzeneD5 (ISTD)	1154125	LCS Dup	9.597	9.597	9.537	9.657	127168455	1154125
ChlorobenzeneD5 (ISTD)	1154125	Blank	9.597	9.597	9.537	9.657	127168456	1154125
ChlorobenzeneD5 (ISTD)	1154125	Blank	9.597	9.597	9.537	9.657	127168457	1154125
ChlorobenzeneD5 (ISTD)	1154125	Blank	9.597	9.597	9.537	9.657	127168458	1154125
1,4-DichlorobenzeneD4 (ISTD)	2366188	MS	11.97	11.97	11.91	12.03	127168471	1153062
1,4-DichlorobenzeneD4 (ISTD)	2366188	MSD	11.97	11.97	11.91	12.03	127168472	1153062
ChlorobenzeneD5 (ISTD)	2366188	MS	9.597	9.597	9.537	9.657	127168471	1153062
ChlorobenzeneD5 (ISTD)	2366188	MSD	9.597	9.597	9.537	9.657	127168472	1153062

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
TCLP 1,1-Dichloroethene	1154125	0.0158	0.016	0.020	56.7 - 135	79.0	80.0	mg/L	1.26	30.0
TCLP 1,2-Dichloroethane	1154125	0.0157	0.0159	0.020	69.8 - 132	78.5	79.5	mg/L	1.27	30.0
TCLP 1,4 Dichlorobenzene	1154125	0.0174	0.0167	0.020	74.8 - 116	87.0	83.5	mg/L	4.11	30.0
TCLP Benzene	1154125	0.0175	0.0174	0.020	67.1 - 123	87.5	87.0	mg/L	0.573	30.0
TCLP Carbon tetrachloride	1154125	0.0144	0.0143	0.020	60.1 - 132	72.0	71.5	mg/L	0.697	30.0

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Laguna Madre Water District
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LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
TCLP Chlorobenzene	1154125	0.0155	0.0156	0.020	74.0 - 115	77.5	78.0	mg/L	0.643	30.0
TCLP Chloroform	1154125	0.0153	0.0147	0.020	71.1 - 128	76.5	73.5	mg/L	4.00	30.0
TCLP MEK	1154125	0.0145	0.0136	0.020	40.7 - 166	72.5	68.0	mg/L	6.41	30.0
TCLP Tetrachloroethylene	1154125	0.016	0.0161	0.020	71.2 - 126	80.0	80.5	mg/L	0.623	30.0
TCLP Trichloroethylene	1154125	0.0165	0.0167	0.020	71.4 - 126	82.5	83.5	mg/L	1.20	30.0
TCLP Vinyl chloride	1154125	0.0139	0.0148	0.020	18.5 - 155	69.5	74.0	mg/L	6.27	30.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
TCLP 1,1-Dichloroethene	2366188	0.167	0.164	ND	0.200	0.100 - 168	83.5	82.0	mg/L	1.81	30.0
TCLP 1,2-Dichloroethane	2366188	0.132	0.127	ND	0.200	48.4 - 134	66.0	63.5	mg/L	3.86	30.0
TCLP 1,4 Dichlorobenzene	2366188	0.198	0.180	ND	0.200	45.4 - 121	99.0	90.0	mg/L	9.52	30.0
TCLP Benzene	2366188	0.184	0.173	ND	0.200	5.00 - 119	92.0	86.5	mg/L	6.16	30.0
TCLP Carbon tetrachloride	2366188	0.130	0.122	ND	0.200	0.100 - 164	65.0	61.0	mg/L	6.35	30.0
TCLP Chlorobenzene	2366188	0.168	0.156	ND	0.200	32.5 - 130	84.0	78.0	mg/L	7.41	30.0
TCLP Chloroform	2366188	0.141	0.139	ND	0.200	22.1 - 141	70.5	69.5	mg/L	1.43	30.0
TCLP MEK	2366188	0.162	0.146	ND	0.200	9.88 - 197	81.0	73.0	mg/L	10.4	30.0
TCLP Tetrachloroethylene	2366188	0.163	0.154	ND	0.200	0.100 - 157	81.5	77.0	mg/L	5.68	30.0
TCLP Trichloroethylene	2366188	0.160	0.155	ND	0.200	0.100 - 161	80.0	77.5	mg/L	3.17	30.0
TCLP Vinyl chloride	2366188	0.149	0.140	ND	0.200	0.100 - 197	74.5	70.0	mg/L	6.23	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
1,2-DCA-d4 (SURR)	1154125	CCV	0.0182	0.020	mg/L	91.0	74.2 - 132	127168453
1,2-DCA-d4 (SURR)	1154125	LCS	0.0176	0.020	mg/L	88.0	74.2 - 132	127168454
1,2-DCA-d4 (SURR)	1154125	LCS Dup	0.0177	0.020	mg/L	88.5	74.2 - 132	127168455
1,2-DCA-d4 (SURR)	1154125	Blank	0.0174	0.020	mg/L	87.0	74.2 - 132	127168456
1,2-DCA-d4 (SURR)	1154125	Blank	0.0174	0.020	mg/L	87.0	74.2 - 132	127168457
1,2-DCA-d4 (SURR)	1154125	Blank	0.0173	0.020	mg/L	86.5	74.2 - 132	127168458
Bromofluorobenzene (SURR)	1154125	CCV	0.0198	0.020	mg/L	99.0	77.2 - 134	127168453
Bromofluorobenzene (SURR)	1154125	LCS	0.0197	0.020	mg/L	98.5	77.2 - 134	127168454
Bromofluorobenzene (SURR)	1154125	LCS Dup	0.0194	0.020	mg/L	97.0	77.2 - 134	127168455
Bromofluorobenzene (SURR)	1154125	Blank	0.0213	0.020	mg/L	106	77.2 - 134	127168456
Bromofluorobenzene (SURR)	1154125	Blank	0.021	0.020	mg/L	105	77.2 - 134	127168457
Bromofluorobenzene (SURR)	1154125	Blank	0.0205	0.020	mg/L	102	77.2 - 134	127168458
Dibromofluoromethane (SURR)	1154125	CCV	0.0196	0.020	mg/L	98.0	67.2 - 122	127168453
Dibromofluoromethane (SURR)	1154125	LCS	0.0196	0.020	mg/L	98.0	67.2 - 122	127168454
Dibromofluoromethane (SURR)	1154125	LCS Dup	0.0194	0.020	mg/L	97.0	67.2 - 122	127168455
Dibromofluoromethane (SURR)	1154125	Blank	0.0193	0.020	mg/L	96.5	67.2 - 122	127168456
Dibromofluoromethane (SURR)	1154125	Blank	0.0192	0.020	mg/L	96.0	67.2 - 122	127168457
Dibromofluoromethane (SURR)	1154125	Blank	0.0193	0.020	mg/L	96.5	67.2 - 122	127168458
ToluneneD8 (SURR)	1154125	CCV	0.0196	0.020	mg/L	98.0	69.2 - 122	127168453
ToluneneD8 (SURR)	1154125	LCS	0.0198	0.020	mg/L	99.0	69.2 - 122	127168454
ToluneneD8 (SURR)	1154125	LCS Dup	0.0201	0.020	mg/L	100	69.2 - 122	127168455
ToluneneD8 (SURR)	1154125	Blank	0.0199	0.020	mg/L	99.5	69.2 - 122	127168456

CAM5-R

Laguna Madre Water District
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Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
ToueneD8 (SURR)	1154125	Blank	0.0199	0.020	mg/L	99.5	69.2 - 122	127168457
ToueneD8 (SURR)	1154125	Blank	0.0199	0.020	mg/L	99.5	69.2 - 122	127168458
1,2-DCA-d4 (SURR)	2365795	Unknown	0.0157	0.020	mg/L	78.5	74.2 - 132	127168469
Bromofluorobenzene (SURR)	2365795	Unknown	0.0194	0.020	mg/L	97.0	77.2 - 134	127168469
Dibromofluoromethane (SURR)	2365795	Unknown	0.0188	0.020	mg/L	94.0	67.2 - 122	127168469
ToueneD8 (SURR)	2365795	Unknown	0.0203	0.020	mg/L	102	69.2 - 122	127168469
1,2-DCA-d4 (SURR)	2366188	MS	0.0148	0.020	mg/L	74.0 *	74.2 - 132	127168471
1,2-DCA-d4 (SURR)	2366188	MSD	0.0148	0.020	mg/L	74.0 *	74.2 - 132	127168472
Bromofluorobenzene (SURR)	2366188	MS	0.0195	0.020	mg/L	97.5	77.2 - 134	127168471
Bromofluorobenzene (SURR)	2366188	MSD	0.019	0.020	mg/L	95.0	77.2 - 134	127168472
Dibromofluoromethane (SURR)	2366188	MS	0.0182	0.020	mg/L	91.0	67.2 - 122	127168471
Dibromofluoromethane (SURR)	2366188	MSD	0.0188	0.020	mg/L	94.0	67.2 - 122	127168472
ToueneD8 (SURR)	2366188	MS	0.0195	0.020	mg/L	97.5	69.2 - 122	127168471
ToueneD8 (SURR)	2366188	MSD	0.0198	0.020	mg/L	99.0	69.2 - 122	127168472

Analytical Set 1154473 EPA 8270C

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP 2,4,5-Trichlorophenol	1153066	ND	0.000961	0.005	mg/L	127176175
TCLP 2,4,6-Trichlorophenol	1153066	ND	0.00124	0.002	mg/L	127176175
TCLP 2,4-Dinitrotoluene	1153066	ND	0.00135	0.002	mg/L	127176175
TCLP 2-Methylphenol (o-Cresol)	1153066	ND	0.00848	0.010	mg/L	127176175
TCLP 3&4-Methylphenol (m&p-Creso	1153066	ND	0.00778	0.008	mg/L	127176175
TCLP Hexachlorobenzene	1153066	ND	0.000871	0.001	mg/L	127176175
TCLP Hexachlorobutadiene	1153066	ND	0.00103	0.00103	mg/L	127176175
TCLP Hexachloroethane	1153066	ND	0.00105	0.002	mg/L	127176175
TCLP Nitrobenzene	1153066	ND	0.000271	0.001	mg/L	127176175
TCLP Pentachlorophenol	1153066	ND	0.00096	0.005	mg/L	127176175
TCLP Pyridine (Reg. Limit 5)	1153066	ND	0.00135	0.00135	mg/L	127176175
TCLP 2,4,5-Trichlorophenol	1153617	ND	0.000961	0.005	mg/L	127176172
TCLP 2,4,6-Trichlorophenol	1153617	ND	0.00124	0.002	mg/L	127176172
TCLP 2,4-Dinitrotoluene	1153617	ND	0.00135	0.002	mg/L	127176172
TCLP 2-Methylphenol (o-Cresol)	1153617	ND	0.00848	0.010	mg/L	127176172
TCLP 3&4-Methylphenol (m&p-Creso	1153617	ND	0.00778	0.008	mg/L	127176172
TCLP Hexachlorobenzene	1153617	ND	0.000871	0.001	mg/L	127176172
TCLP Hexachlorobutadiene	1153617	ND	0.00103	0.00103	mg/L	127176172
TCLP Hexachloroethane	1153617	ND	0.00105	0.002	mg/L	127176172
TCLP Nitrobenzene	1153617	ND	0.000271	0.001	mg/L	127176172
TCLP Pentachlorophenol	1153617	ND	0.00096	0.005	mg/L	127176172
TCLP Pyridine (Reg. Limit 5)	1153617	ND	0.00135	0.00135	mg/L	127176172

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP 2,4,5-Trichlorophenol	47.9	50.0	mg/L	95.8	70.0 - 130	127176169
TCLP 2,4,6-Trichlorophenol	48.1	50.0	mg/L	96.1	70.0 - 130	127176169

CAM5-R

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CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
TCLP 2,4-Dinitrotoluene	47.6	50.0	mg/L	95.3	70.0 - 130	127176169
TCLP 2-Methylphenol (o-Cresol)	45.1	50.0	mg/L	90.2	70.0 - 130	127176169
TCLP 3&4-Methylphenol (m&p-Creso	45.0	50.0	mg/L	90.0	70.0 - 130	127176169
TCLP Hexachlorobenzene	46.5	50.0	mg/L	93.0	70.0 - 130	127176169
TCLP Hexachlorobutadiene	58.1	50.0	mg/L	116	70.0 - 130	127176169
TCLP Hexachloroethane	52.9	50.0	mg/L	106	70.0 - 130	127176169
TCLP Nitrobenzene	51.6	50.0	mg/L	103	70.0 - 130	127176169
TCLP Pentachlorophenol	43.7	50.0	mg/L	87.4	70.0 - 130	127176169
TCLP Pyridine (Reg. Limit 5)	50.5	50.0	mg/L	101	70.0 - 130	127176169

DFTPP

Parameter		*RefMass*	*Reading*	*%*	*Limits%*	*File*
DFTPP Mass 127	628829	198	72757	57.2	40.0 - 60.0	127176168
DFTPP Mass 197	628829	198	0	0.0	0 - 1.00	127176168
DFTPP Mass 198	628829	198	127221	100.0	100 - 100	127176168
DFTPP Mass 199	628829	198	8866	7.0	5.00 - 9.00	127176168
DFTPP Mass 275	628829	198	29528	23.2	10.0 - 30.0	127176168
DFTPP Mass 365	628829	198	4345	3.4	1.00 - 100	127176168
DFTPP Mass 441	628829	443	10748	80.4	0 - 100	127176168
DFTPP Mass 442	628829	198	71995	56.6	40.0 - 100	127176168
DFTPP Mass 443	628829	442	13371	18.6	17.0 - 23.0	127176168
DFTPP Mass 51	628829	198	45258	35.6	30.0 - 60.0	127176168
DFTPP Mass 68	628829	69.0	53	0.1	0 - 2.00	127176168
DFTPP Mass 69	628829	198	51964	40.8	0 - 100	127176168
DFTPP Mass 70	628829	69.0	322	0.6	0 - 2.00	127176168

IS Areas

Parameter	*Sample*	*Type*	*Reading*	*CCVISM*	*Low*	*High*	*File*	*PrepSet*
1,4-Dichlorobenzene-d4-ISTD	627853	CCV	252600	252600	126300	378900	127176169	627853
Acenaphthene-d10-ISTD	627853	CCV	504500	504500	252300	756800	127176169	627853
Naphthalene-d8-ISTD	627853	CCV	890500	890500	445200	1336000	127176169	627853
Phenanthrene-d10-ISTD	627853	CCV	830500	830500	415200	1246000	127176169	627853
1,4-Dichlorobenzene-d4-ISTD	1153066	Blank	202100	252600	126300	378900	127176175	1153066
Acenaphthene-d10-ISTD	1153066	Blank	412500	504500	252300	756800	127176175	1153066
Naphthalene-d8-ISTD	1153066	Blank	752800	890500	445200	1336000	127176175	1153066
Phenanthrene-d10-ISTD	1153066	Blank	617400	830500	415200	1246000	127176175	1153066
1,4-Dichlorobenzene-d4-ISTD	1153617	Blank	137200	252600	126300	378900	127176172	1153617
1,4-Dichlorobenzene-d4-ISTD	1153617	LCS	198400	252600	126300	378900	127176173	1153617
1,4-Dichlorobenzene-d4-ISTD	1153617	LCS Dup	191800	252600	126300	378900	127176174	1153617
Acenaphthene-d10-ISTD	1153617	Blank	283300	504500	252300	756800	127176172	1153617
Acenaphthene-d10-ISTD	1153617	LCS	402500	504500	252300	756800	127176173	1153617
Acenaphthene-d10-ISTD	1153617	LCS Dup	407800	504500	252300	756800	127176174	1153617
Naphthalene-d8-ISTD	1153617	Blank	503600	890500	445200	1336000	127176172	1153617
Naphthalene-d8-ISTD	1153617	LCS	716400	890500	445200	1336000	127176173	1153617
Naphthalene-d8-ISTD	1153617	LCS Dup	703800	890500	445200	1336000	127176174	1153617

CAM5-R

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IS Areas

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
Phenanthrene-d10-ISTD	1153617	Blank	434600	830500	415200	1246000	127176172	1153617
Phenanthrene-d10-ISTD	1153617	LCS	632900	830500	415200	1246000	127176173	1153617
Phenanthrene-d10-ISTD	1153617	LCS Dup	662100	830500	415200	1246000	127176174	1153617
1,4-Dichlorobenzene-d4-ISTD	2365795	Unknown	146500	252600	126300	378900	127176178	1153617
Acenaphthene-d10-ISTD	2365795	Unknown	297400	504500	252300	756800	127176178	1153617
Naphthalene-d8-ISTD	2365795	Unknown	535500	890500	445200	1336000	127176178	1153617
Phenanthrene-d10-ISTD	2365795	Unknown	423300	830500	415200	1246000	127176178	1153617
1,4-Dichlorobenzene-d4-ISTD	2366188	MS	139200	252600	126300	378900	127176177	1153617
Acenaphthene-d10-ISTD	2366188	MS	289000	504500	252300	756800	127176177	1153617
Naphthalene-d8-ISTD	2366188	MS	507500	890500	445200	1336000	127176177	1153617
Phenanthrene-d10-ISTD	2366188	MS	436500	830500	415200	1246000	127176177	1153617

IS RetTime

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
1,4-Dichlorobenzene-d4-ISTD	627853	CCV	5.170	5.170	5.110	5.230	127176169	627853
Acenaphthene-d10-ISTD	627853	CCV	7.677	7.677	7.617	7.737	127176169	627853
Naphthalene-d8-ISTD	627853	CCV	6.214	6.214	6.154	6.274	127176169	627853
Phenanthrene-d10-ISTD	627853	CCV	8.939	8.939	8.879	8.999	127176169	627853
1,4-Dichlorobenzene-d4-ISTD	1153066	Blank	5.165	5.170	5.110	5.230	127176175	1153066
Acenaphthene-d10-ISTD	1153066	Blank	7.677	7.677	7.617	7.737	127176175	1153066
Naphthalene-d8-ISTD	1153066	Blank	6.208	6.214	6.154	6.274	127176175	1153066
Phenanthrene-d10-ISTD	1153066	Blank	8.933	8.939	8.879	8.999	127176175	1153066
1,4-Dichlorobenzene-d4-ISTD	1153617	Blank	5.165	5.170	5.110	5.230	127176172	1153617
1,4-Dichlorobenzene-d4-ISTD	1153617	LCS	5.165	5.170	5.110	5.230	127176173	1153617
1,4-Dichlorobenzene-d4-ISTD	1153617	LCS Dup	5.165	5.170	5.110	5.230	127176174	1153617
Acenaphthene-d10-ISTD	1153617	Blank	7.677	7.677	7.617	7.737	127176172	1153617
Acenaphthene-d10-ISTD	1153617	LCS	7.677	7.677	7.617	7.737	127176173	1153617
Acenaphthene-d10-ISTD	1153617	LCS Dup	7.677	7.677	7.617	7.737	127176174	1153617
Naphthalene-d8-ISTD	1153617	Blank	6.208	6.214	6.154	6.274	127176172	1153617
Naphthalene-d8-ISTD	1153617	LCS	6.208	6.214	6.154	6.274	127176173	1153617
Naphthalene-d8-ISTD	1153617	LCS Dup	6.208	6.214	6.154	6.274	127176174	1153617
Phenanthrene-d10-ISTD	1153617	Blank	8.933	8.939	8.879	8.999	127176172	1153617
Phenanthrene-d10-ISTD	1153617	LCS	8.933	8.939	8.879	8.999	127176173	1153617
Phenanthrene-d10-ISTD	1153617	LCS Dup	8.933	8.939	8.879	8.999	127176174	1153617
1,4-Dichlorobenzene-d4-ISTD	2365795	Unknown	5.165	5.170	5.110	5.230	127176178	1153617
Acenaphthene-d10-ISTD	2365795	Unknown	7.671	7.677	7.617	7.737	127176178	1153617
Naphthalene-d8-ISTD	2365795	Unknown	6.208	6.214	6.154	6.274	127176178	1153617
Phenanthrene-d10-ISTD	2365795	Unknown	8.933	8.939	8.879	8.999	127176178	1153617
1,4-Dichlorobenzene-d4-ISTD	2366188	MS	5.165	5.170	5.110	5.230	127176177	1153617
Acenaphthene-d10-ISTD	2366188	MS	7.677	7.677	7.617	7.737	127176177	1153617
Naphthalene-d8-ISTD	2366188	MS	6.208	6.214	6.154	6.274	127176177	1153617
Phenanthrene-d10-ISTD	2366188	MS	8.933	8.939	8.879	8.999	127176177	1153617

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%

CAM5-R

Laguna Madre Water District
Mark A. Garza
105 Port Rd.
Port Isabel, TX 78578-

Project
1129426

Printed 01/14/2025

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
TCLP 2,4,5-Trichlorophenol	1153617	0.0195	0.0196	0.025	39.3 - 111	78.0	78.4	mg/L	0.512	30.0
TCLP 2,4,6-Trichlorophenol	1153617	0.0181	0.0179	0.025	38.2 - 109	72.4	71.6	mg/L	1.11	30.0
TCLP 2,4-Dinitrotoluene	1153617	0.0173	0.0181	0.025	36.3 - 132	69.2	72.4	mg/L	4.52	30.0
TCLP 2-Methylphenol (o-Cresol)	1153617	0.0139	0.0142	0.025	23.0 - 87.8	55.6	56.8	mg/L	2.14	30.0
TCLP 3&4-Methylphenol (m&p-Creso	1153617	0.0116	0.0114	0.025	14.9 - 92.5	46.4	45.6	mg/L	1.74	30.0
TCLP Hexachlorobenzene	1153617	0.0172	0.0175	0.025	44.4 - 117	68.8	70.0	mg/L	1.73	30.0
TCLP Hexachlorobutadiene	1153617	0.0113	0.0123	0.025	17.2 - 88.9	45.2	49.2	mg/L	8.47	30.0
TCLP Hexachloroethane	1153617	0.0116	0.0127	0.025	14.6 - 88.8	46.4	50.8	mg/L	9.05	30.0
TCLP Nitrobenzene	1153617	0.0191	0.0183	0.025	34.3 - 113	76.4	73.2	mg/L	4.28	30.0
TCLP Pentachlorophenol	1153617	0.0161	0.0172	0.025	15.7 - 129	64.4	68.8	mg/L	6.61	30.0
TCLP Pyridine (Reg. Limit 5)	1153617	0.00611	0.00593	0.025	0.0753 - 83.4	24.4	23.7	mg/L	2.91	30.0

MS

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
TCLP 2,4,5-Trichlorophenol	2366188	0.191	0	ND	0.250	33.7 - 116	76.4		mg/L		30.0
TCLP 2,4,6-Trichlorophenol	2366188	0.178	0	ND	0.250	20.1 - 131	71.2		mg/L		30.0
TCLP 2,4-Dinitrotoluene	2366188	0.158	0	ND	0.250	31.8 - 135	63.2		mg/L		30.0
TCLP 2-Methylphenol (o-Cresol)	2366188	0.143	0	ND	0.250	10.6 - 106	57.2		mg/L		30.0
TCLP 3&4-Methylphenol (m&p-Creso	2366188	0.118	0	ND	0.250	0.100 - 149	47.2		mg/L		30.0
TCLP Hexachlorobenzene	2366188	0.183	0	ND	0.250	35.9 - 125	73.2		mg/L		30.0
TCLP Hexachlorobutadiene	2366188	0.129	0	ND	0.250	11.1 - 88.5	51.6		mg/L		30.0
TCLP Hexachloroethane	2366188	0.126	0	ND	0.250	8.41 - 88.1	50.4		mg/L		30.0
TCLP Nitrobenzene	2366188	0.199	0	0.0015	0.250	28.7 - 119	79.0		mg/L		30.0
TCLP Pentachlorophenol	2366188	0.156	0	ND	0.250	8.33 - 141	62.4		mg/L		30.0
TCLP Pyridine (Reg. Limit 5)	2366188	0.0783	0	ND	0.250	0.100 - 97.2	31.3		mg/L		30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
2,4,6-Tribromophenol	627853	CCV	43.5	100	mg/L	43.5	9.79 - 123	127176169
2-Fluorobiphenyl-SURR	627853	CCV	51.0	50.0	mg/L	102	0.100 - 131	127176169
2-Fluorophenol-SURR	627853	CCV	48.8	100	mg/L	48.8	5.36 - 80.2	127176169
4-Terphenyl-d14-SURR	627853	CCV	47.6	50.0	mg/L	95.2	0.100 - 137	127176169
Nitrobenzene-d5-SURR	627853	CCV	47.4	50.0	mg/L	94.8	0.100 - 131	127176169
Phenol-d6-SURR	627853	CCV	45.0	100	mg/L	45.0	0.100 - 66.5	127176169
2,4,6-Tribromophenol	1153066	Blank	2.08	3.33	mg/L	62.5	9.79 - 123	127176175
2-Fluorobiphenyl-SURR	1153066	Blank	38.3	50.0	mg/L	76.6	0.100 - 131	127176175
2-Fluorophenol-SURR	1153066	Blank	43.5	100	mg/L	43.5	5.36 - 80.2	127176175
4-Terphenyl-d14-SURR	1153066	Blank	40.1	50.0	mg/L	80.2	0.100 - 137	127176175
Nitrobenzene-d5-SURR	1153066	Blank	37.6	50.0	mg/L	75.2	0.100 - 131	127176175
Phenol-d6-SURR	1153066	Blank	26.4	100	mg/L	26.4	0.100 - 66.5	127176175
2,4,6-Tribromophenol	1153617	Blank	1.91	3.33	mg/L	57.4	9.79 - 123	127176172
2,4,6-Tribromophenol	1153617	LCS	2.26	3.33	mg/L	67.9	9.79 - 123	127176173
2,4,6-Tribromophenol	1153617	LCS Dup	2.39	3.33	mg/L	71.8	9.79 - 123	127176174
2-Fluorobiphenyl-SURR	1153617	Blank	31.7	50.0	mg/L	63.4	0.100 - 131	127176172
2-Fluorobiphenyl-SURR	1153617	LCS	32.3	50.0	mg/L	64.6	0.100 - 131	127176173

QUALITY CONTROL

CAM5-R

Laguna Madre Water District
Mark A. Garza
105 Port Rd.
Port Isabel, TX 78578-

Project
1129426

Printed 01/14/2025

Surrogate

Parameter	*Sample*	*Type*	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
2-Fluorobiphenyl-SURR	1153617	LCS Dup	31.9	50.0	mg/L	63.8	0.100 - 131	127176174
2-Fluorophenol-SURR	1153617	Blank	39.0	100	mg/L	39.0	5.36 - 80.2	127176172
2-Fluorophenol-SURR	1153617	LCS	39.4	100	mg/L	39.4	5.36 - 80.2	127176173
2-Fluorophenol-SURR	1153617	LCS Dup	39.9	100	mg/L	39.9	5.36 - 80.2	127176174
4-Terphenyl-d14-SURR	1153617	Blank	37.2	50.0	mg/L	74.4	0.100 - 137	127176172
4-Terphenyl-d14-SURR	1153617	LCS	34.5	50.0	mg/L	69.0	0.100 - 137	127176173
4-Terphenyl-d14-SURR	1153617	LCS Dup	34.2	50.0	mg/L	68.4	0.100 - 137	127176174
Nitrobenzene-d5-SURR	1153617	Blank	32.8	50.0	mg/L	65.6	0.100 - 131	127176172
Nitrobenzene-d5-SURR	1153617	LCS	32.5	50.0	mg/L	65.0	0.100 - 131	127176173
Nitrobenzene-d5-SURR	1153617	LCS Dup	32.4	50.0	mg/L	64.8	0.100 - 131	127176174
Phenol-d6-SURR	1153617	Blank	24.1	100	mg/L	24.1	0.100 - 66.5	127176172
Phenol-d6-SURR	1153617	LCS	25.1	100	mg/L	25.1	0.100 - 66.5	127176173
Phenol-d6-SURR	1153617	LCS Dup	26.1	100	mg/L	26.1	0.100 - 66.5	127176174
2,4,6-Tribromophenol	2365795	Unknown	0.638	1.00	mg/L	63.8	9.79 - 123	127176178
2-Fluorobiphenyl-SURR	2365795	Unknown	0.340	0.500	mg/L	68.0	0.100 - 131	127176178
2-Fluorophenol-SURR	2365795	Unknown	0.419	1.00	mg/L	41.9	5.36 - 80.2	127176178
4-Terphenyl-d14-SURR	2365795	Unknown	0.388	0.500	mg/L	77.6	0.100 - 137	127176178
Nitrobenzene-d5-SURR	2365795	Unknown	0.324	0.500	mg/L	64.8	0.100 - 131	127176178
Phenol-d6-SURR	2365795	Unknown	0.251	1.00	mg/L	25.1	0.100 - 66.5	127176178
2,4,6-Tribromophenol	2366188	MS	0.658	1.00	mg/L	65.8	9.79 - 123	127176177
2-Fluorobiphenyl-SURR	2366188	MS	0.327	0.500	mg/L	65.4	0.100 - 131	127176177
2-Fluorophenol-SURR	2366188	MS	0.424	1.00	mg/L	42.4	5.36 - 80.2	127176177
4-Terphenyl-d14-SURR	2366188	MS	0.374	0.500	mg/L	74.8	0.100 - 137	127176177
Nitrobenzene-d5-SURR	2366188	MS	0.338	0.500	mg/L	67.6	0.100 - 131	127176177
Phenol-d6-SURR	2366188	MS	0.262	1.00	mg/L	26.2	0.100 - 66.5	127176177

* 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.); LDR - Linear Dynamic Range Standard; 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.); 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.); 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.); DFTPP - GC/MS Tuning Compound; CCB - Continuing Calibration Blank

Email: Kilgore.ProjectManagement@spllabs.com

1129426 CoC Print Group 001 of 001

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

SPL
The Science of Sure

CHAIN OF CUSTODY

Printed 04/12/2024 Page 1 of 2

Laguna Madre Water District
Mark A. Garza
105 Port Rd.
Port Isabel, TX 78578-

CAM5-R
135

Lab Number 2316794
PO Number 23- 13245
Phone 956/943-2626

Sludge

Isla Blanca WWTP

[✓] *Hand Delivered by Client to Region or LAB*

Matrix: Solid & Chemical Materials

Sample Collection Start
Date: 12.17.24 Time: 16:34
Sampler Printed Name: Frank Gamez III - SPL, Inc.
Sampler Affiliation: _____
Sampler Signature: _____

Samples Radioactive? [ ] Samples Contains Dioxin? [ ] Samples Biological Hazard? [ ]

[1] **Glass 4 oz w/Teflon lined lid**

Short Hold	**OCR**	Oxygen Consumption Rate	SM 2710 B-2004 (2.00 days)
Short Hold	**SOUR**	Specific Oxygen Uptake Rate 20C	SM 2710 B-2011 MOD (2.00 days)
NELAC	**TSS**	Total Suspended Solids	SM 2540 D-2015 (7.00 days)
NELAC	**VSS**	Volatile Suspended Solids	EPA 160.4

Ambient Conditions/Comments

Date	Time	Relinquished	Received
12 17 24	17:30	Printed Name Frank Gamez III - SPL, Inc. Affiliation Signature	Printed Name Fedex Affiliation Signature
12/18/24	MW 11000	Printed Name Affiliation Signature FEDEX	Printed Name Affiliation Signature McCabe Wheeler SPL, Inc.
		Printed Name Affiliation Signature	Printed Name Affiliation Signature
		Printed Name Affiliation Signature	Printed Name Affiliation Signature

1129426 CoC Print Group 001 of 001

2600 Dudley Rd. Kilgore, Texas 75662
24 Waterway Avenue, Suite 375 The Woodlands, TX 77380
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CHAIN OF CUSTODY

Printed 04/12/2024 Page 1 of 2

Laguna Madre Water District
Mark A. Garza
105 Port Rd.
Port Isabel, TX 78578-

CAM5 -R
129

Lab Number 2365795
PO Number 23- 13245
Phone 956/943-2626

ID
Isla Blanca WWTP

☑ Hand Delivered by Client to Region or LAB

Matrix: Solid & Chemical Materials

Sample Collection Start
Date: 12-17-24 Time: 16:30
Sampler Printed Name: Frank Gamez III - SPL, Inc.
Sampler Affiliation:
Sampler Signature:

Samples Radioactive? ☐ Samples Contains Dioxin? ☐ Samples Biological Hazard? ☐

2 Glass Qt w/Teflon lined lid

NELAC	*AgT	TCLP Silver	EPA 6020A CAS:7440-22-4 (14.0 days)
NELAC	*AsT	TCLP Arsenic	EPA 6020A CAS:7440-38-2 (14.0 days)
NELAC	*BaT	TCLP Barium	EPA 6020A CAS:7440-39-3 (14.0 days)
NELAC	*CdT	TCLP Cadmium	EPA 6020A CAS:7440-43-9 (14.0 days)
NELAC	*CrT	TCLP Chromium	EPA 6020A CAS:7440-47-3 (14.0 days)
NELAC	*Hg*	TCLP Mercury	EPA 7470 A CAS:7439-97-6 (14.0 days)
NELAC	*PbT	TCLP Lead	EPA 6020A CAS:7439-92-1 (14.0 days)
NELAC	*SeT	TCLP Selenium	EPA 6020A CAS:7782-49-2 (14.0 days)
NELAC	*TCL	TCLP Extraction Non-Volatile	EPA 1311 (14.0 days)
NELAC	TABN	MS TCLP Semivolatile Analysis	EPA 8270C (7.00 days)
NELAC	TG50	GC TCLP Herbicide	EPA 8151 (7.00 days)
NELAC	TG80	GC TCLP Pesticide	EPA 8081A (7.00 days)
NELAC	TVOA	MS TCLP Volatile Analysis	EPA 8260B (14.0 days)
NELAC	TVOX	TCLP Extraction ZHE Volatiles	EPA 1311ZHE (14.0 days)

1 Glass 4 oz w/Teflon lined lid

1129426 CoC Print Group 001 of 001

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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Printed 04/12/2024 Page 2 of 2

Laguna Madre Water District
Mark A. Garza
105 Port Rd.
Port Isabel, TX 78578-
NELAC

CAM5 -R
129

IPCB Polychlorinated Biphenyls EPA 8082 (7.00 days)

Ambient Conditions/Comments

Date	Time	Relinquished	Received
12 17 24	17:30	Printed Name Frank Gamez III - SPL, Inc. Affiliation Signature	Printed Name Affiliation Fedex Signature
12/18/24	1100	Printed Name Affiliation Signature FEDEX	Printed Name Affiliation Signature McCabe Wheeler SPL, Inc.
		Printed Name Affiliation Signature	Printed Name Affiliation Signature
		Printed Name Affiliation Signature	Printed Name Affiliation Signature

Sample Received on Ice? [X] Yes [ ] No
Cooler/Sample Secure? [X] Yes [ ] No **If Shipped: Tracking Number & Temp - See Attached**

The accredited column designates accreditation by A - A2LA, N - NELAC, or z - not listed under scope of accreditation. Unless otherwise specified, ANA-LAB shall provide these ordered services pursuant to our Standard Terms & Conditions Agreement (available for download from the welcome page at <http://www.ana-lab.com>). Ana-Lab personnel collect samples as specified by Ana-Lab SOP #000323.

Comments

1129426 CoC Print Group 001 of 001

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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The Science of Sure

CHAIN OF CUSTODY

Printed 04/12/2024 Page 1 of 2

Laguna Madre Water District
Mark A. Garza
105 Port Rd.
Port Isabel, TX 78578-

CAM5-R
147

Lab Number 2365796
PO Number 23- 13245
Phone 956/943-2626

Sludge

Isla Blanca WWTP

☑ *Hand Delivered by Client to Region or LAB*

Matrix: Solid & Chemical Materials

Sample Collection Start
Date: 12.17.24 Time: 16:32
Sampler Printed Name: Frank Gamez III - SPL, Inc.
Sampler Affiliation:
Sampler Signature:

Samples Radioactive? ☐ **Samples Contains Dioxin?** ☐ **Samples Biological Hazard?** ☐

1 **Glass 4 oz w/Teflon lined lid**

NELAC	***AsM**	Arsenic, Total	EPA 6020A CAS:7440-38-2 (180 days)
NELAC	***CrM**	Chromium, Total	EPA 6020A CAS:7440-47-3 (180 days)
NELAC	***NiM**	Nickel, Total	EPA 6020A CAS:7440-02-0 (180 days)
NELAC	**301S**	Solid Metals Digestion	EPA 200.2 2.8 (180 days)
	PU85	Sampling/Transport	
NELAC	**TS%**	Total Solids for Dry Wt Conversi	SM2540 G-1997 /MOD

0 **Z -- No bottle required**

ARDW	As Received to Dry Weight Basis	Calculation

Ambient Conditions/Comments

1129426 CoC Print Group 001 of 001

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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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CHAIN OF CUSTODY

Printed 04/12/2024 Page 2 of 2

Laguna Madre Water District
Mark A. Garza
105 Port Rd.
Port Isabel, TX 78578-

CAM5-R
147

Date	Time	Relinquished	Received
12 17 24	17:30	Printed Name Affiliation: Frank Gamez III - SPL, Inc.	Printed Name Affiliation: Fedex
		Signature	Signature
12/18/24	1100	Printed Name Affiliation	Printed Name Affiliation: McCabe Wheeler SPL, Inc.
		Signature: FEDEX	Signature
		Printed Name Affiliation	Printed Name Affiliation
		Signature	Signature
		Printed Name Affiliation	Printed Name Affiliation
		Signature	Signature

Sample Received on Ice? [X] Yes [ ] No
Cooler/Sample Secure? [X] Yes [ ] No **If Shipped: Tracking Number & Temp - See Attached**

The accredited column designates accreditation by A - A2LA, N - NELAC, or z - not listed under scope of accreditation. Unless otherwise specified, ANA-LAB shall provide these ordered services pursuant to our Standard Terms & Conditions Agreement (available for download from the welcome page at <http://www.ana-lab.com>). Ana-Lab personnel collect samples as specified by Ana-Lab SOP #000323.

Comments

1129426 CoC Print Group 001 of 001

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

Project
1128974

CAM5-R

Laguna Madre Water District
Mark A. Garza
105 Port Rd.
Port Isabel, TX 78578-

Printed 01/08/2025
12:03

TABLE OF CONTENTS

This report consists of this Table of Contents and the following pages:

Email: Kilgore.ProjectManagement@spllabs.com

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

SAMPLE CROSS REFERENCE

Project
1128974

Laguna Madre Water District
Mark A. Garza
105 Port Rd.
Port Isabel, TX 78578-

Sample	Sample ID	Taken	Time	Received
2364149	*ID LAGUNA VISTA WWPT*	12/10/2024	15:34:00	12/13/2024

Bottle 01 Glass Qt w/Teflon lined lid
Bottle 02 Glass Qt w/Teflon lined lid
Bottle 03 Glass 4 oz w/Teflon lined lid
Bottle 04 Prepared Bottle: TCLP Extract for TVOA (Batch 1152336)<== Derived from 01 (0 ml)
Bottle 05 Prepared Bottle: TEDLAR BAG (Batch 1152336) Volume: 300.00000 mL <== Derived from 01 (300 ml)
Bottle 06 Prepared Bottle: TCLP Extract (Batch 1152344) Volume: 2000.00000 mL <== Derived from 01 (100 ml)
Bottle 07 Prepared Bottle: TCLP Extract for Metals (Batch 1152344) Volume: 100.00000 mL <== Derived from 01 (300 ml)
Bottle 08 Prepared Bottle: TCLP Extract for TABN/TCYH (Batch 1152344) Volume: 2000.00000 mL <== Derived from 01 (100 ml)
Bottle 09 Prepared Bottle: TG80 2 mL Autosampler Vial (Batch 1152473) Volume: 10.00000 mL <== Derived from 01 (200 ml)
Bottle 10 Prepared Bottle: TG80 2 mL Autosampler Vial (Batch 1152473) Volume: 10.00000 mL <== Derived from 01 (200 ml)
Bottle 11 Prepared Bottle: 2 mL Autosampler Vial (Batch 1152289) Volume: 1.00000 mL <== Derived from 08 (100 ml)
Bottle 12 Prepared Bottle: TCLP Acid Mercury Digestion (Batch 1152484) Volume: 50.00000 mL <== Derived from 07 (2.5 ml)
Bottle 13 Prepared Bottle: TCLP Acid Digestion (Batch 1152545) Volume: 50.00000 mL <== Derived from 07 (10 ml)
Bottle 14 Prepared Bottle: 2 mL Autosampler Vial (Batch 1153004) Volume: 10.00000 mL <== Derived from 08 (1 ml)
Bottle 15 Prepared Bottle: 2 mL Autosampler Vial (Batch 1153004) Volume: 10.00000 mL <== Derived from 08 (1 ml)
Bottle 16 Prepared Bottle: PCBS 2 mL Autosampler Vial (Batch 1153580) Volume: 10.00000 mL <== Derived from 03 (2.0 grams)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 8082	16	1153580	12/26/2024	1153773	12/26/2024
EPA 6010C	13	1152545	12/17/2024	1152729	12/18/2024
EPA 7470 A	12	1152484	12/17/2024	1152719	12/18/2024
EPA 8260B	05	1152336	12/16/2024	1152658	12/17/2024
EPA 8081A	09	1152473	12/17/2024	1153860	12/18/2024
EPA 8270C	11	1152289	12/16/2024	1152968	12/19/2024
EPA 8151	14	1153004	12/19/2024	1153366	12/21/2024
SM2540 G-1997 /MOD	01	1152565	12/16/2024	1152565	12/16/2024

Sample	Sample ID	Taken	Time	Received
2364154	*Sludge LAGUNA VISTA WWPT*	12/10/2024	15:30:00	12/13/2024

Bottle 01 Glass 4 oz w/Teflon lined lid
Bottle 02 Prepared Bottle: ICP Preparation for Metals (Batch 1153570) Volume: 50.00000 mL <== Derived from 01 (3.5 grams)
Bottle 03 Prepared Bottle: ICP Preparation for Metals (Batch 1153570) Volume: 50.00000 mL <== Derived from 01 (3.4 grams)
Bottle 04 Prepared Bottle: ICP Preparation for Metals (Batch 1153570) Volume: 50.00000 mL <== Derived from 01 (3.5 grams)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 6020A	02	1153570	12/26/2024	1154106	12/30/2024
EPA 6020A	02	1153570	12/26/2024	1154494	01/02/2025
SM2540 G-1997 /MOD	01	1152565	12/16/2024	1152565	12/16/2024

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1

SAMPLE CROSS REFERENCE

Project
1128974

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Printed: 01/08/2025

RESULTS

Sample Results

2364149 **ID LAGUNA VISTA WWPT** Received: 12/13/2024

Solid & Chemical Materials | Collected by: FG3 | SPL Kilgore | PO: 23- 13245
Taken: 12/10/2024 15:34:00

EPA 6010C Prepared: 1152545 12/17/2024 11:45:00 Analyzed 1152729 12/18/2024 09:33:00 CAS

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP Arsenic	<0.250	mg/L	0.250		7440-38-2	13
NELAC	TCLP Barium	<0.250	mg/L	0.250		7440-39-3	13
NELAC	TCLP Cadmium	<0.125	mg/L	0.125		7440-43-9	13
NELAC	TCLP Chromium	<0.250	mg/L	0.250		7440-47-3	13
NELAC	TCLP Lead	<0.250	mg/L	0.250		7439-92-1	13
NELAC	TCLP Selenium	<0.250	mg/L	0.250		7782-49-2	13
NELAC	TCLP Silver	<0.050	mg/L	0.050		7440-22-4	13

EPA 7470 A Prepared: 1152484 12/17/2024 10:00:00 Analyzed 1152719 12/18/2024 10:41:00 CAS

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP Mercury	<0.002	mg/L	0.002		7439-97-6	12

EPA 8081A Prepared: 1152473 12/17/2024 10:00:00 Analyzed 1153860 12/18/2024 20:23:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP Chlordane	<0.001	mg/L	0.001		57-74-9	09
NELAC	TCLP Endrin	<0.00005	mg/L	0.00005		72-20-8	09
NELAC	TCLP gamma-BHC (Lindane)	<0.00005	mg/L	0.00005		58-89-9	09
NELAC	TCLP Heptachlor	<0.00005	mg/L	0.00005		76-44-8	09
NELAC	TCLP Heptachlor Epoxide	<0.00005	mg/L	0.00005		1024-57-3	09
NELAC	TCLP Methoxychlor	<0.00005	mg/L	0.00005		72-43-5	09
NELAC	TCLP Toxaphene	<0.001	mg/L	0.001		8001-35-2	09

EPA 8082 Prepared: 1153580 12/26/2024 12:19:02 Analyzed 1153773 12/26/2024 17:39:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	PCB-1016	<1.000 *	mg/kg	1.000		12674-11-2	16
NELAC	PCB-1221	<1.000 *	mg/kg	1.000		11104-28-2	16

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Printed: 01/08/2025

2364149 ID LAGUNA VISTA WWPT — Received: 12/13/2024

Solid & Chemical Materials — Collected by: FG3 — SPL Kilgore — PO: 23- 13245
Taken: 12/10/2024 15:34:00

EPA 8082 — Prepared: 1153580 12/26/2024 12:19:02 — Analyzed 1153773 12/26/2024 17:39:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	PCB-1232	<1.000 *	mg/kg	1.000		11141-16-5	16
NELAC	PCB-1242	<1.000 *	mg/kg	1.000		53469-21-9	16
NELAC	PCB-1248	<1.000 *	mg/kg	1.000		12672-29-6	16
NELAC	PCB-1254	<1.000 *	mg/kg	1.000		11097-69-1	16
NELAC	PCB-1260	<1.000 *	mg/kg	1.000	X	11096-82-5	16
NELAC	PCB-1262	<1.000 *	mg/kg	1.000		37324-23-5	16
NELAC	PCB-1268	<1.000 *	mg/kg	1.000		11100-14-4	16

* Dry Weight Basis

EPA 8151 — Prepared: 1153004 12/19/2024 14:15:41 — Analyzed 1153366 12/21/2024 13:35:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP 2,4 D	<0.500	mg/L	0.500		94-75-7	14
NELAC	TCLP 2,4,5-TP (Silvex)	<0.300	mg/L	0.300		93-72-1	14

EPA 8260B — Prepared: 1152336 12/16/2024 15:11:00 — Analyzed 1152658 12/17/2024 15:47:00 MR1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP 1,1-Dichloroethene	<0.010	mg/L	0.010		75-35-4	05
NELAC	TCLP 1,2-Dichloroethane	<0.010	mg/L	0.010		107-06-2	05
NELAC	TCLP 1,4 Dichlorobenzene	<0.010	mg/L	0.010		106-46-7	05
NELAC	TCLP Benzene	<0.010	mg/L	0.010		71-43-2	05
NELAC	TCLP Carbon tetrachloride	<0.010	mg/L	0.010		56-23-5	05
NELAC	TCLP Chlorobenzene	<0.010	mg/L	0.010		108-90-7	05
NELAC	TCLP Chloroform	<0.010	mg/L	0.010		67-66-3	05
NELAC	TCLP MEK	<0.100	mg/L	0.100	X	78-93-3	05
NELAC	TCLP Tetrachloroethylene	<0.010	mg/L	0.010		127-18-4	05
NELAC	TCLP Trichloroethylene	<0.010	mg/L	0.010		79-01-6	05
NELAC	TCLP Vinyl chloride	<0.0104	mg/L	0.0104	X	75-01-4	05

EPA 8270C — Prepared: 1152289 12/17/2024 09:30:00 — Analyzed 1152968 12/19/2024 00:05:00 PM1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP 2,4,5-Trichlorophenol	<0.010	mg/L	0.010		95-95-4	11
NELAC	TCLP 2,4,6-Trichlorophenol	<0.010	mg/L	0.010		88-06-2	11

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2364149 ID LAGUNA VISTA WWPT

Received: 12/13/2024

Solid & Chemical Materials | Collected by: FG3 | SPL Kilgore | PO: 23- 13245
Taken: 12/10/2024 15:34:00

EPA 8270C Prepared: 1152289 12/17/2024 09:30:00 Analyzed 1152968 12/19/2024 00:05:00 PM1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP 2,4-Dinitrotoluene	<0.035	mg/L	0.035		121-14-2	11
NELAC	TCLP 2-Methylphenol (o-Cresol)	<0.052	mg/L	0.052		95-48-7	11
NELAC	TCLP 3&4-Methylphenol (m&p-Creso	<0.062	mg/L	0.062		108-39-4	11
NELAC	TCLP Hexachlorobenzene	<0.010	mg/L	0.010		118-74-1	11
NELAC	TCLP Hexachlorobutadiene	<0.010	mg/L	0.010	D	87-68-3	11
NELAC	TCLP Hexachloroethane	<0.010	mg/L	0.010	D	67-72-1	11
NELAC	TCLP Nitrobenzene	<0.010	mg/L	0.010		98-95-3	11
NELAC	TCLP Pentachlorophenol	<0.010	mg/L	0.010		87-86-5	11
NELAC	TCLP Pyridine (Reg. Limit 5)	<0.054	mg/L	0.054		110-86-1	11

EPA 8270C Prepared: 1152289 12/17/2024 09:30:00 Calculated 1152968 12/19/2024 14:06:39 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.	11

SM2540 G-1997 /MOD Prepared: 1152565 12/16/2024 16:46:00 Analyzed 1152565 12/16/2024 16:46:00 BEK

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Total Solids for Dry Wt Conversi	5.96	%	0.010			01

2364154 Sludge LAGUNA VISTA WWPT

Received: 12/13/2024

Solid & Chemical Materials | Collected by: FG3 | SPL Kilgore | PO: 23- 13245
Taken: 12/10/2024 15:30:00

EPA 6020A Prepared: 1153570 12/26/2024 12:30:00 Analyzed 1154106 12/30/2024 20:49:00 ESG

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Arsenic, Total	33.7 *	mg/kg	2.10		7440-38-2	02
NELAC	Nickel, Total	18.3 *	mg/kg	1.05		7440-02-0	02

EPA 6020A Prepared: 1153570 12/26/2024 12:30:00 Analyzed 1154494 01/02/2025 19:44:00 ESG

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Chromium, Total	30.1 *	mg/kg	1.05		7440-47-3	02

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2364154 Sludge LAGUNA VISTA WWPT — Received: 12/13/2024

Solid & Chemical Materials — Collected by: FG3 — SPL Kilgore — PO: 23- 13245

Taken: 12/10/2024 15:30:00

* Dry Weight Basis

SM2540 G-1997 /MOD — Prepared: 1152565 12/16/2024 16:46:00 — Analyzed 1152565 12/16/2024 16:46:00 BEK

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Total Solids for Dry Wt Conversi	6.77	%	0.010			01

Sample Preparation

2364149 ID LAGUNA VISTA WWPT — Received: 12/13/2024

23- 13245

12/10/2024

Prepared: 12/13/2024 12:31:37 — Calculated 12/13/2024 12:31:37 CAL

z Environmental Fee (per Sampling — Verified

Prepared: 01/06/2025 16:42:00 — Analyzed 01/06/2025 16:42:00 WJP

z Check Limits — Completed

Calculation — Prepared: 12/30/2024 09:48:50 — Calculated 12/30/2024 09:48:50 CAL

As Received to Dry Weight Basis — Calculated

EPA 1311 — Prepared: 1152344 12/16/2024 15:11:00 — Analyzed 1152344 12/16/2024 15:11:00 KN1

NELAC TCLP Extraction Non-Volatile — SOLID EXT 1 — ml — 01

EPA 1311ZHE — Prepared: 1152336 12/16/2024 15:11:00 — Analyzed 1152336 12/16/2024 15:11:00 KN1

NELAC TCLP Extraction ZHE Volatiles — 100% SOLID — ml — 01

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2364149 ID LAGUNA VISTA WWPT

Received: 12/13/2024

23- 13245

12/10/2024

	EPA 3005A	*Prepared:*	*1152344*	*12/16/2024*	*15:11:00*	*Analyzed*	*1152545*	*12/17/2024*	*11:45:00*	*TES*
z	**Metals Digestion TCLP Extract**	**50/10**	**ml**							07
	EPA 3510C	*Prepared:*	*1152344*	*12/16/2024*	*15:11:00*	*Analyzed*	*1152289*	*12/17/2024*	*09:30:00*	*CRS*
	TCLP Liquid-Liquid Extract	**1/100**	**ml**							08
	EPA 3510C	*Prepared:*	*1152473*	*12/17/2024*	*10:00:00*	*Analyzed*	*1152473*	*12/17/2024*	*10:00:00*	*CRS*
	TCLP Liq-Liq Extr. W/Hex Exch.	**10/200**	**ml**							01
	EPA 3550B	*Prepared:*	*1153580*	*12/26/2024*	*12:19:02*	*Analyzed*	*1153580*	*12/26/2024*	*12:19:02*	*PEV*
NELAC	**PCB Total Sonic Extr. W/Hex Exch**	**10/2.02**	**grams**							03
	EPA 7470A	*Prepared:*	*1152344*	*12/16/2024*	*15:11:00*	*Analyzed*	*1152484*	*12/17/2024*	*10:00:00*	*ALB*
NELAC	**Metals Digestion TCLP 7470**	**50/2.5**	**ml**							07
	EPA 8081A	*Prepared:*	*1152473*	*12/17/2024*	*10:00:00*	*Analyzed*	*1153860*	*12/18/2024*	*20:23:00*	*KAP*
NELAC	**GC TCLP Pesticide**	**Entered**								09
	EPA 8082	*Prepared:*	*1153580*	*12/26/2024*	*12:19:02*	*Analyzed*	*1153773*	*12/26/2024*	*17:39:00*	*KAP*
NELAC	**Polychlorinated Biphenyls**	**Entered**								16
	EPA 8151	*Prepared:*	*1153004*	*12/19/2024*	*14:15:41*	*Analyzed*	*1153366*	*12/21/2024*	*13:35:00*	*KAP*

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2364149 ID LAGUNA VISTA WWPT — Received: 12/13/2024

23- 13245

12/10/2024

EPA 8151	*Prepared:*	*1153004*	*12/19/2024*	*14:15:41*	*Analyzed*	*1153366*	*12/21/2024*	*13:35:00*	*KAP*
NELAC **GC TCLP Herbicide**	**Entered**								14
EPA 8151A (Prep)	*Prepared:*	*1152344*	*12/16/2024*	*15:11:00*	*Analyzed*	*1153004*	*12/19/2024*	*14:15:41*	*CRS*
NELAC **Esterification of TCLP Extract**	**10/1**	**ml**							08
EPA 8260B	*Prepared:*	*1152336*	*12/16/2024*	*15:11:00*	*Analyzed*	*1152658*	*12/17/2024*	*15:47:00*	*MR1*
NELAC **MS TCLP Volatile Analysis**	**Entered**								05
EPA 8270C	*Prepared:*	*1152289*	*12/17/2024*	*09:30:00*	*Analyzed*	*1152968*	*12/19/2024*	*00:05:00*	*PM1*
NELAC **MS TCLP Semivolatile Analysis**	**Entered**								11
SM 2540 G-1997	*Prepared:*	*1152349*	*12/16/2024*	*16:46:00*	*Analyzed*	*1152349*	*12/16/2024*	*16:46:00*	*BEK*
NELAC **Total Solids Start Code**	**Started**								

2364154 Sludge LAGUNA VISTA WWPT — Received: 12/13/2024

23- 13245

12/10/2024

	Prepared:		*12/13/2024*	*12:31:37*	*Calculated*		*12/13/2024*	*12:31:37*	*CAL*
Sampling/Transport	**Verified**								

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2364154 **Sludge LAGUNA VISTA WWPT**

Received: 12/13/2024

23- 13245

12/10/2024

Calculation		*Prepared:*		*01/06/2025*	*15:48:38*	*Calculated*		*01/06/2025*	*15:48:38*	*CAL*
	As Received to Dry Weight Basis	**Calculated**								
EPA 3050B		*Prepared:*	*1153570*	*12/26/2024*	*12:30:00*	*Analyzed*	*1153570*	*12/26/2024*	*12:30:00*	*TES*
NELAC	**Solid/Sludge/Soil/Sediment Metal**	**50/3.53**		**grams**						01
SM 2540 G-1997		*Prepared:*	*1152349*	*12/16/2024*	*16:46:00*	*Analyzed*	*1152349*	*12/16/2024*	*16:46:00*	*BEK*
NELAC	**Total Solids Start Code**	**Started**								

Qualifiers:

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.

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Bill Peery, MS, VP Technical Services

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Printed 01/08/2025

Analytical Set 1152565 — SM2540 G-1997 /MOD

ControlBlk

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Total Solids for Dry Wt Conversi	1152565	0.0001			grams	127135169

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Total Solids for Dry Wt Conversi	2364149	5.89	5.96	%	1.18	20.0
Total Solids for Dry Wt Conversi	2364300	81.9	81.5	%	0.490	20.0
Total Solids for Dry Wt Conversi	2364448	99.9	99.9	%	0	20.0

Analytical Set 1152719 — EPA 7470 A

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP Mercury	1152484	ND	0.000113	0.0002	mg/L	127138991

CCB

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP Mercury	1152484	ND	0.000113	0.0002	mg/L	127138985
TCLP Mercury	1152484	ND	0.000113	0.0002	mg/L	127138987
TCLP Mercury	1152484	ND	0.000113	0.0002	mg/L	127138989

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Mercury	0.00489	0.005	mg/L	97.8	90.0 - 110	127138986
TCLP Mercury	0.0048	0.005	mg/L	96.0	90.0 - 110	127138988
TCLP Mercury	0.00464	0.005	mg/L	92.8	90.0 - 110	127138990
TCLP Mercury	0.00472	0.005	mg/L	94.4	90.0 - 110	127138999
TCLP Mercury	0.00498	0.005	mg/L	99.6	90.0 - 110	127139003
TCLP Mercury	0.00536	0.005	mg/L	107	90.0 - 110	127139007

ICL

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Mercury	0.0186	0.02	mg/L	93.0	90.0 - 110	127138984

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Mercury	0.00484	0.005	mg/L	96.8	90.0 - 110	127138983

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
TCLP Mercury	1152484	0.00867	0.00875	0.010	85.1 - 117	86.7	87.5	mg/L	0.918	20.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
TCLP Mercury	2363411	0.0766	0.0774	ND	0.100	80.9 - 121	76.6 *	77.4 *	mg/L	1.04	20.0
TCLP Mercury	2364450	0.0692	0.0458	ND	0.100	80.9 - 121	69.2 *	45.8 *	mg/L	40.7 *	20.0

Analytical Set 1152729 — EPA 6010C

QUALITY CONTROL

CAM5-R

Laguna Madre Water District
Mark A. Garza
105 Port Rd.
Port Isabel, TX 78578-

Project
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Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
TCLP Arsenic	1152545	ND	0.0149	0.050	mg/L	127139349
TCLP Barium	1152545	ND	0.00102	0.050	mg/L	127139349
TCLP Cadmium	1152545	ND	0.0014	0.025	mg/L	127139349
TCLP Chromium	1152545	ND	0.00175	0.050	mg/L	127139349
TCLP Lead	1152545	ND	0.0146	0.050	mg/L	127139349
TCLP Selenium	1152545	ND	0.0282	0.050	mg/L	127139349
TCLP Silver	1152545	ND	0.00208	0.010	mg/L	127139349

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
TCLP Arsenic	2.46	2.50	mg/L	98.4	90.0 - 110	127139341
TCLP Arsenic	2.45	2.50	mg/L	98.0	90.0 - 110	127139348
TCLP Arsenic	2.47	2.50	mg/L	98.8	90.0 - 110	127139355
TCLP Arsenic	2.48	2.50	mg/L	99.2	90.0 - 110	127139362
TCLP Arsenic	2.44	2.50	mg/L	97.6	90.0 - 110	127139370
TCLP Barium	2.47	2.50	mg/L	98.8	90.0 - 110	127139341
TCLP Barium	2.46	2.50	mg/L	98.4	90.0 - 110	127139348
TCLP Barium	2.47	2.50	mg/L	98.8	90.0 - 110	127139355
TCLP Barium	2.47	2.50	mg/L	98.8	90.0 - 110	127139362
TCLP Barium	2.44	2.50	mg/L	97.6	90.0 - 110	127139370
TCLP Cadmium	1.23	1.25	mg/L	98.4	90.0 - 110	127139341
TCLP Cadmium	1.23	1.25	mg/L	98.4	90.0 - 110	127139348
TCLP Cadmium	1.24	1.25	mg/L	99.2	90.0 - 110	127139355
TCLP Cadmium	1.24	1.25	mg/L	99.2	90.0 - 110	127139362
TCLP Cadmium	1.24	1.25	mg/L	99.2	90.0 - 110	127139370
TCLP Chromium	2.42	2.50	mg/L	96.8	90.0 - 110	127139341
TCLP Chromium	2.41	2.50	mg/L	96.4	90.0 - 110	127139348
TCLP Chromium	2.41	2.50	mg/L	96.4	90.0 - 110	127139355
TCLP Chromium	2.41	2.50	mg/L	96.4	90.0 - 110	127139362
TCLP Chromium	2.38	2.50	mg/L	95.2	90.0 - 110	127139370
TCLP Lead	2.47	2.50	mg/L	98.8	90.0 - 110	127139341
TCLP Lead	2.48	2.50	mg/L	99.2	90.0 - 110	127139348
TCLP Lead	2.49	2.50	mg/L	99.6	90.0 - 110	127139355
TCLP Lead	2.48	2.50	mg/L	99.2	90.0 - 110	127139362
TCLP Lead	2.49	2.50	mg/L	99.6	90.0 - 110	127139370
TCLP Selenium	2.44	2.50	mg/L	97.6	90.0 - 110	127139341
TCLP Selenium	2.44	2.50	mg/L	97.6	90.0 - 110	127139348
TCLP Selenium	2.43	2.50	mg/L	97.2	90.0 - 110	127139355
TCLP Selenium	2.42	2.50	mg/L	96.8	90.0 - 110	127139362
TCLP Selenium	2.43	2.50	mg/L	97.2	90.0 - 110	127139370
TCLP Silver	0.507	0.500	mg/L	101	90.0 - 110	127139341
TCLP Silver	0.504	0.500	mg/L	101	90.0 - 110	127139348
TCLP Silver	0.505	0.500	mg/L	101	90.0 - 110	127139355
TCLP Silver	0.507	0.500	mg/L	101	90.0 - 110	127139362
TCLP Silver	0.490	0.500	mg/L	98.0	90.0 - 110	127139370

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QUALITY CONTROL

CAM5-R

Laguna Madre Water District
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ICL

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
TCLP Arsenic	5.00	5.00	mg/L	100	95.0 - 105	127139335
TCLP Barium	5.03	5.00	mg/L	101	95.0 - 105	127139335
TCLP Cadmium	2.50	2.50	mg/L	100	95.0 - 105	127139335
TCLP Chromium	4.89	5.00	mg/L	97.8	95.0 - 105	127139335
TCLP Lead	5.06	5.00	mg/L	101	95.0 - 105	127139335
TCLP Selenium	4.97	5.00	mg/L	99.4	95.0 - 105	127139335
TCLP Silver	0.984	1.00	mg/L	98.4	95.0 - 105	127139335

ICV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
TCLP Arsenic	2.53	2.50	mg/L	101	90.0 - 110	127139339
TCLP Barium	2.58	2.50	mg/L	103	90.0 - 110	127139339
TCLP Cadmium	1.28	1.25	mg/L	102	90.0 - 110	127139339
TCLP Chromium	2.54	2.50	mg/L	102	90.0 - 110	127139339
TCLP Lead	2.57	2.50	mg/L	103	90.0 - 110	127139339
TCLP Selenium	2.54	2.50	mg/L	102	90.0 - 110	127139339
TCLP Silver	0.526	0.500	mg/L	105	90.0 - 110	127139339

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
TCLP Arsenic	1152545	0.503	0.506	0.500	87.8 - 119	101	101	mg/L	0.595	30.0
TCLP Barium	1152545	0.462	0.468	0.500	86.1 - 118	92.4	93.6	mg/L	1.29	30.0
TCLP Cadmium	1152545	0.238	0.241	0.250	85.7 - 117	95.2	96.4	mg/L	1.25	30.0
TCLP Chromium	1152545	0.484	0.482	0.500	93.8 - 121	96.8	96.4	mg/L	0.414	30.0
TCLP Lead	1152545	0.477	0.483	0.500	85.0 - 123	95.4	96.6	mg/L	1.25	30.0
TCLP Selenium	1152545	0.509	0.495	0.500	81.8 - 123	102	99.0	mg/L	2.79	30.0
TCLP Silver	1152545	0.0996	0.101	0.100	80.4 - 123	99.6	101	mg/L	1.40	30.0

MSD

Parameter	*Sample*	*MS*	*MSD*	*UNK*	*Known*	*Limits*	*MS%*	*MSD%*	*Units*	*RPD*	*Limit%*
TCLP Arsenic	2363411	2.46	2.54	ND	2.50	73.8 - 133	98.4	102	mg/L	3.20	30.0
TCLP Barium	2363411	3.38	3.42	0.936	2.50	73.3 - 125	97.8	99.4	mg/L	1.62	30.0
TCLP Cadmium	2363411	1.33	1.34	0.129	1.25	47.5 - 140	96.1	96.9	mg/L	0.829	30.0
TCLP Chromium	2363411	2.33	2.33	ND	2.50	83.9 - 121	93.2	93.2	mg/L	0	30.0
TCLP Lead	2363411	2.57	2.58	0.171	2.50	71.8 - 120	96.0	96.4	mg/L	0.416	30.0
TCLP Selenium	2363411	2.28	2.34	ND	2.50	59.3 - 142	91.2	93.6	mg/L	2.60	30.0
TCLP Silver	2363411	0.501	0.497	ND	0.500	72.3 - 126	100	99.4	mg/L	0.802	30.0
TCLP Arsenic	2364300	2.52	2.44	0.016	2.50	73.8 - 133	100	97.0	mg/L	3.25	30.0
TCLP Barium	2364300	3.51	3.41	0.245	2.50	73.3 - 125	131 *	127 *	mg/L	3.11	30.0
TCLP Cadmium	2364300	1.17	1.18	ND	1.25	47.5 - 140	93.6	94.4	mg/L	0.851	30.0
TCLP Chromium	2364300	2.36	2.34	ND	2.50	83.9 - 121	94.4	93.6	mg/L	0.851	30.0
TCLP Lead	2364300	3.12	3.01	0.163	2.50	71.8 - 120	118	114	mg/L	3.79	30.0
TCLP Selenium	2364300	2.40	2.47	ND	2.50	59.3 - 142	96.0	98.8	mg/L	2.87	30.0
TCLP Silver	2364300	0.494	0.498	ND	0.500	72.3 - 126	98.8	99.6	mg/L	0.806	30.0

Analytical Set 1154106 EPA 6020A

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CAM5-R

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Parameter	PrepSet	Reading	MDL	MQL	Units	File
Arsenic, Total	1153570	ND	0.000492	0.002	mg/kg	127168142
Nickel, Total	1153570	0.000424	0.000336	0.001	mg/kg	127168142

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Arsenic, Total	0.053	0.05	mg/kg	106	90.0 - 110	127168102
Arsenic, Total	0.0512	0.05	mg/kg	102	90.0 - 110	127168130
Arsenic, Total	0.0511	0.05	mg/kg	102	90.0 - 110	127168138
Arsenic, Total	0.0518	0.05	mg/kg	104	90.0 - 110	127168149
Arsenic, Total	0.0512	0.05	mg/kg	102	90.0 - 110	127168155
Nickel, Total	0.0515	0.05	mg/kg	103	90.0 - 110	127168102
Nickel, Total	0.0475	0.05	mg/kg	95.0	90.0 - 110	127168138
Nickel, Total	0.0463	0.05	mg/kg	92.6	90.0 - 110	127168149
Nickel, Total	0.0462	0.05	mg/kg	92.4	90.0 - 110	127168155

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Arsenic, Total	0.0507	0.05	mg/kg	101	90.0 - 110	127168095
Nickel, Total	0.0499	0.05	mg/kg	99.8	90.0 - 110	127168095

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Arsenic, Total	1153570	2.29	2.60	2.50	80.0 - 120	91.6	104	mg/kg	12.7	20.0
Nickel, Total	1153570	2.04	2.27	2.50	80.0 - 120	81.6	90.8	mg/kg	10.7	20.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Arsenic, Total	2364154	38.0	37.7	2.28	35.7	67.5 - 123	96.8	96.0	mg/kg	0.843	20.0
Nickel, Total	2364154	32.4	31.9	1.24	35.7	76.5 - 121	84.4	83.1	mg/kg	1.62	20.0
Arsenic, Total	2365199	37.4	34.3	0.840	36.8	67.5 - 123	94.5	86.5	mg/kg	8.85	20.0
Nickel, Total	2365199	34.8	32.8	2.84	36.8	76.5 - 121	82.6	77.4	mg/kg	6.46	20.0

Analytical Set 1154494 EPA 6020A

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Chromium, Total	1153570	ND	0.000409	0.001	mg/kg	127176794

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Chromium, Total	0.0497	0.05	mg/kg	99.4	90.0 - 110	127176772
Chromium, Total	0.0509	0.05	mg/kg	102	90.0 - 110	127176797
Chromium, Total	0.0519	0.05	mg/kg	104	90.0 - 110	127176804

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Chromium, Total	0.0504	0.05	mg/kg	101	90.0 - 110	127176767

CAM5-R

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LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Chromium, Total	1153570	2.41	2.55	2.50	80.0 - 120	96.4	102	mg/kg	5.65	20.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Chromium, Total	2364154	42.8	38.1	2.04	35.7	80.1 - 122	110	97.7	mg/kg	12.2	20.0
Chromium, Total	2365199	49.7	46.0	5.44	36.8	80.1 - 122	114	105	mg/kg	8.72	20.0

Analytical Set 1152658 — EPA 8260B

BFB

Parameter	Sample	RefMass	Reading	%	Limits%	File
BFB Mass 173	1152658	174	115	0.8	0 - 2.00	127137541
BFB Mass 174	1152658	95.0	13752	54.3	50.0 - 100	127137541
BFB Mass 175	1152658	174	1062	7.7	5.00 - 9.00	127137541
BFB Mass 176	1152658	174	13293	96.7	95.0 - 101	127137541
BFB Mass 177	1152658	176	917	6.9	5.00 - 9.00	127137541
BFB Mass 50	1152658	95.0	4375	17.3	15.0 - 40.0	127137541
BFB Mass 75	1152658	95.0	12644	49.9	30.0 - 60.0	127137541
BFB Mass 95	1152658	95.0	25349	100.0	100 - 100	127137541
BFB Mass 96	1152658	95.0	1679	6.6	5.00 - 9.00	127137541

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP 1,1-Dichloroethene	1152658	ND	0.000812	0.001	mg/L	127137545
TCLP 1,1-Dichloroethene	1152658	ND	0.000812	0.001	mg/L	127137546
TCLP 1,2-Dichloroethane	1152658	ND	0.000856	0.001	mg/L	127137545
TCLP 1,2-Dichloroethane	1152658	ND	0.000856	0.001	mg/L	127137546
TCLP 1,4 Dichlorobenzene	1152658	ND	0.000865	0.001	mg/L	127137545
TCLP 1,4 Dichlorobenzene	1152658	ND	0.000865	0.001	mg/L	127137546
TCLP Benzene	1152658	ND	0.000813	0.001	mg/L	127137545
TCLP Benzene	1152658	ND	0.000813	0.001	mg/L	127137546
TCLP Carbon tetrachloride	1152658	ND	0.000825	0.001	mg/L	127137545
TCLP Carbon tetrachloride	1152658	ND	0.000825	0.001	mg/L	127137546
TCLP Chlorobenzene	1152658	ND	0.000945	0.001	mg/L	127137545
TCLP Chlorobenzene	1152658	ND	0.000945	0.001	mg/L	127137546
TCLP Chloroform	1152658	ND	0.000945	0.001	mg/L	127137545
TCLP Chloroform	1152658	ND	0.000945	0.001	mg/L	127137546
TCLP MEK	1152658	ND	0.00654	0.010	mg/L	127137545
TCLP MEK	1152658	ND	0.00654	0.010	mg/L	127137546
TCLP Tetrachloroethylene	1152658	ND	0.000921	0.001	mg/L	127137545
TCLP Tetrachloroethylene	1152658	ND	0.000921	0.001	mg/L	127137546
TCLP Trichloroethylene	1152658	ND	0.000789	0.001	mg/L	127137545
TCLP Trichloroethylene	1152658	ND	0.000789	0.001	mg/L	127137546
TCLP Vinyl chloride	1152658	ND	0.00104	0.00104	mg/L	127137545
TCLP Vinyl chloride	1152658	ND	0.00104	0.00104	mg/L	127137546

QUALITY CONTROL

CAM5-R

Laguna Madre Water District
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CCV

Parameter	Reading	Known	Units	Recover%	Limits%		File
TCLP 1,1-Dichloroethene	0.0212	0.020	mg/L	106	70.0 - 130		127137542
TCLP 1,2-Dichloroethane	0.023	0.020	mg/L	115	70.0 - 130		127137542
TCLP 1,4 Dichlorobenzene	0.0213	0.020	mg/L	106	70.0 - 130		127137542
TCLP Benzene	0.0229	0.020	mg/L	114	70.0 - 130		127137542
TCLP Carbon tetrachloride	0.0218	0.020	mg/L	109	70.0 - 130		127137542
TCLP Chlorobenzene	0.0224	0.020	mg/L	112	70.0 - 130		127137542
TCLP Chloroform	0.0224	0.020	mg/L	112	70.0 - 130		127137542
TCLP MEK	0.0263	0.020	mg/L	132	70.0 - 130	*	127137542
TCLP Tetrachloroethylene	0.0231	0.020	mg/L	116	70.0 - 130		127137542
TCLP Trichloroethylene	0.0221	0.020	mg/L	110	70.0 - 130		127137542
TCLP Vinyl chloride	0.0315	0.020	mg/L	158	70.0 - 130	*	127137542

IS Areas

Parameter	Sample	Type	Reading	CCVISM	Low	High		File	PrepSet
1,4-DichlorobenzeneD4 (ISTD)	1152658	CCV	91620	91620	64130	119100		127137542	1152658
1,4-DichlorobenzeneD4 (ISTD)	1152658	LCS	99490	91620	64130	119100		127137543	1152658
1,4-DichlorobenzeneD4 (ISTD)	1152658	LCS Dup	96800	91620	64130	119100		127137544	1152658
1,4-DichlorobenzeneD4 (ISTD)	1152658	Blank	81410	91620	64130	119100		127137545	1152658
1,4-DichlorobenzeneD4 (ISTD)	1152658	Blank	87860	91620	64130	119100		127137546	1152658
ChlorobenzeneD5 (ISTD)	1152658	CCV	192500	192500	134800	250300		127137542	1152658
ChlorobenzeneD5 (ISTD)	1152658	LCS	215300	192500	134800	250300		127137543	1152658
ChlorobenzeneD5 (ISTD)	1152658	LCS Dup	209800	192500	134800	250300		127137544	1152658
ChlorobenzeneD5 (ISTD)	1152658	Blank	194400	192500	134800	250300		127137545	1152658
ChlorobenzeneD5 (ISTD)	1152658	Blank	211100	192500	134800	250300		127137546	1152658
1,4-DichlorobenzeneD4 (ISTD)	2364149	MS	99630	91620	64130	119100		127137551	1152336
1,4-DichlorobenzeneD4 (ISTD)	2364149	MSD	97180	91620	64130	119100		127137552	1152336
ChlorobenzeneD5 (ISTD)	2364149	MS	209900	192500	134800	250300		127137551	1152336
ChlorobenzeneD5 (ISTD)	2364149	MSD	208900	192500	134800	250300		127137552	1152336

IS RetTime

Parameter	Sample	Type	Reading	CCVISM	Low	High		File	PrepSet
1,4-DichlorobenzeneD4 (ISTD)	1152658	LCS	11.07	11.07	11.01	11.13		127137543	1152658
1,4-DichlorobenzeneD4 (ISTD)	1152658	LCS Dup	11.07	11.07	11.01	11.13		127137544	1152658
1,4-DichlorobenzeneD4 (ISTD)	1152658	Blank	11.07	11.07	11.01	11.13		127137545	1152658
1,4-DichlorobenzeneD4 (ISTD)	1152658	Blank	11.07	11.07	11.01	11.13		127137546	1152658
ChlorobenzeneD5 (ISTD)	1152658	LCS	8.714	8.714	8.654	8.774		127137543	1152658
ChlorobenzeneD5 (ISTD)	1152658	LCS Dup	8.714	8.714	8.654	8.774		127137544	1152658
ChlorobenzeneD5 (ISTD)	1152658	Blank	8.714	8.714	8.654	8.774		127137545	1152658
ChlorobenzeneD5 (ISTD)	1152658	Blank	8.714	8.714	8.654	8.774		127137546	1152658
1,4-DichlorobenzeneD4 (ISTD)	2364149	MS	11.07	11.07	11.01	11.13		127137551	1152336
1,4-DichlorobenzeneD4 (ISTD)	2364149	MSD	11.07	11.07	11.01	11.13		127137552	1152336
ChlorobenzeneD5 (ISTD)	2364149	MS	8.714	8.714	8.654	8.774		127137551	1152336
ChlorobenzeneD5 (ISTD)	2364149	MSD	8.714	8.714	8.654	8.774		127137552	1152336

LCS Dup

Parameter	PrepSet	LCS	LCSD		Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%

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QUALITY CONTROL

CAM5-R

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LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
TCLP 1,1-Dichloroethene	1152658	0.0179	0.0185	0.020	56.7 - 135	89.5	92.5	mg/L	3.30	30.0
TCLP 1,2-Dichloroethane	1152658	0.0187	0.0196	0.020	69.8 - 132	93.5	98.0	mg/L	4.70	30.0
TCLP 1,4 Dichlorobenzene	1152658	0.017	0.0182	0.020	74.8 - 116	85.0	91.0	mg/L	6.82	30.0
TCLP Benzene	1152658	0.0195	0.0204	0.020	67.1 - 123	97.5	102	mg/L	4.51	30.0
TCLP Carbon tetrachloride	1152658	0.0178	0.0189	0.020	60.1 - 132	89.0	94.5	mg/L	5.99	30.0
TCLP Chlorobenzene	1152658	0.018	0.019	0.020	74.0 - 115	90.0	95.0	mg/L	5.41	30.0
TCLP Chloroform	1152658	0.0187	0.0193	0.020	71.1 - 128	93.5	96.5	mg/L	3.16	30.0
TCLP MEK	1152658	0.0224	0.0223	0.020	40.7 - 166	112	112	mg/L	0	30.0
TCLP Tetrachloroethylene	1152658	0.0186	0.0202	0.020	71.2 - 126	93.0	101	mg/L	8.25	30.0
TCLP Trichloroethylene	1152658	0.018	0.0192	0.020	71.4 - 126	90.0	96.0	mg/L	6.45	30.0
TCLP Vinyl chloride	1152658	0.018	0.017	0.020	18.5 - 155	90.0	85.0	mg/L	5.71	30.0

MSD

Parameter	*Sample*	*MS*	*MSD*	*UNK*	*Known*	*Limits*	*MS%*	*MSD%*	*Units*	*RPD*	*Limit%*
TCLP 1,1-Dichloroethene	2364149	0.176	0.174	0.0085	0.200	0.100 - 168	83.8	82.8	mg/L	1.20	30.0
TCLP 1,2-Dichloroethane	2364149	0.176	0.179	0.0085	0.200	48.4 - 134	83.8	85.2	mg/L	1.78	30.0
TCLP 1,4 Dichlorobenzene	2364149	0.165	0.170	0.0085	0.200	45.4 - 121	78.2	80.8	mg/L	3.14	30.0
TCLP Benzene	2364149	0.187	0.190	0.0085	0.200	5.00 - 119	89.2	90.8	mg/L	1.67	30.0
TCLP Carbon tetrachloride	2364149	0.172	0.175	0.0085	0.200	0.100 - 164	81.8	83.2	mg/L	1.82	30.0
TCLP Chlorobenzene	2364149	0.176	0.179	0.0085	0.200	32.5 - 130	83.8	85.2	mg/L	1.78	30.0
TCLP Chloroform	2364149	0.179	0.182	0.0085	0.200	22.1 - 141	85.2	86.8	mg/L	1.74	30.0
TCLP MEK	2364149	0.193	0.187	0.0085	0.200	9.88 - 197	92.2	89.2	mg/L	3.31	30.0
TCLP Tetrachloroethylene	2364149	0.186	0.184	0.0085	0.200	0.100 - 157	88.8	87.8	mg/L	1.13	30.0
TCLP Trichloroethylene	2364149	0.172	0.178	0.0085	0.200	0.100 - 161	81.8	84.8	mg/L	3.60	30.0
TCLP Vinyl chloride	2364149	0.258	0.262	0.0085	0.200	0.100 - 197	125	127	mg/L	1.59	30.0

Surrogate

Parameter	*Sample*	*Type*	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
1,2-DCA-d4 (SURR)	1152658	CCV	0.0188	0.020	mg/L	94.0	74.2 - 132	127137542
1,2-DCA-d4 (SURR)	1152658	LCS	0.0187	0.020	mg/L	93.5	74.2 - 132	127137543
1,2-DCA-d4 (SURR)	1152658	LCS Dup	0.0191	0.020	mg/L	95.5	74.2 - 132	127137544
1,2-DCA-d4 (SURR)	1152658	Blank	0.0189	0.020	mg/L	94.5	74.2 - 132	127137545
1,2-DCA-d4 (SURR)	1152658	Blank	0.0193	0.020	mg/L	96.5	74.2 - 132	127137546
Bromofluorobenzene (SURR)	1152658	CCV	0.0195	0.020	mg/L	97.5	77.2 - 134	127137542
Bromofluorobenzene (SURR)	1152658	LCS	0.0196	0.020	mg/L	98.0	77.2 - 134	127137543
Bromofluorobenzene (SURR)	1152658	LCS Dup	0.0198	0.020	mg/L	99.0	77.2 - 134	127137544
Bromofluorobenzene (SURR)	1152658	Blank	0.0183	0.020	mg/L	91.5	77.2 - 134	127137545
Bromofluorobenzene (SURR)	1152658	Blank	0.0185	0.020	mg/L	92.5	77.2 - 134	127137546
Dibromofluoromethane (SURR)	1152658	CCV	0.0186	0.020	mg/L	93.0	67.2 - 122	127137542
Dibromofluoromethane (SURR)	1152658	LCS	0.0184	0.020	mg/L	92.0	67.2 - 122	127137543
Dibromofluoromethane (SURR)	1152658	LCS Dup	0.0186	0.020	mg/L	93.0	67.2 - 122	127137544
Dibromofluoromethane (SURR)	1152658	Blank	0.0185	0.020	mg/L	92.5	67.2 - 122	127137545
Dibromofluoromethane (SURR)	1152658	Blank	0.0182	0.020	mg/L	91.0	67.2 - 122	127137546
TolueneD8 (SURR)	1152658	CCV	0.0191	0.020	mg/L	95.5	69.2 - 122	127137542
TolueneD8 (SURR)	1152658	LCS	0.019	0.020	mg/L	95.0	69.2 - 122	127137543

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CAM5-R

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Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
ToluneneD8 (SURR)	1152658	LCS Dup	0.0192	0.020	mg/L	96.0	69.2 - 122	127137544
ToluneneD8 (SURR)	1152658	Blank	0.0185	0.020	mg/L	92.5	69.2 - 122	127137545
ToluneneD8 (SURR)	1152658	Blank	0.0187	0.020	mg/L	93.5	69.2 - 122	127137546
1,2-DCA-d4 (SURR)	2364149	Unknown	0.0193	0.020	mg/L	96.5	74.2 - 132	127137549
1,2-DCA-d4 (SURR)	2364149	MS	0.019	0.020	mg/L	95.0	74.2 - 132	127137551
1,2-DCA-d4 (SURR)	2364149	MSD	0.0187	0.020	mg/L	93.5	74.2 - 132	127137552
Bromofluorobenzene (SURR)	2364149	Unknown	0.0182	0.020	mg/L	91.0	77.2 - 134	127137549
Bromofluorobenzene (SURR)	2364149	MS	0.0203	0.020	mg/L	102	77.2 - 134	127137551
Bromofluorobenzene (SURR)	2364149	MSD	0.0195	0.020	mg/L	97.5	77.2 - 134	127137552
Dibromofluoromethane (SURR)	2364149	Unknown	0.0191	0.020	mg/L	95.5	67.2 - 122	127137549
Dibromofluoromethane (SURR)	2364149	MS	0.0183	0.020	mg/L	91.5	67.2 - 122	127137551
Dibromofluoromethane (SURR)	2364149	MSD	0.0186	0.020	mg/L	93.0	67.2 - 122	127137552
ToluneneD8 (SURR)	2364149	Unknown	0.0184	0.020	mg/L	92.0	69.2 - 122	127137549
ToluneneD8 (SURR)	2364149	MS	0.0193	0.020	mg/L	96.5	69.2 - 122	127137551
ToluneneD8 (SURR)	2364149	MSD	0.0192	0.020	mg/L	96.0	69.2 - 122	127137552

Analytical Set 1152968 — EPA 8270C

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP 2,4,5-Trichlorophenol	1152289	ND	0.000734	0.001	mg/L	127144055
TCLP 2,4,6-Trichlorophenol	1152289	ND	0.000704	0.001	mg/L	127144055
TCLP 2,4-Dinitrotoluene	1152289	ND	0.00335	0.0035	mg/L	127144055
TCLP 2-Methylphenol (o-Cresol)	1152289	ND	0.00513	0.0052	mg/L	127144055
TCLP 3&4-Methylphenol (m&p-Creso	1152289	ND	0.00615	0.0062	mg/L	127144055
TCLP Hexachlorobenzene	1152289	ND	0.000187	0.001	mg/L	127144055
TCLP Hexachlorobutadiene	1152289	ND	0.000618	0.001	mg/L	127144055
TCLP Hexachloroethane	1152289	ND	0.000789	0.001	mg/L	127144055
TCLP Nitrobenzene	1152289	ND	0.00039	0.001	mg/L	127144055
TCLP Pentachlorophenol	1152289	0.001	0.000129	0.001	mg/L	127144055
TCLP Pyridine (Reg. Limit 5)	1152289	ND	0.00533	0.0054	mg/L	127144055
TCLP 2,4,5-Trichlorophenol	1152344	ND	0.000734	0.001	mg/L	127144059
TCLP 2,4,6-Trichlorophenol	1152344	ND	0.000704	0.001	mg/L	127144059
TCLP 2,4-Dinitrotoluene	1152344	ND	0.00335	0.0035	mg/L	127144059
TCLP 2-Methylphenol (o-Cresol)	1152344	ND	0.00513	0.0052	mg/L	127144059
TCLP 3&4-Methylphenol (m&p-Creso	1152344	ND	0.00615	0.0062	mg/L	127144059
TCLP Hexachlorobenzene	1152344	ND	0.000187	0.001	mg/L	127144059
TCLP Hexachlorobutadiene	1152344	ND	0.000618	0.001	mg/L	127144059
TCLP Hexachloroethane	1152344	ND	0.000789	0.001	mg/L	127144059
TCLP Nitrobenzene	1152344	ND	0.00039	0.001	mg/L	127144059
TCLP Pentachlorophenol	1152344	ND	0.000129	0.001	mg/L	127144059
TCLP Pyridine (Reg. Limit 5)	1152344	ND	0.00533	0.0054	mg/L	127144059

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP 2,4,5-Trichlorophenol	49.9	50.0	mg/L	99.8	70.0 - 130	127144054

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CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP 2,4,6-Trichlorophenol	52.5	50.0	mg/L	105	70.0 - 130	127144054
TCLP 2,4-Dinitrotoluene	43.1	50.0	mg/L	86.2	70.0 - 130	127144054
TCLP 2-Methylphenol (o-Cresol)	47.9	50.0	mg/L	95.8	70.0 - 130	127144054
TCLP 3&4-Methylphenol (m&p-Creso	46.9	50.0	mg/L	93.9	70.0 - 130	127144054
TCLP Hexachlorobenzene	61.7	50.0	mg/L	123	70.0 - 130	127144054
TCLP Hexachlorobutadiene	57.1	50.0	mg/L	114	70.0 - 130	127144054
TCLP Hexachloroethane	54.7	50.0	mg/L	109	70.0 - 130	127144054
TCLP Nitrobenzene	50.3	50.0	mg/L	101	70.0 - 130	127144054
TCLP Pentachlorophenol	47.4	50.0	mg/L	94.9	70.0 - 130	127144054
TCLP Pyridine (Reg. Limit 5)	65.1	50.0	mg/L	130	70.0 - 130	127144054

DFTPP

Parameter		RefMass	Reading	%	Limits%	File
DFTPP Mass 127	628512	198	35984	55.4	40.0 - 60.0	127144053
DFTPP Mass 197	628512	198	0	0.0	0 - 1.00	127144053
DFTPP Mass 198	628512	198	64895	100.0	100 - 100	127144053
DFTPP Mass 199	628512	198	4630	7.1	5.00 - 9.00	127144053
DFTPP Mass 275	628512	198	19221	29.6	10.0 - 30.0	127144053
DFTPP Mass 365	628512	198	4564	7.0	1.00 - 100	127144053
DFTPP Mass 441	628512	443	8306	80.5	0 - 100	127144053
DFTPP Mass 442	628512	198	53038	81.7	40.0 - 100	127144053
DFTPP Mass 443	628512	442	10313	19.4	17.0 - 23.0	127144053
DFTPP Mass 51	628512	198	36178	55.7	30.0 - 60.0	127144053
DFTPP Mass 68	628512	69.0	0	0.0	0 - 2.00	127144053
DFTPP Mass 69	628512	198	28540	44.0	0 - 100	127144053
DFTPP Mass 70	628512	69.0	232	0.8	0 - 2.00	127144053

IS Areas

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
1,4-Dichlorobenzene-d4-ISTD	627853	CCV	39460	39460	19730	59190	127144054	627853
Acenaphthene-d10-ISTD	627853	CCV	95820	95820	47910	143700	127144054	627853
Naphthalene-d8-ISTD	627853	CCV	158100	158100	79060	237200	127144054	627853
Phenanthrene-d10-ISTD	627853	CCV	144200	144200	72110	216300	127144054	627853
1,4-Dichlorobenzene-d4-ISTD	1152289	Blank	30820	39460	19730	59190	127144055	1152289
1,4-Dichlorobenzene-d4-ISTD	1152289	LCS	28450	39460	19730	59190	127144056	1152289
1,4-Dichlorobenzene-d4-ISTD	1152289	LCS Dup	27520	39460	19730	59190	127144057	1152289
Acenaphthene-d10-ISTD	1152289	Blank	63870	95820	47910	143700	127144055	1152289
Acenaphthene-d10-ISTD	1152289	LCS	65990	95820	47910	143700	127144056	1152289
Acenaphthene-d10-ISTD	1152289	LCS Dup	62260	95820	47910	143700	127144057	1152289
Naphthalene-d8-ISTD	1152289	Blank	111800	158100	79060	237200	127144055	1152289
Naphthalene-d8-ISTD	1152289	LCS	109300	158100	79060	237200	127144056	1152289
Naphthalene-d8-ISTD	1152289	LCS Dup	105800	158100	79060	237200	127144057	1152289
Phenanthrene-d10-ISTD	1152289	Blank	93170	144200	72110	216300	127144055	1152289
Phenanthrene-d10-ISTD	1152289	LCS	95860	144200	72110	216300	127144056	1152289
Phenanthrene-d10-ISTD	1152289	LCS Dup	89750	144200	72110	216300	127144057	1152289

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IS Areas

Parameter	Sample	Type	Reading	CCVISM	Low	High		File	PrepSet
1,4-Dichlorobenzene-d4-ISTD	1152344	Blank	25100	39460	19730	59190		127144059	1152344
Acenaphthene-d10-ISTD	1152344	Blank	51540	95820	47910	143700		127144059	1152344
Naphthalene-d8-ISTD	1152344	Blank	94650	158100	79060	237200		127144059	1152344
Phenanthrene-d10-ISTD	1152344	Blank	66140	144200	72110	216300	*	127144059	1152344
1,4-Dichlorobenzene-d4-ISTD	2363097	MS	25640	39460	19730	59190		127144061	1152289
Acenaphthene-d10-ISTD	2363097	MS	54940	95820	47910	143700		127144061	1152289
Naphthalene-d8-ISTD	2363097	MS	98590	158100	79060	237200		127144061	1152289
Phenanthrene-d10-ISTD	2363097	MS	78880	144200	72110	216300		127144061	1152289
1,4-Dichlorobenzene-d4-ISTD	2364149	Unknown	26780	39460	19730	59190		127144065	1152289
Acenaphthene-d10-ISTD	2364149	Unknown	56750	95820	47910	143700		127144065	1152289
Naphthalene-d8-ISTD	2364149	Unknown	100900	158100	79060	237200		127144065	1152289
Phenanthrene-d10-ISTD	2364149	Unknown	79490	144200	72110	216300		127144065	1152289

IS RetTime

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
1,4-Dichlorobenzene-d4-ISTD	627853	CCV	6.190	6.190	6.130	6.250	127144054	627853
Acenaphthene-d10-ISTD	627853	CCV	11.95	11.95	11.89	12.01	127144054	627853
Naphthalene-d8-ISTD	627853	CCV	8.260	8.260	8.200	8.320	127144054	627853
Phenanthrene-d10-ISTD	627853	CCV	15.19	15.19	15.13	15.25	127144054	627853
1,4-Dichlorobenzene-d4-ISTD	1152289	Blank	6.190	6.190	6.130	6.250	127144055	1152289
1,4-Dichlorobenzene-d4-ISTD	1152289	LCS	6.190	6.190	6.130	6.250	127144056	1152289
1,4-Dichlorobenzene-d4-ISTD	1152289	LCS Dup	6.190	6.190	6.130	6.250	127144057	1152289
Acenaphthene-d10-ISTD	1152289	Blank	11.94	11.95	11.89	12.01	127144055	1152289
Acenaphthene-d10-ISTD	1152289	LCS	11.95	11.95	11.89	12.01	127144056	1152289
Acenaphthene-d10-ISTD	1152289	LCS Dup	11.94	11.95	11.89	12.01	127144057	1152289
Naphthalene-d8-ISTD	1152289	Blank	8.250	8.260	8.200	8.320	127144055	1152289
Naphthalene-d8-ISTD	1152289	LCS	8.250	8.260	8.200	8.320	127144056	1152289
Naphthalene-d8-ISTD	1152289	LCS Dup	8.250	8.260	8.200	8.320	127144057	1152289
Phenanthrene-d10-ISTD	1152289	Blank	15.18	15.19	15.13	15.25	127144055	1152289
Phenanthrene-d10-ISTD	1152289	LCS	15.18	15.19	15.13	15.25	127144056	1152289
Phenanthrene-d10-ISTD	1152289	LCS Dup	15.17	15.19	15.13	15.25	127144057	1152289
1,4-Dichlorobenzene-d4-ISTD	1152344	Blank	6.190	6.190	6.130	6.250	127144059	1152344
Acenaphthene-d10-ISTD	1152344	Blank	11.94	11.95	11.89	12.01	127144059	1152344
Naphthalene-d8-ISTD	1152344	Blank	8.250	8.260	8.200	8.320	127144059	1152344
Phenanthrene-d10-ISTD	1152344	Blank	15.17	15.19	15.13	15.25	127144059	1152344
1,4-Dichlorobenzene-d4-ISTD	2363097	MS	6.190	6.190	6.130	6.250	127144061	1152289
Acenaphthene-d10-ISTD	2363097	MS	11.94	11.95	11.89	12.01	127144061	1152289
Naphthalene-d8-ISTD	2363097	MS	8.250	8.260	8.200	8.320	127144061	1152289
Phenanthrene-d10-ISTD	2363097	MS	15.18	15.19	15.13	15.25	127144061	1152289
1,4-Dichlorobenzene-d4-ISTD	2364149	Unknown	6.190	6.190	6.130	6.250	127144065	1152289
Acenaphthene-d10-ISTD	2364149	Unknown	11.94	11.95	11.89	12.01	127144065	1152289
Naphthalene-d8-ISTD	2364149	Unknown	8.250	8.260	8.200	8.320	127144065	1152289
Phenanthrene-d10-ISTD	2364149	Unknown	15.17	15.19	15.13	15.25	127144065	1152289

CAM5-R

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LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
TCLP 2,4,5-Trichlorophenol	1152289	0.0197	0.0204	0.025	39.3 - 111	78.8	81.6	mg/L	3.49	30.0
TCLP 2,4,6-Trichlorophenol	1152289	0.0193	0.0194	0.025	38.2 - 109	77.2	77.6	mg/L	0.517	30.0
TCLP 2,4-Dinitrotoluene	1152289	0.0172	0.0163	0.025	36.3 - 132	68.8	65.2	mg/L	5.37	30.0
TCLP 2-Methylphenol (o-Cresol)	1152289	0.0121	0.0136	0.025	23.0 - 87.8	48.4	54.4	mg/L	11.7	30.0
TCLP 3&4-Methylphenol (m&p-Creso	1152289	0.0101	0.0124	0.025	14.9 - 92.5	40.4	49.6	mg/L	20.4	30.0
TCLP Hexachlorobenzene	1152289	0.0263	0.0265	0.025	44.4 - 117	105	106	mg/L	0.948	30.0
TCLP Hexachlorobutadiene	1152289	0.0199	0.0141	0.025	17.2 - 88.9	79.6	56.4	mg/L	34.1 *	30.0
TCLP Hexachloroethane	1152289	0.0175	0.0118	0.025	14.6 - 88.8	70.0	47.2	mg/L	38.9 *	30.0
TCLP Nitrobenzene	1152289	0.0204	0.0195	0.025	34.3 - 113	81.6	78.0	mg/L	4.51	30.0
TCLP Pentachlorophenol	1152289	0.0156	0.0168	0.025	15.7 - 129	62.4	67.2	mg/L	7.41	30.0
TCLP Pyridine (Reg. Limit 5)	1152289	0.0116	0.0118	0.025	0.0753 - 83.4	46.4	47.2	mg/L	1.71	30.0

MS

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
TCLP 2,4,5-Trichlorophenol	2363097	0.206	0	0.0095	0.250	33.7 - 116	78.6		mg/L		30.0
TCLP 2,4,6-Trichlorophenol	2363097	0.206	0	0.0095	0.250	20.1 - 131	78.6		mg/L		30.0
TCLP 2,4-Dinitrotoluene	2363097	0.174	0	0.0095	0.250	31.8 - 135	65.8		mg/L		30.0
TCLP 2-Methylphenol (o-Cresol)	2363097	0.142	0	0.0095	0.250	10.6 - 106	53.0		mg/L		30.0
TCLP 3&4-Methylphenol (m&p-Creso	2363097	0.119	0	0.0095	0.250	0.100 - 149	43.8		mg/L		30.0
TCLP Hexachlorobenzene	2363097	0.262	0	0.0095	0.250	35.9 - 125	101		mg/L		30.0
TCLP Hexachlorobutadiene	2363097	0.196	0	0.0095	0.250	11.1 - 88.5	74.6		mg/L		30.0
TCLP Hexachloroethane	2363097	0.188	0	0.0095	0.250	8.41 - 88.1	71.4		mg/L		30.0
TCLP Nitrobenzene	2363097	0.211	0	0.0095	0.250	28.7 - 119	80.6		mg/L		30.0
TCLP Pentachlorophenol	2363097	0.174	0	0.0095	0.250	8.33 - 141	65.8		mg/L		30.0
TCLP Pyridine (Reg. Limit 5)	2363097	0.148	0	0.0095	0.250	0.100 - 97.2	55.4		mg/L		30.0

SPCC

Parameter	Sample	RF	Minimum	File
TCLP 2,4-Dinitrophenol	627853	35.0	0.050	127144054
TCLP 4-Nitrophenol	627853	35.4	0.050	127144054
TCLP Hexachlorocyclopentadiene	627853	58.9	0.050	127144054
TCLP N-Nitroso-n-propylamine	627853	50.5	0.050	127144054

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
2,4,6-Tribromophenol	627853	CCV	44.5	100	mg/L	44.5	9.79 - 123	127144054
2-Fluorobiphenyl-SURR	627853	CCV	49.5	50.0	mg/L	99.0	0.100 - 131	127144054
2-Fluorophenol-SURR	627853	CCV	48.9	100	mg/L	48.9	5.36 - 80.2	127144054
4-Terphenyl-d14-SURR	627853	CCV	66.5	50.0	mg/L	133	0.100 - 137	127144054
Nitrobenzene-d5-SURR	627853	CCV	46.6	50.0	mg/L	93.2	0.100 - 131	127144054
Phenol-d6-SURR	627853	CCV	47.5	100	mg/L	47.5	0.100 - 66.5	127144054
2,4,6-Tribromophenol	1152289	Blank	1.85	3.33	mg/L	55.6	9.79 - 123	127144055
2,4,6-Tribromophenol	1152289	LCS	1.99	3.33	mg/L	59.8	9.79 - 123	127144056
2,4,6-Tribromophenol	1152289	LCS Dup	2.05	3.33	mg/L	61.6	9.79 - 123	127144057
2-Fluorobiphenyl-SURR	1152289	Blank	36.1	50.0	mg/L	72.2	0.100 - 131	127144055
2-Fluorobiphenyl-SURR	1152289	LCS	34.8	50.0	mg/L	69.6	0.100 - 131	127144056

CAM5-R

Laguna Madre Water District
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Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
2-Fluorobiphenyl-SURR	1152289	LCS Dup	33.7	50.0	mg/L	67.4	0.100 - 131	127144057
2-Fluorophenol-SURR	1152289	Blank	40.5	100	mg/L	40.5	5.36 - 80.2	127144055
2-Fluorophenol-SURR	1152289	LCS	39.0	100	mg/L	39.0	5.36 - 80.2	127144056
2-Fluorophenol-SURR	1152289	LCS Dup	37.2	100	mg/L	37.2	5.36 - 80.2	127144057
4-Terphenyl-d14-SURR	1152289	Blank	36.9	50.0	mg/L	73.8	0.100 - 137	127144055
4-Terphenyl-d14-SURR	1152289	LCS	38.1	50.0	mg/L	76.2	0.100 - 137	127144056
4-Terphenyl-d14-SURR	1152289	LCS Dup	40.8	50.0	mg/L	81.6	0.100 - 137	127144057
Nitrobenzene-d5-SURR	1152289	Blank	35.3	50.0	mg/L	70.6	0.100 - 131	127144055
Nitrobenzene-d5-SURR	1152289	LCS	33.4	50.0	mg/L	66.8	0.100 - 131	127144056
Nitrobenzene-d5-SURR	1152289	LCS Dup	32.0	50.0	mg/L	64.0	0.100 - 131	127144057
Phenol-d6-SURR	1152289	Blank	27.7	100	mg/L	27.7	0.100 - 66.5	127144055
Phenol-d6-SURR	1152289	LCS	27.6	100	mg/L	27.6	0.100 - 66.5	127144056
Phenol-d6-SURR	1152289	LCS Dup	26.1	100	mg/L	26.1	0.100 - 66.5	127144057
2,4,6-Tribromophenol	1152344	Blank	1.72	3.33	mg/L	51.7	9.79 - 123	127144059
2-Fluorobiphenyl-SURR	1152344	Blank	36.1	50.0	mg/L	72.2	0.100 - 131	127144059
2-Fluorophenol-SURR	1152344	Blank	39.9	100	mg/L	39.9	5.36 - 80.2	127144059
4-Terphenyl-d14-SURR	1152344	Blank	40.7	50.0	mg/L	81.4	0.100 - 137	127144059
Nitrobenzene-d5-SURR	1152344	Blank	34.0	50.0	mg/L	68.0	0.100 - 131	127144059
Phenol-d6-SURR	1152344	Blank	27.5	100	mg/L	27.5	0.100 - 66.5	127144059
2,4,6-Tribromophenol	2363097	MS	0.616	1.00	mg/L	61.6	9.79 - 123	127144061
2-Fluorobiphenyl-SURR	2363097	MS	0.381	0.500	mg/L	76.2	0.100 - 131	127144061
2-Fluorophenol-SURR	2363097	MS	0.415	1.00	mg/L	41.5	5.36 - 80.2	127144061
4-Terphenyl-d14-SURR	2363097	MS	0.451	0.500	mg/L	90.2	0.100 - 137	127144061
Nitrobenzene-d5-SURR	2363097	MS	0.357	0.500	mg/L	71.4	0.100 - 131	127144061
Phenol-d6-SURR	2363097	MS	0.286	1.00	mg/L	28.6	0.100 - 66.5	127144061
2,4,6-Tribromophenol	2364149	Unknown	0.558	1.00	mg/L	55.8	9.79 - 123	127144065
2-Fluorobiphenyl-SURR	2364149	Unknown	0.390	0.500	mg/L	78.0	0.100 - 131	127144065
2-Fluorophenol-SURR	2364149	Unknown	0.441	1.00	mg/L	44.1	5.36 - 80.2	127144065
4-Terphenyl-d14-SURR	2364149	Unknown	0.397	0.500	mg/L	79.4	0.100 - 137	127144065
Nitrobenzene-d5-SURR	2364149	Unknown	0.383	0.500	mg/L	76.6	0.100 - 131	127144065
Phenol-d6-SURR	2364149	Unknown	0.304	1.00	mg/L	30.4	0.100 - 66.5	127144065

Analytical Set 1153366 — EPA 8151

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP 2,4 D	1152344	ND	0.0159	0.050	mg/L	127152557
TCLP 2,4,5-TP (Silvex)	1152344	ND	0.00893	0.030	mg/L	127152557
TCLP 2,4 D	1153004	ND	0.0159	0.050	mg/L	127152550
TCLP 2,4,5-TP (Silvex)	1153004	ND	0.00893	0.030	mg/L	127152550

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP 2,4 D	0.146	0.150	mg/L	97.5	70.0 - 130	127152549
TCLP 2,4 D	0.157	0.150	mg/L	105	70.0 - 130	127152565
TCLP 2,4,5-TP (Silvex)	0.148	0.150	mg/L	98.3	70.0 - 130	127152549

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CCV

Parameter	Reading	Known	Units	Recover%	Limits%		File
TCLP 2,4,5-TP (Silvex)	0.160	0.150	mg/L	106	70.0 - 130		127152565

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
TCLP 2,4 D	1153004	0.110	0.103	0.100	2.06 - 194	110	103	mg/L	6.57	30.0
TCLP 2,4,5-TP (Silvex)	1153004	0.0944	0.0924	0.100	19.3 - 162	94.4	92.4	mg/L	2.14	30.0

MS

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
TCLP 2,4 D	2364149	0.784	0	ND	1.00	0.100 - 228	78.4		mg/L		30.0
TCLP 2,4,5-TP (Silvex)	2364149	0.799	0	ND	1.00	2.02 - 165	79.9		mg/L		30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
2,4-Dichlorophenylacetic Acid		CCV	0.157	0.200	mg/L	78.5	0.100 - 294	127152549
2,4-Dichlorophenylacetic Acid		CCV	0.169	0.200	mg/L	84.5	0.100 - 294	127152565
2,4-Dichlorophenylacetic Acid	1152344	Blank	0.104	0.200	mg/L	52.0	0.100 - 294	127152557
2,4-Dichlorophenylacetic Acid	1153004	Blank	0.0973	0.200	mg/L	48.6	0.100 - 294	127152550
2,4-Dichlorophenylacetic Acid	1153004	LCS	0.094	0.200	mg/L	47.0	0.100 - 294	127152551
2,4-Dichlorophenylacetic Acid	1153004	LCS Dup	0.0964	0.200	mg/L	48.2	0.100 - 294	127152552
2,4-Dichlorophenylacetic Acid	2364149	Unknown	1.05	2.00	mg/L	52.5	0.100 - 294	127152559
2,4-Dichlorophenylacetic Acid	2364149	MS	0.867	2.00	mg/L	43.4	0.100 - 294	127152560

Analytical Set 1153773 — EPA 8082

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units		File
PCB-1016	1153580	ND	43.0	250	ug/kg		127161726
PCB-1221	1153580	ND	43.0	250	ug/kg		127161726
PCB-1232	1153580	ND	43.0	250	ug/kg		127161726
PCB-1242	1153580	ND	43.0	250	ug/kg		127161726
PCB-1248	1153580	ND	43.0	250	ug/kg		127161726
PCB-1254	1153580	ND	43.0	250	ug/kg		127161726
PCB-1260	1153580	ND	43.0	250	ug/kg		127161726

CCV

Parameter	Reading	Known	Units	Recover%	Limits%		File
PCB-1016	1200	1000	ug/kg	120	80.0 - 120		127161725
PCB-1016	908	1000	ug/kg	90.8	80.0 - 120		127161741
PCB-1260	1130	1000	ug/kg	113	80.0 - 120		127161725
PCB-1260	5380	1000	ug/kg	538	80.0 - 120	*	127161741

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
PCB-1016	1153580	5790	5850	5000	28.4 - 187	116	117	ug/kg	0.858	30.0
PCB-1260	1153580	5840	5900	5000	22.3 - 183	117	118	ug/kg	0.851	30.0

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MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
PCB-1016	2366188	7020	6450	ND	10000	0.100 - 427	70.2	64.5	ug/kg	8.46	30.0
PCB-1260	2366188	6850	6500	ND	10000	0.100 - 470	68.5	65.0	ug/kg	5.24	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Decachlorobiphenyl	1153580	Blank	72.4	100	ug/kg	72.4	10.0 - 200	127161726
Tetrachloro-m-Xylene (Surr)	1153580	Blank	97.4	100	ug/kg	97.4	10.0 - 160	127161726
Decachlorobiphenyl	2364149	Unknown	268	495	ug/kg	54.1	10.0 - 200	127161729
Tetrachloro-m-Xylene (Surr)	2364149	Unknown	397	495	ug/kg	80.2	10.0 - 160	127161729

Analytical Set 1153860 EPA 8081A

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP Chlordane	1152344	ND	0.0000183	0.00002	mg/L	127162814
TCLP Endrin	1152344	ND	0.000538	0.001	mg/L	127162814
TCLP gamma-BHC (Lindane)	1152344	ND	0.000385	0.001	mg/L	127162814
TCLP Heptachlor	1152344	ND	0.000207	0.001	mg/L	127162814
TCLP Heptachlor Epoxide	1152344	ND	0.00066	0.001	mg/L	127162814
TCLP Methoxychlor	1152344	ND	0.000898	0.001	mg/L	127162814
TCLP Toxaphene	1152344	ND	0.000169	0.0002	mg/L	127162814
TCLP Chlordane	1152473	ND	0.0000183	0.00002	mg/L	127162811
TCLP Endrin	1152473	ND	0.000538	0.001	mg/L	127162811
TCLP gamma-BHC (Lindane)	1152473	ND	0.000385	0.001	mg/L	127162811
TCLP Heptachlor	1152473	ND	0.000207	0.001	mg/L	127162811
TCLP Heptachlor Epoxide	1152473	ND	0.00066	0.001	mg/L	127162811
TCLP Methoxychlor	1152473	ND	0.000898	0.001	mg/L	127162811
TCLP Toxaphene	1152473	ND	0.000169	0.0002	mg/L	127162811

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Endrin	0.0456	0.050	mg/L	91.2	70.0 - 130	127162810
TCLP Endrin	0.0537	0.050	mg/L	107	70.0 - 130	127162818
TCLP gamma-BHC (Lindane)	0.0465	0.050	mg/L	92.9	70.0 - 130	127162810
TCLP gamma-BHC (Lindane)	0.0536	0.050	mg/L	107	70.0 - 130	127162818
TCLP Heptachlor	0.0439	0.050	mg/L	87.8	70.0 - 130	127162810
TCLP Heptachlor	0.0377	0.050	mg/L	75.4	70.0 - 130	127162818
TCLP Heptachlor Epoxide	0.0441	0.050	mg/L	88.3	70.0 - 130	127162810
TCLP Heptachlor Epoxide	0.0517	0.050	mg/L	103	70.0 - 130	127162818
TCLP Methoxychlor	0.0496	0.050	mg/L	99.1	70.0 - 130	127162810
TCLP Methoxychlor	0.0543	0.050	mg/L	109	70.0 - 130	127162818

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
TCLP Endrin	1152473	0.0864	0.0935	0.100	42.6 - 137	86.4	93.5	mg/L	7.89	30.0
TCLP gamma-BHC (Lindane)	1152473	0.0748	0.0884	0.100	33.0 - 129	74.8	88.4	mg/L	16.7	30.0
TCLP Heptachlor	1152473	0.0695	0.0848	0.100	24.2 - 129	69.5	84.8	mg/L	19.8	30.0

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QUALITY CONTROL

CAM5-R

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LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
TCLP Heptachlor Epoxide	1152473	0.0761	0.0832	0.100	40.8 - 128	76.1	83.2	mg/L	8.91	30.0
TCLP Methoxychlor	1152473	0.103	0.112	0.100	33.3 - 146	103	112	mg/L	8.37	30.0

MS

Parameter	*Sample*	*MS*	*MSD*	*UNK*	*Known*	*Limits*	*MS%*	*MSD%*	*Units*	*RPD*	*Limit%*
TCLP Endrin	2364149	0.00572	0	ND	0.005	24.3 - 151	114		mg/L		30.0
TCLP gamma-BHC (Lindane)	2364149	0.0056	0	ND	0.005	21.3 - 144	112		mg/L		30.0
TCLP Heptachlor	2364149	0.00348	0	ND	0.005	14.9 - 138	69.6		mg/L		30.0
TCLP Heptachlor Epoxide	2364149	0.00515	0	ND	0.005	29.9 - 133	103		mg/L		30.0
TCLP Methoxychlor	2364149	0.007	0	ND	0.005	10.3 - 183	140		mg/L		30.0

Surrogate

Parameter	*Sample*	*Type*	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Decachlorobiphenyl	627643	CCV	0.0449	0.100	mg/L	44.9	10.0 - 150	127162810
Decachlorobiphenyl	627643	CCV	0.0482	0.100	mg/L	48.2	10.0 - 150	127162818
Tetrachloro-m-Xylene (Surr)	627643	CCV	0.0431	0.100	mg/L	43.1	10.0 - 150	127162810
Tetrachloro-m-Xylene (Surr)	627643	CCV	0.0428	0.100	mg/L	42.8	10.0 - 150	127162818
Decachlorobiphenyl	1152344	Blank	0.0762	0.100	mg/L	76.2	10.0 - 150	127162814
Tetrachloro-m-Xylene (Surr)	1152344	Blank	0.066	0.100	mg/L	66.0	10.0 - 150	127162814
Decachlorobiphenyl	1152473	Blank	0.0475	0.100	mg/L	47.5	10.0 - 150	127162811
Decachlorobiphenyl	1152473	LCS	0.0432	0.100	mg/L	43.2	10.0 - 150	127162812
Decachlorobiphenyl	1152473	LCS Dup	0.081	0.100	mg/L	81.0	10.0 - 150	127162813
Tetrachloro-m-Xylene (Surr)	1152473	Blank	0.047	0.100	mg/L	47.0	10.0 - 150	127162811
Tetrachloro-m-Xylene (Surr)	1152473	LCS	0.0505	0.100	mg/L	50.5	10.0 - 150	127162812
Tetrachloro-m-Xylene (Surr)	1152473	LCS Dup	0.0647	0.100	mg/L	64.7	10.0 - 150	127162813
Decachlorobiphenyl	2364149	Unknown	0.00279	0.005	mg/L	55.8	10.0 - 150	127162816
Decachlorobiphenyl	2364149	MS	0.00385	0.005	mg/L	77.0	10.0 - 150	127162817
Tetrachloro-m-Xylene (Surr)	2364149	Unknown	0.00284	0.005	mg/L	56.8	10.0 - 150	127162816
Tetrachloro-m-Xylene (Surr)	2364149	MS	0.00353	0.005	mg/L	70.6	10.0 - 150	127162817

* 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.); BFB - Bromofluorobenzene, GC/MS Tuning Compound (mass intensity used as tuning acceptance criteria.); 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.); 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.); CCB - Continuing Calibration Blank; 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.); DFTPP - GC/MS Tuning Compound

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1128974 CoC Print Group 001 of 001

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Lab Number 17 64149

Laguna Madre Water District
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CAM5 -R
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PO Number 23-13245

Phone 956/943-2626

ID

LAGUNA VISTA WWTP ☑ Hand Delivered by Client to Region or LAB

Matrix: Solid & Chemical Materials

Sample Collection Start
Date: 12-10-24 Time: 15:34

Sampler Printed Name: Frank Gamez III - SPL, Inc.

Sampler Affiliation: _____

Sampler Signature: _____

Samples Radioactive? ☐ Samples Contains Dioxin? ☐ Samples Biological Hazard? ☐

2 Glass Qt w/Teflon lined lid

NELAC	*AgT	TCLP Silver	EPA 6020A CAS:7440-22-4 (14.0 days)
NELAC	*AsT	TCLP Arsenic	EPA 6020A CAS:7440-38-2 (14.0 days)
NELAC	*BaT	TCLP Barium	EPA 6020A CAS:7440-39-3 (14.0 days)
NELAC	*CdT	TCLP Cadmium	EPA 6020A CAS:7440-43-9 (14.0 days)
NELAC	*CrT	TCLP Chromium	EPA 6020A CAS:7440-47-3 (14.0 days)
NELAC	*HgT	TCLP Mercury	EPA 7470 A CAS:7439-97-6 (14.0 days)
NELAC	*PbT	TCLP Lead	EPA 6020A CAS:7439-92-1 (14.0 days)
NELAC	*SeT	TCLP Selenium	EPA 6020A CAS:7782-49-2 (14.0 days)
NELAC	*TCL	TCLP Extraction Non-Volatile	EPA 1311 (14.0 days)
NELAC	TABN	MS TCLP Semivolatile Analysis	EPA 8270C (7.00 days)
NELAC	TG50	GC TCLP Herbicide	EPA 8151 (7.00 days)
NELAC	TG80	GC TCLP Pesticide	EPA 8081A (7.00 days)
NELAC	TVOA	MS TCLP Volatile Analysis	EPA 8260B (14.0 days)
NELAC	TVOX	TCLP Extraction ZHE Volatiles	EPA 1311ZHE (14.0 days)

1 Glass 4 oz w/Teflon lined lid

1128974 CoC Print Group 001 of 001

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Laguna Madre Water District
Mark A. Garza
105 Port Rd.
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NELAC | PCB | Polychlorinated Biphenyls | EPA 8082 (7.00 days)

Ambient Conditions/Comments

Date	Time	Relinquished		Received	
12/10/24	17:30	Printed Name: Frank Gamez III - SPL, Inc.	Affiliation	Printed Name: Fedex	Affiliation
		Signature		Signature	
12/13/24	1000	Printed Name	Affiliation	Printed Name	Affiliation
		Signature		Signature	
		Printed Name	Affiliation	Printed Name	Affiliation
		Signature		Signature	
		Printed Name	Affiliation	Printed Name	Affiliation
		Signature		Signature	

Sample Received on Ice? [X] Yes [ ] No
Cooler/Sample Secure? [X] Yes [ ] No
If Shipped: Tracking Number & Temp - See Attached

The accredited column designates accreditation by A - A2LA, N - NELAC, or z - not listed under scope of accreditation. Unless otherwise specified, ANA-LAB shall provide these ordered services pursuant to our Standard Terms & Conditions Agreement (available for download from the welcome page at <http://www.ana-lab.com>). Ana-Lab personnel collect samples as specified by Ana-Lab SOP #000323.

Comments

1128974 CoC Print Group 001 of 001

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Laguna Madre Water District
Mark A. Garza
105 Port Rd.
Port Isabel, TX 78578-

CAM5-R
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Lab Number 12141794

PO Number 23- 13245

Phone 956/943-2626

Sludge

LAGUNA VISTA WWTP

☑ Hand Delivered by Client to Region or LAB

Matrix: Solid & Chemical Materials

Sample Collection Start
Date: 12-10-24 Time: 15:30

Sampler Printed Name: Frank Gamez III - SPL, Inc.

Sampler Affiliation: _____

Sampler Signature: _____

Samples Radioactive? ☐ Samples Contains Dioxin? ☐ Samples Biological Hazard? ☐

1 Glass 4 oz w/Teflon lined lid

NELAC	*AsM	Arsenic, Total	EPA 6020A CAS:7440-38-2 (180 days)
NELAC	*CrM	Chromium, Total	EPA 6020A CAS:7440-47-3 (180 days)
NELAC	*NiM	Nickel, Total	EPA 6020A CAS:7440-02-0 (180 days)
NELAC	301S	Solid Metals Digestion	EPA 200.2 2.8 (180 days)
	PU85	Sampling/Transport	
NELAC	TS%	Total Solids for Dry Wt Conversi	SM2540 G-1997 /MOD

0 Z -- No bottle required

ARDW	As Received to Dry Weight Basis	Calculation

Ambient Conditions/Comments

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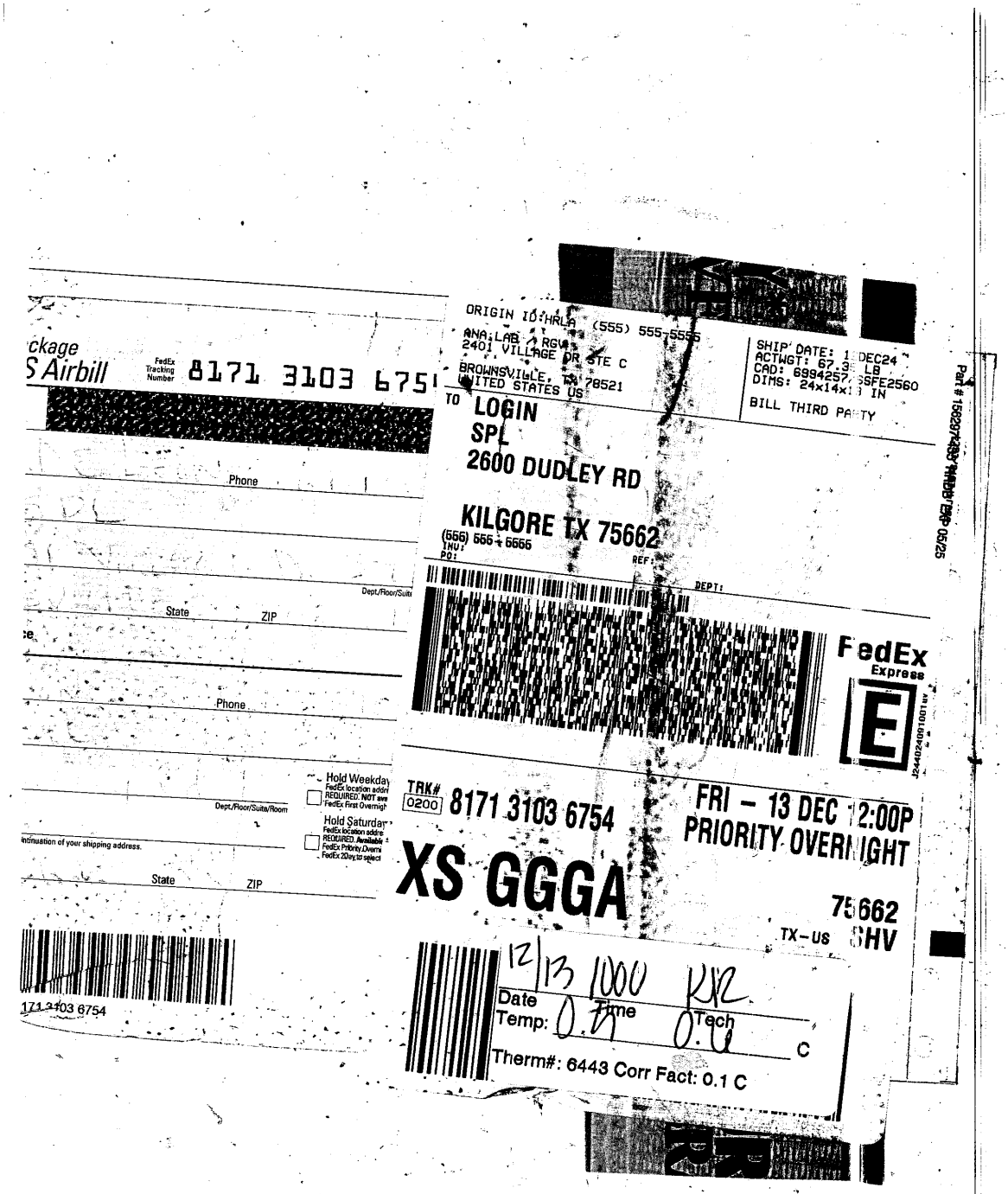
Date	Time	Relinquished		Received	
12 10 24	17:30	Printed Name: Frank Gamez III - SPL, Inc.	Affiliation	Printed Name: Fedex	Affiliation
		Signature		Signature	
12/13/24	1000	Printed Name: FedEx	Affiliation	Printed Name	Affiliation
		Signature		Signature	
		Printed Name	Affiliation	Printed Name	Affiliation
		Signature		Signature	
		Printed Name	Affiliation	Printed Name	Affiliation
		Signature		Signature	

Sample Received on Ice? ☒ Yes ☐ No
Cooler/Sample Secure? ☒ Yes ☐ No **If Shipped: Tracking Number & Temp - See Attached**

The accredited column designates accreditation by A - A2LA, N - NELAC, or z - not listed under scope of accreditation. Unless otherwise specified, ANA-LAB shall provide these ordered services pursuant to our Standard Terms & Conditions Agreement (available for download from the welcome page at <http://www.ana-lab.com>). Ana-Lab personnel collect samples as specified by Ana-Lab SOP #000323.

Comments

1128974 CoC Print Group 001 of 001



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SAMPLE CROSS REFERENCE

Project
1129210

Laguna Madre Water District
Mark A. Garza
105 Port Rd.
Port Isabel, TX 78578-

-

Sample	Sample ID	Taken	Time	Received
2365199	*PORT ISABEL WWTP*	12/16/2024	14:32:00	12/17/2024
2365200	*PORT ISABEL WWTP*	12/16/2024	14:30:00	12/17/2024
2365201	*PORT ISABEL WWTP*	12/16/2024	14:34:00	12/17/2024

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Report Date: 01/08/2025
Printed: 02/05/2025

RESULTS

Sample Results

2365199 PORT ISABEL WWTP — Received: 12/17/2024

Solid & Chemical Materials — Collected by: FG3 — SPL Kilgore — PO: 23- 13245
Taken: 12/16/2024 14:32:00

EPA 6020A — Prepared: 1153570 12/26/2024 12:30:00 — Analyzed 1154106 12/30/2024 20:35:00 ESG

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Arsenic, Total	8.00 *	mg/kg	1.37		7440-38-2	02
NELAC	Nickel, Total	27.0 *	mg/kg	0.686		7440-02-0	02

EPA 6020A — Prepared: 1153570 12/26/2024 12:30:00 — Analyzed 1154494 01/02/2025 19:25:00 ESG

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Chromium, Total	51.8 *	mg/kg	0.686		7440-47-3	02

* Dry Weight Basis

SM2540 G-1997 /MOD — Prepared: 1152669 12/17/2024 16:55:00 — Analyzed 1152669 12/17/2024 16:55:00 BEK

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Total Solids for Dry Wt Conversi	10.5	%	0.010			01

2365200 PORT ISABEL WWTP — Received: 12/17/2024

Solid & Chemical Materials — Collected by: FG3 — SPL Kilgore — PO: 23- 13245
Taken: 12/16/2024 14:30:00

EPA 6010C — Prepared: 1152975 12/19/2024 13:08:52 — Analyzed 1153107 12/19/2024 15:56:00 CAS

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP Arsenic	<0.250	mg/L	0.250		7440-38-2	12
NELAC	TCLP Barium	<0.250	mg/L	0.250		7440-39-3	12
NELAC	TCLP Cadmium	<0.125	mg/L	0.125		7440-43-9	12
NELAC	TCLP Chromium	<0.250	mg/L	0.250		7440-47-3	12
NELAC	TCLP Lead	<0.250	mg/L	0.250		7439-92-1	12
NELAC	TCLP Selenium	<0.250	mg/L	0.250		7782-49-2	12

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Report Date: 01/08/2025
Printed: 02/05/2025

2365200 PORT ISABEL WWTP Received: 12/17/2024

Solid & Chemical Materials Collected by: FG3 SPL Kilgore PO: 23- 13245
Taken: 12/16/2024 14:30:00

EPA 6010C Prepared: 1152975 12/19/2024 13:08:52 Analyzed 1153107 12/19/2024 15:56:00 CAS

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP Silver	<0.050	mg/L	0.050		7440-22-4	12

EPA 7470 A Prepared: 1152937 12/19/2024 10:20:00 Analyzed 1153013 12/19/2024 13:43:00 CAS

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP Mercury	<0.002	mg/L	0.002		7439-97-6	09

EPA 8081A Prepared: 1153416 12/23/2024 12:00:00 Analyzed 1153888 12/27/2024 20:44:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP Chlordane	<0.001	mg/L	0.001		57-74-9	16
NELAC	TCLP Endrin	<0.00005	mg/L	0.00005	X	72-20-8	16
NELAC	TCLP gamma-BHC (Lindane)	<0.00005	mg/L	0.00005	X	58-89-9	16
NELAC	TCLP Heptachlor	<0.00005	mg/L	0.00005	X	76-44-8	16
NELAC	TCLP Heptachlor Epoxide	<0.00005	mg/L	0.00005	X	1024-57-3	16
NELAC	TCLP Methoxychlor	<0.00005	mg/L	0.00005	X	72-43-5	16
NELAC	TCLP Toxaphene	<0.001	mg/L	0.001		8001-35-2	16

EPA 8082 Prepared: 1153580 12/26/2024 12:19:02 Analyzed 1153773 12/26/2024 18:13:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	PCB-1016	<1.000 *	mg/kg	1.000		12674-11-2	17
NELAC	PCB-1221	<1.000 *	mg/kg	1.000		11104-28-2	17
NELAC	PCB-1232	<1.000 *	mg/kg	1.000		11141-16-5	17
NELAC	PCB-1242	<1.000 *	mg/kg	1.000		53469-21-9	17
NELAC	PCB-1248	<1.000 *	mg/kg	1.000		12672-29-6	17
NELAC	PCB-1254	<1.000 *	mg/kg	1.000		11097-69-1	17
NELAC	PCB-1260	<1.000 *	mg/kg	1.000	X	11096-82-5	17
NELAC	PCB-1262	<1.000 *	mg/kg	1.000		37324-23-5	17
NELAC	PCB-1268	<1.000 *	mg/kg	1.000		11100-14-4	17

* Dry Weight Basis

EPA 8151 Prepared: 1153004 12/19/2024 14:15:41 Analyzed 1153366 12/21/2024 15:18:00 KAP

Parameter	Results	Units	RL	Flags	CAS	Bottle

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Project 1129210

Report Date: 01/08/2025
Printed: 02/05/2025

2365200 PORT ISABEL WWTP Received: 12/17/2024

Solid & Chemical Materials Collected by: FG3 SPL Kilgore PO: 23- 13245
Taken: 12/16/2024 14:30:00

EPA 8151 Prepared: 1153004 12/19/2024 14:15:41 Analyzed 1153366 12/21/2024 15:18:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP 2,4 D	<0.500	mg/L	0.500		94-75-7	15
NELAC	TCLP 2,4,5-TP (Silvex)	<0.300	mg/L	0.300		93-72-1	15

EPA 8260B Prepared: 1152799 12/18/2024 15:05:00 Analyzed 1153186 12/19/2024 20:15:00 MR1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP 1,1-Dichloroethene	<0.010	mg/L	0.010		75-35-4	05
NELAC	TCLP 1,2-Dichloroethane	<0.010	mg/L	0.010		107-06-2	05
NELAC	TCLP 1,4 Dichlorobenzene	<0.010	mg/L	0.010		106-46-7	05
NELAC	TCLP Benzene	<0.010	mg/L	0.010		71-43-2	05
NELAC	TCLP Carbon tetrachloride	<0.010	mg/L	0.010		56-23-5	05
NELAC	TCLP Chlorobenzene	<0.010	mg/L	0.010		108-90-7	05
NELAC	TCLP Chloroform	<0.010	mg/L	0.010		67-66-3	05
NELAC	TCLP MEK	<0.100	mg/L	0.100		78-93-3	05
NELAC	TCLP Tetrachloroethylene	<0.010	mg/L	0.010		127-18-4	05
NELAC	TCLP Trichloroethylene	<0.010	mg/L	0.010		79-01-6	05
NELAC	TCLP Vinyl chloride	<0.0104	mg/L	0.0104		75-01-4	05

EPA 8270C Prepared: 1152997 12/19/2024 14:00:43 Analyzed 1154193 12/27/2024 14:41:00 PM1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	TCLP 2,4,5-Trichlorophenol	<0.050	mg/L	0.050		95-95-4	13
NELAC	TCLP 2,4,6-Trichlorophenol	<0.020	mg/L	0.020		88-06-2	13
NELAC	TCLP 2,4-Dinitrotoluene	<0.020	mg/L	0.020		121-14-2	13
NELAC	TCLP 2-Methylphenol (o-Cresol)	<0.100	mg/L	0.100		95-48-7	13
NELAC	TCLP 3&4-Methylphenol (m&p-Creso	<0.080	mg/L	0.080		108-39-4	13
NELAC	TCLP Hexachlorobenzene	<0.010	mg/L	0.010		118-74-1	13
NELAC	TCLP Hexachlorobutadiene	<0.0103	mg/L	0.0103		87-68-3	13
NELAC	TCLP Hexachloroethane	<0.020	mg/L	0.020		67-72-1	13
NELAC	TCLP Nitrobenzene	<0.010	mg/L	0.010		98-95-3	13
NELAC	TCLP Pentachlorophenol	<0.050	mg/L	0.050		87-86-5	13
NELAC	TCLP Pyridine (Reg. Limit 5)	<0.0135	mg/L	0.0135		110-86-1	13

EPA 8270C Prepared: 1152997 12/19/2024 14:00:43 Calculated 1154193 01/02/2025 15:24:16 CAL

Parameter	Results	Units	RL	Flags	CAS	Bottle

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Report Date: 01/08/2025
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2365200 PORT ISABEL WWTP

Received: 12/17/2024

Solid & Chemical Materials | Collected by: FG3 | SPL Kilgore | PO: 23- 13245
Taken: 12/16/2024 14:30:00

EPA 8270C Prepared: 1152997 12/19/2024 14:00:43 Calculated 1154193 01/02/2025 15:24:16 CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	**TCLP Total Cresols (Reg Lim 200)**	**<0.080**	**mg/L**	0.080		**108-39-4,ect.**	13

SM2540 G-1997 /MOD Prepared: 1152669 12/17/2024 16:55:00 Analyzed 1152669 12/17/2024 16:55:00 BEK

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Total Solids for Dry Wt Conversi**	**10.6**	**%**	0.010			01

2365201 PORT ISABEL WWTP

Received: 12/17/2024

Solid & Chemical Materials | Collected by: FG3 | SPL Kilgore | PO: 23- 13245
Taken: 12/16/2024 14:34:00

SM 2540 G-1997 Prepared: 1153312 12/20/2024 17:03:00 Analyzed 1153312 12/20/2024 17:03:00 BEK

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Volatile Solids**	**55.1**	**%**	0.100			01

SM 2710 B-2004 Prepared: 1152754 12/18/2024 13:33:35 Analyzed 1152754 12/18/2024 13:33:35 JW1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	**Oxygen Consumption Rate**	**0.00120**	**(mg/g)/ min**		D		01

SM 2710 B-2011 MOD Prepared: 12/18/2024 15:13:24 Calculated 12/18/2024 15:13:24 CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	**Specific Oxygen Uptake Rate 20C**	**<0.1**	**mg O2/g/hr**	0.1			

SM2540 G-1997 /MOD Prepared: 1153311 12/20/2024 17:03:00 Analyzed 1153311 12/20/2024 17:03:00 BEK

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Total Solids for Dry Wt Conversi**	**10.5**	**%**	0.010			01

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** Sample was diluted to <2% solids prior to analysis.

Sample Preparation

2365199 PORT ISABEL WWTP — Received: 12/17/2024

23- 13245

12/16/2024

		Prepared:		12/17/2024	11:31:16	Calculated	12/17/2024	11:31:16 CAL
	Sampling/Transport	Verified						
Calculation		Prepared:		01/06/2025	15:48:41	Calculated	01/06/2025	15:48:41 CAL
	As Received to Dry Weight Basis	Calculated						
EPA 3050B		Prepared:	1153570	12/26/2024	12:30:00	Analyzed	1153570 12/26/2024	12:30:00 TES
NELAC	Solid/Sludge/Soil/Sediment Metal	50/3.47	grams					01
SM 2540 G-1997		Prepared:	1152569	12/17/2024	16:55:00	Analyzed	1152569 12/17/2024	16:55:00 BEK
NELAC	Total Solids Start Code	Started						

2365200 PORT ISABEL WWTP — Received: 12/17/2024

23- 13245

12/16/2024

		Prepared:		12/17/2024	11:31:16	Calculated	12/17/2024	11:31:16 CAL
z	Enviro Fee (per Sampling Group)	Verified						
		Prepared:		01/06/2025	16:43:00	Analyzed	01/06/2025	16:43:00 WJP

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2365200 **PORT ISABEL WWTP** *Received:* 12/17/2024

23- 13245

12/16/2024

		Prepared:		*01/06/2025*	*16:43:00*	*Analyzed*	*01/06/2025*	*16:43:00*	*WJP*
z	**Check Limits**	**Completed**							
Calculation		*Prepared:*		*01/02/2025*	*15:24:37*	*Calculated*	*01/02/2025*	*15:24:37*	*CAL*
	As Received to Dry Weight Basis	**Calculated**							
EPA 1311		*Prepared:*	*1152805*	*12/18/2024*	*15:05:00*	*Analyzed*	*1152805*	*12/18/2024*	*15:05:00*	*KN1*
NELAC	**TCLP Extraction Non-Volatile**	**SOLID EXT 1**	**ml**						01
EPA 1311ZHE		*Prepared:*	*1152799*	*12/18/2024*	*15:05:00*	*Analyzed*	*1152799*	*12/18/2024*	*15:05:00*	*KN1*
NELAC	**TCLP Extraction ZHE Volatiles**	**100% SOLID**	**ml**						01
EPA 3005A		*Prepared:*	*1152805*	*12/18/2024*	*15:05:00*	*Analyzed*	*1152975*	*12/19/2024*	*13:08:52*	*TES*
z	**Metals Digestion TCLP Extract**	**50/10**	**ml**						07
EPA 3510C		*Prepared:*	*1152805*	*12/18/2024*	*15:05:00*	*Analyzed*	*1152997*	*12/19/2024*	*14:00:43*	*CRS*
	TCLP Liquid-Liquid Extract	**1/100**	**ml**						08
EPA 3510C		*Prepared:*	*1152805*	*12/18/2024*	*15:05:00*	*Analyzed*	*1153416*	*12/23/2024*	*12:00:00*	*LSM*
	TCLP Liq-Liq Extr. W/Hex Exch.	**10/200**	**ml**						08
EPA 3550B		*Prepared:*	*1153580*	*12/26/2024*	*12:19:02*	*Analyzed*	*1153580*	*12/26/2024*	*12:19:02*	*PEV*

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2365200 **PORT ISABEL WWTP** *Received:* 12/17/2024

23- 13245

12/16/2024

	EPA 3550B	*Prepared:*	*1153580*	*12/26/2024*	*12:19:02*	*Analyzed*	*1153580*	*12/26/2024*	*12:19:02*	*PEV*
NELAC	**PCB Total Sonic Extr. W/Hex Exch**	**10/2.01**	**grams**							03
	EPA 7470A	*Prepared:*	*1152805*	*12/18/2024*	*15:05:00*	*Analyzed*	*1152937*	*12/19/2024*	*10:20:00*	*ALB*
NELAC	**Metals Digestion TCLP 7470**	**50/2.5**	**ml**							07
	EPA 8081A	*Prepared:*	*1153416*	*12/23/2024*	*12:00:00*	*Analyzed*	*1153888*	*12/27/2024*	*20:44:00*	*KAP*
NELAC	**GC TCLP Pesticide**	**Entered**								16
	EPA 8082	*Prepared:*	*1153580*	*12/26/2024*	*12:19:02*	*Analyzed*	*1153773*	*12/26/2024*	*18:13:00*	*KAP*
NELAC	**Polychlorinated Biphenyls**	**Entered**								17
	EPA 8151	*Prepared:*	*1153004*	*12/19/2024*	*14:15:41*	*Analyzed*	*1153366*	*12/21/2024*	*15:18:00*	*KAP*
NELAC	**GC TCLP Herbicide**	**Entered**								15
	EPA 8151A (Prep)	*Prepared:*	*1152805*	*12/18/2024*	*15:05:00*	*Analyzed*	*1153004*	*12/19/2024*	*14:15:41*	*CRS*
NELAC	**Esterification of TCLP Extract**	**10/1**	**ml**							08
	EPA 8260B	*Prepared:*	*1152799*	*12/18/2024*	*15:05:00*	*Analyzed*	*1153186*	*12/19/2024*	*20:15:00*	*MR1*
NELAC	**MS TCLP Volatile Analysis**	**Entered**								05

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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Laguna Madre Water District
Mark A. Garza
105 Port Rd.
Port Isabel, TX 78578-

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Report Date: 01/08/2025
Printed: 02/05/2025

2365200 PORT ISABEL WWTP — Received: 12/17/2024

23- 13245

12/16/2024

EPA 8270C	*Prepared:*	*1152997*	*12/19/2024*	*14:00:43*	*Analyzed*	*1154193*	*12/27/2024*	*14:41:00*	*PM1*

NELAC **MS TCLP Semivolatile Analysis** **Entered** 13

SM 2540 G-1997	*Prepared:*	*1152569*	*12/17/2024*	*16:55:00*	*Analyzed*	*1152569*	*12/17/2024*	*16:55:00*	*BEK*

NELAC **Total Solids Start Code** **Started**

2365201 PORT ISABEL WWTP — Received: 12/17/2024

23- 13245

12/16/2024

SM 2540 G-1997	*Prepared:*	*1153288*	*12/20/2024*	*17:03:00*	*Analyzed*	*1153288*	*12/20/2024*	*17:03:00*	*BEK*

NELAC **Total Solids Start Code** **Started**

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

SPL
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Qualifiers:

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

QUALITY CONTROL

CAM5-R

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Analytical Set 1152754 — SM 2710 B-2004

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Oxygen Consumption Rate	1152754	ND			(mg/g)/min	127139954

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD		Limit%
Oxygen Consumption Rate	2365201	0.00080	0.00120	(mg/g)/min	40.0	*	20.000

Analytical Set 1152669 — SM2540 G-1997 /MOD

ControlBlk

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Total Solids for Dry Wt Conversi	1152669	0.0001			grams	127137739

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Total Solids for Dry Wt Conversi	2365192	10.5	10.5	%	0	20.0
Total Solids for Dry Wt Conversi	2365202	18.9	19.2	%	1.57	20.0

Analytical Set 1153311 — SM2540 G-1997 /MOD

ControlBlk

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Total Solids for Dry Wt Conversi	1153311	0			grams	127151439

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Total Solids for Dry Wt Conversi	2365201	10.3	10.5	%	1.92	20.0

Analytical Set 1153312 — SM 2540 G-1997

ControlBlk

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Volatile Solids	1153312	0			grams	127151444

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Volatile Solids	2365201	55.2	55.1	%	0.181	20.0

Analytical Set 1153013 — EPA 7470 A

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP Mercury	1152937	ND	0.000113	0.0002	mg/L	127144952

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Mercury	0.00515	0.005	mg/L	103	90.0 - 110	127144909
TCLP Mercury	0.00498	0.005	mg/L	99.6	90.0 - 110	127144918
TCLP Mercury	0.00478	0.005	mg/L	95.6	90.0 - 110	127144951

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CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Mercury	0.00481	0.005	mg/L	96.2	90.0 - 110	127144953
TCLP Mercury	0.00496	0.005	mg/L	99.2	90.0 - 110	127144961

ICL

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Mercury	0.0205	0.02	mg/L	102	90.0 - 110	127144908

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Mercury	0.00503	0.005	mg/L	101	90.0 - 110	127144907

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
TCLP Mercury	1152937	0.00981	0.00952	0.010	85.1 - 117	98.1	95.2	mg/L	3.00	20.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
TCLP Mercury	2365200	0.0948	0.0931	ND	0.100	80.9 - 121	94.8	93.1	mg/L	1.81	20.0

Analytical Set 1153107 — EPA 6010C

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP Arsenic	1152975	ND	0.0149	0.050	mg/L	127147000
TCLP Barium	1152975	ND	0.00102	0.050	mg/L	127147000
TCLP Cadmium	1152975	ND	0.0014	0.025	mg/L	127147000
TCLP Chromium	1152975	ND	0.00175	0.050	mg/L	127147000
TCLP Lead	1152975	ND	0.0146	0.050	mg/L	127147000
TCLP Selenium	1152975	ND	0.0282	0.050	mg/L	127147000
TCLP Silver	1152975	ND	0.00208	0.010	mg/L	127147000

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP Arsenic	2.47	2.50	mg/L	98.8	90.0 - 110	127146984
TCLP Arsenic	2.52	2.50	mg/L	101	90.0 - 110	127146985
TCLP Arsenic	2.55	2.50	mg/L	102	90.0 - 110	127146999
TCLP Arsenic	2.53	2.50	mg/L	101	90.0 - 110	127147008
TCLP Arsenic	2.54	2.50	mg/L	102	90.0 - 110	127147010
TCLP Barium	2.46	2.50	mg/L	98.4	90.0 - 110	127146984
TCLP Barium	2.50	2.50	mg/L	100	90.0 - 110	127146985
TCLP Barium	2.53	2.50	mg/L	101	90.0 - 110	127146999
TCLP Barium	2.50	2.50	mg/L	100	90.0 - 110	127147008
TCLP Barium	2.50	2.50	mg/L	100	90.0 - 110	127147010
TCLP Cadmium	1.23	1.25	mg/L	98.4	90.0 - 110	127146984
TCLP Cadmium	1.26	1.25	mg/L	101	90.0 - 110	127146985
TCLP Cadmium	1.29	1.25	mg/L	103	90.0 - 110	127146999
TCLP Cadmium	1.27	1.25	mg/L	102	90.0 - 110	127147008

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CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
TCLP Cadmium	1.27	1.25	mg/L	102	90.0 - 110	127147010
TCLP Chromium	2.46	2.50	mg/L	98.4	90.0 - 110	127146984
TCLP Chromium	2.52	2.50	mg/L	101	90.0 - 110	127146985
TCLP Chromium	2.57	2.50	mg/L	103	90.0 - 110	127146999
TCLP Chromium	2.53	2.50	mg/L	101	90.0 - 110	127147008
TCLP Chromium	2.53	2.50	mg/L	101	90.0 - 110	127147010
TCLP Lead	2.44	2.50	mg/L	97.6	90.0 - 110	127146984
TCLP Lead	2.49	2.50	mg/L	99.6	90.0 - 110	127146985
TCLP Lead	2.53	2.50	mg/L	101	90.0 - 110	127146999
TCLP Lead	2.48	2.50	mg/L	99.2	90.0 - 110	127147008
TCLP Lead	2.47	2.50	mg/L	98.8	90.0 - 110	127147010
TCLP Selenium	2.50	2.50	mg/L	100	90.0 - 110	127146984
TCLP Selenium	2.53	2.50	mg/L	101	90.0 - 110	127146985
TCLP Selenium	2.63	2.50	mg/L	105	90.0 - 110	127146999
TCLP Selenium	2.62	2.50	mg/L	105	90.0 - 110	127147008
TCLP Selenium	2.59	2.50	mg/L	104	90.0 - 110	127147010
TCLP Silver	0.507	0.500	mg/L	101	90.0 - 110	127146984
TCLP Silver	0.512	0.500	mg/L	102	90.0 - 110	127146985
TCLP Silver	0.516	0.500	mg/L	103	90.0 - 110	127146999
TCLP Silver	0.510	0.500	mg/L	102	90.0 - 110	127147008
TCLP Silver	0.510	0.500	mg/L	102	90.0 - 110	127147010

ICL

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
TCLP Arsenic	4.98	5.00	mg/L	99.6	95.0 - 105	127146978
TCLP Barium	4.99	5.00	mg/L	99.8	95.0 - 105	127146978
TCLP Cadmium	2.48	2.50	mg/L	99.2	95.0 - 105	127146978
TCLP Chromium	4.95	5.00	mg/L	99.0	95.0 - 105	127146978
TCLP Lead	4.94	5.00	mg/L	98.8	95.0 - 105	127146978
TCLP Selenium	5.02	5.00	mg/L	100	95.0 - 105	127146978
TCLP Silver	0.993	1.00	mg/L	99.3	95.0 - 105	127146978

ICV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
TCLP Arsenic	2.52	2.50	mg/L	101	90.0 - 110	127146982
TCLP Barium	2.55	2.50	mg/L	102	90.0 - 110	127146982
TCLP Cadmium	1.26	1.25	mg/L	101	90.0 - 110	127146982
TCLP Chromium	2.57	2.50	mg/L	103	90.0 - 110	127146982
TCLP Lead	2.52	2.50	mg/L	101	90.0 - 110	127146982
TCLP Selenium	2.57	2.50	mg/L	103	90.0 - 110	127146982
TCLP Silver	0.527	0.500	mg/L	105	90.0 - 110	127146982

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
TCLP Arsenic	1152975	0.525	0.509	0.500	87.8 - 119	105	102	mg/L	3.09	30.0
TCLP Barium	1152975	0.485	0.479	0.500	86.1 - 118	97.0	95.8	mg/L	1.24	30.0

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LCS Dup

Parameter	PrepSet	LCS	LCSD		Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
TCLP Cadmium	1152975	0.252	0.249		0.250	85.7 - 117	101	99.6	mg/L	1.20	30.0
TCLP Chromium	1152975	0.521	0.507		0.500	93.8 - 121	104	101	mg/L	2.72	30.0
TCLP Lead	1152975	0.501	0.487		0.500	85.0 - 123	100	97.4	mg/L	2.83	30.0
TCLP Selenium	1152975	0.522	0.517		0.500	81.8 - 123	104	103	mg/L	0.962	30.0
TCLP Silver	1152975	0.104	0.103		0.100	80.4 - 123	104	103	mg/L	0.966	30.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
TCLP Arsenic	2365872	2.65	2.61	ND	2.50	73.8 - 133	106	104	mg/L	1.52	30.0
TCLP Barium	2365872	2.59	2.56	ND	2.50	73.3 - 125	104	102	mg/L	1.17	30.0
TCLP Cadmium	2365872	1.31	1.30	ND	1.25	47.5 - 140	105	104	mg/L	0.766	30.0
TCLP Chromium	2365872	2.72	2.70	ND	2.50	83.9 - 121	109	108	mg/L	0.738	30.0
TCLP Lead	2365872	2.62	2.62	ND	2.50	71.8 - 120	105	105	mg/L	0	30.0
TCLP Selenium	2365872	2.60	2.60	ND	2.50	59.3 - 142	104	104	mg/L	0	30.0
TCLP Silver	2365872	0.534	0.530	ND	0.500	72.3 - 126	107	106	mg/L	0.752	30.0

Analytical Set 1154106 — EPA 6020A

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Arsenic, Total	1153570	ND	0.000492	0.002	mg/kg	127168142
Nickel, Total	1153570	0.000424	0.000336	0.001	mg/kg	127168142

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Arsenic, Total	0.053	0.05	mg/kg	106	90.0 - 110	127168102
Arsenic, Total	0.0512	0.05	mg/kg	102	90.0 - 110	127168130
Arsenic, Total	0.0511	0.05	mg/kg	102	90.0 - 110	127168138
Arsenic, Total	0.0518	0.05	mg/kg	104	90.0 - 110	127168149
Arsenic, Total	0.0512	0.05	mg/kg	102	90.0 - 110	127168155
Nickel, Total	0.0515	0.05	mg/kg	103	90.0 - 110	127168102
Nickel, Total	0.0475	0.05	mg/kg	95.0	90.0 - 110	127168138
Nickel, Total	0.0463	0.05	mg/kg	92.6	90.0 - 110	127168149
Nickel, Total	0.0462	0.05	mg/kg	92.4	90.0 - 110	127168155

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Arsenic, Total	0.0507	0.05	mg/kg	101	90.0 - 110	127168095
Nickel, Total	0.0499	0.05	mg/kg	99.8	90.0 - 110	127168095

LCS Dup

Parameter	PrepSet	LCS	LCSD		Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Arsenic, Total	1153570	2.29	2.60		2.50	80.0 - 120	91.6	104	mg/kg	12.7	20.0
Nickel, Total	1153570	2.04	2.27		2.50	80.0 - 120	81.6	90.8	mg/kg	10.7	20.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%

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MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Arsenic, Total	2364154	38.0	37.7	2.28	35.7	67.5 - 123	96.8	96.0	mg/kg	0.843	20.0
Nickel, Total	2364154	32.4	31.9	1.24	35.7	76.5 - 121	84.4	83.1	mg/kg	1.62	20.0
Arsenic, Total	2365199	37.4	34.3	0.840	36.8	67.5 - 123	94.5	86.5	mg/kg	8.85	20.0
Nickel, Total	2365199	34.8	32.8	2.84	36.8	76.5 - 121	82.6	77.4	mg/kg	6.46	20.0

Analytical Set 1154494 — EPA 6020A

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Chromium, Total	1153570	ND	0.000409	0.001	mg/kg	127176794

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Chromium, Total	0.0497	0.05	mg/kg	99.4	90.0 - 110	127176772
Chromium, Total	0.0509	0.05	mg/kg	102	90.0 - 110	127176797
Chromium, Total	0.0519	0.05	mg/kg	104	90.0 - 110	127176804

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Chromium, Total	0.0504	0.05	mg/kg	101	90.0 - 110	127176767

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Chromium, Total	1153570	2.41	2.55	2.50	80.0 - 120	96.4	102	mg/kg	5.65	20.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Chromium, Total	2364154	42.8	38.1	2.04	35.7	80.1 - 122	110	97.7	mg/kg	12.2	20.0
Chromium, Total	2365199	49.7	46.0	5.44	36.8	80.1 - 122	114	105	mg/kg	8.72	20.0

Analytical Set 1153186 — EPA 8260B

BFB

Parameter	Sample	RefMass	Reading	%	Limits%	File
BFB Mass 173	1153186	174	4	0.4	0 - 2.00	127149401
BFB Mass 174	1153186	95.0	878	51.7	50.0 - 100	127149401
BFB Mass 175	1153186	174	61	7.0	5.00 - 9.00	127149401
BFB Mass 176	1153186	174	876	99.8	95.0 - 101	127149401
BFB Mass 177	1153186	176	51	5.8	5.00 - 9.00	127149401
BFB Mass 50	1153186	95.0	285	16.8	15.0 - 40.0	127149401
BFB Mass 75	1153186	95.0	834	49.1	30.0 - 60.0	127149401
BFB Mass 95	1153186	95.0	1697	100.0	100 - 100	127149401
BFB Mass 96	1153186	95.0	101	6.0	5.00 - 9.00	127149401

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP 1,1-Dichloroethene	1153186	ND	0.000812	0.001	mg/L	127149405
TCLP 1,1-Dichloroethene	1153186	ND	0.000812	0.001	mg/L	127149409

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Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
TCLP 1,1-Dichloroethene	1153186	ND	0.000812	0.001	mg/L	127149416
TCLP 1,2-Dichloroethane	1153186	ND	0.000856	0.001	mg/L	127149405
TCLP 1,2-Dichloroethane	1153186	ND	0.000856	0.001	mg/L	127149409
TCLP 1,2-Dichloroethane	1153186	ND	0.000856	0.001	mg/L	127149416
TCLP 1,4 Dichlorobenzene	1153186	ND	0.000865	0.001	mg/L	127149405
TCLP 1,4 Dichlorobenzene	1153186	ND	0.000865	0.001	mg/L	127149409
TCLP 1,4 Dichlorobenzene	1153186	ND	0.000865	0.001	mg/L	127149416
TCLP Benzene	1153186	ND	0.000813	0.001	mg/L	127149405
TCLP Benzene	1153186	ND	0.000813	0.001	mg/L	127149409
TCLP Benzene	1153186	ND	0.000813	0.001	mg/L	127149416
TCLP Carbon tetrachloride	1153186	ND	0.000825	0.001	mg/L	127149405
TCLP Carbon tetrachloride	1153186	ND	0.000825	0.001	mg/L	127149409
TCLP Carbon tetrachloride	1153186	ND	0.000825	0.001	mg/L	127149416
TCLP Chlorobenzene	1153186	ND	0.000945	0.001	mg/L	127149405
TCLP Chlorobenzene	1153186	ND	0.000945	0.001	mg/L	127149409
TCLP Chlorobenzene	1153186	ND	0.000945	0.001	mg/L	127149416
TCLP Chloroform	1153186	ND	0.000945	0.001	mg/L	127149405
TCLP Chloroform	1153186	ND	0.000945	0.001	mg/L	127149409
TCLP Chloroform	1153186	ND	0.000945	0.001	mg/L	127149416
TCLP MEK	1153186	ND	0.00654	0.010	mg/L	127149405
TCLP MEK	1153186	ND	0.00654	0.010	mg/L	127149409
TCLP MEK	1153186	ND	0.00654	0.010	mg/L	127149416
TCLP Tetrachloroethylene	1153186	ND	0.000921	0.001	mg/L	127149405
TCLP Tetrachloroethylene	1153186	ND	0.000921	0.001	mg/L	127149409
TCLP Tetrachloroethylene	1153186	ND	0.000921	0.001	mg/L	127149416
TCLP Trichloroethylene	1153186	ND	0.000789	0.001	mg/L	127149405
TCLP Trichloroethylene	1153186	ND	0.000789	0.001	mg/L	127149409
TCLP Trichloroethylene	1153186	ND	0.000789	0.001	mg/L	127149416
TCLP Vinyl chloride	1153186	ND	0.00104	0.00104	mg/L	127149405
TCLP Vinyl chloride	1153186	ND	0.00104	0.00104	mg/L	127149409
TCLP Vinyl chloride	1153186	ND	0.00104	0.00104	mg/L	127149416

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
TCLP 1,1-Dichloroethene	0.0207	0.020	mg/L	104	70.0 - 130	127149402
TCLP 1,2-Dichloroethane	0.0216	0.020	mg/L	108	70.0 - 130	127149402
TCLP 1,4 Dichlorobenzene	0.0204	0.020	mg/L	102	70.0 - 130	127149402
TCLP Benzene	0.0226	0.020	mg/L	113	70.0 - 130	127149402
TCLP Carbon tetrachloride	0.0204	0.020	mg/L	102	70.0 - 130	127149402
TCLP Chlorobenzene	0.0214	0.020	mg/L	107	70.0 - 130	127149402
TCLP Chloroform	0.0217	0.020	mg/L	108	70.0 - 130	127149402
TCLP MEK	0.0238	0.020	mg/L	119	70.0 - 130	127149402
TCLP Tetrachloroethylene	0.0225	0.020	mg/L	112	70.0 - 130	127149402
TCLP Trichloroethylene	0.0209	0.020	mg/L	104	70.0 - 130	127149402
TCLP Vinyl chloride	0.0232	0.020	mg/L	116	70.0 - 130	127149402

CAM5-R

Laguna Madre Water District
Mark A. Garza
105 Port Rd.
Port Isabel, TX 78578-

Project
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IS Areas

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
1,4-DichlorobenzeneD4 (ISTD)	1153186	CCV	100000	100000	70020	130000	127149402	1153186
1,4-DichlorobenzeneD4 (ISTD)	1153186	LCS	97290	100000	70020	130000	127149403	1153186
1,4-DichlorobenzeneD4 (ISTD)	1153186	LCS Dup	93440	100000	70020	130000	127149404	1153186
1,4-DichlorobenzeneD4 (ISTD)	1153186	Blank	87850	100000	70020	130000	127149405	1153186
1,4-DichlorobenzeneD4 (ISTD)	1153186	Blank	98530	100000	70020	130000	127149409	1153186
1,4-DichlorobenzeneD4 (ISTD)	1153186	Blank	92390	100000	70020	130000	127149416	1153186
ChlorobenzeneD5 (ISTD)	1153186	CCV	216000	216000	151200	280800	127149402	1153186
ChlorobenzeneD5 (ISTD)	1153186	LCS	214800	216000	151200	280800	127149403	1153186
ChlorobenzeneD5 (ISTD)	1153186	LCS Dup	198400	216000	151200	280800	127149404	1153186
ChlorobenzeneD5 (ISTD)	1153186	Blank	211300	216000	151200	280800	127149405	1153186
ChlorobenzeneD5 (ISTD)	1153186	Blank	234700	216000	151200	280800	127149409	1153186
ChlorobenzeneD5 (ISTD)	1153186	Blank	224600	216000	151200	280800	127149416	1153186

IS RetTime

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
1,4-DichlorobenzeneD4 (ISTD)	1153186	LCS	11.07	11.07	11.01	11.13	127149403	1153186
1,4-DichlorobenzeneD4 (ISTD)	1153186	LCS Dup	11.07	11.07	11.01	11.13	127149404	1153186
1,4-DichlorobenzeneD4 (ISTD)	1153186	Blank	11.07	11.07	11.01	11.13	127149405	1153186
1,4-DichlorobenzeneD4 (ISTD)	1153186	Blank	11.07	11.07	11.01	11.13	127149409	1153186
1,4-DichlorobenzeneD4 (ISTD)	1153186	Blank	11.07	11.07	11.01	11.13	127149416	1153186
ChlorobenzeneD5 (ISTD)	1153186	LCS	8.714	8.714	8.654	8.774	127149403	1153186
ChlorobenzeneD5 (ISTD)	1153186	LCS Dup	8.714	8.714	8.654	8.774	127149404	1153186
ChlorobenzeneD5 (ISTD)	1153186	Blank	8.715	8.714	8.654	8.774	127149405	1153186
ChlorobenzeneD5 (ISTD)	1153186	Blank	8.714	8.714	8.654	8.774	127149409	1153186
ChlorobenzeneD5 (ISTD)	1153186	Blank	8.714	8.714	8.654	8.774	127149416	1153186

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
TCLP 1,1-Dichloroethene	1153186	0.019	0.0211	0.020	56.7 - 135	95.0	106	mg/L	10.9	30.0
TCLP 1,2-Dichloroethane	1153186	0.0204	0.022	0.020	69.8 - 132	102	110	mg/L	7.55	30.0
TCLP 1,4 Dichlorobenzene	1153186	0.0191	0.0204	0.020	74.8 - 116	95.5	102	mg/L	6.58	30.0
TCLP Benzene	1153186	0.0214	0.0231	0.020	67.1 - 123	107	116	mg/L	8.07	30.0
TCLP Carbon tetrachloride	1153186	0.0197	0.0212	0.020	60.1 - 132	98.5	106	mg/L	7.33	30.0
TCLP Chlorobenzene	1153186	0.020	0.0219	0.020	74.0 - 115	100	110	mg/L	9.52	30.0
TCLP Chloroform	1153186	0.0206	0.022	0.020	71.1 - 128	103	110	mg/L	6.57	30.0
TCLP MEK	1153186	0.0244	0.028	0.020	40.7 - 166	122	140	mg/L	13.7	30.0
TCLP Tetrachloroethylene	1153186	0.0206	0.0236	0.020	71.2 - 126	103	118	mg/L	13.6	30.0
TCLP Trichloroethylene	1153186	0.020	0.0224	0.020	71.4 - 126	100	112	mg/L	11.3	30.0
TCLP Vinyl chloride	1153186	0.0159	0.0185	0.020	18.5 - 155	79.5	92.5	mg/L	15.1	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
1,2-DCA-d4 (SURR)	1153186	CCV	0.018	0.020	mg/L	90.0	74.2 - 132	127149402
1,2-DCA-d4 (SURR)	1153186	LCS	0.0184	0.020	mg/L	92.0	74.2 - 132	127149403
1,2-DCA-d4 (SURR)	1153186	LCS Dup	0.0185	0.020	mg/L	92.5	74.2 - 132	127149404
1,2-DCA-d4 (SURR)	1153186	Blank	0.0186	0.020	mg/L	93.0	74.2 - 132	127149405

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Laguna Madre Water District
Mark A. Garza
105 Port Rd.
Port Isabel, TX 78578-

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Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
1,2-DCA-d4 (SURR)	1153186	Blank	0.0178	0.020	mg/L	89.0	74.2 - 132	127149409
1,2-DCA-d4 (SURR)	1153186	Blank	0.0176	0.020	mg/L	88.0	74.2 - 132	127149416
Bromofluorobenzene (SURR)	1153186	CCV	0.0202	0.020	mg/L	101	77.2 - 134	127149402
Bromofluorobenzene (SURR)	1153186	LCS	0.0205	0.020	mg/L	102	77.2 - 134	127149403
Bromofluorobenzene (SURR)	1153186	LCS Dup	0.0197	0.020	mg/L	98.5	77.2 - 134	127149404
Bromofluorobenzene (SURR)	1153186	Blank	0.0188	0.020	mg/L	94.0	77.2 - 134	127149405
Bromofluorobenzene (SURR)	1153186	Blank	0.0208	0.020	mg/L	104	77.2 - 134	127149409
Bromofluorobenzene (SURR)	1153186	Blank	0.0201	0.020	mg/L	100	77.2 - 134	127149416
Dibromofluoromethane (SURR)	1153186	CCV	0.018	0.020	mg/L	90.0	67.2 - 122	127149402
Dibromofluoromethane (SURR)	1153186	LCS	0.0182	0.020	mg/L	91.0	67.2 - 122	127149403
Dibromofluoromethane (SURR)	1153186	LCS Dup	0.0183	0.020	mg/L	91.5	67.2 - 122	127149404
Dibromofluoromethane (SURR)	1153186	Blank	0.018	0.020	mg/L	90.0	67.2 - 122	127149405
Dibromofluoromethane (SURR)	1153186	Blank	0.017	0.020	mg/L	85.0	67.2 - 122	127149409
Dibromofluoromethane (SURR)	1153186	Blank	0.017	0.020	mg/L	85.0	67.2 - 122	127149416
ToluneneD8 (SURR)	1153186	CCV	0.0193	0.020	mg/L	96.5	69.2 - 122	127149402
ToluneneD8 (SURR)	1153186	LCS	0.0191	0.020	mg/L	95.5	69.2 - 122	127149403
ToluneneD8 (SURR)	1153186	LCS Dup	0.0193	0.020	mg/L	96.5	69.2 - 122	127149404
ToluneneD8 (SURR)	1153186	Blank	0.0184	0.020	mg/L	92.0	69.2 - 122	127149405
ToluneneD8 (SURR)	1153186	Blank	0.0189	0.020	mg/L	94.5	69.2 - 122	127149409
ToluneneD8 (SURR)	1153186	Blank	0.019	0.020	mg/L	95.0	69.2 - 122	127149416
1,2-DCA-d4 (SURR)	2365200	Unknown	0.018	0.020	mg/L	90.0	74.2 - 132	127149417
Bromofluorobenzene (SURR)	2365200	Unknown	0.0189	0.020	mg/L	94.5	77.2 - 134	127149417
Dibromofluoromethane (SURR)	2365200	Unknown	0.0183	0.020	mg/L	91.5	67.2 - 122	127149417
ToluneneD8 (SURR)	2365200	Unknown	0.0182	0.020	mg/L	91.0	69.2 - 122	127149417

Analytical Set 1153366 — EPA 8151

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP 2,4 D	1153004	ND	0.0159	0.050	mg/L	127152550
TCLP 2,4,5-TP (Silvex)	1153004	ND	0.00893	0.030	mg/L	127152550

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP 2,4 D	0.146	0.150	mg/L	97.5	70.0 - 130	127152549
TCLP 2,4 D	0.157	0.150	mg/L	105	70.0 - 130	127152565
TCLP 2,4,5-TP (Silvex)	0.148	0.150	mg/L	98.3	70.0 - 130	127152549
TCLP 2,4,5-TP (Silvex)	0.160	0.150	mg/L	106	70.0 - 130	127152565

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
TCLP 2,4 D	1153004	0.110	0.103	0.100	2.06 - 194	110	103	mg/L	6.57	30.0
TCLP 2,4,5-TP (Silvex)	1153004	0.0944	0.0924	0.100	19.3 - 162	94.4	92.4	mg/L	2.14	30.0

MS

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
TCLP 2,4 D	2364149	0.784	0	ND	1.00	0.100 - 228	78.4		mg/L		30.0

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MS

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
TCLP 2,4,5-TP (Silvex)	2364149	0.799	0	ND	1.00	2.02 - 165	79.9		mg/L		30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
2,4-Dichlorophenylacetic Acid		CCV	0.157	0.200	mg/L	78.5	0.100 - 294	127152549
2,4-Dichlorophenylacetic Acid		CCV	0.169	0.200	mg/L	84.5	0.100 - 294	127152565
2,4-Dichlorophenylacetic Acid	1153004	Blank	0.0973	0.200	mg/L	48.6	0.100 - 294	127152550
2,4-Dichlorophenylacetic Acid	1153004	LCS	0.094	0.200	mg/L	47.0	0.100 - 294	127152551
2,4-Dichlorophenylacetic Acid	1153004	LCS Dup	0.0964	0.200	mg/L	48.2	0.100 - 294	127152552
2,4-Dichlorophenylacetic Acid	2364149	MS	0.867	2.00	mg/L	43.4	0.100 - 294	127152560
2,4-Dichlorophenylacetic Acid	2365200	Unknown	0.737	2.00	mg/L	36.8	0.100 - 294	127152562

Analytical Set 1153466 — EPA 8260B

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
TCLP 1,1-Dichloroethene	2365455	0.170	0.158	0.0183	0.200	0.100 - 168	75.8	69.8	mg/L	8.24	30.0
TCLP 1,2-Dichloroethane	2365455	0.138	0.142	0.0183	0.200	48.4 - 134	59.8	61.8	mg/L	3.29	30.0
TCLP 1,4 Dichlorobenzene	2365455	0.154	0.160	0.0183	0.200	45.4 - 121	67.8	70.8	mg/L	4.33	30.0
TCLP Benzene	2365455	0.174	0.168	0.0183	0.200	5.00 - 119	77.8	74.8	mg/L	3.93	30.0
TCLP Carbon tetrachloride	2365455	0.136	0.133	0.0183	0.200	0.100 - 164	58.8	57.4	mg/L	2.58	30.0
TCLP Chlorobenzene	2365455	0.150	0.148	0.0183	0.200	32.5 - 130	65.8	64.8	mg/L	1.53	30.0
TCLP Chloroform	2365455	0.144	0.138	0.0183	0.200	22.1 - 141	62.8	59.8	mg/L	4.89	30.0
TCLP MEK	2365455	0.171	0.171	0.0183	0.200	9.88 - 197	76.4	76.4	mg/L	0	30.0
TCLP Tetrachloroethylene	2365455	0.154	0.148	0.0183	0.200	0.100 - 157	67.8	64.8	mg/L	4.52	30.0
TCLP Trichloroethylene	2365455	0.160	0.157	0.0183	0.200	0.100 - 161	70.8	69.4	mg/L	2.14	30.0
TCLP Vinyl chloride	2365455	0.156	0.146	0.0183	0.200	0.100 - 197	68.8	63.8	mg/L	7.54	30.0

Analytical Set 1153773 — EPA 8082

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
PCB-1016	1153580	ND	43.0	250	ug/kg	127161726
PCB-1221	1153580	ND	43.0	250	ug/kg	127161726
PCB-1232	1153580	ND	43.0	250	ug/kg	127161726
PCB-1242	1153580	ND	43.0	250	ug/kg	127161726
PCB-1248	1153580	ND	43.0	250	ug/kg	127161726
PCB-1254	1153580	ND	43.0	250	ug/kg	127161726
PCB-1260	1153580	ND	43.0	250	ug/kg	127161726

CCV

Parameter	Reading	Known	Units	Recover%	Limits%		File
PCB-1016	1200	1000	ug/kg	120	80.0 - 120		127161725
PCB-1016	908	1000	ug/kg	90.8	80.0 - 120		127161741
PCB-1260	1130	1000	ug/kg	113	80.0 - 120		127161725
PCB-1260	5380	1000	ug/kg	538	80.0 - 120	*	127161741

CAM5-R

Laguna Madre Water District
Mark A. Garza
105 Port Rd.
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LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
PCB-1016	1153580	5790	5850	5000	28.4 - 187	116	117	ug/kg	0.858	30.0
PCB-1260	1153580	5840	5900	5000	22.3 - 183	117	118	ug/kg	0.851	30.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
PCB-1016	2366188	7020	6450	ND	10000	0.100 - 427	70.2	64.5	ug/kg	8.46	30.0
PCB-1260	2366188	6850	6500	ND	10000	0.100 - 470	68.5	65.0	ug/kg	5.24	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Decachlorobiphenyl	1153580	Blank	72.4	100	ug/kg	72.4	10.0 - 200	127161726
Tetrachloro-m-Xylene (Surr)	1153580	Blank	97.4	100	ug/kg	97.4	10.0 - 160	127161726
Decachlorobiphenyl	2365200	Unknown	353	498	ug/kg	70.9	10.0 - 200	127161730
Tetrachloro-m-Xylene (Surr)	2365200	Unknown	459	498	ug/kg	92.2	10.0 - 160	127161730

Analytical Set 1153888 — EPA 8081A

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP Chlordane	1152805	ND	0.0000183	0.00002	mg/L	127163430
TCLP Endrin	1152805	ND	0.000538	0.001	mg/L	127163430
TCLP gamma-BHC (Lindane)	1152805	ND	0.000385	0.001	mg/L	127163430
TCLP Heptachlor	1152805	ND	0.000207	0.001	mg/L	127163430
TCLP Heptachlor Epoxide	1152805	ND	0.00066	0.001	mg/L	127163430
TCLP Methoxychlor	1152805	ND	0.000898	0.001	mg/L	127163430
TCLP Toxaphene	1152805	ND	0.000169	0.0002	mg/L	127163430
TCLP Chlordane	1153416	ND	0.0000183	0.00002	mg/L	127163427
TCLP Endrin	1153416	ND	0.000538	0.001	mg/L	127163427
TCLP gamma-BHC (Lindane)	1153416	ND	0.000385	0.001	mg/L	127163427
TCLP Heptachlor	1153416	0.00062	0.000207	0.001	mg/L	127163427
TCLP Heptachlor Epoxide	1153416	ND	0.00066	0.001	mg/L	127163427
TCLP Methoxychlor	1153416	ND	0.000898	0.001	mg/L	127163427
TCLP Toxaphene	1153416	ND	0.000169	0.0002	mg/L	127163427

CCV

Parameter	Reading	Known	Units	Recover%	Limits%		File
TCLP Endrin	0.0557	0.050	mg/L	111	70.0 - 130		127163426
TCLP gamma-BHC (Lindane)	0.0528	0.050	mg/L	106	70.0 - 130		127163426
TCLP Heptachlor	0.0557	0.050	mg/L	111	70.0 - 130		127163426
TCLP Heptachlor Epoxide	0.0522	0.050	mg/L	104	70.0 - 130		127163426
TCLP Methoxychlor	0.054	0.050	mg/L	108	70.0 - 130		127163426
TCLP Endrin	0.0738	0.050	mg/L	148	70.0 - 130	*	127163434
TCLP Endrin	0.0674	0.050	mg/L	135	70.0 - 130	*	127163439
TCLP gamma-BHC (Lindane)	0.0718	0.050	mg/L	144	70.0 - 130	*	127163434
TCLP gamma-BHC (Lindane)	0.0652	0.050	mg/L	130	70.0 - 130		127163439
TCLP Heptachlor	0.0738	0.050	mg/L	148	70.0 - 130	*	127163434
TCLP Heptachlor	0.0702	0.050	mg/L	140	70.0 - 130	*	127163439

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CCV

Parameter	Reading	Known	Units	Recover%	Limits%		File
TCLP Heptachlor Epoxide	0.0708	0.050	mg/L	142	70.0 - 130	*	127163434
TCLP Heptachlor Epoxide	0.0656	0.050	mg/L	131	70.0 - 130	*	127163439
TCLP Methoxychlor	0.0924	0.050	mg/L	185	70.0 - 130	*	127163434
TCLP Methoxychlor	0.0914	0.050	mg/L	183	70.0 - 130	*	127163439

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
TCLP Endrin	1153416	0.0537	0.0566	0.100	42.6 - 137	53.7	56.6	mg/L	5.26	30.0
TCLP gamma-BHC (Lindane)	1153416	0.0466	0.0522	0.100	33.0 - 129	46.6	52.2	mg/L	11.3	30.0
TCLP Heptachlor	1153416	0.047	0.0531	0.100	24.2 - 129	47.0	53.1	mg/L	12.2	30.0
TCLP Heptachlor Epoxide	1153416	0.0462	0.0516	0.100	40.8 - 128	46.2	51.6	mg/L	11.0	30.0
TCLP Methoxychlor	1153416	0.0678	0.0595	0.100	33.3 - 146	67.8	59.5	mg/L	13.0	30.0

MS

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
TCLP Endrin	2366178	0.00301	0	ND	0.005	24.3 - 151	60.2		mg/L		30.0
TCLP gamma-BHC (Lindane)	2366178	0.00305	0	ND	0.005	21.3 - 144	61.0		mg/L		30.0
TCLP Heptachlor	2366178	0.00283	0	ND	0.005	14.9 - 138	56.6		mg/L		30.0
TCLP Heptachlor Epoxide	2366178	0.00299	0	ND	0.005	29.9 - 133	59.8		mg/L		30.0
TCLP Methoxychlor	2366178	0.00504	0	ND	0.005	10.3 - 183	101		mg/L		30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Decachlorobiphenyl	627643	CCV	0.0526	0.100	mg/L	52.6	10.0 - 150	127163426
Tetrachloro-m-Xylene (Surr)	627643	CCV	0.050	0.100	mg/L	50.0	10.0 - 150	127163426
Decachlorobiphenyl	628878	CCV	0.0613	0.100	mg/L	61.3	10.0 - 150	127163434
Decachlorobiphenyl	628878	CCV	0.0625	0.100	mg/L	62.5	10.0 - 150	127163439
Tetrachloro-m-Xylene (Surr)	628878	CCV	0.0526	0.100	mg/L	52.6	10.0 - 150	127163434
Tetrachloro-m-Xylene (Surr)	628878	CCV	0.0566	0.100	mg/L	56.6	10.0 - 150	127163439
Decachlorobiphenyl	1152805	Blank	0.0735	0.100	mg/L	73.5	10.0 - 150	127163430
Tetrachloro-m-Xylene (Surr)	1152805	Blank	0.0379	0.100	mg/L	37.9	10.0 - 150	127163430
Decachlorobiphenyl	1153416	Blank	0.0421	0.100	mg/L	42.1	10.0 - 150	127163427
Decachlorobiphenyl	1153416	LCS	0.0444	0.100	mg/L	44.4	10.0 - 150	127163428
Decachlorobiphenyl	1153416	LCS Dup	0.0468	0.100	mg/L	46.8	10.0 - 150	127163429
Tetrachloro-m-Xylene (Surr)	1153416	Blank	0.0383	0.100	mg/L	38.3	10.0 - 150	127163427
Tetrachloro-m-Xylene (Surr)	1153416	LCS	0.0321	0.100	mg/L	32.1	10.0 - 150	127163428
Tetrachloro-m-Xylene (Surr)	1153416	LCS Dup	0.0407	0.100	mg/L	40.7	10.0 - 150	127163429
Decachlorobiphenyl	2365200	Unknown	0.00349	0.005	mg/L	69.8	10.0 - 150	127163431
Tetrachloro-m-Xylene (Surr)	2365200	Unknown	0.00179	0.005	mg/L	35.8	10.0 - 150	127163431
Decachlorobiphenyl	2366178	MS	0.0027	0.005	mg/L	54.0	10.0 - 150	127163438
Tetrachloro-m-Xylene (Surr)	2366178	MS	0.00176	0.005	mg/L	35.2	10.0 - 150	127163438

Analytical Set 1154193 — EPA 8270C

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP 2,4,5-Trichlorophenol	1152805	ND	0.000961	0.005	mg/L	127169669

CAM5-R

Laguna Madre Water District
Mark A. Garza
105 Port Rd.
Port Isabel, TX 78578-

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Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
TCLP 2,4,6-Trichlorophenol	1152805	ND	0.00124	0.002	mg/L	127169669
TCLP 2,4-Dinitrotoluene	1152805	ND	0.00135	0.002	mg/L	127169669
TCLP 2-Methylphenol (o-Cresol)	1152805	ND	0.00848	0.010	mg/L	127169669
TCLP 3&4-Methylphenol (m&p-Creso	1152805	ND	0.00778	0.008	mg/L	127169669
TCLP Hexachlorobenzene	1152805	ND	0.000871	0.001	mg/L	127169669
TCLP Hexachlorobutadiene	1152805	ND	0.00103	0.00103	mg/L	127169669
TCLP Hexachloroethane	1152805	ND	0.00105	0.002	mg/L	127169669
TCLP Nitrobenzene	1152805	ND	0.000271	0.001	mg/L	127169669
TCLP Pentachlorophenol	1152805	ND	0.00096	0.005	mg/L	127169669
TCLP Pyridine (Reg. Limit 5)	1152805	ND	0.00135	0.00135	mg/L	127169669
TCLP 2,4,5-Trichlorophenol	1152997	ND	0.000961	0.005	mg/L	127169666
TCLP 2,4,6-Trichlorophenol	1152997	ND	0.00124	0.002	mg/L	127169666
TCLP 2,4-Dinitrotoluene	1152997	ND	0.00135	0.002	mg/L	127169666
TCLP 2-Methylphenol (o-Cresol)	1152997	ND	0.00848	0.010	mg/L	127169666
TCLP 3&4-Methylphenol (m&p-Creso	1152997	ND	0.00778	0.008	mg/L	127169666
TCLP Hexachlorobenzene	1152997	ND	0.000871	0.001	mg/L	127169666
TCLP Hexachlorobutadiene	1152997	ND	0.00103	0.00103	mg/L	127169666
TCLP Hexachloroethane	1152997	ND	0.00105	0.002	mg/L	127169666
TCLP Nitrobenzene	1152997	ND	0.000271	0.001	mg/L	127169666
TCLP Pentachlorophenol	1152997	ND	0.00096	0.005	mg/L	127169666
TCLP Pyridine (Reg. Limit 5)	1152997	ND	0.00135	0.00135	mg/L	127169666

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
TCLP 2,4,5-Trichlorophenol	49.7	50.0	mg/L	99.4	70.0 - 130	127169664
TCLP 2,4,6-Trichlorophenol	48.4	50.0	mg/L	96.8	70.0 - 130	127169664
TCLP 2,4-Dinitrotoluene	57.3	50.0	mg/L	115	70.0 - 130	127169664
TCLP 2-Methylphenol (o-Cresol)	47.6	50.0	mg/L	95.2	70.0 - 130	127169664
TCLP 3&4-Methylphenol (m&p-Creso	51.1	50.0	mg/L	102	70.0 - 130	127169664
TCLP Hexachlorobenzene	46.9	50.0	mg/L	93.9	70.0 - 130	127169664
TCLP Hexachlorobutadiene	52.0	50.0	mg/L	104	70.0 - 130	127169664
TCLP Hexachloroethane	50.0	50.0	mg/L	99.9	70.0 - 130	127169664
TCLP Nitrobenzene	46.0	50.0	mg/L	92.0	70.0 - 130	127169664
TCLP Pentachlorophenol	52.0	50.0	mg/L	104	70.0 - 130	127169664
TCLP Pyridine (Reg. Limit 5)	48.0	50.0	mg/L	96.1	70.0 - 130	127169664

DFTPP

Parameter		RefMass	Reading	%	Limits%	File
DFTPP Mass 127	628829	198	147352	54.0	40.0 - 60.0	127169663
DFTPP Mass 197	628829	198	0	0.0	0 - 1.00	127169663
DFTPP Mass 198	628829	198	272667	100.0	100 - 100	127169663
DFTPP Mass 199	628829	198	18540	6.8	5.00 - 9.00	127169663
DFTPP Mass 275	628829	198	63643	23.3	10.0 - 30.0	127169663
DFTPP Mass 365	628829	198	9224	3.4	1.00 - 100	127169663
DFTPP Mass 441	628829	443	26109	81.6	0 - 100	127169663

CAM5-R

Laguna Madre Water District
Mark A. Garza
105 Port Rd.
Port Isabel, TX 78578-

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DFTPP

Parameter		*RefMass*	*Reading*	*%*	*Limits%*	*File*
DFTPP Mass 442	628829	198	167403	61.4	40.0 - 100	127169663
DFTPP Mass 443	628829	442	32000	19.1	17.0 - 23.0	127169663
DFTPP Mass 51	628829	198	86349	31.7	30.0 - 60.0	127169663
DFTPP Mass 68	628829	69.0	140	0.1	0 - 2.00	127169663
DFTPP Mass 69	628829	198	101943	37.4	0 - 100	127169663
DFTPP Mass 70	628829	69.0	492	0.5	0 - 2.00	127169663

IS Areas

Parameter	*Sample*	*Type*	*Reading*	*CCVISM*	*Low*	*High*	*File*	*PrepSet*
1,4-Dichlorobenzene-d4-ISTD	627853	CCV	366700	366700	183400	550100	127169664	627853
Acenaphthene-d10-ISTD	627853	CCV	898900	898900	449400	1348000	127169664	627853
Naphthalene-d8-ISTD	627853	CCV	1380000	1380000	690000	2070000	127169664	627853
Phenanthrene-d10-ISTD	627853	CCV	1650000	1650000	825200	2476000	127169664	627853
1,4-Dichlorobenzene-d4-ISTD	1152805	Blank	306500	366700	183400	550100	127169669	1152805
Acenaphthene-d10-ISTD	1152805	Blank	677400	898900	449400	1348000	127169669	1152805
Naphthalene-d8-ISTD	1152805	Blank	1177000	1380000	690000	2070000	127169669	1152805
Phenanthrene-d10-ISTD	1152805	Blank	1078000	1650000	825200	2476000	127169669	1152805
1,4-Dichlorobenzene-d4-ISTD	1152997	Blank	317400	366700	183400	550100	127169666	1152997
1,4-Dichlorobenzene-d4-ISTD	1152997	LCS	336500	366700	183400	550100	127169667	1152997
1,4-Dichlorobenzene-d4-ISTD	1152997	LCS Dup	309800	366700	183400	550100	127169668	1152997
Acenaphthene-d10-ISTD	1152997	Blank	664500	898900	449400	1348000	127169666	1152997
Acenaphthene-d10-ISTD	1152997	LCS	716600	898900	449400	1348000	127169667	1152997
Acenaphthene-d10-ISTD	1152997	LCS Dup	640300	898900	449400	1348000	127169668	1152997
Naphthalene-d8-ISTD	1152997	Blank	1169000	1380000	690000	2070000	127169666	1152997
Naphthalene-d8-ISTD	1152997	LCS	1237000	1380000	690000	2070000	127169667	1152997
Naphthalene-d8-ISTD	1152997	LCS Dup	1117000	1380000	690000	2070000	127169668	1152997
Phenanthrene-d10-ISTD	1152997	Blank	1013000	1650000	825200	2476000	127169666	1152997
Phenanthrene-d10-ISTD	1152997	LCS	1110000	1650000	825200	2476000	127169667	1152997
Phenanthrene-d10-ISTD	1152997	LCS Dup	969300	1650000	825200	2476000	127169668	1152997
1,4-Dichlorobenzene-d4-ISTD	2365200	Unknown	361200	366700	183400	550100	127169670	1152997
1,4-Dichlorobenzene-d4-ISTD	2365200	MS	313100	366700	183400	550100	127169671	1152997
Acenaphthene-d10-ISTD	2365200	Unknown	755100	898900	449400	1348000	127169670	1152997
Acenaphthene-d10-ISTD	2365200	MS	662000	898900	449400	1348000	127169671	1152997
Naphthalene-d8-ISTD	2365200	Unknown	1314000	1380000	690000	2070000	127169670	1152997
Naphthalene-d8-ISTD	2365200	MS	1141000	1380000	690000	2070000	127169671	1152997
Phenanthrene-d10-ISTD	2365200	Unknown	1119000	1650000	825200	2476000	127169670	1152997
Phenanthrene-d10-ISTD	2365200	MS	1078000	1650000	825200	2476000	127169671	1152997

IS RetTime

Parameter	*Sample*	*Type*	*Reading*	*CCVISM*	*Low*	*High*	*File*	*PrepSet*
1,4-Dichlorobenzene-d4-ISTD	627853	CCV	5.217	5.217	5.157	5.277	127169664	627853
Acenaphthene-d10-ISTD	627853	CCV	7.730	7.730	7.670	7.790	127169664	627853
Naphthalene-d8-ISTD	627853	CCV	6.261	6.261	6.201	6.321	127169664	627853
Phenanthrene-d10-ISTD	627853	CCV	8.992	8.992	8.932	9.052	127169664	627853
1,4-Dichlorobenzene-d4-ISTD	1152805	Blank	5.217	5.217	5.157	5.277	127169669	1152805

CAM5-R

Laguna Madre Water District
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IS RetTime

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
Acenaphthene-d10-ISTD	1152805	Blank	7.729	7.730	7.670	7.790	127169669	1152805
Naphthalene-d8-ISTD	1152805	Blank	6.261	6.261	6.201	6.321	127169669	1152805
Phenanthrene-d10-ISTD	1152805	Blank	8.986	8.992	8.932	9.052	127169669	1152805
1,4-Dichlorobenzene-d4-ISTD	1152997	Blank	5.211	5.217	5.157	5.277	127169666	1152997
1,4-Dichlorobenzene-d4-ISTD	1152997	LCS	5.218	5.217	5.157	5.277	127169667	1152997
1,4-Dichlorobenzene-d4-ISTD	1152997	LCS Dup	5.217	5.217	5.157	5.277	127169668	1152997
Acenaphthene-d10-ISTD	1152997	Blank	7.723	7.730	7.670	7.790	127169666	1152997
Acenaphthene-d10-ISTD	1152997	LCS	7.730	7.730	7.670	7.790	127169667	1152997
Acenaphthene-d10-ISTD	1152997	LCS Dup	7.729	7.730	7.670	7.790	127169668	1152997
Naphthalene-d8-ISTD	1152997	Blank	6.255	6.261	6.201	6.321	127169666	1152997
Naphthalene-d8-ISTD	1152997	LCS	6.261	6.261	6.201	6.321	127169667	1152997
Naphthalene-d8-ISTD	1152997	LCS Dup	6.261	6.261	6.201	6.321	127169668	1152997
Phenanthrene-d10-ISTD	1152997	Blank	8.980	8.992	8.932	9.052	127169666	1152997
Phenanthrene-d10-ISTD	1152997	LCS	8.986	8.992	8.932	9.052	127169667	1152997
Phenanthrene-d10-ISTD	1152997	LCS Dup	8.991	8.992	8.932	9.052	127169668	1152997
1,4-Dichlorobenzene-d4-ISTD	2365200	Unknown	5.217	5.217	5.157	5.277	127169670	1152997
1,4-Dichlorobenzene-d4-ISTD	2365200	MS	5.217	5.217	5.157	5.277	127169671	1152997
Acenaphthene-d10-ISTD	2365200	Unknown	7.730	7.730	7.670	7.790	127169670	1152997
Acenaphthene-d10-ISTD	2365200	MS	7.729	7.730	7.670	7.790	127169671	1152997
Naphthalene-d8-ISTD	2365200	Unknown	6.261	6.261	6.201	6.321	127169670	1152997
Naphthalene-d8-ISTD	2365200	MS	6.261	6.261	6.201	6.321	127169671	1152997
Phenanthrene-d10-ISTD	2365200	Unknown	8.986	8.992	8.932	9.052	127169670	1152997
Phenanthrene-d10-ISTD	2365200	MS	8.991	8.992	8.932	9.052	127169671	1152997

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
TCLP 2,4,5-Trichlorophenol	1152997	0.0199	0.0207	0.025	39.3 - 111	79.6	82.8	mg/L	3.94	30.0
TCLP 2,4,6-Trichlorophenol	1152997	0.0191	0.0196	0.025	38.2 - 109	76.4	78.4	mg/L	2.58	30.0
TCLP 2,4-Dinitrotoluene	1152997	0.0173	0.018	0.025	36.3 - 132	69.2	72.0	mg/L	3.97	30.0
TCLP 2-Methylphenol (o-Cresol)	1152997	0.0137	0.0131	0.025	23.0 - 87.8	54.8	52.4	mg/L	4.48	30.0
TCLP 3&4-Methylphenol (m&p-Creso	1152997	0.0109	0.0103	0.025	14.9 - 92.5	43.6	41.2	mg/L	5.66	30.0
TCLP Hexachlorobenzene	1152997	0.0198	0.021	0.025	44.4 - 117	79.2	84.0	mg/L	5.88	30.0
TCLP Hexachlorobutadiene	1152997	0.0155	0.016	0.025	17.2 - 88.9	62.0	64.0	mg/L	3.17	30.0
TCLP Hexachloroethane	1152997	0.0159	0.0158	0.025	14.6 - 88.8	63.6	63.2	mg/L	0.631	30.0
TCLP Nitrobenzene	1152997	0.0195	0.0202	0.025	34.3 - 113	78.0	80.8	mg/L	3.53	30.0
TCLP Pentachlorophenol	1152997	0.0174	0.0183	0.025	15.7 - 129	69.6	73.2	mg/L	5.04	30.0
TCLP Pyridine (Reg. Limit 5)	1152997	0.0106	0.00937	0.025	0.0753 - 83.4	42.4	37.5	mg/L	12.3	30.0

MS

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
TCLP 2,4,5-Trichlorophenol	2365200	0.199	0	0.0091	0.250	33.7 - 116	76.0		mg/L		30.0
TCLP 2,4,6-Trichlorophenol	2365200	0.184	0	0.0091	0.250	20.1 - 131	70.0		mg/L		30.0
TCLP 2,4-Dinitrotoluene	2365200	0.178	0	0.0091	0.250	31.8 - 135	67.6		mg/L		30.0
TCLP 2-Methylphenol (o-Cresol)	2365200	0.130	0	0.0091	0.250	10.6 - 106	52.0		mg/L		30.0
TCLP 3&4-Methylphenol (m&p-Creso	2365200	0.103	0	ND	0.250	0.100 - 149	41.2		mg/L		30.0

CAM5-R

Laguna Madre Water District
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Port Isabel, TX 78578-

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MS

Parameter	*Sample*	*MS*	*MSD*	*UNK*	*Known*	*Limits*	*MS%*	*MSD%*	*Units*	*RPD*	*Limit%*
TCLP Hexachlorobenzene	2365200	0.188	0	0.0091	0.250	35.9 - 125	71.6		mg/L		30.0
TCLP Hexachlorobutadiene	2365200	0.136	0	0.0091	0.250	11.1 - 88.5	50.8		mg/L		30.0
TCLP Hexachloroethane	2365200	0.141	0	0.0091	0.250	8.41 - 88.1	52.8		mg/L		30.0
TCLP Nitrobenzene	2365200	0.188	0	0.0091	0.250	28.7 - 119	71.6		mg/L		30.0
TCLP Pentachlorophenol	2365200	0.186	0	0.0091	0.250	8.33 - 141	70.8		mg/L		30.0
TCLP Pyridine (Reg. Limit 5)	2365200	0.0875	0	0.0091	0.250	0.100 - 97.2	31.4		mg/L		30.0

Surrogate

Parameter	*Sample*	*Type*	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
2,4,6-Tribromophenol	627853	CCV	54.1	100	mg/L	54.1	9.79 - 123	127169664
2-Fluorobiphenyl-SURR	627853	CCV	45.3	50.0	mg/L	90.6	0.100 - 131	127169664
2-Fluorophenol-SURR	627853	CCV	48.3	100	mg/L	48.3	5.36 - 80.2	127169664
4-Terphenyl-d14-SURR	627853	CCV	44.1	50.0	mg/L	88.2	0.100 - 137	127169664
Nitrobenzene-d5-SURR	627853	CCV	48.3	50.0	mg/L	96.6	0.100 - 131	127169664
Phenol-d6-SURR	627853	CCV	47.8	100	mg/L	47.8	0.100 - 66.5	127169664
2,4,6-Tribromophenol	1152805	Blank	2.22	3.33	mg/L	66.7	9.79 - 123	127169669
2-Fluorobiphenyl-SURR	1152805	Blank	32.6	50.0	mg/L	65.2	0.100 - 131	127169669
2-Fluorophenol-SURR	1152805	Blank	35.7	100	mg/L	35.7	5.36 - 80.2	127169669
4-Terphenyl-d14-SURR	1152805	Blank	37.8	50.0	mg/L	75.6	0.100 - 137	127169669
Nitrobenzene-d5-SURR	1152805	Blank	32.7	50.0	mg/L	65.4	0.100 - 131	127169669
Phenol-d6-SURR	1152805	Blank	23.3	100	mg/L	23.3	0.100 - 66.5	127169669
2,4,6-Tribromophenol	1152997	Blank	1.94	3.33	mg/L	58.3	9.79 - 123	127169666
2,4,6-Tribromophenol	1152997	LCS	2.37	3.33	mg/L	71.2	9.79 - 123	127169667
2,4,6-Tribromophenol	1152997	LCS Dup	2.49	3.33	mg/L	74.8	9.79 - 123	127169668
2-Fluorobiphenyl-SURR	1152997	Blank	33.2	50.0	mg/L	66.4	0.100 - 131	127169666
2-Fluorobiphenyl-SURR	1152997	LCS	34.1	50.0	mg/L	68.2	0.100 - 131	127169667
2-Fluorobiphenyl-SURR	1152997	LCS Dup	36.6	50.0	mg/L	73.2	0.100 - 131	127169668
2-Fluorophenol-SURR	1152997	Blank	37.9	100	mg/L	37.9	5.36 - 80.2	127169666
2-Fluorophenol-SURR	1152997	LCS	44.4	100	mg/L	44.4	5.36 - 80.2	127169667
2-Fluorophenol-SURR	1152997	LCS Dup	42.9	100	mg/L	42.9	5.36 - 80.2	127169668
4-Terphenyl-d14-SURR	1152997	Blank	38.8	50.0	mg/L	77.6	0.100 - 137	127169666
4-Terphenyl-d14-SURR	1152997	LCS	37.0	50.0	mg/L	74.0	0.100 - 137	127169667
4-Terphenyl-d14-SURR	1152997	LCS Dup	40.6	50.0	mg/L	81.2	0.100 - 137	127169668
Nitrobenzene-d5-SURR	1152997	Blank	34.2	50.0	mg/L	68.4	0.100 - 131	127169666
Nitrobenzene-d5-SURR	1152997	LCS	37.3	50.0	mg/L	74.6	0.100 - 131	127169667
Nitrobenzene-d5-SURR	1152997	LCS Dup	36.8	50.0	mg/L	73.6	0.100 - 131	127169668
Phenol-d6-SURR	1152997	Blank	23.6	100	mg/L	23.6	0.100 - 66.5	127169666
Phenol-d6-SURR	1152997	LCS	28.1	100	mg/L	28.1	0.100 - 66.5	127169667
Phenol-d6-SURR	1152997	LCS Dup	27.3	100	mg/L	27.3	0.100 - 66.5	127169668
2,4,6-Tribromophenol	2365200	Unknown	0.683	1.00	mg/L	68.3	9.79 - 123	127169670
2,4,6-Tribromophenol	2365200	MS	0.745	1.00	mg/L	74.5	9.79 - 123	127169671
2-Fluorobiphenyl-SURR	2365200	Unknown	0.331	0.500	mg/L	66.2	0.100 - 131	127169670
2-Fluorobiphenyl-SURR	2365200	MS	0.329	0.500	mg/L	65.8	0.100 - 131	127169671
2-Fluorophenol-SURR	2365200	Unknown	0.401	1.00	mg/L	40.1	5.36 - 80.2	127169670
2-Fluorophenol-SURR	2365200	MS	0.405	1.00	mg/L	40.5	5.36 - 80.2	127169671

QUALITY CONTROL

CAM5-R

Laguna Madre Water District
Mark A. Garza
105 Port Rd.
Port Isabel, TX 78578-

Project
1129210

Printed 02/05/2025

Surrogate

Parameter	*Sample*	*Type*	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
4-Terphenyl-d14-SURR	2365200	Unknown	0.403	0.500	mg/L	80.6	0.100 - 137	127169670
4-Terphenyl-d14-SURR	2365200	MS	0.347	0.500	mg/L	69.4	0.100 - 137	127169671
Nitrobenzene-d5-SURR	2365200	Unknown	0.360	0.500	mg/L	72.0	0.100 - 131	127169670
Nitrobenzene-d5-SURR	2365200	MS	0.349	0.500	mg/L	69.8	0.100 - 131	127169671
Phenol-d6-SURR	2365200	Unknown	0.252	1.00	mg/L	25.2	0.100 - 66.5	127169670
Phenol-d6-SURR	2365200	MS	0.252	1.00	mg/L	25.2	0.100 - 66.5	127169671

* 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.); BFB - Bromofluorobenzene, GC/MS Tuning Compound (mass intensity used as tuning acceptance criteria.); 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.); 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.); 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

Email: Kilgore.ProjectManagement@spllabs.com

1129210 CoC Print Group 001 of 001

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

P-UP FEE $ IN Routine TT
SUB:
ALL CLIENT COCs ON SINGLE PROJECT? YES NO

SPL The Science of Sure

CHAIN OF CUSTODY

Printed 04/12/2024 Page 1 of 2

Laguna Madre Water District
Mark A. Garza
105 Port Rd.
Port Isabel, TX 78578-

CAM5-R
147

Lab Number 2361199
PO Number
Phone 956/943-2626

Sludge

Port Isabel WWTP

☑ *Hand Delivered by Client to Region or LAB*

Matrix: Solid & Chemical Materials

Sample Collection Start
Date: 12-16-24 Time: 14:32
Sampler Printed Name: Frank Gamez III - SPL, Inc.
Sampler Affiliation:
Sampler Signature:

Samples Radioactive? ☐ **Samples Contains Dioxin?** ☐ **Samples Biological Hazard?** ☐

1 **Glass 4 oz w/Teflon lined lid**

NELAC	***AsM**	Arsenic, Total	EPA 6020A CAS:7440-38-2 (180 days)
NELAC	***CrM**	Chromium, Total	EPA 6020A CAS:7440-47-3 (180 days)
NELAC	***NiM**	Nickel, Total	EPA 6020A CAS:7440-02-0 (180 days)
NELAC	**301S**	Solid Metals Digestion	EPA 200.2 2.8 (180 days)
	PU85	Sampling/Transport	
NELAC	**TS%**	Total Solids for Dry Wt Conversi	SM2540 G-1997 /MOD

0 **Z -- No bottle required**

ARDW	As Received to Dry Weight Basis	Calculation

Ambient Conditions/Comments

1129210 CoC Print Group 001 of 001

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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CHAIN OF CUSTODY

Printed 04/12/2024 Page 2 of 2

Laguna Madre Water District
Mark A. Garza
105 Port Rd.
Port Isabel, TX 78578-

CAM5-R
147

Date	Time	Relinquished		Received	
12 16 24	17:30	Printed Name: Frank Gamez III - SPL, Inc.	Affiliation	Printed Name: Fedex	Affiliation
		Signature		Signature	
12/17/24	09:45	Printed Name	Affiliation	Printed Name: McCabe Wheeler SPL, Inc.	Affiliation
		Signature: FEDEX		Signature	
		Printed Name	Affiliation	Printed Name	Affiliation
		Signature		Signature	
		Printed Name	Affiliation	Printed Name	Affiliation
		Signature		Signature	

Sample Received on Ice? [X] Yes [ ] No
Cooler/Sample Secure? [X] Yes [ ] No
If Shipped: Tracking Number & Temp - See Attached

The accredited column designates accreditation by A - A2LA, N - NELAC, or z - not listed under scope of accreditation. Unless otherwise specified, ANA-LAB shall provide these ordered services pursuant to our Standard Terms & Conditions Agreement (available for download from the welcome page at <http://www.ana-lab.com>). Ana-Lab personnel collect samples as specified by Ana-Lab SOP #000323.

Comments

1129210 CoC Print Group 001 of 001

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

SPL
The Science of Sure

CHAIN OF CUSTODY

Printed 04/12/2024 Page 1 of 2

Laguna Madre Water District
Mark A. Garza
105 Port Rd.
Port Isabel, TX 78578-

CAM5 -R
129

Lab Number 2703200

PO Number

Phone 956/943-2626

ID

Port Isabel WWTP

☑ Hand Delivered by Client to Region or LAB

Matrix: Solid & Chemical Materials

Sample Collection Start
Date: 12.16.24 Time: 14:30

Sampler Printed Name: Frank Gamez III - SPL, Inc.

Sampler Affiliation:

Sampler Signature:

Samples Radioactive? ☐ Samples Contains Dioxin? ☐ Samples Biological Hazard? ☐

2 Glass Qt w/Teflon lined lid

NELAC	*AgT	TCLP Silver	EPA 6020A CAS:7440-22-4 (14.0 days)
NELAC	*AsT	TCLP Arsenic	EPA 6020A CAS:7440-38-2 (14.0 days)
NELAC	*BaT	TCLP Barium	EPA 6020A CAS:7440-39-3 (14.0 days)
NELAC	*CdT	TCLP Cadmium	EPA 6020A CAS:7440-43-9 (14.0 days)
NELAC	*CrT	TCLP Chromium	EPA 6020A CAS:7440-47-3 (14.0 days)
NELAC	*Hg*	TCLP Mercury	EPA 7470 A CAS:7439-97-6 (14.0 days)
NELAC	*PbT	TCLP Lead	EPA 6020A CAS:7439-92-1 (14.0 days)
NELAC	*SeT	TCLP Selenium	EPA 6020A CAS:7782-49-2 (14.0 days)
NELAC	*TCL	TCLP Extraction Non-Volatile	EPA 1311 (14.0 days)
NELAC	TABN	MS TCLP Semivolatile Analysis	EPA 8270C (7.00 days)
NELAC	TG50	GC TCLP Herbicide	EPA 8151 (7.00 days)
NELAC	TG80	GC TCLP Pesticide	EPA 8081A (7.00 days)
NELAC	TVOA	MS TCLP Volatile Analysis	EPA 8260B (14.0 days)
NELAC	TVOX	TCLP Extraction ZHE Volatiles	EPA 1311ZHE (14.0 days)

1 Glass 4 oz w/Teflon lined lid

1129210 CoC Print Group 001 of 001

2600 Dudley Rd. Kilgore, Texas 75662
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Office: 903-984-0551 * Fax: 903-984-5914

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CHAIN OF CUSTODY

Printed 04/12/2024 Page 2 of 2

Laguna Madre Water District
Mark A. Garza
105 Port Rd.
Port Isabel, TX 78578-
NELAC

CAM5 -R
129

IPCB Polychlorinated Biphenyls EPA 8082 (7.00 days)

Ambient Conditions/Comments

Date	Time	Relinquished	Received
12 16 24	17:30	Printed Name Frank Gamez III - SPL, Inc. Affiliation Signature	Printed Name Affiliation Fedex Signature
12/17/24	0845	Printed Name Affiliation Signature FEDEX	Printed Name McCabe Wheeler SPL, Inc. Affiliation Signature
		Printed Name Affiliation Signature	Printed Name Affiliation Signature
		Printed Name Affiliation Signature	Printed Name Affiliation Signature

Sample Received on Ice? [X] Yes [ ] No
Cooler/Sample Secure? [X] Yes [ ] No **If Shipped: Tracking Number & Temp - See Attached**

The accredited column designates accreditation by A - A2LA, N - NELAC, or z - not listed under scope of accreditation. Unless otherwise specified, ANA-LAB shall provide these ordered services pursuant to our Standard Terms & Conditions Agreement (available for download from the welcome page at <http://www.ana-lab.com>). Ana-Lab personnel collect samples as specified by Ana-Lab SOP #000323.

Comments

1129210 CoC Print Group 001 of 001

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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CHAIN OF CUSTODY

Printed 04/12/2024 Page 1 of 2

Laguna Madre Water District
Mark A. Garza
105 Port Rd.
Port Isabel, TX 78578-

CAM5-R
135

Lab Number 236201

PO Number

Phone 956/943-2626

Sludge

Port Isabel WWTP

☑ *Hand Delivered by Client to Region or LAB*

Matrix: Solid & Chemical Materials

Sample Collection Start

Date: 12.16.24 Time: 14:34

Sampler Printed Name: Frank Gamez III - SPL, Inc.

Sampler Affiliation:

Sampler Signature:

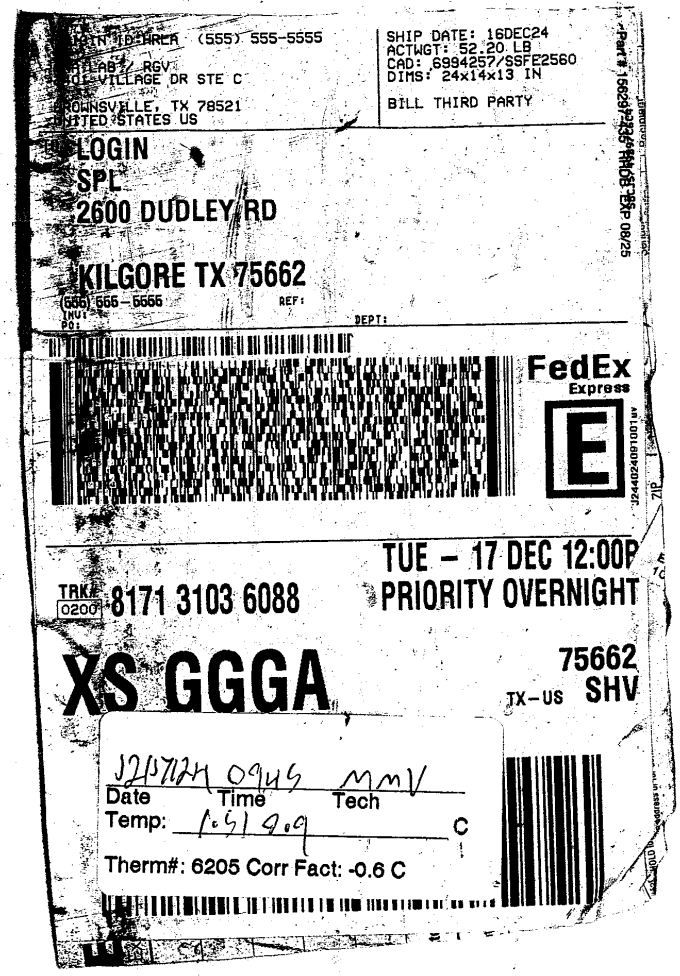
Samples Radioactive? ☐ Samples Contains Dioxin? ☐ Samples Biological Hazard? ☐

1 **Glass 4 oz w/Teflon lined lid**

Short Hold	**OCR**	Oxygen Consumption Rate	SM 2710 B-2004 (2.00 days)
Short Hold	**SOUR**	Specific Oxygen Uptake Rate 20C	SM 2710 B-2011 MOD (2.00 days)
NELAC	**TSS**	Total Suspended Solids	SM 2540 D-2015 (7.00 days)
NELAC	**VSS**	Volatile Suspended Solids	EPA 160.4

Ambient Conditions/Comments

Date	Time	Relinquished	Received
12 16 24	17:30	Printed Name: Frank Gamez III - SPL, Inc. Affiliation:	Printed Name: Affiliation: Fedex
		Signature:	Signature:
12/17/24	0015	Printed Name: Affiliation:	Printed Name: McCabe Wheeler SPL, Inc. Affiliation:
		Signature: FEDEX	Signature:
		Printed Name: Affiliation:	Printed Name: Affiliation:
		Signature:	Signature:
		Printed Name: Affiliation:	Printed Name: Affiliation:
		Signature:	Signature:


SHIP DATE: 16DEC24
ACTWGT: 52.20 LB
CAD: 6984257/SSFE2560
DIMS: 24x14x13 IN
BILL THIRD PARTY
LOGIN
SPL
2600 DUDLEY RD
KILGORE TX 75662
(555) 555-5666
FedEx
Express
TUE - 17 DEC 12:00P
PRIORITY OVERNIGHT
TRK# 8171 3103 6088
0200
XS GGGA
75662
TX-US SHV
12/17/24 0945 MMV
Date Time Tech
Temp: 10.1 9.9 C
Therm#: 6205 Corr Fact: -0.6 C

2.1 Effluent Discharge Limits

The plant discharge is currently in the process of being relocated from the mud flats to the Intercoastal Channel. This change in location will impact the discharge limits. The anticipated design discharge permit limits for the plant modifications and upgrade are shown in Table 1. The discharge limits for total suspended solids (TSS) and five-day carbonaceous biochemical oxygen demand ($CBOD_5$) are not expected to change with the change in discharge location. However, it is anticipated that the ammonia nitrogen (NH_3-N) limits will be lowered. Limits on metals are expected to be less stringent than the current permit limits. The plant modifications and upgrade will be designed to meet these anticipated future discharge requirements.

Table 1 Anticipated Effluent Discharge Limits
Port Isabel Wastewater Treatment Facility Modifications and Upgrade
Laguna Madre Water District

Parameter	Limit, mg/L
$CBOD_5$	10
TSS	15
NH3-N	2
Minimum DO	4

2.2 Design Flows and Loadings

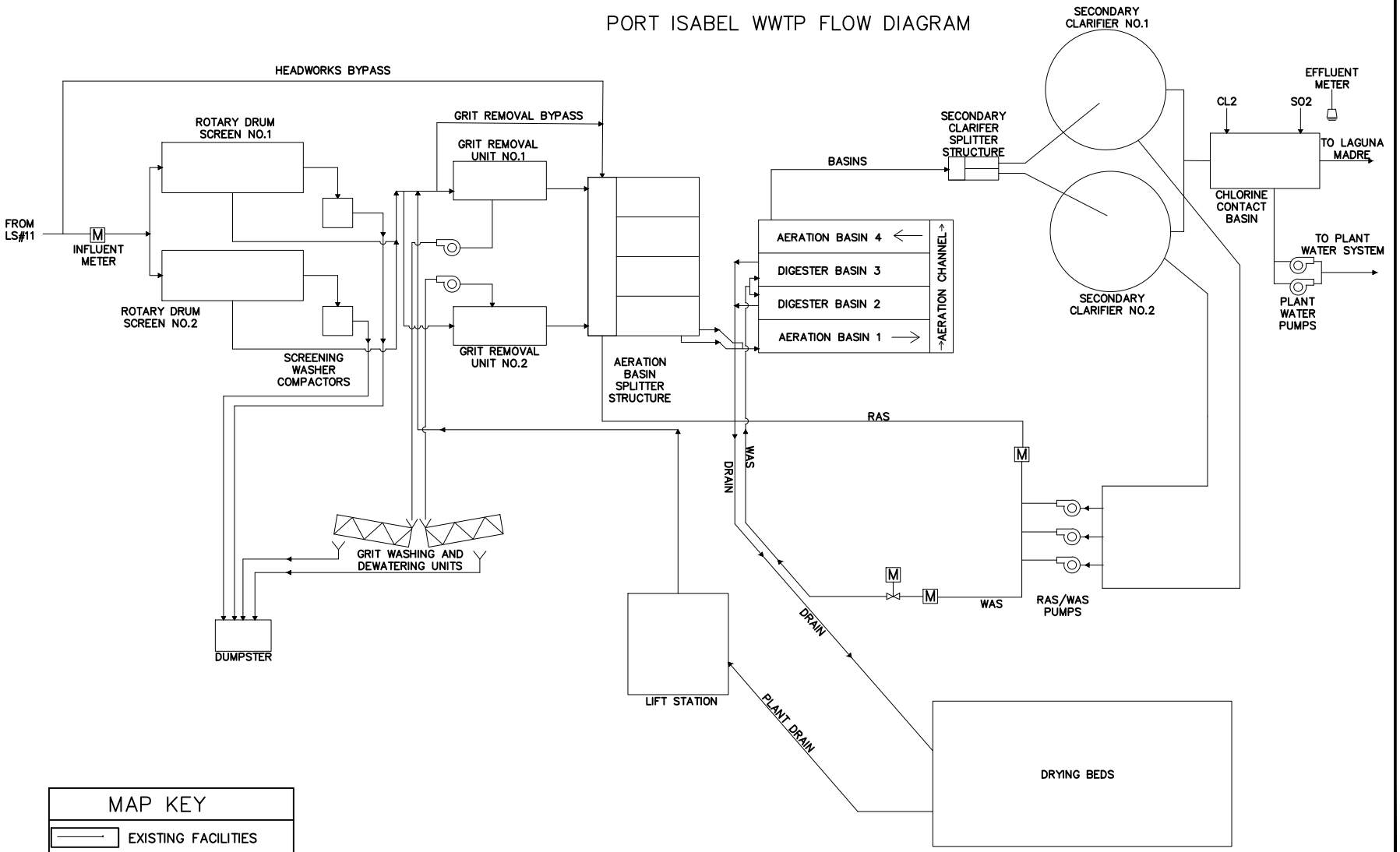
Flow projections for the Port Isabel WWTF service area are shown in Table 2. The current design capacity of the plant is expected to be adequate beyond the year 2035.

Table 2 Projected Wastewater Flows
Port Isabel Wastewater Treatment Facility Modifications and Upgrade
Laguna Madre Water District

Year	Annual Average Daily Flow, mgd
2015	0.80
2020	0.86
2025	0.93
2035	1.0

At the current projected rate of flow increase, the capacity of the upgraded plant is anticipated to be adequate until 2040 (25 years). Converting the existing sludge holding basins to aeration basins and adding a third secondary clarifier will increase the plant capacity to 2.0 mgd. Therefore, some limited accommodations will be included in this project for an AADF beyond 1.1 mgd.

PORT ISABEL WWTP FLOW DIAGRAM

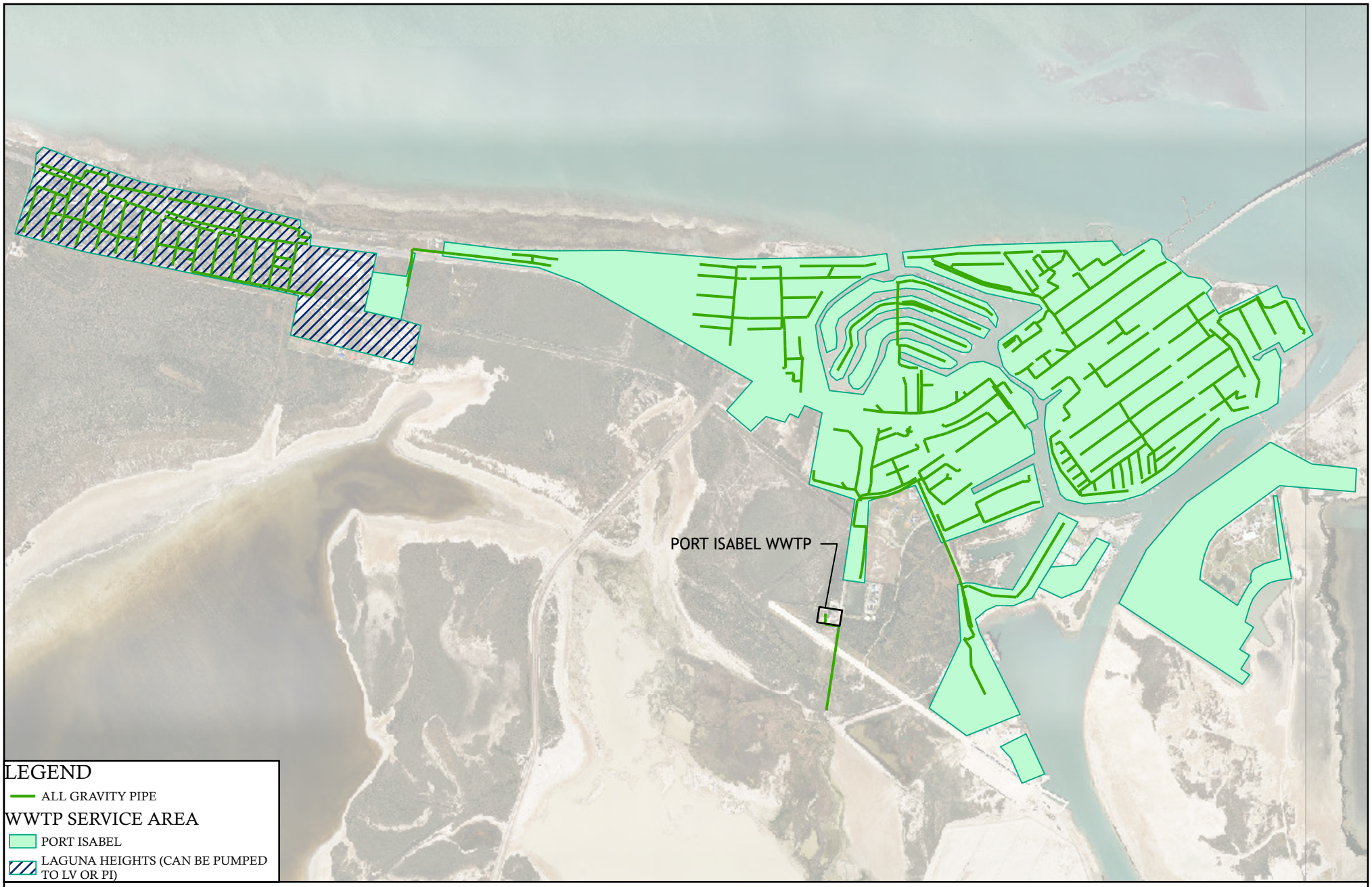


LAGUNA MADRE WATER DISTRICT
PORT ISABEL WASTEWATER TREATMENT PLANT
FLOW DIAGRAM

Sheet: 1 of 1
Date: 12/30/2019

LAGUNA MADRE WATER DISTRICT

105 Port Road
Port Isabel,Texas 78578



LAGUNA MADRE WATER DISTRICT

Laguna Madre Water District
Port Isabel Service Area and Site Plan
Attachment 3: Port Isabel Site Plan

N

N.T.S.