PLUMMER

1107-001-01

March 4, 2020

Texas Commission on Environmental Quality
Applications Review and Processing Team
Building F, Room 2101
12100 Park 35 Circle
Austin, Texas 78753

Re: City of Laredo (CN600131908)
South Laredo Wastewater Treatment Facility (RN103026126)
Application for Renewal of Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010681003

To Whom It May Concern:

On behalf of the City of Laredo, Plummer submits one original and three copies of a renewal application for the above-referenced permit. The application fee of $2,015.00 for the Domestic Wastewater Permit Application and has been submitted to the Texas Commission on Environmental Quality Cashier's Office (MC-214) under a separate cover.

Please feel free to contact me at tkoenings@plummer.com, (512) 687-2148, if you have any questions regarding this submittal.

Sincerely,

PLUMMER
TBPE Firm Registration No. F-13

Tres Koenings
Senior Project Manager

Enclosures: Permit Renewal Application (1 original, 3 copies)

cc: Jose Chavarria, City of Laredo
Carl Scruggs, City of Laredo

RECEIVED
MAR 04 2020
Water Quality Applications Team

6300 La Calma Drive, Suite 400
Austin, Texas 78752
Phone 512.452.5905
Fax 512.452.2325
plummer.com
TBPE Firm No. 13

WATER QUALITY PERMIT

PAYMENT SUBMITTAL FORM

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

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

Mail this form and the check or money order to:

BY REGULAR U.S. MAIL

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

BY OVERNIGHT/EXPRESS MAIL

Texas Commission on Environmental Quality
Financial Administration Division
Cashier's Office, MC-214
12100 Park 35 Circle
Austin, Texas 78753

Fee Code: WQP **Waste Permit No:** WQ0010681003

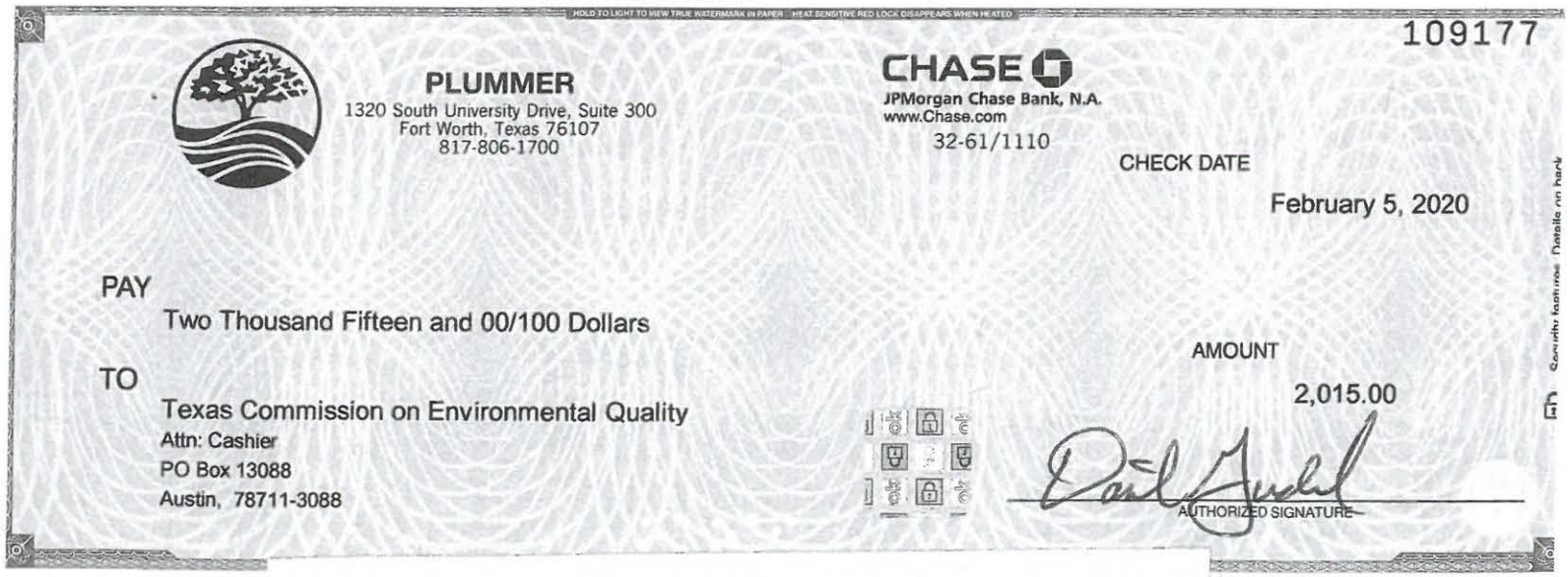
RECEIVED
MAR 04 2020
TCEQ/Revenue Section

1. Check or Money Order Number: 109177
2. Check or Money Order Amount: $2,015.00
3. Date of Check or Money Order: 2/5/2020
4. Name on Check or Money Order: City of Laredo
5. APPLICATION INFORMATION

   Name of Project or Site: South Laredo Wastewater Treatment Facility

   Physical Address of Project or Site: 309 River Front Street, Texas 78046

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



CITY OF LAREDO, TEXAS

TPDES PERMIT NO. WQ0010681003 SOUTH LAREDO WASTEWATER TREATMENT FACILITY TPDES PERMIT RENEWAL APPLICATION

SUBMITTED TO:

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

MARCH 2020

PLUMMER

1107-001-01

CITY OF LAREDO
SOUTH LAREDO WASTEWATER TREATMENT FACILITY
TPDES PERMIT RENEWAL APPLICATION

TABLE OF CONTENTS

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT: City of Laredo

PERMIT NUMBER: WQ0010681003

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

	Y	N		Y	N
Administrative Report 1.0	☒	☐	Original USGS Map	☒	☐
Administrative Report 1.1	☐	☒	Affected Landowners Map	☐	☒
SPIF	☒	☐	Landowner Disk or Labels	☐	☒
Core Data Form	☒	☐	Buffer Zone Map	☐	☒
Technical Report 1.0	☒	☐	Flow Diagram	☒	☐
Technical Report 1.1	☐	☒	Site Drawing	☒	☐
Worksheet 2.0	☒	☐	Original Photographs	☐	☒
Worksheet 2.1	☐	☒	Design Calculations	☐	☒
Worksheet 3.0	☐	☒	Solids Management Plan	☐	☒
Worksheet 3.1	☐	☒	Water Balance	☐	☒
Worksheet 3.2	☐	☒			
Worksheet 3.3	☐	☒			
Worksheet 4.0	☒	☐			
Worksheet 5.0	☒	☐			
Worksheet 6.0	☒	☐			
Worksheet 7.0	☐	☒			

For TCEQ Use Only

Segment Number _____County _____
Expiration Date _____Region _____
Permit Number _____

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

APPLICATION FOR A DOMESTIC WASTEWATER PERMIT ADMINISTRATIVE REPORT 1.0

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

Section 1. Application Fees (Instructions Page 29)

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

Flow	New/Major Amendment	Renewal
<0.05 MGD	$350.00 ☐	$315.00 ☐
≥0.05 but <0.10 MGD	$550.00 ☐	$515.00 ☐
≥0.10 but <0.25 MGD	$850.00 ☐	$815.00 ☐
≥0.25 but <0.50 MGD	$1,250.00 ☐	$1,215.00 ☐
≥0.50 but <1.0 MGD	$1,650.00 ☐	$1,615.00 ☐
≥1.0 MGD	$2,050.00 ☐	$2,015.00 ☒

Minor Amendment (for any flow) $150.00 ☐

Payment Information:

Mailed — Check/Money Order Number: 109177

Check/Money Order Amount: $2,015.00

Name Printed on Check: Plummer

EPAY — Voucher Number: N/A

Copy of Payment Voucher enclosed? Yes ☐ N/A

Section 2. Type of Application (Instructions Page 29)

☐ New TPDES

☐ Major Amendment *with* Renewal

☐ Major Amendment *without* Renewal

☒ Renewal without changes

☐ New TLAP

☐ Minor Amendment *with* Renewal

☐ Minor Amendment *without* Renewal

☐ Minor Modification of permit

For amendments or modifications, describe the proposed changes: N/A

For existing permits:

Permit Number: WQ0010681003

EPA I.D. (TPDES only): TX0085316

Expiration Date: September 1, 2020

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

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

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

City of Laredo

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

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

CN: 600131908

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

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

First and Last Name: Robert A. Eads

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

Title: Interim Co-City Manager

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

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

N/A

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

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

CN: N/A

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

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

First and Last Name: N/A

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

Title: N/A

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

C. Core Data Form

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

Attachment: A

Section 4. Application Contact Information (Instructions Page 30)

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

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

First and Last Name: Riazul I. Mia

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

Title: Utilities Director

Organization Name: City of Laredo

Mailing Address: 5816 Daugherty Ave.

City, State, Zip Code: Laredo, TX 78041

Phone No.: (956) 721-2000 Ext.: N/A Fax No.: (956) 721-2001

E-mail Address: rmia@ci.laredo.tx.us

Check one or both: ☒ Administrative Contact ☒ Technical Contact

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

First and Last Name: Tres Koenings

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

Title: Senior Project Manager

Organization Name: Plummer Associates, Inc.

Mailing Address: 6300 La Calma Dr, Ste 400

City, State, Zip Code: Austin, TX 78752

Phone No.: 512-687-2148 Ext.: N/A Fax No.: 512-452-2325

E-mail Address: tkoenings@plummer.com

Check one or both: ☒ Administrative Contact ☒ Technical Contact

Section 5. Permit Contact Information (Instructions Page 30)

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

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

First and Last Name: Riazul I. Mia

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

Title: Utilities Director

Organization Name: City of Laredo

Mailing Address: 5816 Daugherty Ave.

City, State, Zip Code: Laredo, TX 78041

Phone No.: 956-721-2000 Ext.: N/A Fax No.: 956-721-2001

E-mail Address: rmia@ci.laredo.tx.us

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

First and Last Name: Michael Rodgers

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

Title: Assistant Utilities Director

Organization Name: City of Laredo

Mailing Address: 5816 Daugherty Ave.

City, State, Zip Code: Laredo, TX 78041

Phone No.: 956-721-2000 Ext.: N/A Fax No.: 956-721-2001

E-mail Address: mrodgers@ci.laredo.tx.us

Section 6. Billing Information (Instructions Page 30)

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

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

First and Last Name: Riazul I. Mia

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

Title: Utilities Director

Organization Name: City of Laredo

Mailing Address: 5816 Daugherty Ave.

City, State, Zip Code: Laredo, TX 78041

Phone No.: 956-721-2000 Ext.: N/A Fax No.: 956-721-2001

E-mail Address: rmia@ci.laredo.tx.us

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

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

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

First and Last Name: Riazul I. Mia

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

Title: Utilities Director

Organization Name: City of Laredo

Mailing Address: 5816 Daugherty Ave.

City, State, Zip Code: Laredo, TX 78041

Phone No.: 956-721-2000 Ext.: N/A Fax No.: 956-721-2001

E-mail Address: rmia@ci.laredo.tx.us

DMR data is required to be submitted electronically. Create an account at: https://www.tceq.texas.gov/permitting/netdmr/netdmr.html.

Section 8. Public Notice Information (Instructions Page 31)

A. Individual Publishing the Notices

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

First and Last Name: Tres Koenings

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

Title: Senior Project Manager

Organization Name: Plummer Associates, Inc.

Mailing Address: 6300 La Calma Dr, Ste 400

City, State, Zip Code: Austin, TX 78752

Phone No.: 512-687-2148 Ext.: N/A Fax No.: 512-452-2325

E-mail Address: tkoenings@plummer.com

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

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

☒ E-mail Address

☐ Fax

☐ Regular Mail

C. Contact person to be listed in the Notices

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

First and Last Name: Riazul I. Mia

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

Title: Utilities Director

Organization Name: City of Laredo

Phone No.: 956-721-2000 Ext.: N/A

E-mail: rmia@ci.laredo.tx.us

D. Public Viewing Information

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

Public building name: Joe A. Guerra Laredo Public Library

Location within the building: First Floor Reference Desk

Physical Address of Building: 1120 E. Calton Rd.

City: Laredo County: Webb

Contact Name: Maria G. Soliz

Phone No.: 956-795-2400 Ext.: 2222

E. Bilingual Notice Requirements:

This information **is required** for **new, major amendment, and renewal applications**. It is not required for minor amendment or minor modification applications.

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

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

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

   ☒ Yes ☐ No

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

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

   ☒ Yes ☐ No

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

   ☐ Yes ☒ No

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

   ☐ Yes ☒ No

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

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

A. If the site is currently regulated by TCEQ, provide the Regulated Entity Number (RN) issued to this site. **RN**103026126

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

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

South Laredo Wastewater Treatment Facility

C. Owner of treatment facility: City of Laredo

Ownership of Facility: ☒ Public ☐ Private ☐ Both ☐ Federal

D. Owner of land where treatment facility is or will be:

Prefix (Mr., Ms., Miss):

First and Last Name: City of Laredo

Mailing Address: 5816 Daugherty Ave.

City, State, Zip Code: Laredo, TX 78041

Phone No.: 956-721-2000 E-mail Address: rmia@ci.laredo.tx.us

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

Attachment: N/A

E. Owner of effluent disposal site:

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

First and Last Name: N/A

Mailing Address: N/A

City, State, Zip Code: N/A

Phone No.: N/A E-mail Address: N/A

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

Attachment: N/A

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

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

First and Last Name: N/A

Mailing Address: N/A

City, State, Zip Code: N/A

Phone No.: N/A E-mail Address: N/A

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

Attachment: N/A

Section 10. TPDES Discharge Information (Instructions Page 34)

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

☒ Yes ☐ No

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

N/A

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

☒ Yes ☐ No

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

N/A

City nearest the outfall(s): Laredo

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

Outfall Latitude: 27.4467 Longitude: -99.4886

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

☐ Yes ☒ No

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

☐ Authorization granted ☐ Authorization pending

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

Attachment: N/A

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

Webb, Zapata, and Starr Counties

Section 11. TLAP Disposal Information (Instructions Page 36)

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

☐ Yes ☐ No N/A – Not a TLAP

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

N/A

B. City nearest the disposal site: N/A

C. County in which the disposal site is located: N/A

D. Disposal Site Latitude: N/A Longitude: N/A

E. For **TLAPs**, describe the routing of effluent from the treatment facility to the disposal site:

N/A

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

N/A

Section 12. Miscellaneous Information (Instructions Page 37)

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

☐ Yes ☒ No

B. If the existing permit contains an onsite sludge disposal authorization, is the location of the sewage sludge disposal site in the existing permit accurate?

☐ Yes ☐ No ☒ Not Applicable

If No, or if a new onsite sludge disposal authorization is being requested in this permit

application, provide an accurate location description of the sewage sludge disposal site.

N/A

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

☒ Yes ☐ No

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

Tres Koenings

D. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

If **yes**, provide the following information:

Account number: N/A Amount past due: N/A

E. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

If **yes**, please provide the following information:

Enforcement order number: N/A Amount past due: N/A

Section 13. Attachments (Instructions Page 38)

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

☐ Lease agreement or deed recorded easement, if the land where the treatment facility is located or the effluent disposal site are not owned by the applicant or co-applicant.

☒ Original full-size USGS Topographic Map with the following information:

- Applicant's property boundary
- Treatment facility boundary

See Attachment B

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

☐ Attachment 1 for Individuals as co-applicants

☒ Other Attachments. Please specify: See Table of Attachments

Section 14. Signature Page (Instructions Page 39)

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

Permit Number: WQ0010681003

Applicant: City of Laredo

Certification:

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

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

Signatory name (typed or printed): Robert A. Eads, ICMA-CM

Signatory title: Interim Co-City Manager

Signature: _____ Date: 2/19/2020

(Use blue ink)

Subscribed and Sworn to before me by the said Robert A. Eads

on this 19 day of February, 20 20.

My commission expires on the 21 day of February, 20 22.

_____

Notary Public *[SEAL]*

Webb

County, Texas

ALEJANDRA QUINTANILLA
Notary Public, State of Texas
Comm. Expires 02-21-2022
Notary ID 131459731

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

FOR AGENCIES REVIEWING DOMESTIC 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)

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

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

The following applies to all applications:

1. Permittee: City of Laredo

   Permit No. WQ00 10681003 EPA ID No. TX 0085316

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

   309 River Front Street, Webb County, Texas 78046

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: Riazul I. Mia

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

Title: Utilities Director

Mailing Address: 5816 Daugherty Ave.

City, State, Zip Code: Laredo, TX 78041

Phone No.: 956-721-2000 Ext.: N/A Fax No.: 956-721-2001

E-mail Address: rmia@ci.laredo.tx.us

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

N/A

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

Directly to Rio Grande Amistad Reservoir in Segment No. 2304 of the Rio Grande Basin

5. Please provide a separate 7.5-minute USGS quadrangle map with the project boundaries plotted and a general location map showing the project area. Please highlight the discharge route from the point of discharge for a distance of one mile downstream. (This map is required in addition to the map in the administrative report). See SPIF 1 and SPIF 2

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

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

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

☐ Disturbance of vegetation or wetlands

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

N/A

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

Existing land use is typical of a wastewater treatment facility of this size.

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

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

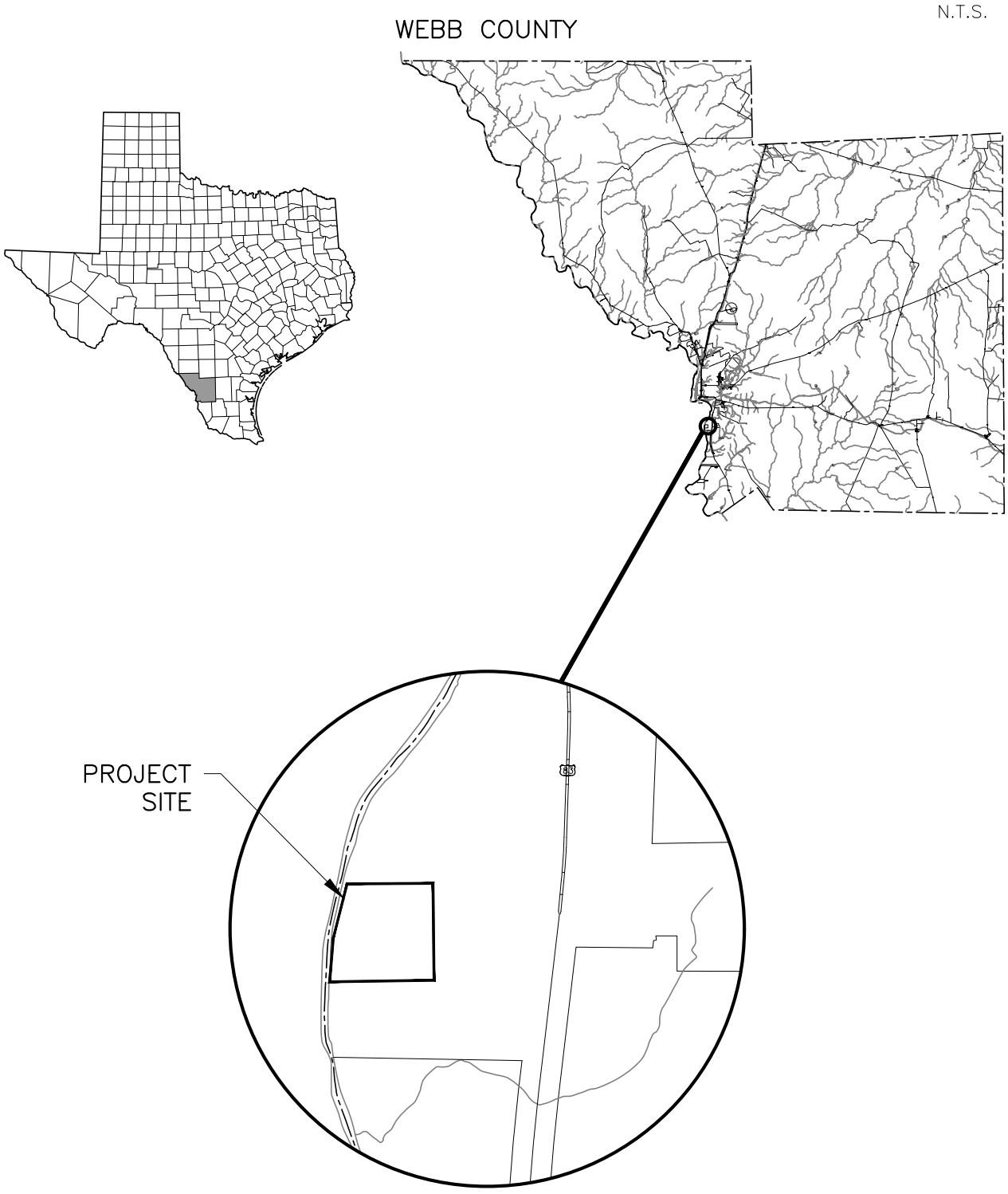
N/A

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

N/A

PLUMMER

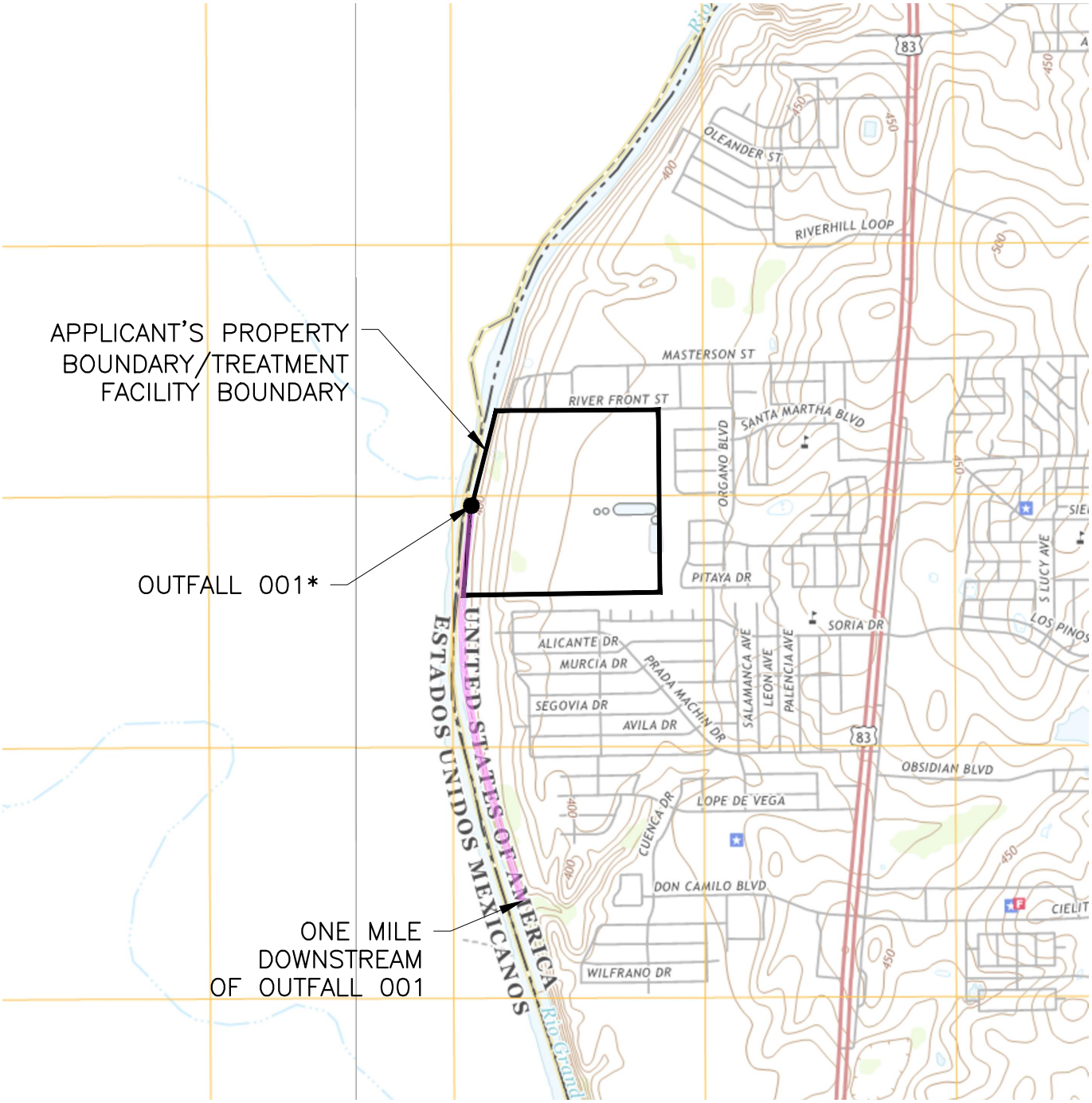
N.T.S.



SPIF 1
CITY OF LAREDO
SOUTH LAREDO WASTEWATER TREATMENT FACILITY
TPDES PERMIT RENEWAL APPLICATION
GENERAL LOCATION MAP

PLUMMER

FEET
0 2000



*DISCHARGES DIRECTLY TO RIO GRANDE BELOW AMISTAD RESERVOIR IN SEGMENT NO. 2304 NOF THE RIO GRANDE BASIN.

SPIF 2
CITY OF LAREDO
SOUTH LAREDO WASTEWATER TREATMENT FACILITY
TPDES PERMIT RENEWAL APPLICATION
USGS MAP

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION

DOMESTIC TECHNICAL REPORT 1.0

The Following Is Required For All Applications

Renewal, New, And Amendment

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

A. Existing/Interim I Phase

Design Flow (MGD): 18

2-Hr Peak Flow (MGD): 72

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: Existing/Interim I

Provide the startup date of the facility: 1983

Section 2. Treatment Process (Instructions Page 51)

A. Treatment process description

Provide a detailed description of the treatment process. **Include the type of**

treatment plant, mode of operation, and all treatment units. Start with the plant's head works and finish with the point of discharge. Include all sludge processing and drying units. **If more than one phase exists or is proposed in the permit, a description of *each phase* must be provided**. Process description:

The South Laredo Wastewater Treatment Facility is an activated sludge process plant operated in complete mix mode. Treatment units in the Existing/Interim I Phase include two mechanical bar screens, one manual bar screen, three aeration basins, four clarifiers, two chlorine contact basins, one aerated sludge holding tank, one gravity thickener, and a sludge dewatering building. Sludge generated from the treatment facility is currently hauled by a registered transporter and disposed of at authorized landfills.

Port or pipe diameter at the discharge point, in inches: 54 inches

B. Treatment Units

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

Table 1.0(1) – Treatment Units

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

C. Process flow diagrams

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

Attachment: D

Section 3. Site Drawing (Instructions Page 52)

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

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

Attachment: E

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

City of Laredo - South Side

Section 4. Unbuilt Phases (Instructions Page 52)

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

Yes ☐ No ☒

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

Yes ☐ No ☐ N/A

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

N/A

Section 5. Closure Plans (Instructions Page 53)

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

Yes ☐ No ☒

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

Yes ☐ No ☐ N/A

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

N/A

Section 6. Permit Specific Requirements (Instructions Page 53)

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

A. Summary transmittal

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

Yes ☒ No ☐

If yes, provide the date(s) of approval for each phase: Existing/Interim I:

9/13/16

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

N/A

B. Buffer zones

Have the buffer zone requirements been met?

Yes ☒ No ☐

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

relevant to maintaining the buffer zones.

N/A

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*.

Other Requirements provision No. 7 requires the permittee to submit a summary transmittal letter prior to construction of the Final phase facilities. The permittee submitted this summary transmittal letter and it was subsequentially approved 9/13/16. Therefore, Other Requirements provision No. 7 has been fulfilled.

D. Grit and grease treatment

1. Acceptance of grit and grease waste

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

Yes ☐ No ☒

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

2. Grit and grease processing

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

N/A

3. Grit disposal

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

Yes ☐ No ☒

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

Describe the method of grit disposal.

N/A

4. Grease and decanted liquid disposal

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

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

N/A

E. Stormwater management

1. Applicability

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

Yes ☒ No ☐

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

Yes ☒ No ☐

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

2. MSGP coverage

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

Yes ☒ No ☐

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

TXR05 N904 or TXRNE Click here to enter text

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

Yes ☐ No ☐ N/A

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 ☐ N/A

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

N/A

4. Existing coverage in individual permit

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

Yes ☐ No ☒

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

N/A

5. Zero stormwater discharge

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

Yes ☐ No ☒

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

N/A

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

6. Request for coverage in individual permit

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

Yes ☐ No ☒

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

N/A

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

F. Discharges to the Lake Houston Watershed

Does the facility discharge in the Lake Houston watershed?
Yes ☐ No ☒

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

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

1. Acceptance of sludge from other WWTPs

Does the facility accept or will it accept sludge from other treatment plants at the facility site?
Yes ☒ No ☐

If yes, attach sewage sludge solids management plan. See Example 5 of the instructions. See Attachment F.1

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

See Attachment F.2

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

2. Acceptance of septic waste

Is the facility accepting or will it accept septic waste?

Yes ☒ No ☐

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

Yes ☐ No ☒

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

Yes ☐ No ☒

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

The South Laredo WWTF began accepting septic waste in 1983. The septic waste daily disposal ranges from 5,000 to 10,000 gallons per day. The estimated BOD5 concentration of the septic waste is 350 mg/L. This information has not changed since the last permit application.

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

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

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

Yes ☐ No ☒

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

N/A

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

Is the facility in operation?

Yes ☒ No ☐ See Attachment G

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).

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

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

Pollutant	**Average Conc.**	**Max Conc.**	**No. of Samples**	**Sample Type**	**Sample Date/Time**
$CBOD_5$, mg/l	3.7	3.7	1	Composite	12/19/19 @ 10:00 am
Total Suspended Solids, mg/l	7.0	7.0	1	Composite	12/19/19 @ 10:00 am
Ammonia Nitrogen, mg/l	<0.05	<0.05	1	Composite	12/19/19 @ 10:00 am
Nitrate Nitrogen, mg/l	19.6	19.6	1	Composite	12/19/19 @ 10:00 am
Total Kjeldahl Nitrogen, mg/l	1.6	1.6	1	Composite	12/19/19 @ 10:00 am
Sulfate, mg/l	319	319	1	Composite	12/19/19 @ 10:00 am
Chloride, mg/l	241	241	1	Composite	12/19/19 @ 10:00 am
Total Phosphorus, mg/l	3.75	3.75	1	Composite	12/19/19 @

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
					10:00 am
pH, standard units	7.0	7.0	1	Grab	1/31/2020 @ 07:43 am
Dissolved Oxygen*, mg/l	5.9	5.9	1	Grab	1/31/2020 @ 07:45 am
Chlorine Residual, mg/l	2.2	2.2	1	Grab	1/31/2020 @ 07:45 am
E.coli (CFU/100ml) freshwater	<1.0	<1.0	1	Grab	1/31/2020 @ 07:40
Entercocci (CFU/100ml) saltwater	N/A	N/A	N/A	N/A	N/A
Total Dissolved Solids, mg/l	1060	1060	1	Composite	12/19/19 @ 10:00 am
Electrical Conductivity, µmohs/cm, †	N/A	N/A	N/A	N/A	N/A
Oil & Grease, mg/l	1.5	1.5	1	Composite	12/19/19 @ 10:00 am
Alkalinity ($CaCO_3$)*, mg/l	52	52	1	Composite	12/19/19 @ 10:00 am

*TPDES permits only

†TLAP permits only

Table 1.0(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

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
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 60)

Facility Operator Name: Jose E. Chavarria

Facility Operator's License Classification and Level: Class A

Facility Operator's License Number: WW0003855

Section 9. Sewage Sludge Management and Disposal (Instructions Page 60)

A. Sludge disposal method

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

☒ Permitted landfill

☐ Permitted or Registered land application site for beneficial use

☐ Land application for beneficial use authorized in the wastewater permit

☐ Permitted sludge processing facility

☐ Marketing and distribution as authorized in the wastewater permit

☐ Composting as authorized in the wastewater permit

☐ Permitted surface disposal site (sludge monofill)

☐ Surface disposal site (sludge monofill) authorized in the wastewater permit

☐ Transported to another permitted wastewater treatment plant or

permitted sludge processing facility. If you selected this method, a written statement or contractual agreement from the wastewater treatment plant or permitted sludge processing facility accepting the sludge must be included with this application.

☐ Other: Click here to enter text.

B. Sludge disposal site

Disposal site name: City of Laredo Landfill; Republic Services Tessman Road Landfill; Ponderosa Regional Landfill

TCEQ permit or registration number: City of Laredo MSWD# 1693B; Republic Services MSWD# 1410C; Ponderosa MSWD# 2286

County where disposal site is located: Webb and Bexar

C. Sludge transportation method

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

Name of the hauler: City of Laredo

Hauler registration number: 21804

Sludge is transported as a:

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

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

A. Beneficial use authorization

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

Yes ☐ No ☒

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

Yes ☐ No ☐ N/A

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 ☐ N/A

B. Sludge processing authorization

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

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

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

Yes ☐ No ☒

Section 11. Sewage Sludge Lagoons (Instructions Page 61)

Does this facility include sewage sludge lagoons?

Yes ☐ No ☒

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

A. Location information

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

- Original General Highway (County) Map:

  Attachment: N/A

- USDA Natural Resources Conservation Service Soil Map:

  Attachment: N/A

- Federal Emergency Management Map:

  Attachment: N/A

- Site map:

  Attachment: N/A

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: N/A

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:

N/A

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: N/A

Total Kjeldahl Nitrogen, mg/kg: N/A

Total Nitrogen (=nitrate nitrogen + TKN), mg/kg: N/A

Phosphorus, mg/kg: N/A

Potassium, mg/kg: N/A

pH, standard units: N/A

Ammonia Nitrogen mg/kg: N/A

Arsenic: N/A

Cadmium: N/A

Chromium: N/A

Copper: N/A

Lead: N/A

Mercury: N/A

Molybdenum: N/A

Nickel: N/A

Selenium: N/A

Zinc: N/A

Total PCBs: N/A

Provide the following information:

Volume and frequency of sludge to the lagoon(s): N/A

Total dry tons stored in the lagoons(s) per 365-day period: N/A

Total dry tons stored in the lagoons(s) over the life of the unit: N/A

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 ☐ N/A

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

N/A

D. Site development plan

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

N/A

Attach the following documents to the application.

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

  Attachment: N/A
- Copy of the closure plan

  Attachment: N/A
- Copy of deed recordation for the site

  Attachment: N/A
- Size of the sludge lagoon(s) in surface acres and capacity in cubic feet and gallons

Attachment: N/A

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

  Attachment: N/A

- Procedures to prevent the occurrence of nuisance conditions

  Attachment: N/A

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 ☐ N/A

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: N/A

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

A. Additional authorizations

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

Yes ☒ No ☐

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

Reuse Authorization # R10681003 and R10681003A

B. Permittee enforcement status

Is the permittee currently under enforcement for this facility?

Yes ☐ No ☒

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

Yes ☐ No ☒

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

N/A

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

A. RCRA hazardous wastes

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

Yes ☐ No ☒

B. Remediation activity wastewater

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

Yes ☐ No ☒

C. Details about wastes received

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

Attachment: N/A

Section 14. Laboratory Accreditation (Instructions Page 64)

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

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

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

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

CERTIFICATION:

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

Printed Name: Robert A. Eads, ICMA-CM

Title: Interim Co-City Manager

Signature: _____

Date: 2/19/2020

DOMESTIC TECHNICAL REPORT WORKSHEET 2.0

RECEIVING WATERS

The following is required for all TPDES permit applications

Section 1. Domestic Drinking Water Supply (Instructions Page 73)

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 yes, provide the following:
Owner of the drinking water supply: N/A

Distance and direction to the intake: N/A

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

Attachment: N/A

Section 2. Discharge into Tidally Affected Waters (Instructions Page 73)

Does the facility discharge into tidally affected waters?

Yes ☐ No ☒

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: N/A

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 73)

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 75)

Name of the immediate receiving waters: N/A

A. Receiving water type

Identify the appropriate description of the receiving waters.

☐ Stream

☐ Freshwater Swamp or Marsh

☐ Lake or Pond

Surface area, in acres: N/A

Average depth of the entire water body, in feet: N/A

Average depth of water body within a 500-foot radius of discharge point, in feet: N/A

☐ Man-made Channel or Ditch

☐ Open Bay

☐ Tidal Stream, Bayou, or Marsh

☐ Other, specify: N/A

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: N/A

C. Downstream perennial confluences

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

N/A

D. Downstream characteristics

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

Yes ☐ No ☐

If yes, discuss how.

N/A

E. Normal dry weather characteristics

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

N/A

Date and time of observation: N/A

Was the water body influenced by stormwater runoff during observations?

Yes ☐ No ☐

Section 5. General Characteristics of the Waterbody (Instructions Page 74)

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 N/A

B. Waterbody uses

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

- ☐ Livestock watering
- ☐ Irrigation withdrawal
- ☐ Fishing
- ☐ Contact recreation
- ☐ Non-contact recreation
- ☐ Navigation

☐ Domestic water supply ☐ Industrial water supply

☐ Park activities ☐ Other(s), specify N/A

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 WORKSHEET 4.0

POLLUTANT ANALYSES 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 for minor amendments without renewal

Section 1. Toxic Pollutants (Instructions Page 87)

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

Grab ☒ Composite ☒

Date and time sample(s) collected: See Attachment G

Table 4.0(1) – Toxics Analysis

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acrylonitrile	<1.9	<1.9	1	50
Aldrin	<0.0001	<0.00012	1	0.01
Aluminum	33.5	49	2	2.5
Anthracene	<0.70	<0.70	1	10
Antimony	<5	<5	2	5
Arsenic	1.2	1.6	2	0.5
Barium	66.5	73	2	3
Benzene	<0.33	<0.33	1	10
Benzidine	<0.39	<0.39	1	50
Benzo(a)anthracene	<0.65	<0.65	1	5

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Benzo(a)pyrene	<0.74	<0.74	1	5
Bis(2-chloroethyl)ether	<1.6	<1.6	1	10
Bis(2-ethylhexyl)phthalate	<5.0	<5.0	1	10
Bromodichloromethane	27	27	1	10
Bromoform	<0.50	<0.50	1	10
Cadmium	<1	<1	2	1
Carbon Tetrachloride	<0.25	<0.25	1	2
Carbaryl	<2.69	<2.69	1	5
Chlordane*	<0.0014	<0.0014	1	0.2
Chlorobenzene	<0.14	<0.14	1	10
Chlorodibromomethane	<0.22	<0.22	1	10
Chloroform	<0.17	<0.17	1	10
Chlorpyrifos	<0.043	<0.043	1	0.05
Chromium (Total)	<3.0	<3.0	2	3
Chromium (Tri) **(*1)**	<3.0	<3.0	1	N/A
Chromium (Hex)	<3.0	<3.0	1	3
Copper	3.1	3.7	2	2
Chrysene	<0.49	<0.49	1	5
p-Chloro-m-Cresol	<0.59	<0.59	1	10
4,6-Dinitro-o-Cresol	<0.96	<0.96	1	50
p-Cresol	<0.76	<0.76	1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Cyanide **(*2)**	<10	<10	1	10
4,4'- DDD	<0.00020	<0.00020	1	0.1
4,4'- DDE	<0.00010	<0.00010	1	0.1
4,4'- DDT	<0.00029	<0.00029	1	0.02
2,4-D	<0.7	<0.7	1	0.7
Demeton (O and S)	<0.031	<0.031	1	0.20
Diazinon	<0.034	<0.034	1	0.5/0.1
1,2-Dibromoethane	<0.15	<0.15	1	10
m-Dichlorobenzene	<0.49	<0.49	1	10
o-Dichlorobenzene	<0.78	<0.78	1	10
p-Dichlorobenzene	<0.82	<0.82	1	10
3,3'-Dichlorobenzidine	<0.79	<0.79	1	5
1,2-Dichloroethane	<0.16	<0.16	1	10
1,1-Dichloroethylene	<0.30	<0.30	1	10
Dichloromethane	<2.0	<2.0	1	20
1,2-Dichloropropane	<0.17	<0.17	1	10
1,3-Dichloropropene	<0.20	<0.20	1	10
Dicofol	<5.25	<5.25	1	1
Dieldrin	<0.00012	<0.00012	1	0.02
2,4-Dimethylphenol	<0.59	<0.59	1	10
Di-n-Butyl Phthalate	<10	<10	1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Diuron	<0.0485	<0.0485	1	0.09
Endosulfan I (alpha)	<0.00014	<0.00014	1	0.01
Endosulfan II (beta)	<0.00011	<0.00011	1	0.02
Endosulfan Sulfate	<0.00028	<0.00028	1	0.1
Endrin	<0.00022	<0.00022	1	0.02
Ethylbenzene	<0.20	<0.20	1	10
Fluoride	664	664	1	500
Guthion	<0.049	<0.049	1	0.1
Heptachlor	<0.00043	<0.00043	1	0.01
Heptachlor Epoxide	<0.00013	<0.00013	1	0.01
Hexachlorobenzene	<0.60	<0.60	1	5
Hexachlorobutadiene	<0.72	<0.72	1	10
Hexachlorocyclohexane (alpha)	<0.00012	<0.00012	1	0.05
Hexachlorocyclohexane (beta)	<0.00015	<0.00015	1	0.05
gamma-Hexachlorocyclohexane (Lindane)	<0.00011	<0.00011	1	0.05
Hexachlorocyclopentadiene	<0.84	<0.84	1	10
Hexachloroethane	<0.59	<0.59	1	20
Hexachlorophene	<0.0049	<0.0049	1	10
Lead	<0.5	<0.5	2	0.5
Malathion	<0.040	<0.040	1	0.1

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Mercury	<0.005	<0.005	2	0.005
Methoxychlor	<0.00033	<0.00033	1	2
Methyl Ethyl Ketone	<0.47	<0.47	1	50
Mirex	<0.00020	<0.00020	1	0.02
Nickel	2.0	2.4	2	2
Nitrate-Nitrogen	19,600	19,600	1	100
Nitrobenzene	<0.59	<0.59	1	10
N-Nitrosodiethylamine	<0.89	<0.89	1	20
N-Nitroso-di-n-Butylamine	<1.5	<1.5	1	20
Nonylphenol	<11	<11	1	333
Parathion (ethyl)	<0.037	<0.037	1	0.1
Pentachlorobenzene	<0.86	<0.86	1	20
Pentachlorophenol	<1.3	<1.3	1	5
Phenanthrene	<0.59	<0.59	1	10
Polychlorinated Biphenyls (PCB's) **(*3)**	<0.2	<0.2	1	0.2
Pyridine	<0.66	<0.66	1	20
Selenium	<5	<5	2	5
Silver	<0.5	<0.5	2	0.5
1,2,4,5-Tetrachlorobenzene	<0.66	<0.66	1	20
1,1,2,2-Tetrachloroethane	<0.19	<0.19	1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Tetrachloroethylene	<0.19	<0.19	1	10
Thallium	<0.5	<0.5	2	0.5
Toluene	<0.30	<0.30	1	10
Toxaphene	<0.011	<0.011	1	0.3
2,4,5-TP (Silvex)	<0.05	<0.05	1	0.3
Tributyltin (see instructions for explanation)	N/A	N/A	N/A	0.01
1,1,1-Trichloroethane	<0.30	<0.30	1	10
1,1,2-Trichloroethane	<0.17	<0.17	1	10
Trichloroethylene	<0.32	<0.32	1	10
2,4,5-Trichlorophenol	<0.86	<0.86	1	50
TTHM (Total Trihalomethanes)	71	71	1	10
Vinyl Chloride	<0.30	<0.30	1	10
Zinc	44.5	58	2	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: See Attachment G

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

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Antimony	<5	<5	2	5
Arsenic	1.2	1.6	2	0.5
Beryllium	<0.5	<0.5	2	0.5
Cadmium	<1	<1	2	1
Chromium (Total)	<3	<3	2	3
Chromium (Hex)	<3	<3	1	3
Chromium (Tri) (*1)	<3	<3	1	N/A
Copper	3.1	3.7	2	2
Lead	<0.5	<0.5	2	0.5
Mercury	<0.005	<0.005	2	0.005
Nickel	2.0	2.4	2	2
Selenium	<5	<5	2	5
Silver	<0.5	<0.5	2	0.5
Thallium	<0.5	<0.5	2	0.5
Zinc	44.5	58	2	5
Cyanide (*2)	<10	<10	1	10
Phenols, Total	<10	<10	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	<1.0	<1.0	1	50
Acrylonitrile	<1.9	<1.9	1	50
Benzene	<0.33	<0.33	1	10
Bromoform	<0.50	<0.50	1	10
Carbon Tetrachloride	<0.25	<0.25	1	2
Chlorobenzene	<0.14	<0.14	1	10
Chlorodibromomethane	<0.22	<0.22	1	10
Chloroethane	<0.40	<0.40	1	50
2-Chloroethylvinyl Ether	<0.19	<0.19	1	10
Chloroform	<0.17	<0.17	1	10
Dichlorobromomethane [Bromodichloromethane]	27	27	1	10
1,1-Dichloroethane	<0.17	<0.17	1	10
1,2-Dichloroethane	<0.16	<0.16	1	10
1,1-Dichloroethylene	<0.30	<0.30	1	10
1,2-Dichloropropane	<0.17	<0.17	1	10
1,3-Dichloropropylene [1,3-Dichloropropene]	<0.20	<0.20	1	10
1,2-Trans-Dichloroethylene	<0.20	<0.20	1	10
Ethylbenzene	<0.20	<0.20	1	10
Methyl Bromide	<0.39	<0.39	1	50
Methyl Chloride	<0.39	<0.39	1	50
Methylene Chloride	<2.0	<2.0	1	20
1,1,2,2-Tetrachloroethane	<0.19	<0.19	1	10
Tetrachloroethylene	<0.19	<0.19	1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Toluene	<0.30	<0.30	1	10
1,1,1-Trichloroethane	<0.30	<0.30	1	10
1,1,2-Trichloroethane	<0.17	<0.17	1	10
Trichloroethylene	<0.32	<0.32	1	10
Vinyl Chloride	<0.30	<0.30	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	<0.73	<0.73	1	10
2,4-Dichlorophenol	<0.70	<0.70	1	10
2,4-Dimethylphenol	<0.59	<0.59	1	10
4,6-Dinitro-o-Cresol	<0.96	<0.96	1	50
2,4-Dinitrophenol	<2.7	<2.7	1	50
2-Nitrophenol	<0.81	<0.81	1	20
4-Nitrophenol	<1.7	<1.7	1	50
P-Chloro-m-Cresol	<0.59	<0.59	1	10
Pentalchlorophenol	<1.3	<1.3	1	5
Phenol	<0.77	<0.77	1	10
2,4,6-Trichlorophenol	<0.66	<0.66	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	<0.46	<0.46	1	10
Acenaphthylene	<0.45	<0.45	1	10
Anthracene	<0.70	<0.70	1	10
Benzidine	<0.39	<0.39	1	50
Benzo(a)Anthracene	<0.65	<0.65	1	5
Benzo(a)Pyrene	<0.74	<0.74	1	5
3,4-Benzofluoranthene	<0.91	<0.91	1	10
Benzo(ghi)Perylene	<1.1	<1.1	1	20
Benzo(k)Fluoranthene	<1.5	<1.5	1	5
Bis(2-Chloroethoxy)Methane	<0.44	<0.44	1	10
Bis(2-Chloroethyl)Ether	<1.6	<1.6	1	10
Bis(2-Chloroisopropyl)Ether	<0.50	<0.50	1	10
Bis(2-Ethylhexyl)Phthalate	<5.0	<5.0	1	10
4-Bromophenyl Phenyl Ether	<0.81	<0.81	1	10
Butyl benzyl Phthalate	<0.82	<0.82	1	10
2-Chloronaphthalene	<0.60	<0.60	1	10
4-Chlorophenyl phenyl ether	<0.53	<0.53	1	10
Chrysene	<0.49	<0.49	1	5
Dibenzo(a,h)Anthracene	<0.87	<0.87	1	5
1,2-(o)Dichlorobenzene	<0.78	<0.78	1	10
1,3-(m)Dichlorobenzene	<0.49	<0.49	1	10
1,4-(p)Dichlorobenzene	<0.82	<0.82	1	10
3,3-Dichlorobenzidine	<0.79	<0.79	1	5
Diethyl Phthalate	<0.67	<0.67	1	10
Dimethyl Phthalate	<0.59	<0.59	1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Di-n-Butyl Phthalate	<10	<10	1	10
2,4-Dinitrotoluene	<0.51	<0.51	1	10
2,6-Dinitrotoluene	<0.76	<0.76	1	10
Di-n-Octyl Phthalate	<1.1	<1.1	1	10
1,2-Diphenylhydrazine (as Azo-benzene)	<0.79	<0.79	1	20
Fluoranthene	<0.50	<0.50	1	10
Fluorene	<0.42	<0.42	1	10
Hexachlorobenzene	<0.60	<0.60	1	5
Hexachlorobutadiene	<0.72	<0.72	1	10
Hexachlorocyclo-pentadiene	<0.84	<0.84	1	10
Hexachloroethane	<0.59	<0.59	1	20
Indeno(1,2,3-cd)pyrene	<0.92	<0.92	1	5
Isophorone	<0.55	<0.55	1	10
Naphthalene	<0.79	<0.79	1	10
Nitrobenzene	<0.59	<0.59	1	10
N-Nitrosodimethylamine	<1.4	<1.4	1	50
N-Nitrosodi-n-Propylamine	<0.62	<0.62	1	20
N-Nitrosodiphenylamine	<1.0	<1.0	1	20
Phenanthrene	<0.59	<0.59	1	10
Pyrene	<0.44	<0.44	1	10
1,2,4-Trichlorobenzene	<0.65	<0.65	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	<0.00012	<0.00012	1	0.01
alpha-BHC (Hexachlorocyclohexane)	<0.00012	<0.00012	1	0.05
beta-BHC (Hexachlorocyclohexane)	<0.00015	<0.00015	1	0.05
gamma-BHC (Hexachlorocyclohexane)	<0.00011	<0.00011	1	0.05
delta-BHC (Hexachlorocyclohexane)	<0.00033	<0.00033	1	0.05
Chlordane	<0.0014	<0.0014	1	0.2
4,4-DDT	<0.00029	<0.00029	1	0.02
4,4-DDE	<0.00010	<0.00010	1	0.1
4,4,-DDD	<0.00020	<0.00020	1	0.1
Dieldrin	<0.00012	<0.00012	1	0.02
Endosulfan I (alpha)	<0.00014	<0.00014	1	0.01
Endosulfan II (beta)	<0.00011	<0.00011	1	0.02
Endosulfan Sulfate	<0.00028	<0.00028	1	0.1
Endrin	<0.00022	<0.00022	1	0.02
Endrin Aldehyde	<0.00023	<0.00023	1	0.1
Heptachlor	<0.00043	<0.00043	1	0.01
Heptachlor Epoxide	<0.00013	<0.00013	1	0.01
PCB-1242	<0.0088	<0.0088	1	0.2
PCB-1254	<0.0092	<0.0092	1	0.2
PCB-1221	<0.0055	<0.0055	1	0.2
PCB-1232	<0.0050	<0.0050	1	0.2

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
PCB-1248	<0.0029	<0.0029	1	0.2
PCB-1260	<0.0038	<0.0038	1	0.2
PCB-1016	<0.0046	<0.0046	1	0.2
Toxaphene	<0.011	<0.011	1	0.3

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

Section 3. Dioxin/Furan Compounds

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

☐ 2,4,5-trichlorophenoxy acetic acid
Common Name 2,4,5-T, CASRN 93-76-5

☐ 2-(2,4,5-trichlorophenoxy) propanoic acid
Common Name Silvex or 2,4,5-TP, CASRN 93-72-1

☐ 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate
Common Name Erbon, CASRN 136-25-4

☐ 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate
Common Name Ronnel, CASRN 299-84-3

☐ 2,4,5-trichlorophenol
Common Name TCP, CASRN 95-95-4

☐ hexachlorophene
Common Name HCP, CASRN 70-30-4

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

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 ☐ N/A

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

N/A

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 ☐ N/A

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	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	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

Compound	Toxic Equivalency Factors	Wastewater Concentration (ppq)	Wastewater Equivalents (ppq)	Sludge Concentration (ppt)	Sludge Equivalents (ppt)	MAL (ppq)
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		N/A	N/A	N/A	N/A	

DOMESTIC WORKSHEET 5.0

TOXICITY TESTING REQUIREMENTS

The following is required for facilities with a currently-operating design flow greater than or equal to 1.0 MGD, with an EPA-approved pretreatment program (or those that are required to have one under 40 CFR Part 403), or are required by the TCEQ to perform Whole Effluent Toxicity testing. This worksheet is not required for minor amendments without renewal.

Section 1. Required Tests (Instructions Page 97)

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: Results of all Whole Effluent Toxicity Tests have been submitted to the TCEQ in accordance with the existing TPDES Permit. See Attachment H for a summary of test result data.

48-hour Acute: Results of all Whole Effluent Toxicity Tests have been submitted to the TCEQ in accordance with the existing TPDES Permit. See Attachment H for a summary of test result data

Section 2. Toxicity Reduction Evaluations (TREs)

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

Yes ☐ No ☒

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

N/A

Section 3. Summary of WET Tests

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

Table 5.0(1) – Summary of WET Tests

Test Date	Test Species	NOEC Survival	NOEC Sub-lethal
See Attachment H			

DOMESTIC WORKSHEET 6.0

INDUSTRIAL WASTE CONTRIBUTION

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

Section 1. All POTWs (Instructions Page 99)

A. Industrial users

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

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

Categorical IUs:

Number of IUs: 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.

N/A

C. Treatment plant pass through

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

Yes ☐ No ☒

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

N/A

D. Pretreatment program

Does your POTW have an approved pretreatment program?

Yes ☒ No ☐

If yes, complete Section 2 only of this Worksheet.

Is your POTW required to develop an approved pretreatment program?

Yes ☐ No ☐ N/A

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

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

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

A. Substantial modifications

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

Yes ☐ No ☒

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

N/A

B. Non-substantial modifications

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

Yes ☐ No ☒

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

N/A

C. Effluent parameters above the MAL

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

Table 6.0(1) – Parameters Above the MAL

Pollutant	Concentration	MAL	Units	Date
See Attachment I				

D. Industrial user interruptions

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

Yes ☐ No ☒

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

N/A

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

A. General information

Company Name: N/A

SIC Code: N/A

Telephone number: N/A Fax number: N/A

Contact name: N/A

Address: N/A

City, State, and Zip Code: N/A

B. Process information

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

N/A

C. Product and service information

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

N/A

D. Flow rate information

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

Process Wastewater:

Discharge, in gallons/day: N/A

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

Non-Process Wastewater:

Discharge, in gallons/day: N/A

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

E. Pretreatment standards

Is the SIU or CIU subject to technically based local limits as defined in the instructions?

Yes ☐ No ☐ N/A

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

Yes ☐ No ☐ N/A

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

Category: N/A
Subcategories: N/A

Category: N/A
Subcategories: N/A

Category: N/A
Subcategories: N/A

Category: N/A
Subcategories: N/A

Category: N/A
Subcategories: N/A

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 ☐ N/A

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

N/A

CITY OF LAREDO
SOUTH LAREDO WASTEWATER TREATMENT FACILITY
TPDES PERMIT RENEWAL APPLICATION

TABLE OF ATTACHMENTS

ATTACHMENT A

Core Data Form
Admin Rpt 1.0 Section 3.C

TCEQ Use Only

TCEQ Core Data Form

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

SECTION I: General Information

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

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

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

2. Customer Reference Number *(if issued)*	Follow this link to search for CN or RN numbers in Central Registry**	3. Regulated Entity Reference Number *(if issued)*
CN **600131908**		RN **103026126**

SECTION II: Customer Information

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

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

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

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

City of Laredo

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

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

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

13. Independently Owned and Operated?
☐ Yes ☒ No

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

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

15. Mailing Address: 1110 Houston Street

City	Laredo	State	TX	ZIP	78040	ZIP + 4	8019

16. Country Mailing Information *(if outside USA)*	17. E-Mail Address *(if applicable)*
N/A	reads@ci.laredo.tx.us

18. Telephone Number	19. Extension or Code	20. Fax Number *(if applicable)*
(956) 791-7302		(956) 791-7498

SECTION III: Regulated Entity Information

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

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

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

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

South Laredo Wastewater Treatment Facility

23. Street Address of the Regulated Entity: *(No PO Boxes)*	309 River Front Street							
	City	Laredo	State	TX	ZIP	78046	ZIP + 4	
24. County	Webb							

Enter Physical Location Description if no street address is provided.

25. Description to Physical Location:	N/A

26. Nearest City	State	Nearest ZIP Code
Laredo	TX	78046

27. Latitude (N) In Decimal:			28. Longitude (W) In Decimal:		
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
27	26	48	99	29	11

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

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

This facility primarily treats domestic wastewater.

34. Mailing Address:	5816 Daugherty Ave.							
	City	Laredo	State	TX	ZIP	78041	ZIP + 4	3337

35. E-Mail Address:	rmia@ci.laredo.tx.us

36. Telephone Number	37. Extension or Code	38. Fax Number *(if applicable)*
(956) 721-2000		(956) 721-2001

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

☐ Dam Safety	☐ Districts	☐ Edwards Aquifer	☐ Emissions Inventory Air	☐ Industrial Hazardous Waste
☐ Municipal Solid Waste	☐ New Source Review Air	☐ OSSF	☐ Petroleum Storage Tank	☐ PWS
☐ Sludge	☒ Storm Water	☐ Title V Air	☐ Tires	☐ Used Oil
	TXR05N904			
☐ Voluntary Cleanup	☒ Waste Water	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:
	WQ0010681003			

SECTION IV: Preparer Information

40. Name:	Jenni English	41. Title:	Engineer in Training

42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(512) 687-2193		(512) 452-2325	jenglish@plummer.com

SECTION V: Authorized Signature

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

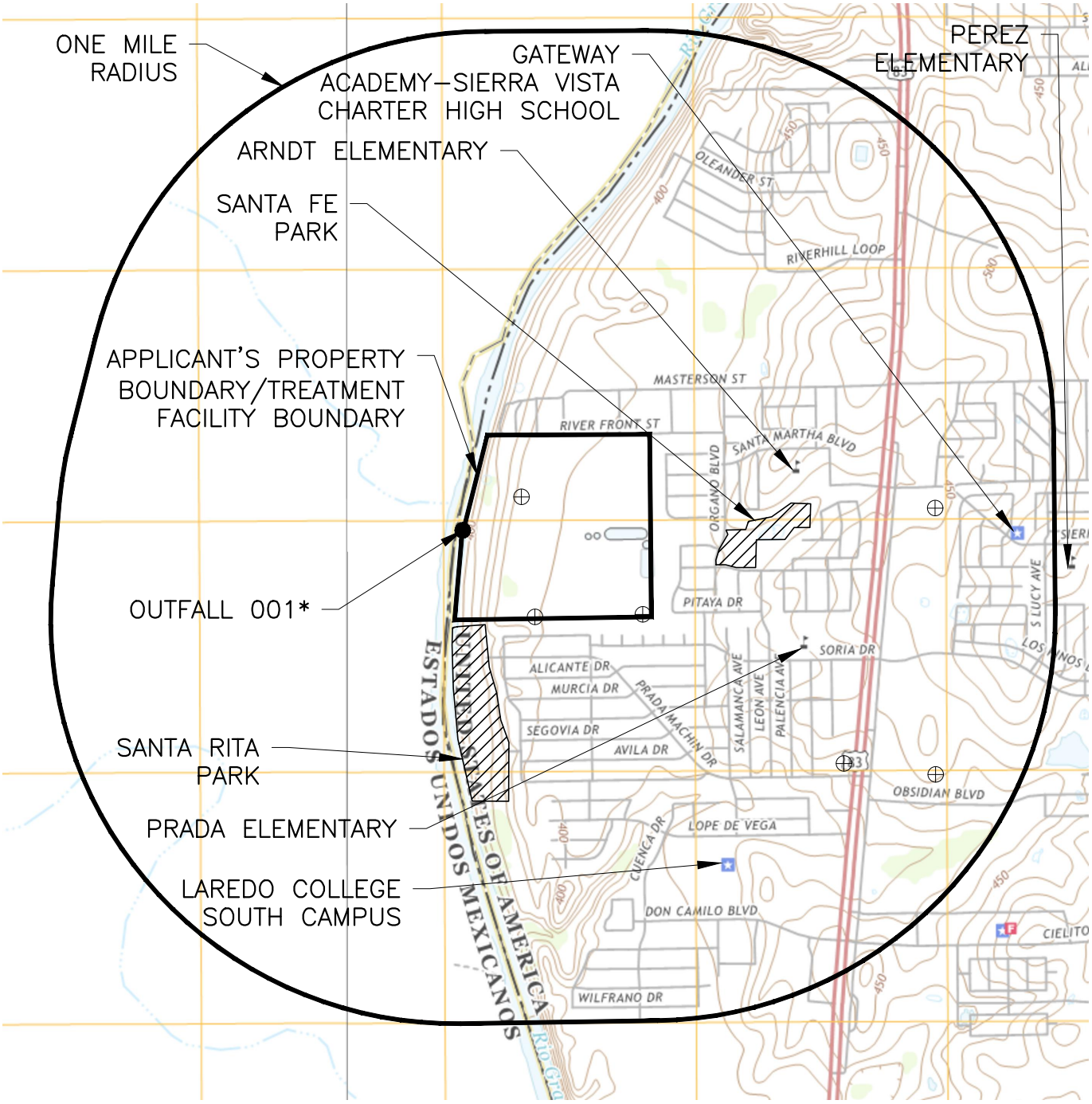
Company:	City of Laredo	Job Title:	Interim Co-City Manager
Name*(In Print)* :	Robert A. Eads, ICMA-CM	Phone:	(956) 791-7302
Signature:	Robert A. Eads	Date:	2/19/2020

ATTACHMENT B

U.S. Geological Survey Map
Admin Rpt 1.0 Section 13

PLUMMER

FEET
0 2000



LEGEND

⊕ EXISTING WELL

*DISCHARGES DIRECTLY INTO RIO GRANDE BELOW AMISTAD RESERVOIR IN CLASSIFIED SEGMENT NO. 2304 OF THE RIO GRANDE BASIN.

ATTACHMENT B
CITY OF LAREDO
SOUTH LAREDO WASTEWATER TREATMENT FACILITY
TPDES PERMIT RENEWAL APPLICATION
USGS MAP

ATTACHMENT C

List of Treatment Units
Tech Rpt. 1.0, Section 2.B

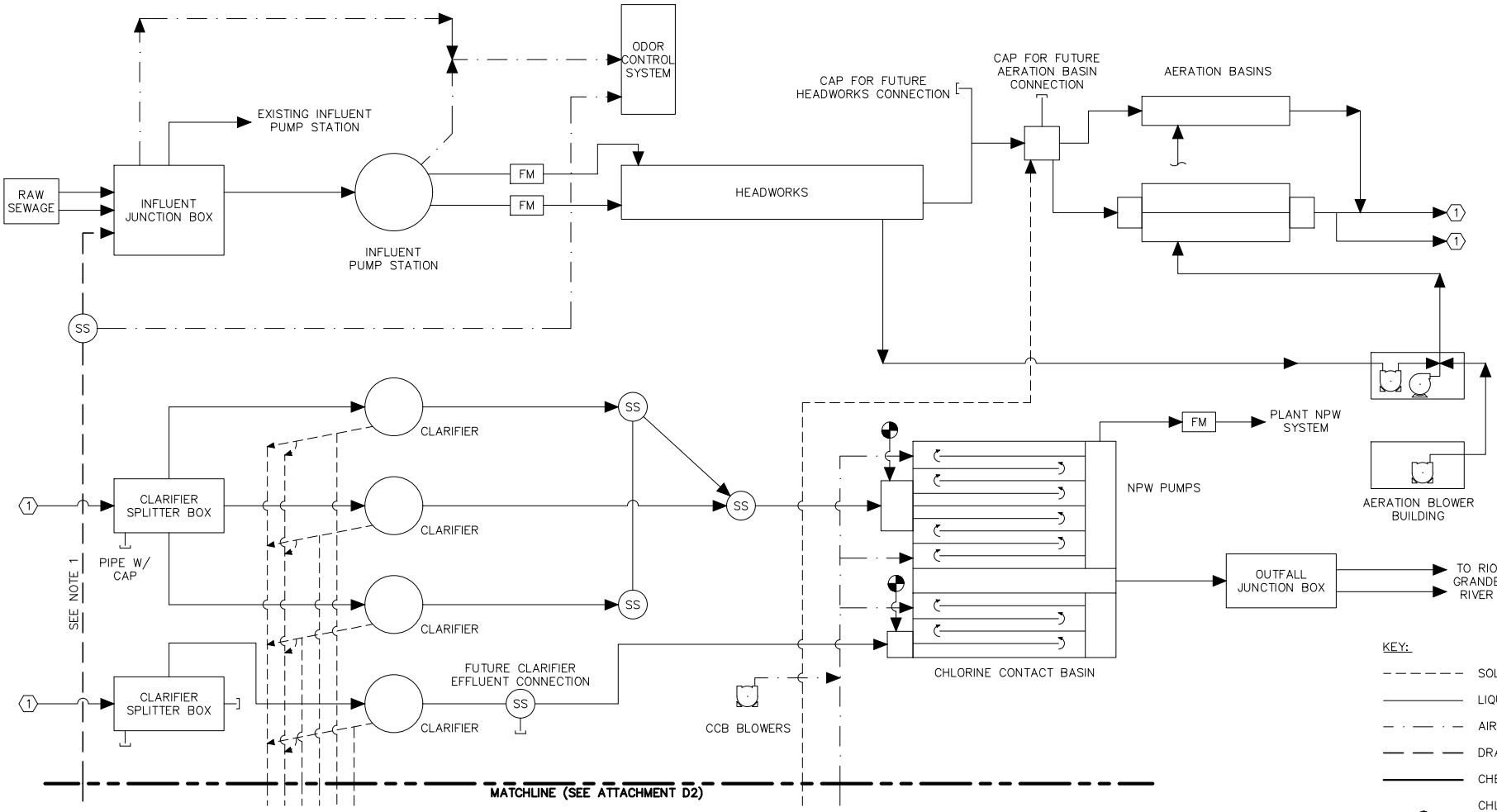
ATTACHMENT C
CITY OF LAREDO
SOUTH LAREDO WASTEWATER TREATMENT FACILITY
TPDES PERMIT RENEWAL APPLICATION

Treatment Unit Type	Number of Units	Dimensions (L x W x D)
Bar Screen	3	(2) Mechanical Bar Screens, (1) Bypass with Manual Bar Screen
Aeration Basin	3	300 ft x 20 ft (SWD) x 60 ft
Clarifiers	4	(3) 95 ft x 16 ft 2 in (SWD) (1) 90 ft X 12 ft (SWD)
Chlorine Contact Basins	2	86 ft 10 in x 7 ft 6 in (5 ft SWD) X 72 ft 6 in (divided in the center)
Aerated Sludge Holding Tank	1	558 ft X 11.2 ft X 140 ft
Gravity Thickener	1	80 ft x 12 ft

ATTACHMENT D

Process Flow Diagram
Tech Rpt. 1.0, Section 2.C

PLUMMER



KEY:

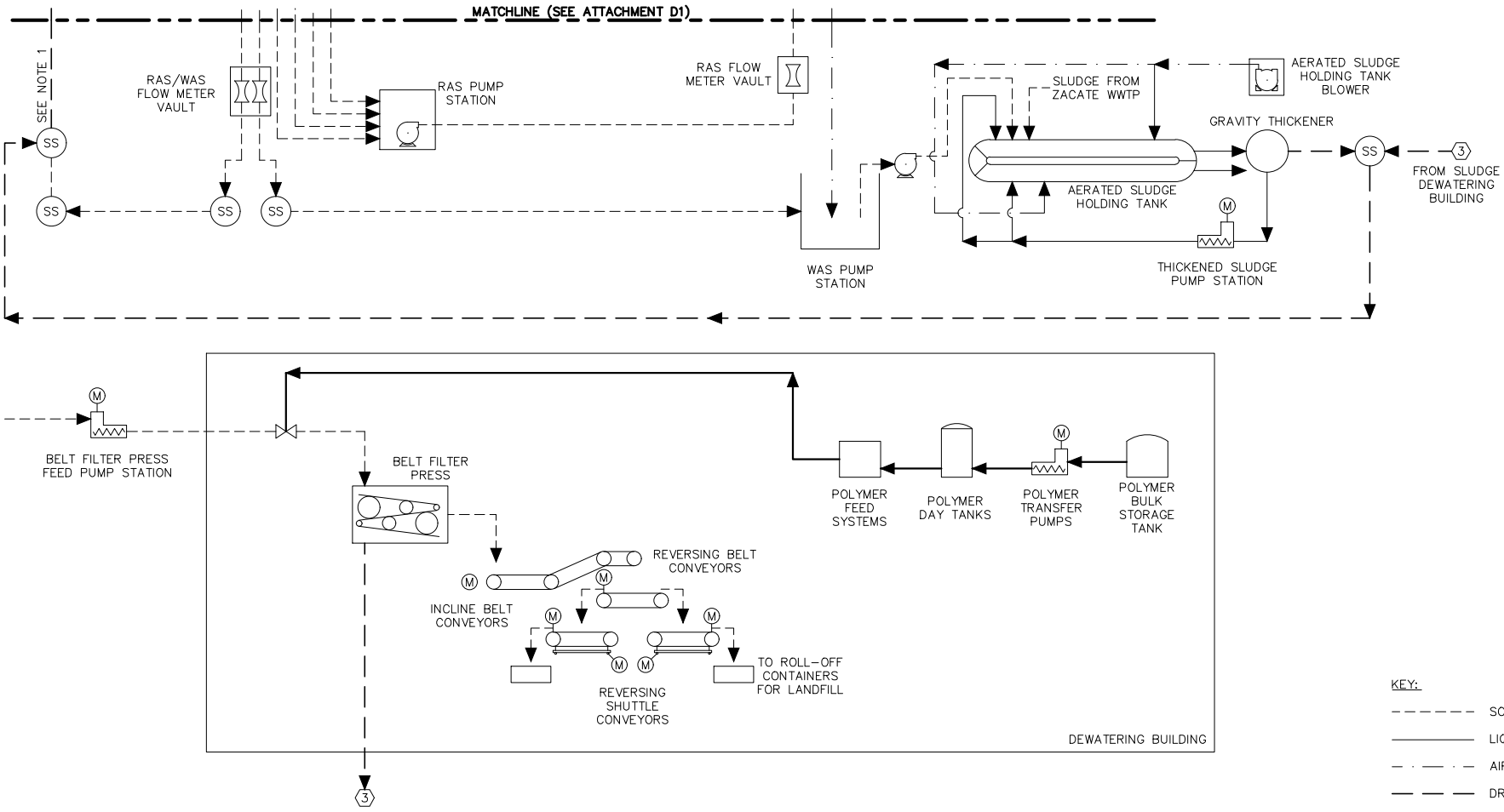
- SOLID
- LIQUID
- AIR
- DRAIN
- CHEMICAL
- CHLORINE SOLUTION ADDED
- SS MANHOLE

ATTACHMENT D1
CITY OF LAREDO
SOUTH LAREDO WASTEWATER TREATMENT FACILITY
TPDES PERMIT RENEWAL APPLICATION
PROCESS FLOW DIAGRAM

NOTES:

1. NOT ALL MANHOLES ARE SHOWN FOR CLARITY.
2. EFFLUENT FLOW IS MEASURED BASED ON THE LEVEL OVER THE WEIR IN THE CHLORINE CONTACT BASIN

PLUMMER



ATTACHMENT D2
CITY OF LAREDO
SOUTH LAREDO WASTEWATER TREATMENT FACILITY
TPDES PERMIT RENEWAL APPLICATION
PROCESS FLOW DIAGRAM

KEY:

- SOLID
- LIQUID
- AIR
- DRAIN
- CHEMICAL
- CHLORINE SOLUTION ADDED
- SS MANHOLE

NOTES:

1. NOT ALL MANHOLES ARE SHOWN FOR CLARITY.
2. EFFLUENT FLOW IS MEASURED BASED ON THE LEVEL OVER THE WEIR IN THE CHLORINE CONTACT BASIN

ATTACHMENT E

Site Drawing
Tech Rpt. 1.0, Section 4

PLUMMER

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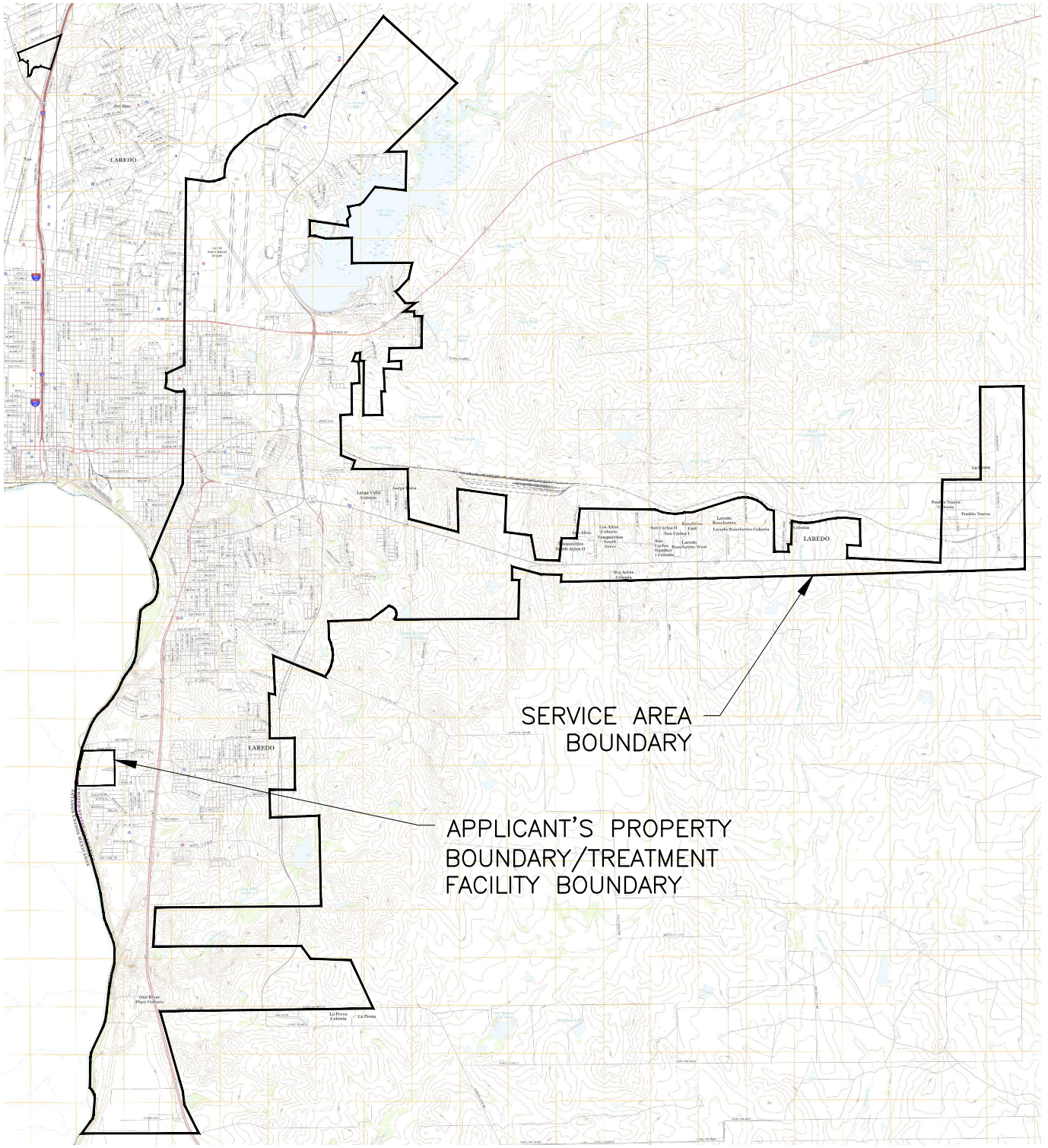

ATTACHMENT E
CITY OF LAREDO
SOUTH LAREDO WASTEWATER TREATMENT FACILITY
TPDES PERMIT RENEWAL APPLICATION
SITE DRAWING

TEXAS REGISTERED ENGINEERING FIRM F-13
1/30/2020 1:16 PM M:\Projects\1107\001-01\2-0 Wrk Prod\2-1 ACAD\FIGURES\South Laredo\FIGURES\FIG-SITE.dwg Briand

ATTACHMENT F

Acceptance of Sludge from Other WWTPs
Tech Rpt. 1.0 Section 6.G.1

ATTACHMENT F.1
CITY OF LAREDO
SOUTH LAREDO WASTEWATER TREATMENT FACILITY
TPDES PERMIT RENEWAL APPLICATION

SOLIDS MANAGEMENT PLAN

Dimensions/Capacities of Sludge Handing Units/Processes:

Aerated Sludge Holding Tank:	(1) – 558 ft x 11.2 ft x 140 ft
Gravity Thickener:	(1) – 80 ft x 12 ft

$CBOD_5$ Removal:

Influent Concentration	254 mg/L
Effluent Concentration	20 mg/L
Net Removal	234 mg/L
Design Flow	18 MGD

Solids Generated:

Percentage of Design Flow	100%	75%	50%	25%
Pounds BOD_5/day Removed	35,128	26,346	17,546	8,782
Pounds of Dry Sludge Produced per Day*	29,859	22,394	14,929	7,465
Pounds of Wet Sludge Produced per Day**	2,985,880	2,239,410	1,492,940	746,470
Volume of Wet Sludge Produced per Day (gal)	358,306	268,730	179,153	89,577

*Assuming 0.85 lb of dry sludge produced per pound of BOD_5 removed

**Assuming 1.0% solids

MLSS Operating Range 2,500- 4,000 mg/L

Sludge Disposal

Dewatered sludge will be pumped into a dump truck and transported to a TCEQ-permitted landfill for sludge disposal.

ATTACHMENT F.2
CITY OF LAREDO
SOUTH LAREDO WASTEWATER TREATMENT FACILITY
TPDES PERMIT RENEWAL APPLICATION

ACCEPTANCE OF SLUDGE FROM OTHER WASTEWATER TREATMENT FACILITIES

The City of Laredo (City) owns and operates the South Laredo Wastewater Treatment Facility (WWTF). The design BOD_5 concentration of the influent at the South Laredo WWTF is 200-350 mg/l. The following table provides a description of the sludge that is accepted from other WWTF owned by the City at the South Laredo WWTF. This has changed since the last permit action.

WWTF	Acceptance Date	Estimated Monthly Sludge Acceptance (gal/month)	Estimate BOD_5 of Sludge (mg/l)
Zacate Creek	1987	11,000,000	170
Unitec	1993	60,000	80-500
Laredo-Columbia	1991	2,000	75-115
Penitas	2012	3,500	--

ATTACHMENT G

Pollutant Analysis of Treated Effluent
Tech Rpt. 1.0, Section 7;
Wksht 4.0 Sections 1 and 2

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Corpus Christi
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Tel: (361)289-2673

Laboratory Job ID: 560-84052-1
Client Project/Site: South Laredo WWTP TPDES Application12/19

For:
City of Laredo
5816 Daugherty Avenue
Laredo, Texas 78041

Attn: Saad Hassoun

Authorized for release by:
1/27/2020 1:11:48 PM
Tiffany Fleming, Project Management Assistant I
(361)289-2673
tiffany.fleming@testamericainc.com

Designee for

Lindy Maingot, Project Manager I
(210)344-9751
lindy.maingot@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Definitions/Glossary

Client: City of Laredo
Job ID: 560-84052-1
Project/Site: South Laredo WWTP TPDES Application12/19

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 560-84052-1

Laboratory: Eurofins TestAmerica, Corpus Christi

Narrative

Job Narrative
560-84052-1

Comments
No additional comments.

Receipt
The sample was received on 12/20/2019 8:15 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.4° C.

GC Semi VOA
Method 8081B: The continuing calibration verification (CCV) associated with batch 280-482024 recovered outside of the control limits (20%) low on the Back Column for the surrogates, DCB Decachlorobiphenyl at -24.8% and Tetrachloro-m-xylene at -29%. The samples associated with this CCV were reported from the Front Column, which was within control limits; therefore, the data have been reported. The following sample is impacted: (CCV 280-482024/46).

Method 8081B: The batch did not contain an LCS with AP9 spike. LCS not reporting anything other than surrogate. (LCS 280-481601/2-A) and (LCSD 280-481601/3-A)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method SM5210B CBOD: The correction factor for the Seeded Control Blank (SCB) for batch 560-170104 was outside the method range of 0.6 to 1.0 mg/L. Thus, there is added uncertainty for the associated sample results.

Methods 300.0, 9056: The following samples were diluted due to the nature of the sample matrix: South WWTP (560-84052-1), (560-83999-A-1 ^25), (560-83999-A-1 MS) and (560-83999-A-1 MSD). Elevated reporting limits (RLs) are provided.

Method 300.0: The following sample was analyzed outside of analytical holding time due to system outages. South WWTP (560-84052-1)

Method 300.0: The instrument blank for analytical batch 560-170350 contained NO3 greater than the method detection limit (MDL), and were not reanalyzed because recovery was less than the RL. The data have been qualified and reported.

Method 351.2: The following sample was analyzed outside of analytical holding time due to analysts oversight: South WWTP (560-84052-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
Methods 3510C, 608: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 280-481601. LCSDs were prepared instead as per QA requirements. South WWTP (560-84052-1)

Method 615: Elevated reporting limits are provided for the following sample due to insufficient sample provided for preparation: South WWTP (560-84052-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: City of Laredo
Job ID: 560-84052-1
Project/Site: South Laredo WWTP TPDES Application12/19

Client Sample ID: South WWTP
Lab Sample ID: 560-84052-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Oil & Grease (HEM)	1.5	J	4.8	1.3	mg/L	1		1664A	Total/NA
Chloride	241		25.0	4.80	mg/L	25		300.0	Total/NA
Nitrate as N	19.6	H B	12.5	2.58	mg/L	25		300.0	Total/NA
Sulfate	319		25.0	9.43	mg/L	25		300.0	Total/NA
Nitrogen, Kjeldahl	1.57	H	1.00	0.432	mg/L	1		351.2	Total/NA
Total Alkalinity as CaCO3	52.0		5.00	5.00	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	1060		20.0	20.0	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	7.00		2.00	2.00	mg/L	1		SM 2540D	Total/NA
Fluoride	0.664		0.100	0.0200	mg/L	1		SM 4500 F C	Total/NA
Total Phosphorus	3.75		0.500	0.210	mg/L	10		SM4500 P E-1999	Total/NA
Carbonaceous Biochemical Oxygen Demand	3.67		2.00	2.00	mg/L	1		SM5210B CBOD	Total/NA

This Detection Summary does not include radiochemical test results.

Client: City of Laredo
Job ID: 560-84052-1
Project/Site: South Laredo WWTP TPDES Application12/19

Client Sample ID: South WWTP
Lab Sample ID: 560-84052-1
Date Collected: 12/19/19 10:00
Matrix: Water
Date Received: 12/20/19 08:15

Method: 615 - Chlorinated Herbicides in Industrial & Municipal Wastewater

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	0.0638	U	0.532	0.0638	ug/L		12/26/19 12:39	12/31/19 14:24	1
Silvex (2,4,5-TP)	0.0532	U	0.532	0.0532	ug/L		12/26/19 12:39	12/31/19 14:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*113*		*10 - 125*	*12/26/19 12:39*	*12/31/19 14:24*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dicofol	5.25	U	10.5	5.25	ug/L		12/26/19 10:52	01/01/20 02:57	1
Mirex	0.0127	U	0.0525	0.0127	ug/L		12/26/19 10:52	01/01/20 02:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*45*		*34 - 122*	*12/26/19 10:52*	*01/01/20 02:57*	*1*
Tetrachloro-m-xylene	*64*		*28 - 115*	*12/26/19 10:52*	*01/01/20 02:57*	*1*

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	1.40	U	5.00	1.40	ug/L		12/20/19 10:20	12/20/19 17:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	**1.5**	**J**	4.8	1.3	mg/L			12/20/19 09:05	1
Chloride	**241**		25.0	4.80	mg/L			12/31/19 20:36	25
Nitrate as N	**19.6**	**H B**	12.5	2.58	mg/L			12/31/19 20:36	25
Sulfate	**319**		25.0	9.43	mg/L			12/31/19 20:36	25
Nitrogen, Kjeldahl	**1.57**	**H**	1.00	0.432	mg/L			01/21/20 14:39	1
Total Alkalinity as CaCO3	**52.0**		5.00	5.00	mg/L			12/27/19 13:45	1
Total Dissolved Solids	**1060**		20.0	20.0	mg/L			12/24/19 14:50	1
Total Suspended Solids	**7.00**		2.00	2.00	mg/L			12/20/19 11:15	1
Chromium VI	3.00	U	5.00	3.00	ug/L			12/20/19 09:00	1
Cr (III)	5.00	U	5.00	5.00	ug/L			12/26/19 13:27	1
Fluoride	**0.664**		0.100	0.0200	mg/L			12/23/19 09:30	1
Ammonia as N	0.0450	U	0.200	0.0450	mg/L			12/23/19 16:15	1
Total Phosphorus	**3.75**		0.500	0.210	mg/L		12/31/19 01:56	12/31/19 06:08	10
Carbonaceous Biochemical Oxygen Demand	**3.67**		2.00	2.00	mg/L			12/21/19 09:30	1

Method: 615 - Chlorinated Herbicides in Industrial & Municipal Wastewater

Lab Sample ID: MB 600-284083/1-A
Matrix: Water
Analysis Batch: 284438

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 284083

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	0.0600	U	0.500	0.0600	ug/L		12/26/19 12:39	12/31/19 13:11	1
Silvex (2,4,5-TP)	0.0500	U	0.500	0.0500	ug/L		12/26/19 12:39	12/31/19 13:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*106*		*10 - 125*	*12/26/19 12:39*	*12/31/19 13:11*	*1*

Lab Sample ID: LCS 600-284083/2-A
Matrix: Water
Analysis Batch: 284438

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 284083

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
2,4-D			0.400	0.4343	J	ug/L		109	25 - 151		
Silvex (2,4,5-TP)			0.400	0.3647	J	ug/L		91	47 - 136		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*110*		*10 - 125*

Lab Sample ID: LCSD 600-284083/3-A
Matrix: Water
Analysis Batch: 284438

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 284083

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4-D			0.400	0.5101		ug/L		128	25 - 151	16	20
Silvex (2,4,5-TP)			0.400	0.4028	J	ug/L		101	47 - 136	10	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*121*		*10 - 125*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 280-481601/1-A
Matrix: Water
Analysis Batch: 482024

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 481601

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dicofol	5.00	U	10.0	5.00	ug/L		12/26/19 10:52	01/01/20 04:08	1
Mirex	0.0121	U	0.0500	0.0121	ug/L		12/26/19 10:52	01/01/20 04:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*86*		*34 - 122*	*12/26/19 10:52*	*01/01/20 04:08*	*1*
Tetrachloro-m-xylene	*76*		*28 - 115*	*12/26/19 10:52*	*01/01/20 04:08*	*1*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 280-481601/2-A
Matrix: Water
Analysis Batch: 482024

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 481601

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	86		34 - 122
Tetrachloro-m-xylene	66		28 - 115

Lab Sample ID: LCSD 280-481601/3-A
Matrix: Water
Analysis Batch: 482024

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 481601

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl	89		34 - 122
Tetrachloro-m-xylene	71		28 - 115

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 560-170073/1-A
Matrix: Water
Analysis Batch: 170101

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 170073

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	1.40	U	5.00	1.40	ug/L		12/20/19 10:20	12/20/19 17:39	1

Lab Sample ID: MB 560-170073/1-A
Matrix: Water
Analysis Batch: 170119

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 170073

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	1.40	U	5.00	1.40	ug/L		12/20/19 10:20	12/20/19 23:15	1

Lab Sample ID: LCS 560-170073/2-A
Matrix: Water
Analysis Batch: 170101

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 170073

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	250	246.9		ug/L		99	85 - 115

Lab Sample ID: LCS 560-170073/2-A
Matrix: Water
Analysis Batch: 170119

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 170073

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	250	252.5		ug/L		101	85 - 115

Lab Sample ID: 560-84052-1 MS
Matrix: Water
Analysis Batch: 170101

Client Sample ID: South WWTP
Prep Type: Total/NA
Prep Batch: 170073

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	1.40	U	250	249.8		ug/L		100	70 - 130

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: 560-84052-1 MS
Matrix: Water
Analysis Batch: 170119

Client Sample ID: South WWTP
Prep Type: Total/NA
Prep Batch: 170073

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	1.40	U	250	256.8		ug/L		103	70 - 130

Lab Sample ID: 560-84052-1 MSD
Matrix: Water
Analysis Batch: 170101

Client Sample ID: South WWTP
Prep Type: Total/NA
Prep Batch: 170073

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium	1.40	U	250	249.7		ug/L		100	70 - 130	0	20

Lab Sample ID: 560-84052-1 MSD
Matrix: Water
Analysis Batch: 170119

Client Sample ID: South WWTP
Prep Type: Total/NA
Prep Batch: 170073

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium	1.40	U	250	259.4		ug/L		104	70 - 130	1	20

Method: 1664A - HEM and SGT-HEM

Lab Sample ID: MB 560-170094/1
Matrix: Water
Analysis Batch: 170094

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	1.4	U	5.0	1.4	mg/L			12/20/19 09:05	1

Lab Sample ID: LCS 560-170094/2
Matrix: Water
Analysis Batch: 170094

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Oil & Grease (HEM)	39.9	32.90		mg/L		82	78 - 114

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 560-170350/3
Matrix: Water
Analysis Batch: 170350

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.192	U	1.00	0.192	mg/L			12/31/19 12:26	1
Nitrate as N	0.2040	J	0.500	0.103	mg/L			12/31/19 12:26	1
Sulfate	0.377	U	1.00	0.377	mg/L			12/31/19 12:26	1

Lab Sample ID: LCS 560-170350/4
Matrix: Water
Analysis Batch: 170350

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	10.02		mg/L		100	90 - 110
Nitrate as N	5.00	5.031		mg/L		101	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 560-170350/4
Matrix: Water
Analysis Batch: 170350

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	20.0	20.37		mg/L		102	90 - 110

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 600-285760/10
Matrix: Water
Analysis Batch: 285760

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	0.432	U	1.00	0.432	mg/L			01/21/20 14:34	1

Lab Sample ID: LCS 600-285760/31
Matrix: Water
Analysis Batch: 285760

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Kjeldahl	10.0	9.861		mg/L		99	90 - 110

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 560-170269/1
Matrix: Water
Analysis Batch: 170269

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3	5.00	U	5.00	5.00	mg/L			12/27/19 13:45	1

Lab Sample ID: LCS 560-170269/2
Matrix: Water
Analysis Batch: 170269

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Alkalinity as CaCO3	100	90.00		mg/L		90	85 - 115

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 560-170228/1
Matrix: Water
Analysis Batch: 170228

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	10.0	U	10.0	10.0	mg/L			12/24/19 14:50	1

Lab Sample ID: LCS 560-170228/2
Matrix: Water
Analysis Batch: 170228

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	2250	2120		mg/L		94	90 - 110

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: 560-84052-1 DU
Matrix: Water
Analysis Batch: 170228

Client Sample ID: South WWTP
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1060		1112		mg/L		5	20

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 560-170084/1
Matrix: Water
Analysis Batch: 170084

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	2.00	U	2.00	2.00	mg/L			12/20/19 11:15	1

Lab Sample ID: LCS 560-170084/2
Matrix: Water
Analysis Batch: 170084

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	200	195.5		mg/L		98	80 - 120

Method: SM 3500 CR B - Chromium, Hexavalent

Lab Sample ID: MB 560-170106/10
Matrix: Water
Analysis Batch: 170106

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium VI	3.00	U	5.00	3.00	ug/L			12/20/19 09:00	1

Lab Sample ID: LCS 560-170106/11
Matrix: Water
Analysis Batch: 170106

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium VI	200	196.5		ug/L		98	85 - 115

Lab Sample ID: 560-84052-1 MS
Matrix: Water
Analysis Batch: 170106

Client Sample ID: South WWTP
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium VI	3.00	U	200	191.8		ug/L		96	85 - 115

Lab Sample ID: 560-84052-1 MSD
Matrix: Water
Analysis Batch: 170106

Client Sample ID: South WWTP
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium VI	3.00	U	200	191.8		ug/L		96	85 - 115	0	20

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 560-170130/3
Matrix: Water
Analysis Batch: 170130

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.0200	U	0.100	0.0200	mg/L			12/23/19 09:30	1

Lab Sample ID: LCS 560-170130/4
Matrix: Water
Analysis Batch: 170130

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.800	0.8210		mg/L		103	85 - 115

Method: SM 4500 NH3 G - Ammonia

Lab Sample ID: MB 560-170181/3
Matrix: Water
Analysis Batch: 170181

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia as N	0.0450	U	0.200	0.0450	mg/L			12/23/19 14:42	1

Lab Sample ID: LCS 560-170181/4
Matrix: Water
Analysis Batch: 170181

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia as N	2.50	2.556		mg/L		102	90 - 110

Method: SM4500 P E-1999 - Phosphorus

Lab Sample ID: MB 600-284391/3-A
Matrix: Water
Analysis Batch: 284395

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 284391

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Phosphorus	0.0210	U	0.0500	0.0210	mg/L		12/31/19 01:56	12/31/19 06:08	1

Lab Sample ID: LCS 600-284391/4-A
Matrix: Water
Analysis Batch: 284395

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 284391

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Phosphorus	0.500	0.5074		mg/L		101	90 - 110

Method: SM5210B CBOD - Carbonaceous BOD, 5 Day

Lab Sample ID: USB 560-170104/1
Matrix: Water
Analysis Batch: 170104

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbonaceous Biochemical Oxygen Demand	2.00	U	2.00	2.00	mg/L			12/21/19 09:30	1

Method: SM5210B CBOD - Carbonaceous BOD, 5 Day (Continued)

Lab Sample ID: USB 560-170104/2
Matrix: Water
Analysis Batch: 170104

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbonaceous Biochemical Oxygen Demand	2.00	U	2.00	2.00	mg/L			12/21/19 09:30	1

Lab Sample ID: LCS 560-170104/3
Matrix: Water
Analysis Batch: 170104

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Carbonaceous Biochemical Oxygen Demand			198	168.0		mg/L		85	84.6 - 115.4		

Accreditation/Certification Summary

Client: City of Laredo
Job ID: 560-84052-1
Project/Site: South Laredo WWTP TPDES Application12/19

Laboratory: Eurofins TestAmerica, Corpus Christi

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704210-19-23	03-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
SM 2540C		Water	Total Dissolved Solids
SM 3500 CR D		Water	Cr (III)
SM5210B CBOD		Water	Carbonaceous Biochemical Oxygen Demand

Laboratory: Eurofins TestAmerica, Denver

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-21
A2LA	ISO/IEC 17025	2907.01	10-31-21
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	01-08-20 *
Arizona	State	AZ0713	12-20-20
Arkansas DEQ	State	19-047-0	06-01-20
California	State	2513	01-08-20 *
Connecticut	State	PH-0686	09-30-20
Florida	NELAP	E87667-57	06-30-20
Georgia	State	4025-011	01-08-20
Illinois	NELAP	2000172019-1	04-30-20
Iowa	State	IA#370	12-01-20
Kansas	NELAP	E-10166	04-30-20
Louisiana	NELAP	30785	06-30-20
Maine	State	2019011 (231)	03-03-21
Minnesota	NELAP	1788752	12-31-20
Nevada	State	CO000262020-1	07-31-20
New Hampshire	NELAP	205319	04-28-20
New Jersey	NELAP	190002	06-30-20
North Carolina (WW/SW)	State	358	12-31-20
North Dakota	State	R-034	01-08-20 *
Oklahoma	State	2018-006	08-31-20
Pennsylvania	NELAP	013	08-01-20
South Carolina	State	72002001	01-08-20 *
Texas	NELAP	T104704183-19-17	09-30-20
US Fish & Wildlife	Federal		07-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	Federal		03-26-21
USDA	US Federal Programs	P330-18-00099	03-26-21
Utah	NELAP	CO000262019-11	07-31-20
Virginia	NELAP	10490	06-14-20
Washington	State	C583-19	08-05-20
West Virginia DEP	State	354	11-30-20
Wisconsin	State	999615430	08-31-20
Wyoming (UST)	A2LA	2907.01	10-31-21

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: City of Laredo
Job ID: 560-84052-1
Project/Site: South Laredo WWTP TPDES Application12/19

Laboratory: Eurofins TestAmerica, Houston

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704223-19-25	10-31-20

Method Summary

Client: City of Laredo
Job ID: 560-84052-1
Project/Site: South Laredo WWTP TPDES Application12/19

Method	Method Description	Protocol	Laboratory
615	Chlorinated Herbicides in Industrial & Municipal Wastewater	EPA-01	TAL HOU
8081B	Organochlorine Pesticides (GC)	SW846	TAL DEN
200.8	Metals (ICP/MS)	EPA	TAL CC
1664A	HEM and SGT-HEM	1664A	TAL CC
300.0	Anions, Ion Chromatography	MCAWW	TAL CC
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL HOU
SM 2320B	Alkalinity	SM	TAL CC
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL CC
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL CC
SM 3500 CR B	Chromium, Hexavalent	SM	TAL CC
SM 3500 CR D	Chromium, Trivalent	SM	TAL CC
SM 4500 F C	Fluoride	SM	TAL CC
SM 4500 NH3 G	Ammonia	SM	TAL CC
SM4500 P E-1999	Phosphorus	SM	TAL HOU
SM5210B CBOD	Carbonaceous BOD, 5 Day	SM	TAL CC
200.8	Preparation, Total Metals	EPA	TAL CC
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL DEN
615	Liquid-Liquid Extraction	EPA-01	TAL HOU
SM 4500 P B	Sample Preparation for Total and Ortho Phosphorus	SM	TAL HOU

Protocol References:

1664A = EPA-821-98-002
EPA = US Environmental Protection Agency
EPA-01 = "Methods For The Determination Of Nonconventional Pesticides In Municipal And Industrial Wastewater", EPA/821/R/92/002, April 1992.
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CC = Eurofins TestAmerica, Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2673
TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100
TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Sample Summary

Client: City of Laredo
Job ID: 560-84052-1
Project/Site: South Laredo WWTP TPDES Application12/19

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
560-84052-1	South WWTP	Water	12/19/19 10:00	12/20/19 08:15	

Eurofins TestAmerica, Corpus Christi
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone (361) 289-2673 Fax (361) 289-2471

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler:	Lab PM: Maingot, Lindy	Carrier Tracking No(s):	COC No: 560-30732-5057.1
Client Contact: Saad Hassoun	Phone:	E-Mail: lindy.maingot@testamericainc.com	Loc: 560 84052	Page: Page 1 of 1
Company: City of Laredo				Job #: 84052
Address: 5816 Daugherty Avenue	Due Date Requested:			
City: Laredo	TAT Requested (days):			
State, Zip: TX, 78041				
Phone: 956-795-2720(Tel)	PO #: Pre-Payment by CC Required			
Email: shassoun@ci.laredo.tx.us	WO #:			
Project Name: South Laredo WWTP TPDES Application	Project #: 56007964			
Site:	SSOW#:			

Analysis Request

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8081B - (MOD) Copy Analytes	SM4500NH3_G - Local Method	2320B	200.8 - (MOD) Copy Analytes	2540C_Calcd	1664A_NP - Local Method	351.2_NP, 4500_P_E	615 - (MOD) Custom List	4500_F_C	3500_CR_B , 3500_CR3_D***	300	SM5210B_CBOD_5D	2540D	Total Number of containers	Special Instructions/Note:
				Preservation Code:			N	S	N	D	N	A	S	N							
South WWTP	~~12/19/19~~	10:00	comp	Water			X	X	X	X	X	X	X	X	X	X	X	X	2	2	***short hold time
	~~Comp~~		comp	Water																	ALL Test must meet the MAL Standard methods

560-84052 Chain of Custody

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	SAAD HASSOUN	121919 - 12 pm			12/20/19 8:15	ET
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		1.6 IR13 1.4 CF

Ver: 01/16/2019

Eurofins TestAmerica, Corpus Christi
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone: 361-289-2673 Fax: 361-289-2471

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Maingot, Lindy	Carrier Tracking No(s):	COC No: 560-20670.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: lindy.maingot@testamericainc.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 560-84052-1
Address: 6310 Rothway Street, ,	Due Date Requested: 1/6/2020			
City: Houston	TAT Requested (days):			
State, Zip: TX, 77040				
Phone: 713-690-4444(Tel) 713-690-5646(Fax)	PO #:			
Email:	WO #:			
Project Name: South Laredo WWTP TPDES Application12/19	Project #: 56007964			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	351.2_NP	4500_P_E/SM4500_P_B	615/615_Prep (MOD) Custom List	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
South WWTP (560-84052-1)	12/19/19	10:00 Central		Water			X	X	X	8	

560-84052 Chain of Custody

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Relinquished by: [signature]	Date/Time: 12-20-19 1700	Company: ETA	Received by: [signature]	Date/Time: 12/23/19 1215	Company: TAL
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Eurofins TestAmerica Houston

Loc: 560
84052

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19 DEC 23 12:15

Sample Receipt Checklist

Date/Time Received: _____

JOB NUMBER: _____ CLIENT: TA-Corpus

UNPACKED BY: YP CARRIER/DRIVER: Fedex

Custody Seal Present: ☑YES ☐NO Number of Coolers Received: 1

Cooler ID	Temp Blank	Trip Blank	Observed Temp (℃)	Therm ID	Therm CF	Corrected Temp (℃)
8715BW	~~Y~~ / N	Y / ~~N~~	0.8	678	-0.3	0.5
	Y / N	Y / N				
	~~Y~~ / ~~N~~	~~Y~~ / ~~N~~				
	Y / N	Y / N				
	Y / ~~N~~	~~Y~~ / N				YP 12/23/19
	Y / N	Y / N				

CF = correction factor

Samples received on ice? ☑YES ☐NO

LABORATORY PRESERVATION OF SAMPLES REQUIRED: ☑NO ☐YES

Base samples are>pH 12: ☐YES ☐NO Acid preserved are<pH 2: ☑YES ☐NO

TX1005 samples frozen upon receipt: ☐ YES DATE & TIME PUT IN FREEZER: _____

pH paper Lot # HC991818 VOA headspace acceptable (5-6mm): ☐YES ☐NO ☐NA

Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	☑YES	☐ NO

COMMENTS:

YP 12/23/19

HS-SA-WI-013 Rev. 4A; 08/26/2019

Login Sample Receipt Checklist

Client: City of Laredo

Job Number: 560-84052-1

Login Number: 84052
List Number: 1
Creator: Vela, Kathryn

List Source: Eurofins TestAmerica, Corpus Christi

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

Login Sample Receipt Checklist

Client: City of Laredo

Job Number: 560-84052-1

Login Number: 84052
List Number: 2
Creator: Bunzli, Eric K

List Source: Eurofins TestAmerica, Denver
List Creation: 12/21/19 01:57 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: City of Laredo

Job Number: 560-84052-1

Login Number: 84052
List Number: 3
Creator: Rubio, Yuri

List Source: Eurofins TestAmerica, Houston
List Creation: 12/24/19 04:46 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

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ANALYTICAL REPORT

Eurofins TestAmerica, Corpus Christi
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Tel: (361)289-2673

Laboratory Job ID: 560-81851-1
Client Project/Site: SLWWTP Table III South Lardeo 8/21/19
Sampling Event: SLWWTP - Effluent & Influent

For:
City of Laredo
5816 Daugherty Avenue
Laredo, Texas 78041

Attn: Erica Solis

Authorized for release by:
9/3/2019 3:18:44 PM
Tiffany Fleming, Project Management Assistant I
(361)289-2673
tiffany.fleming@testamericainc.com

Designee for

Lindy Maingot, Project Manager I
(210)344-9751
lindy.maingot@testamericainc.com

Definitions/Glossary

Client: City of Laredo
Job ID: 560-81851-1
Project/Site: SLWWTP Table III South Lardeo 8/21/19

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: City of Laredo
Job ID: 560-81851-1
Project/Site: SLWWTP Table III South Lardeo 8/21/19

Job ID: 560-81851-1

Laboratory: Eurofins TestAmerica, Corpus Christi

Narrative

Job Narrative
560-81851-1

Comments
No additional comments.

Receipt
The samples were received on 8/22/2019 8:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was -2.3º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method(s) 420.4: The method blank for preparation batch 600-273358 and analytical batch 600-273442 contained Phenols, Total above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: City of Laredo
Job ID: 560-81851-1
Project/Site: SLWWTP Table III South Lardeo 8/21/19

Client Sample ID: SLWWTP - Effluent
Lab Sample ID: 560-81851-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.00064		0.00050	0.00014	ug/L	1		1631E	Total/NA
Arsenic	1.6		1.0	0.17	ug/L	1		200.8	Total Recoverable
Copper	3.7		2.0	0.99	ug/L	1		200.8	Total Recoverable
Nickel	1.6		1.0	0.46	ug/L	1		200.8	Total Recoverable
Antimony	0.68	J	2.0	0.35	ug/L	1		200.8	Total Recoverable
Zinc	31		5.0	2.2	ug/L	1		200.8	Total Recoverable
Aluminum	49		30	12	ug/L	1		200.8	Total Recoverable
Barium	60		10	1.2	ug/L	1		200.8	Total Recoverable
Cyanide, Total	4.4	J	10	3.1	ug/L	1		335.4	Total/NA
Phenols, Total	3.1	J B	5.0	2.8	ug/L	1		420.4	Total/NA

Client Sample ID: SLWWTP - Influent
Lab Sample ID: 560-81851-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.018		0.0025	0.00070	ug/L	5		1631E	Total/NA
Arsenic	2.6		1.0	0.17	ug/L	1		200.8	Total Recoverable
Chromium	1.3	J	2.0	0.58	ug/L	1		200.8	Total Recoverable
Copper	36		2.0	0.99	ug/L	1		200.8	Total Recoverable
Nickel	3.3		1.0	0.46	ug/L	1		200.8	Total Recoverable
Lead	1.2		1.0	0.16	ug/L	1		200.8	Total Recoverable
Antimony	0.81	J	2.0	0.35	ug/L	1		200.8	Total Recoverable
Selenium	1.0	J	5.0	0.81	ug/L	1		200.8	Total Recoverable
Thallium	0.32	J	1.0	0.12	ug/L	1		200.8	Total Recoverable
Zinc	120		5.0	2.2	ug/L	1		200.8	Total Recoverable
Aluminum	520		30	12	ug/L	1		200.8	Total Recoverable
Barium	92		10	1.2	ug/L	1		200.8	Total Recoverable
Phenols, Total	55	B	5.0	2.8	ug/L	1		420.4	Total/NA

Client Sample ID: SLWWTP - Effluent FB
Lab Sample ID: 560-81851-3

No Detections.

Client Sample ID: SLWWTP - Influent FB
Lab Sample ID: 560-81851-4

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Corpus Christi

Client: City of Laredo
Job ID: 560-81851-1
Project/Site: SLWWTP Table III South Lardeo 8/21/19

Client Sample ID: SLWWTP - Effluent
Lab Sample ID: 560-81851-1
Date Collected: 08/21/19 10:00
Matrix: Water
Date Received: 08/22/19 08:15

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00064**		0.00050	0.00014	ug/L		08/27/19 14:45	08/29/19 10:05	1

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.22		1.0	0.22	ug/L		08/26/19 09:37	08/30/19 14:55	1
Arsenic	**1.6**		1.0	0.17	ug/L		08/26/19 09:37	08/30/19 14:55	1
Beryllium	<0.087		1.0	0.087	ug/L		08/26/19 09:37	08/30/19 14:55	1
Chromium	<0.58		2.0	0.58	ug/L		08/26/19 09:37	08/30/19 14:55	1
Copper	**3.7**		2.0	0.99	ug/L		08/26/19 09:37	08/30/19 14:55	1
Nickel	**1.6**		1.0	0.46	ug/L		08/26/19 09:37	08/30/19 14:55	1
Lead	<0.16		1.0	0.16	ug/L		08/26/19 09:37	08/30/19 14:55	1
Antimony	**0.68**	**J**	2.0	0.35	ug/L		08/26/19 09:37	08/30/19 14:55	1
Selenium	<0.81		5.0	0.81	ug/L		08/26/19 09:37	08/30/19 14:55	1
Thallium	<0.12		1.0	0.12	ug/L		08/26/19 09:37	08/30/19 14:55	1
Zinc	**31**		5.0	2.2	ug/L		08/26/19 09:37	08/30/19 14:55	1
Aluminum	**49**		30	12	ug/L		08/26/19 09:37	08/30/19 14:55	1
Barium	**60**		10	1.2	ug/L		08/26/19 09:37	08/30/19 14:55	1
Cadmium	<0.21		1.0	0.21	ug/L		08/26/19 09:37	08/30/19 14:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**4.4**	**J**	10	3.1	ug/L		08/28/19 15:50	08/28/19 19:23	1
Phenols, Total	**3.1**	**J B**	5.0	2.8	ug/L		08/29/19 15:18	08/30/19 10:56	1

Client Sample ID: SLWWTP - Influent
Lab Sample ID: 560-81851-2
Date Collected: 08/21/19 10:00
Matrix: Water
Date Received: 08/22/19 08:15

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.018**		0.0025	0.00070	ug/L		08/27/19 14:45	08/29/19 10:09	5

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.22		1.0	0.22	ug/L		08/26/19 09:37	08/30/19 15:28	1
Arsenic	**2.6**		1.0	0.17	ug/L		08/26/19 09:37	08/30/19 15:28	1
Beryllium	<0.087		1.0	0.087	ug/L		08/26/19 09:37	08/30/19 15:28	1
Chromium	**1.3**	**J**	2.0	0.58	ug/L		08/26/19 09:37	08/30/19 15:28	1
Copper	**36**		2.0	0.99	ug/L		08/26/19 09:37	08/30/19 15:28	1
Nickel	**3.3**		1.0	0.46	ug/L		08/26/19 09:37	08/30/19 15:28	1
Lead	**1.2**		1.0	0.16	ug/L		08/26/19 09:37	08/30/19 15:28	1
Antimony	**0.81**	**J**	2.0	0.35	ug/L		08/26/19 09:37	08/30/19 15:28	1
Selenium	**1.0**	**J**	5.0	0.81	ug/L		08/26/19 09:37	08/30/19 15:28	1
Thallium	**0.32**	**J**	1.0	0.12	ug/L		08/26/19 09:37	08/30/19 15:28	1
Zinc	**120**		5.0	2.2	ug/L		08/26/19 09:37	08/30/19 15:28	1
Aluminum	**520**		30	12	ug/L		08/26/19 09:37	08/30/19 15:28	1
Barium	**92**		10	1.2	ug/L		08/26/19 09:37	08/30/19 15:28	1
Cadmium	<0.21		1.0	0.21	ug/L		08/26/19 09:37	08/30/19 15:28	1

Client: City of Laredo
Job ID: 560-81851-1
Project/Site: SLWWTP Table III South Lardeo 8/21/19

Client Sample ID: SLWWTP - Influent
Lab Sample ID: 560-81851-2
Date Collected: 08/21/19 10:00
Matrix: Water
Date Received: 08/22/19 08:15

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<3.1		10	3.1	ug/L		08/28/19 15:50	08/28/19 19:24	1
Phenols, Total	**55**	**B**	5.0	2.8	ug/L		08/29/19 15:18	08/30/19 10:57	1

Client Sample ID: SLWWTP - Effluent FB
Lab Sample ID: 560-81851-3
Date Collected: 08/21/19 10:00
Matrix: Water
Date Received: 08/22/19 08:15

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00014		0.00050	0.00014	ug/L		08/27/19 14:46	08/29/19 10:13	1

Client Sample ID: SLWWTP - Influent FB
Lab Sample ID: 560-81851-4
Date Collected: 08/21/19 10:00
Matrix: Water
Date Received: 08/22/19 08:15

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00014		0.00050	0.00014	ug/L		08/27/19 14:46	08/29/19 10:16	1

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 240-397917/1-A
Matrix: Water
Analysis Batch: 398036

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 397917

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00014		0.00050	0.00014	ug/L		08/27/19 14:45	08/28/19 13:19	1

Lab Sample ID: LCS 240-397917/2-A
Matrix: Water
Analysis Batch: 398036

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 397917

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00500	0.00494		ug/L		99	77 - 123

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 180-289275/1-A
Matrix: Water
Analysis Batch: 289954

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 289275

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.22		1.0	0.22	ug/L		08/26/19 09:37	08/30/19 14:03	1
Arsenic	<0.17		1.0	0.17	ug/L		08/26/19 09:37	08/30/19 14:03	1
Beryllium	<0.087		1.0	0.087	ug/L		08/26/19 09:37	08/30/19 14:03	1
Chromium	<0.58		2.0	0.58	ug/L		08/26/19 09:37	08/30/19 14:03	1
Copper	<0.99		2.0	0.99	ug/L		08/26/19 09:37	08/30/19 14:03	1
Nickel	<0.46		1.0	0.46	ug/L		08/26/19 09:37	08/30/19 14:03	1
Lead	<0.16		1.0	0.16	ug/L		08/26/19 09:37	08/30/19 14:03	1
Antimony	<0.35		2.0	0.35	ug/L		08/26/19 09:37	08/30/19 14:03	1
Selenium	<0.81		5.0	0.81	ug/L		08/26/19 09:37	08/30/19 14:03	1
Thallium	<0.12		1.0	0.12	ug/L		08/26/19 09:37	08/30/19 14:03	1
Zinc	<2.2		5.0	2.2	ug/L		08/26/19 09:37	08/30/19 14:03	1
Aluminum	<12		30	12	ug/L		08/26/19 09:37	08/30/19 14:03	1
Barium	<1.2		10	1.2	ug/L		08/26/19 09:37	08/30/19 14:03	1
Cadmium	<0.21		1.0	0.21	ug/L		08/26/19 09:37	08/30/19 14:03	1

Lab Sample ID: LCS 180-289275/2-A
Matrix: Water
Analysis Batch: 289954

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 289275

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	250	241		ug/L		96	85 - 115
Arsenic	1000	976		ug/L		98	85 - 115
Beryllium	500	475		ug/L		95	85 - 115
Chromium	500	453		ug/L		91	85 - 115
Copper	500	487		ug/L		97	85 - 115
Nickel	500	467		ug/L		93	85 - 115
Lead	500	494		ug/L		99	85 - 115
Antimony	250	228		ug/L		91	85 - 115
Selenium	1000	924		ug/L		92	85 - 115
Thallium	1000	1020		ug/L		102	85 - 115
Zinc	250	245		ug/L		98	85 - 115
Aluminum	5000	4710		ug/L		94	85 - 115
Barium	1000	914		ug/L		91	85 - 115

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 180-289275/2-A
Matrix: Water
Analysis Batch: 289954

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 289275

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	500	483		ug/L		97	85 - 115

Lab Sample ID: 560-81851-1 MS
Matrix: Water
Analysis Batch: 289954

Client Sample ID: SLWWTP - Effluent
Prep Type: Total Recoverable
Prep Batch: 289275

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	<0.22		250	250		ug/L		100	70 - 130
Arsenic	1.6		1000	1000		ug/L		100	70 - 130
Beryllium	<0.087		500	494		ug/L		99	70 - 130
Chromium	<0.58		500	456		ug/L		91	70 - 130
Copper	3.7		500	489		ug/L		97	70 - 130
Nickel	1.6		500	471		ug/L		94	70 - 130
Lead	<0.16		500	522		ug/L		104	70 - 130
Antimony	0.68	J	250	244		ug/L		97	70 - 130
Selenium	<0.81		1000	948		ug/L		95	70 - 130
Thallium	<0.12		1000	1040		ug/L		104	70 - 130
Zinc	31		250	279		ug/L		99	70 - 130
Aluminum	49		5000	5070		ug/L		100	70 - 130
Barium	60		1000	997		ug/L		94	70 - 130
Cadmium	<0.21		500	513		ug/L		103	70 - 130

Lab Sample ID: 560-81851-1 MSD
Matrix: Water
Analysis Batch: 289954

Client Sample ID: SLWWTP - Effluent
Prep Type: Total Recoverable
Prep Batch: 289275

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	<0.22		250	239		ug/L		96	70 - 130	4	20
Arsenic	1.6		1000	990		ug/L		99	70 - 130	1	20
Beryllium	<0.087		500	498		ug/L		100	70 - 130	1	20
Chromium	<0.58		500	459		ug/L		92	70 - 130	1	20
Copper	3.7		500	489		ug/L		97	70 - 130	0	20
Nickel	1.6		500	467		ug/L		93	70 - 130	1	20
Lead	<0.16		500	522		ug/L		104	70 - 130	0	20
Antimony	0.68	J	250	231		ug/L		92	70 - 130	6	20
Selenium	<0.81		1000	946		ug/L		95	70 - 130	0	20
Thallium	<0.12		1000	1020		ug/L		102	70 - 130	2	20
Zinc	31		250	271		ug/L		96	70 - 130	3	20
Aluminum	49		5000	5070		ug/L		100	70 - 130	0	20
Barium	60		1000	977		ug/L		92	70 - 130	2	20
Cadmium	<0.21		500	494		ug/L		99	70 - 130	4	20

Method: 335.4 - Cyanide, Total (Semi-Automated Colorimetry)

Lab Sample ID: MB 600-273242/1-A
Matrix: Water
Analysis Batch: 273252

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 273242

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<3.1		10	3.1	ug/L		08/28/19 15:50	08/28/19 19:18	1

Client: City of Laredo
Job ID: 560-81851-1
Project/Site: SLWWTP Table III South Lardeo 8/21/19

Method: 335.4 - Cyanide, Total (Semi-Automated Colorimetry)

Lab Sample ID: HLCS 600-273242/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 273252
Prep Batch: 273242

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	300	293		ug/L		98	90 - 110

Lab Sample ID: LLCS 600-273242/3-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 273252
Prep Batch: 273242

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	40.0	41.8		ug/L		105	90 - 110

Method: 420.4 - Phenolics, Total Recoverable

Lab Sample ID: MB 600-273358/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 273442
Prep Batch: 273358

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	3.22	J	5.0	2.8	ug/L		08/29/19 15:18	08/30/19 10:48	1

Lab Sample ID: LCS 600-273358/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 273442
Prep Batch: 273358

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenols, Total	100	96.3		ug/L		96	90 - 110

Accreditation/Certification Summary

Client: City of Laredo
Job ID: 560-81851-1
Project/Site: SLWWTP Table III South Lardeo 8/21/19

Laboratory: Eurofins TestAmerica, Corpus Christi

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704210-19-23	03-31-20

Laboratory: Eurofins TestAmerica, Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-23-20
California	State Program	2927	02-23-20
Connecticut	State	PH-0590	12-31-19
Connecticut	State Program	PH-0590	12-31-19
Florida	NELAP	E87225	06-30-20
Florida	NELAP	E87225	06-30-20
Georgia	State	4062	02-23-20
Georgia	State Program	N/A	02-23-20
Illinois	NELAP	200004	07-31-20
Illinois	NELAP	004498	07-31-20
Iowa	State Program	421	06-01-21
Kansas	NELAP	E-10336	04-30-20
Kansas	NELAP	E-10336	04-30-20
Kentucky (UST)	State Program	58	02-23-20
Kentucky (WW)	State	KY98016	12-31-19
Kentucky (WW)	State Program	98016	12-31-19
Minnesota	NELAP	039-999-348	12-31-19 *
Minnesota	NELAP	OH00048	12-31-19
Minnesota (Petrofund)	State Program	3506	07-31-21
New Jersey	NELAP	OH001	06-30-20
New Jersey	NELAP	OH001	06-30-20
New York	NELAP	10975	03-31-20
New York	NELAP	10975	03-31-20
Ohio VAP	State	CL0024	06-05-21
Ohio VAP	State Program	CL0024	06-05-21
Oregon	NELAP	4062	02-23-20
Oregon	NELAP	4062	02-23-20
Pennsylvania	NELAP	68-00340	08-31-19 *
Pennsylvania	NELAP	68-00340	08-31-19
Texas	NELAP	T104704517-19-11	08-31-20
Texas	NELAP	T104704517-18-10	08-31-19
USDA	Federal	P330-16-00404	12-28-19
Virginia	NELAP	460175	09-14-19 *
Virginia	NELAP	010101	09-14-19
Washington	State	C971	01-12-20
Washington	State Program	C971	01-12-20 *
West Virginia DEP	State	210	12-31-19
West Virginia DEP	State Program	210	12-31-19

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: City of Laredo
Job ID: 560-81851-1
Project/Site: SLWWTP Table III South Lardeo 8/21/19

Laboratory: Eurofins TestAmerica, Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State Program	19-040-0	08-04-20
Louisiana	NELAP	01967	06-30-20
Texas	NELAP	T104704223-18-23	10-31-19
USDA	Federal	P330-18-00130	04-30-21
Utah	NELAP	TX000832019-5	07-31-20

Accreditation/Certification Summary

Client: City of Laredo
Job ID: 560-81851-1
Project/Site: SLWWTP Table III South Lardeo 8/21/19

Laboratory: Eurofins TestAmerica, Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-20
Arkansas DEQ	State Program	88-0690	06-27-20
California	State	2891	04-30-20
California	State Program	2891	04-30-20
Connecticut	State	PH-0688	09-30-20
Connecticut	State Program	PH-0688	09-30-20
Florida	NELAP	E871008	06-30-20
Florida	NELAP	E871008	06-30-20
Illinois	NELAP	200005	06-30-20
Illinois	NELAP	004375	06-30-20
Kansas	NELAP	E-10350	01-31-20
Kansas	NELAP	E-10350	03-31-20
Kentucky (UST)	State Program	162013	04-30-20
Kentucky (WW)	State	KY98043	12-31-19
Kentucky (WW)	State Program	KY98043	12-31-19
Louisiana	NELAP	04041	06-30-20
Minnesota	NELAP	042-999-482	12-31-19
Minnesota	NELAP	042-999-482	12-31-19
Nevada	State	PA00164	07-31-20
Nevada	State Program	PA00164	07-31-20
New Hampshire	NELAP	2030	04-04-20
New Jersey	NELAP	PA005	06-30-20
New Jersey	NELAP	PA005	06-30-20
New York	NELAP	11182	03-31-20
New York	NELAP	11182	04-01-20
North Carolina (WW/SW)	State Program	434	12-31-19
North Dakota	State	R-227	04-30-20
North Dakota	State Program	R-227	04-30-20
Oregon	NELAP	PA-2151	02-06-20
Oregon	NELAP	PA-2151	02-06-20
Pennsylvania	NELAP	02-00416	04-30-20
Pennsylvania	NELAP	02-00416	04-30-20
Rhode Island	State	LAO00362	12-30-19
Rhode Island	State Program	LAO00362	12-30-19
South Carolina	State Program	89014	04-30-20
Texas	NELAP	T104704528-15-2	03-31-20
Texas	NELAP	T104704528	03-31-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	Federal	P-Soil-01	06-26-22
USDA	US Federal Programs	P330-16-00211	06-26-22
Utah	NELAP	PA001462015-4	05-31-20
Utah	NELAP	PA001462019-8	05-31-20
Virginia	NELAP	460189	09-14-19
Virginia	NELAP	10043	09-14-19
West Virginia DEP	State	142	01-31-20
West Virginia DEP	State Program	142	01-31-20
Wisconsin	State	998027800	08-31-19
Wisconsin	State Program	998027800	08-31-19

Method Summary

Client: City of Laredo
Job ID: 560-81851-1
Project/Site: SLWWTP Table III South Lardeo 8/21/19

Method	Method Description	Protocol	Laboratory
1631E	Mercury, Low Level (CVAFS)	EPA	TAL CAN
200.8	Metals (ICP/MS)	EPA	TAL PIT
335.4	Cyanide, Total (Semi-Automated Colorimetry)	MCAWW	TAL HOU
420.4	Phenolics, Total Recoverable	MCAWW	TAL HOU
1631E	Preparation, Mercury, Low Level	EPA	TAL CAN
200.8	Preparation, Total Recoverable Metals	EPA	TAL PIT
Distill/CN	Distillation, Cyanide	None	TAL HOU
Distill/Phenol	Distillation, Phenolics	None	TAL HOU

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

None = None

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Sample Summary

Client: City of Laredo
Job ID: 560-81851-1
Project/Site: SLWWTP Table III South Lardeo 8/21/19

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
560-81851-1	SLWWTP - Effluent	Water	08/21/19 10:00	08/22/19 08:15	
560-81851-2	SLWWTP - Influent	Water	08/21/19 10:00	08/22/19 08:15	
560-81851-3	SLWWTP - Effluent FB	Water	08/21/19 10:00	08/22/19 08:15	
560-81851-4	SLWWTP - Influent FB	Water	08/21/19 10:00	08/22/19 08:15	

TestAmerica Corpus Christi
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone (361) 289-2673 Fax (361) 289-2471

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Plant operator	Lab PM: Boyken, Nicole M	Carrier Tracking No(s):	COC No: 560-25430-3590.1
Client Contact: ~~Ms. Adriana Vela~~ Juan G. Rios	Phone: (956) 721-2000	E-Mail: nicole.boyken@testamericainc.com		Page: Page 1 of 1
Company: City of Laredo				Job #: Loc: 560 81851
Address: 5816 Daugherty Avenue	Due Date Requested:			
City: Laredo	TAT Requested (days):			
State, Zip: TX, 78041				
Phone: 956-721-2000(Tel) 956-721-2001(Fax)	PO #: 289759			
Email: ~~avela@ci.laredo.tx.us~~ jrios@ci.laredo.tx.us	WO #:			
Project Name: Table III South Laredo	Project #: 56000544			
Site: Texas	SSOW#:			

Pres
A - H
B - N
C - Z 2
D - N S
E - N 3
F - Me ZO3
G - Amchlor S - H2SO4
H - Ascorbic Acid T - TSP Dodecahydrate
I - Ice U - Acetone
J - DI Water V - MCAA
K - EDTA W - pH 4-5
L - EDA Z - other (specify)
Other:

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	200.8 - Metals (IPP Table III List) (PITTSBURGH)	420.4 - Total Phenols (HOUSTON)	335.4_NP - Total Cyanide (HOUSTON)	1631E - Low Level Mercury (CANTON)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	S	B	N		
SLWWTP Effluent	8/21/19	1000	C	Water			X	X	X	X	5	Effluent is a 12
SLWWTP Influent	8/21/19	1000	C	Water			X	X	X	X	5	pint composite
												from 1200hrD. to
												1000 hrm
												Influent is a 12
												pint composite
												from 1200 hrs
												to 1000 hrs
												the following day

560-81851 Chain of Custody

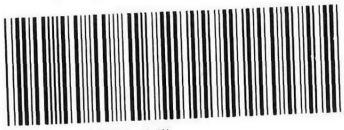
Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Juan G. Rios - Juan G. Rios	8/21/19 See air bill	City of Laredo		8/22/19 8:15	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: -2.4/-2.3 ZRO

Ver: 08/04/2016



560-81851 Waybill

ORIGIN ID:CRPA (361) 289-2673
SAMPLE RECEIVING
TESTAMERICA
1733 N. PADRE ISLAND DR.

CORPUS CHRISTI, TX 78408
UNITED STATES US

SHIP DATE: 22AUG19
ACTWGT: 17.30 LB
CAD: 0282075/CAFE3211

BILL RECIPIENT

TO **TESTAMERICA PITTSBURGH**
ATTN: SHIPPING/RECEIVING
301 ALPHA DR.
RIDC PARK
PITTSBURGH PA 15238

(412) 963-7058 REF:
INV:
PO: DEPT:

551C2/FS51/104C

FedEx Express

J181118060601uv

TRK# 0201 **1099 5583 2410**

FRI - 23 AUG 10:30A
PRIORITY OVERNIGHT

XH AGCA

15238
PA-US PIT

Uncorrected temp 3.4 °C
Thermometer ID 10
CF -0.3 Initials D
PT-WI-SR-001 effective 11/8/18

Part # 154-0254-364 RIT EXP 05/20

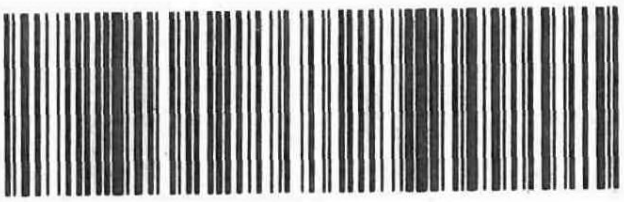
560-81851 Waybill

TRK# 0201 1099 5583 2443

FRI – 23 AUG 10:30A
PRIORITY OVERNIGHT

43 LKSA

77040
TX – US IAH

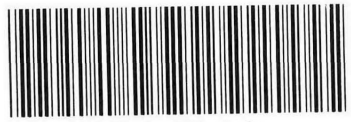


Part # 154254-354 RIT EXP 05/20

Eurofins TestAmerica, Corpus Christi
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone: 361-289-2673 Fax: 361-289-2471

MCT IDD

Chain of Custody Record



560-81851 Chain of Custody

Eurofins | Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Maingot, Lindy	lo: 9862.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: lindy.maingot@testameri	Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas	Job #: 560-81851-1
Address: 301 Alpha Drive, RIDC Park,	Due Date Requested: 8/29/2019		
City: Pittsburgh	TAT Requested (days):		
State, Zip: PA, 15238			
Phone: 412-963-7058(Tel) 412-963-2468(Fax)	PO #:		
Email:	WO #:		
Project Name: SLWWTP Table III South Lardeo 8/21/19	Project #: 56000544		
Site: City of Laredo	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	200.8/200.8_P_TR Metals , IPP Table III List (PITTS	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
SLWWTP - Effluent (560-81851-1)	8/21/19	10:00 Central		Water			X	1	
SLWWTP - Influent (560-81851-2)	8/21/19	10:00 Central		Water			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	8/22/19 17:00			8/23/19 840	TMH
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Eurofins TestAmerica, Corpus Christi
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone: 361-289-2673 Fax: 361-289-2471

4.2/4.3

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Maingot, Lindy	Carrier Tracking No(s):	COC No: 560-19861.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: lindy.maingot@testamericainc.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 560-81851-1
Address: 4101 Shuffel Street NW, ,	Due Date Requested: 8/30/2019			
City: North Canton	TAT Requested (days):			
State, Zip: OH, 44720				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #:			
Email:	WO #:			
Project Name: SLWWTP Table III South Lardeo 8/21/19	Project #: 56000544			
Site: City of Laredo	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1631E/1631E_Prep Low Level Mercury (CANTON)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
SLWWTP - Effluent (560-81851-1)	8/21/19	10:00 Central		Water			X	2	
SLWWTP - Influent (560-81851-2)	8/21/19	10:00 Central		Water			X	2	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		8/22/19 17:00			8-23-19 955	EAS
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Eurofins TestAmerica Canton Sample Receipt Form/Narrative **Login # :** _____
Canton Facility

Client EA Corpus Christi Site Name _____ Cooler unpacked by:

Cooler Received on 8-23-19 Opened on 8-23-19

FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time Storage Location

TestAmerica Cooler # TA Foam Box Client Cooler Box Other _____

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form
   IR GUN# IR-8 (CF **+0.1** °C) Observed Cooler Temp. 4.2 °C Corrected Cooler Temp. 4.3 °C
   IR GUN #36 (CF **+0.6**°C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No
   -Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
   -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
   -Were tamper/custody seals intact and uncompromised? Yes No NA
3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels be reconciled with the COC? Yes No
9. Were correct bottle(s) used for the test(s) indicated? Yes No
10. Sufficient quantity received to perform indicated analyses? Yes No
11. Are these work share samples? Yes No
    If yes, Questions 12-16 have been checked at the originating laboratory.
12. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# **HC987808**
13. Were VOAs on the COC? Yes No
14. Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this. Yes No NA
15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #_____ Yes No
16. Was a LL Hg or Me Hg trip blank present? _____ Yes No

Tests that are not checked for pH by Receiving:

VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Samples processed by:

_____

_____

_____

_____

_____

18. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

19. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s): _____

VOA Sample Preservation - Date/Time VOAs Frozen: _____

WI-NC-099

Eurofins TestAmerica, Corpus Christi
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone: 361-289-2673 Fax: 361-289-2471

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Maingot, Lindy	Carrier Tracking No(s):	COC No: 560-19865.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: lindy.maingot@testamericainc.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 560-81851-1
Address: 6310 Rothway Street,	Due Date Requested: 8/30/2019			
City: Houston	TAT Requested (days):			
State, Zip: TX, 77040				
Phone: 713-690-4444(Tel) 713-690-5646(Fax)	PO #:			
Email:	WO #:			
Project Name: SLWWTP Table III South Lardeo 8/21/19	Project #: 56000544			
Site: City of Laredo	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	420.4/Distill_Phenol Total Phenols (HOUSTON)	335.4/Distill_CN Cyanide (HOUSTON)	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
SLWWTP - Effluent (560-81851-1)	8/21/19	10:00 Central		Water			X	X	2	
SLWWTP - Influent (560-81851-2)	8/21/19	10:00 Central		Water			X	X	2	

560-81851 Chain of Custody

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	8-22-19 17:00		Sandra Jones	8/23/19	TAH
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

TestAmerica Houston

Loc: 560
81851

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Receipt Checklist

'19 AUG 23 9:4

Date/Time Received:

JOB NUMBER: 81851

CLIENT: TA Corpus Christi

UNPACKED BY: ST

CARRIER/DRIVER: Fedex

Custody Seal Present: ☒ YES ☐ NO

Number of Coolers Received: 1

Cooler ID	Temp Blank	Trip Blank	Observed Temp (°C)	Therm ID	Them CF	Corrected Temp (°C)
Red	Y / ~~N~~	Y / ~~N~~	0.6	678	+0.1	0.7
	Y / N	Y / N				
	~~Y / N~~	Y / N				
	Y / N	Y / N				
	~~Y / N~~	Y / N				
	Y / N	Y / N				8/23/19
	Y / N	Y / N				ST
	Y / N	Y / N				
	Y / N	Y / N				

CF = correction factor

Samples received on ice? ☒ YES ☐ NO

LABORATORY PRESERVATION OF SAMPLES REQUIRED: ☒ NO ☐ YES

Base samples are>pH 12: ☐ YES ☐ NO Acid preserved are<pH 2: ☐ YES ☐ NO

pH paper Lot # HC987808

VOA headspace acceptable (5-6mm): ☐ YES ☐ NO ☒ NA

	YES	NO
Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	✓	

COMMENTS:

8/23/19
ST

HS-SA-WI-013

Rev. 3; 07/01/2014

Login Sample Receipt Checklist

Client: City of Laredo

Job Number: 560-81851-1

Login Number: 81851

List Source: Eurofins TestAmerica, Corpus Christi

List Number: 1

Creator: Olson, Troy

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

Login Sample Receipt Checklist

Client: City of Laredo

Job Number: 560-81851-1

Login Number: 81851
List Number: 3
Creator: Torres, Sandra

List Source: Eurofins TestAmerica, Houston
List Creation: 08/23/19 02:03 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

Login Sample Receipt Checklist

Client: City of Laredo

Job Number: 560-81851-1

Login Number: 81851
List Number: 2
Creator: Say, Thomas C

List Source: Eurofins TestAmerica, Pittsburgh
List Creation: 08/23/19 12:00 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins TestAmerica, Corpus Christi
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Tel: (361)289-2673

Laboratory Job ID: 560-79907-1
Client Project/Site: Table II & III -South Laredo 5/16/19

For:
City of Laredo
5816 Daugherty Avenue
Laredo, Texas 78041

Attn: Erica Solis

Authorized for release by:
6/14/2019 10:16:48 AM
Tiffany Fleming, Project Management Assistant I
(361)289-2673
tiffany.fleming@testamericainc.com

Designee for

Lindy Maingot, Project Manager I
(210)344-9751
lindy.maingot@testamericainc.com

Definitions/Glossary

Client: City of Laredo
Job ID: 560-79907-1
Project/Site: Table II & III -South Laredo 5/16/19

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 560-79907-1

Laboratory: Eurofins TestAmerica, Corpus Christi

Narrative

Job Narrative
560-79907-1

Comments
No additional comments.

Receipt
The samples were received on 5/17/2019 8:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 0.5º C, 3.2º C, 4.0º C, 4.9º C and 5.5º C.

Receipt Exceptions
The following sample(s) was submitted for analysis; however, it was not listed on the Chain-of-Custody (COC): A trip blank was received but was not listed on the COC. The client responded on 5/20/19 and instructed the lab to analyze the trip blank.

The client was contacted on 05-20-2019 to let them know that the following samples were recieved outside of temperature due to an error by the lab in shipping: South Laredo Influent and South Laredo Effluent. The following tests were associated with the samples being outside of temperature: Phenols, Cyanide, Tri Chromium, Herbicides and Pesticides by method 908. The lab is waiting to hear back from the client on this. The client would like to cancel the Tri Chrom because it will be outside of hold time and cancel the tests that were recieved outside of temperature.

GC/MS VOA
Method(s) 624: The continuing calibration verification (CCV) associated with batch 560-162733 recovered above the upper control limit for Carbon tetrachloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: (CCVIS 560-162733/2).

Method(s) 624: The following sample was diluted due to the nature of the sample matrix (floaters): South Laredo Influent (560-79907-1). Elevated reporting limits (RLs) are provided.

Method(s) 624: The continuing calibration verification (CCV) associated with batch 560-162793 recovered above the upper control limit for Carbon tetrachloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: (CCVIS 560-162793/2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) D7065-11: The surrogate recovery for the blank associated with preparation batch 280-459093 and analytical batch 280-460869 was outside the upper control limits. d7065 (MB 280-459093/1-A)
MB 280-459093 4-nonylphenol (Surr) 118% limit 58-115

Method(s) D7065-11: The surrogate recovery for the LCSD are out of control high. In the LCSD 4-tert-Octylphenol was out of control high. The associated sample are ND.

Method(s) D7065-11: The following sample required a dilution due to the nature of the sample matrix: South Laredo Influent (560-79907-1) and South Laredo Effluent (560-79907-2). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information. d7065 preparation batch 280-459093 and analytical batch 280-460869

Method(s) D7065-11: The following sample were diluted due to the abundance of non-target analytes: South Laredo Influent (560-79907-1). Elevated reporting limits (RLs) are provided. d7065 preparation batch 280-459093 and analytical batch 280-460869

Method(s) D7065-11: The following sample was diluted due to dark color extract to protect the sensitivity of the instrument.>>: South Laredo Effluent (560-79907-2). Elevated reporting limits (RL) are provided. d7065

Method(s) D7065-11: The initial calibration verification (ICV) result for batch 280-460725 was above the upper control limit. Sample results were non-detects, and have been reported as qualified data. 4-tert-Octylphenol 127% limit 25 South Laredo Influent (560-79907-1),

Job ID: 560-79907-1 (Continued)

Laboratory: Eurofins TestAmerica, Corpus Christi (Continued

South Laredo Effluent (560-79907-2) and (ICV 280-460725/9)

Method(s) D7065-11: The initial calibration verification (ICV) result for batch 280-460869 was above the upper control limit. 4-tert-Octylphenol 127% limit 125 The LCSD recovery for 4-tert-Octylphenol 128% limit 55-125. Sample 560-79894-1, 560-79895-1, 560-799907-1 and 560-799907-2 have a detection. The data will be biased high. South Laredo Influent (560-79907-1) and South Laredo Effluent (560-79907-2)

Method(s) 625: The following sample was diluted due to color and odor:South Laredo Influent (560-79907-1). Elevated reporting limits (RL) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method(s) 8141B: The continuing calibration verification (CCV) associated with batch 279371 recovered above the upper control limit for Demeton. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method(s) 608: Surrogate recovery for the following samples were outside control limits: South Laredo Influent (560-79907-1) and South Laredo Effluent (560-79907-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 608: The Tetrachloro-m-xylene surrogate recovery for the following samples was outside acceptance limits (high biased) on the confirmation column due to matrix interference: South Laredo Influent (560-79907-1). The recovery is within acceptance limits on the other column, indicating that the extraction process was in control.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

LCMS
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method(s) 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 180-279328.

Method(s) 608: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 180-279332.

Method(s) D7065-11: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 280-459093.

Method(s) 608: The following sample required a Florisil clean-up, via EPA Method 3620B, to reduce matrix interferences: South Laredo Influent (560-79907-1).

Method(s) 8151A: The following sample formed emulsions during the extraction procedure: South Laredo Influent (560-79907-1). The emulsions were broken up using centrifuge.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: City of Laredo
Project/Site: Table II & III -South Laredo 5/16/19

Job ID: 560-79907-1

Client Sample ID: South Laredo Influent — Lab Sample ID: 560-79907-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	2.2		2.0	0.35	ug/L	2		624	Total/NA
Trihalomethanes, Total	2.2	J	6.0	2.1	ug/L	2		624	Total/NA
Butyl benzyl phthalate	5.0	J	20	1.6	ug/L	2		625	Total/NA
Bis(2-ethylhexyl) phthalate	10	J	40	10	ug/L	2		625	Total/NA
Diethyl phthalate	3.7	J	20	1.3	ug/L	2		625	Total/NA
Phenol	22		20	1.5	ug/L	2		625	Total/NA
m & p - Cresol	39	J	40	1.5	ug/L	2		625	Total/NA
o-Cresol	4.7	J	20	1.2	ug/L	2		625	Total/NA
Total Cresols, TCEQ Definition	39		20	1.5	ug/L	2		625	Total/NA
4-tert-Octylphenol	6.0	J *	10	2.8	ug/L	10		D7065-11	Total/NA
Mercury	0.038		0.0050	0.0014	ug/L	10		1631E	Total/NA
Silver	0.43	J	1.0	0.22	ug/L	1		EPA 200.8 Rev 5	Total Recoverable
Arsenic	0.75	J	1.0	0.17	ug/L	1		EPA 200.8 Rev 5	Total Recoverable
Chromium	1.3	J	2.0	0.58	ug/L	1		EPA 200.8 Rev 5	Total Recoverable
Copper	39		2.0	0.99	ug/L	1		EPA 200.8 Rev 5	Total Recoverable
Nickel	2.6		1.0	0.46	ug/L	1		EPA 200.8 Rev 5	Total Recoverable
Lead	0.89	J	1.0	0.16	ug/L	1		EPA 200.8 Rev 5	Total Recoverable
Antimony	0.80	J	2.0	0.35	ug/L	1		EPA 200.8 Rev 5	Total Recoverable
Selenium	0.81	J	5.0	0.81	ug/L	1		EPA 200.8 Rev 5	Total Recoverable
Zinc	93		5.0	2.2	ug/L	1		EPA 200.8 Rev 5	Total Recoverable
Aluminum	290		30	12	ug/L	1		EPA 200.8 Rev 5	Total Recoverable
Barium	100		10	1.2	ug/L	1		EPA 200.8 Rev 5	Total Recoverable

Client Sample ID: South Laredo Effluent — Lab Sample ID: 560-79907-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorobromomethane	27		1.0	0.18	ug/L	1		624	Total/NA
Bromoform	5.0		5.0	0.50	ug/L	1		624	Total/NA
Chloroform	16		1.0	0.17	ug/L	1		624	Total/NA
Chlorodibromomethane	22		2.0	0.22	ug/L	1		624	Total/NA
Trihalomethanes, Total	71		3.0	1.1	ug/L	1		624	Total/NA
Di-n-butyl phthalate	1.8	J	10	0.71	ug/L	1		625	Total/NA
4-tert-Octylphenol	2.9	J *	9.9	2.8	ug/L	10		D7065-11	Total/NA
Mercury	0.0014		0.00050	0.00014	ug/L	1		1631E	Total/NA
Arsenic	0.70	J	1.0	0.17	ug/L	1		EPA 200.8 Rev 5	Total Recoverable
Copper	2.5		2.0	0.99	ug/L	1		EPA 200.8 Rev 5	Total Recoverable
Nickel	2.4		1.0	0.46	ug/L	1		EPA 200.8 Rev 5	Total Recoverable
Lead	0.30	J	1.0	0.16	ug/L	1		EPA 200.8 Rev 5	Total Recoverable
Antimony	0.92	J	2.0	0.35	ug/L	1		EPA 200.8 Rev 5	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client: City of Laredo
Job ID: 560-79907-1
Project/Site: Table II & III -South Laredo 5/16/19

Client Sample ID: South Laredo Effluent (Continued)
Lab Sample ID: 560-79907-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	58		5.0	2.2	ug/L	1		EPA 200.8 Rev 5	Total Recoverable
Aluminum	18	J	30	12	ug/L	1		EPA 200.8 Rev 5	Total Recoverable
Barium	73		10	1.2	ug/L	1		EPA 200.8 Rev 5	Total Recoverable

Client Sample ID: Trip Blank
Lab Sample ID: 560-79907-3

No Detections.

This Detection Summary does not include radiochemical test results.

Client: City of Laredo
Project/Site: Table II & III -South Laredo 5/16/19

Job ID: 560-79907-1

Client Sample ID: South Laredo Influent
Date Collected: 05/16/19 10:00
Date Received: 05/17/19 08:00

Lab Sample ID: 560-79907-1
Matrix: Water

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	<2.1		100	2.1	ug/L			05/17/19 18:21	2
Acrylonitrile	<3.9		20	3.9	ug/L			05/17/19 18:21	2
Benzene	<0.66		2.0	0.66	ug/L			05/17/19 18:21	2
Dichlorobromomethane	<0.35		2.0	0.35	ug/L			05/17/19 18:21	2
Bromoform	<1.0		10	1.0	ug/L			05/17/19 18:21	2
Methyl bromide	<0.78		10	0.78	ug/L			05/17/19 18:21	2
Carbon tetrachloride	<0.50		2.0	0.50	ug/L			05/17/19 18:21	2
Chlorobenzene	<0.27		2.0	0.27	ug/L			05/17/19 18:21	2
Chloroethane	<0.80		10	0.80	ug/L			05/17/19 18:21	2
2-Chloroethyl vinyl ether	<0.38		4.0	0.38	ug/L			05/17/19 18:21	2
Chloroform	**2.2**		2.0	0.35	ug/L			05/17/19 18:21	2
Methyl chloride	<0.78		10	0.78	ug/L			05/17/19 18:21	2
Chlorodibromomethane	<0.45		4.0	0.45	ug/L			05/17/19 18:21	2
1,2-Dibromoethane	<0.30		2.0	0.30	ug/L			05/17/19 18:21	2
1,1-Dichloroethylene	<0.60		2.0	0.60	ug/L			05/17/19 18:21	2
1,2-Dichloroethane	<0.32		2.0	0.32	ug/L			05/17/19 18:21	2
1,1-Dichloroethane	<0.34		2.0	0.34	ug/L			05/17/19 18:21	2
1,2-trans-Dichloroethylene	<0.40		2.0	0.40	ug/L			05/17/19 18:21	2
1,2-Dichloropropane	<0.35		2.0	0.35	ug/L			05/17/19 18:21	2
Ethylbenzene	<0.40		2.0	0.40	ug/L			05/17/19 18:21	2
Methylene Chloride	<4.0		20	4.0	ug/L			05/17/19 18:21	2
1,1,2,2-Tetrachloroethane	<0.38		2.0	0.38	ug/L			05/17/19 18:21	2
Tetrachloroethylene	<0.38		2.0	0.38	ug/L			05/17/19 18:21	2
Toluene	<0.60		2.0	0.60	ug/L			05/17/19 18:21	2
1,1,1-Trichloroethane	<0.60		2.0	0.60	ug/L			05/17/19 18:21	2
1,1,2-Trichloroethane	<0.35		2.0	0.35	ug/L			05/17/19 18:21	2
Trichloroethylene	<0.63		2.0	0.63	ug/L			05/17/19 18:21	2
Vinyl chloride	<0.60		2.0	0.60	ug/L			05/17/19 18:21	2
Methyl Ethyl Ketone	<0.95		20	0.95	ug/L			05/17/19 18:21	2
Trihalomethanes, Total	**2.2**	**J**	6.0	2.1	ug/L			05/17/19 18:21	2
1,3-Dichloropropylene	<0.40		10	0.40	ug/L			05/17/19 18:21	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*70 - 130*		*05/17/19 18:21*	*2*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*05/17/19 18:21*	*2*
Dibromofluoromethane (Surr)	*114*		*70 - 130*		*05/17/19 18:21*	*2*

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.92		20	0.92	ug/L		05/20/19 10:00	05/21/19 16:57	2
Acenaphthylene	<0.90		20	0.90	ug/L		05/20/19 10:00	05/21/19 16:57	2
Anthracene	<1.4		20	1.4	ug/L		05/20/19 10:00	05/21/19 16:57	2
Benzidine	<0.78		100	0.78	ug/L		05/20/19 10:00	05/21/19 16:57	2
Benzo[a]anthracene	<1.3		20	1.3	ug/L		05/20/19 10:00	05/21/19 16:57	2
3,4-Benzofluoranthene	<1.8		20	1.8	ug/L		05/20/19 10:00	05/21/19 16:57	2
Benzo[k]fluoranthene	<3.0		20	3.0	ug/L		05/20/19 10:00	05/21/19 16:57	2
Benzo[g,h,i]perylene	<2.2		20	2.2	ug/L		05/20/19 10:00	05/21/19 16:57	2
Benzo[a]pyrene	<1.5		20	1.5	ug/L		05/20/19 10:00	05/21/19 16:57	2
Butyl benzyl phthalate	**5.0**	**J**	20	1.6	ug/L		05/20/19 10:00	05/21/19 16:57	2
Bis(2-chloroethoxy)methane	<0.87		20	0.87	ug/L		05/20/19 10:00	05/21/19 16:57	2

Client: City of Laredo
Project/Site: Table II & III -South Laredo 5/16/19

Job ID: 560-79907-1

Client Sample ID: South Laredo Influent
Date Collected: 05/16/19 10:00
Date Received: 05/17/19 08:00

Lab Sample ID: 560-79907-1
Matrix: Water

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	<3.1		20	3.1	ug/L		05/20/19 10:00	05/21/19 16:57	2
Bis(2-ethylhexyl) phthalate	**10**	**J**	40	10	ug/L		05/20/19 10:00	05/21/19 16:57	2
4-Bromophenyl phenyl ether	<1.6		20	1.6	ug/L		05/20/19 10:00	05/21/19 16:57	2
2-Chloronaphthalene	<1.2		20	1.2	ug/L		05/20/19 10:00	05/21/19 16:57	2
4-Chlorophenyl phenyl ether	<1.1		20	1.1	ug/L		05/20/19 10:00	05/21/19 16:57	2
Chrysene	<0.99		20	0.99	ug/L		05/20/19 10:00	05/21/19 16:57	2
Dibenz(a,h)anthracene	<1.7		20	1.7	ug/L		05/20/19 10:00	05/21/19 16:57	2
1,2-Dichlorobenzene	<1.6		20	1.6	ug/L		05/20/19 10:00	05/21/19 16:57	2
1,3-Dichlorobenzene	<0.98		20	0.98	ug/L		05/20/19 10:00	05/21/19 16:57	2
1,4-Dichlorobenzene	<1.6		20	1.6	ug/L		05/20/19 10:00	05/21/19 16:57	2
3,3'-Dichlorobenzidine	<1.6		20	1.6	ug/L		05/20/19 10:00	05/21/19 16:57	2
Diethyl phthalate	**3.7**	**J**	20	1.3	ug/L		05/20/19 10:00	05/21/19 16:57	2
Dimethyl phthalate	<1.2		20	1.2	ug/L		05/20/19 10:00	05/21/19 16:57	2
Di-n-butyl phthalate	<1.4		20	1.4	ug/L		05/20/19 10:00	05/21/19 16:57	2
Di-n-octyl phthalate	<2.2		20	2.2	ug/L		05/20/19 10:00	05/21/19 16:57	2
2,4-Dinitrotoluene	<1.0		20	1.0	ug/L		05/20/19 10:00	05/21/19 16:57	2
2,6-Dinitrotoluene	<1.5		20	1.5	ug/L		05/20/19 10:00	05/21/19 16:57	2
Fluoranthene	<0.99		20	0.99	ug/L		05/20/19 10:00	05/21/19 16:57	2
Fluorene	<0.84		20	0.84	ug/L		05/20/19 10:00	05/21/19 16:57	2
Hexachlorobenzene	<1.2		20	1.2	ug/L		05/20/19 10:00	05/21/19 16:57	2
Hexachlorobutadiene	<1.4		20	1.4	ug/L		05/20/19 10:00	05/21/19 16:57	2
Hexachlorocyclopentadiene	<1.7		20	1.7	ug/L		05/20/19 10:00	05/21/19 16:57	2
Hexachloroethane	<1.2		20	1.2	ug/L		05/20/19 10:00	05/21/19 16:57	2
Indeno[1,2,3-cd]pyrene	<1.8		20	1.8	ug/L		05/20/19 10:00	05/21/19 16:57	2
Isophorone	<1.1		20	1.1	ug/L		05/20/19 10:00	05/21/19 16:57	2
Naphthalene	<1.6		20	1.6	ug/L		05/20/19 10:00	05/21/19 16:57	2
Nitrobenzene	<1.2		20	1.2	ug/L		05/20/19 10:00	05/21/19 16:57	2
N-Nitrosodimethylamine	<2.8		20	2.8	ug/L		05/20/19 10:00	05/21/19 16:57	2
N-Nitrosodi-n-propylamine	<1.2		20	1.2	ug/L		05/20/19 10:00	05/21/19 16:57	2
N-Nitrosodiphenylamine	<2.1		20	2.1	ug/L		05/20/19 10:00	05/21/19 16:57	2
Phenanthrene	<1.2		20	1.2	ug/L		05/20/19 10:00	05/21/19 16:57	2
Pyrene	<0.88		20	0.88	ug/L		05/20/19 10:00	05/21/19 16:57	2
1,2,4-Trichlorobenzene	<1.3		20	1.3	ug/L		05/20/19 10:00	05/21/19 16:57	2
p-Chloro-m-cresol	<1.2		20	1.2	ug/L		05/20/19 10:00	05/21/19 16:57	2
2-Chlorophenol	<1.5		20	1.5	ug/L		05/20/19 10:00	05/21/19 16:57	2
2,4-Dichlorophenol	<1.4		20	1.4	ug/L		05/20/19 10:00	05/21/19 16:57	2
2,4-Dimethylphenol	<1.2		20	1.2	ug/L		05/20/19 10:00	05/21/19 16:57	2
2,4-Dinitrophenol	<5.4		40	5.4	ug/L		05/20/19 10:00	05/21/19 16:57	2
4,6-Dinitro-o-cresol	<1.9		20	1.9	ug/L		05/20/19 10:00	05/21/19 16:57	2
2-Nitrophenol	<1.6		20	1.6	ug/L		05/20/19 10:00	05/21/19 16:57	2
4-Nitrophenol	<3.5		20	3.5	ug/L		05/20/19 10:00	05/21/19 16:57	2
Pentachlorophenol	<2.6		80	2.6	ug/L		05/20/19 10:00	05/21/19 16:57	2
Phenol	**22**		20	1.5	ug/L		05/20/19 10:00	05/21/19 16:57	2
2,4,6-Trichlorophenol	<1.3		20	1.3	ug/L		05/20/19 10:00	05/21/19 16:57	2
m & p - Cresol	**39**	**J**	40	1.5	ug/L		05/20/19 10:00	05/21/19 16:57	2
o-Cresol	**4.7**	**J**	20	1.2	ug/L		05/20/19 10:00	05/21/19 16:57	2
1,2-Diphenylhydrazine (as Azobenzene)	<1.6		20	1.6	ug/L		05/20/19 10:00	05/21/19 16:57	2
N-Nitrosodiethylamine	<1.8		20	1.8	ug/L		05/20/19 10:00	05/21/19 16:57	2
N-Nitrosodi-n-butylamine	<2.9		20	2.9	ug/L		05/20/19 10:00	05/21/19 16:57	2

Client Sample ID: South Laredo Influent
Lab Sample ID: 560-79907-1
Date Collected: 05/16/19 10:00
Matrix: Water
Date Received: 05/17/19 08:00

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorobenzene	<1.7		20	1.7	ug/L		05/20/19 10:00	05/21/19 16:57	2
Pyridine	<1.3		20	1.3	ug/L		05/20/19 10:00	05/21/19 16:57	2
1,2,4,5-Tetrachlorobenzene	<1.3		20	1.3	ug/L		05/20/19 10:00	05/21/19 16:57	2
2,4,5-Trichlorophenol	<1.7		20	1.7	ug/L		05/20/19 10:00	05/21/19 16:57	2
2,3,4,6-Tetrachlorophenol	<3.0		20	3.0	ug/L		05/20/19 10:00	05/21/19 16:57	2
bis (2-chloroisopropyl) ether	<1.0		20	1.0	ug/L		05/20/19 10:00	05/21/19 16:57	2
Total Cresols, TCEQ Definition	**39**		20	1.5	ug/L		05/20/19 10:00	05/21/19 16:57	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*33*		*10 - 120*	*05/20/19 10:00*	*05/21/19 16:57*	*2*
Phenol-d5 (Surr)	*40*		*10 - 120*	*05/20/19 10:00*	*05/21/19 16:57*	*2*
Nitrobenzene-d5 (Surr)	*39*		*26 - 120*	*05/20/19 10:00*	*05/21/19 16:57*	*2*
2-Fluorobiphenyl	*24*		*22 - 120*	*05/20/19 10:00*	*05/21/19 16:57*	*2*
2,4,6-Tribromophenol (Surr)	*61*		*24 - 131*	*05/20/19 10:00*	*05/21/19 16:57*	*2*
Terphenyl-d14 (Surr)	*23*		*10 - 134*	*05/20/19 10:00*	*05/21/19 16:57*	*2*

Method: D7065-11 - Determination of Nonylphenols

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nonylphenol	<11		50	11	ug/L		05/22/19 15:04	06/07/19 18:33	10
Nonylphenol diethoxylate	<46		200	46	ug/L		05/22/19 15:04	06/07/19 18:33	10
Nonylphenol monoethoxylate	<21		100	21	ug/L		05/22/19 15:04	06/07/19 18:33	10
Bisphenol-A	<10		21	10	ug/L		05/22/19 15:04	06/07/19 18:33	10
4-tert-Octylphenol	**6.0**	**J ***	10	2.8	ug/L		05/22/19 15:04	06/07/19 18:33	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-nonylphenol (Surr)	*70*	*D*	*58 - 115*	*05/22/19 15:04*	*06/07/19 18:33*	*10*
4-nonylphenol monoethoxylate (Surr)	*90*	*D*	*54 - 139*	*05/22/19 15:04*	*06/07/19 18:33*	*10*

Method: EPA 608 - Organochlorine Pesticides/PCBs in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00020		0.0013	0.00020	ug/L		05/21/19 11:45	05/24/19 17:10	1
4,4'-DDE	<0.00010		0.0013	0.00010	ug/L		05/21/19 11:45	05/24/19 17:10	1
4,4'-DDT	<0.00029		0.0013	0.00029	ug/L		05/21/19 11:45	05/24/19 17:10	1
Aldrin	<0.00012		0.0013	0.00012	ug/L		05/21/19 11:45	05/24/19 17:10	1
alpha-BHC	<0.00012		0.0013	0.00012	ug/L		05/21/19 11:45	05/24/19 17:10	1
cis-Chlordane	<0.00014		0.0013	0.00014	ug/L		05/21/19 11:45	05/24/19 17:10	1
beta-BHC	<0.00015		0.0013	0.00015	ug/L		05/21/19 11:45	05/24/19 17:10	1
Chlordane (technical)	<0.0015		0.013	0.0015	ug/L		05/21/19 11:45	05/24/19 17:10	1
delta-BHC	<0.00033		0.0013	0.00033	ug/L		05/21/19 11:45	05/24/19 17:10	1
Dieldrin	<0.00013		0.0013	0.00013	ug/L		05/21/19 11:45	05/24/19 17:10	1
Endosulfan, alpha	<0.00015		0.0013	0.00015	ug/L		05/21/19 11:45	05/24/19 17:10	1
Endosulfan, beta	<0.00011		0.0013	0.00011	ug/L		05/21/19 11:45	05/24/19 17:10	1
Endosulfan sulfate	<0.00028		0.0013	0.00028	ug/L		05/21/19 11:45	05/24/19 17:10	1
Endrin	<0.00022		0.0013	0.00022	ug/L		05/21/19 11:45	05/24/19 17:10	1
Endrin aldehyde	<0.00023		0.0013	0.00023	ug/L		05/21/19 11:45	05/24/19 17:10	1
Endrin ketone	<0.00016		0.0013	0.00016	ug/L		05/21/19 11:45	05/24/19 17:10	1
gamma-BHC (Lindane)	<0.00012		0.0013	0.00012	ug/L		05/21/19 11:45	05/24/19 17:10	1
trans-Chlordane	<0.00012		0.0013	0.00012	ug/L		05/21/19 11:45	05/24/19 17:10	1
Heptachlor	<0.00044		0.0013	0.00044	ug/L		05/21/19 11:45	05/24/19 17:10	1
Heptachlor epoxide	<0.00013		0.0013	0.00013	ug/L		05/21/19 11:45	05/24/19 17:10	1

Client: City of Laredo
Project/Site: Table II & III -South Laredo 5/16/19

Job ID: 560-79907-1

Client Sample ID: South Laredo Influent
Date Collected: 05/16/19 10:00
Date Received: 05/17/19 08:00

Lab Sample ID: 560-79907-1
Matrix: Water

Method: EPA 608 - Organochlorine Pesticides/PCBs in Water (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methoxychlor	<0.00033		0.0013	0.00033	ug/L		05/21/19 11:45	05/24/19 17:10	1
Mirex	<0.00020		0.0013	0.00020	ug/L		05/21/19 11:45	05/24/19 17:10	1
Toxaphene	<0.011		0.097	0.011	ug/L		05/21/19 11:45	05/24/19 17:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*107*	*p*	*38 - 146*	*05/21/19 11:45*	*05/24/19 17:10*	*1*
DCB Decachlorobiphenyl (Surr)	*74*		*42 - 150*	*05/21/19 11:45*	*05/24/19 17:10*	*1*

Method: EPA 608 - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1221	<0.0056		0.0097	0.0056	ug/L		05/21/19 11:45	05/22/19 20:53	1
PCB-1232	<0.0051		0.0097	0.0051	ug/L		05/21/19 11:45	05/22/19 20:53	1
PCB-1016	<0.0046		0.0097	0.0046	ug/L		05/21/19 11:45	05/22/19 20:53	1
PCB-1242	<0.0089		0.0097	0.0089	ug/L		05/21/19 11:45	05/22/19 20:53	1
PCB-1248	<0.0029		0.0097	0.0029	ug/L		05/21/19 11:45	05/22/19 20:53	1
PCB-1254	<0.0092		0.0097	0.0092	ug/L		05/21/19 11:45	05/22/19 20:53	1
PCB-1260	<0.0038		0.0097	0.0038	ug/L		05/21/19 11:45	05/22/19 20:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*43*		*38 - 146*	*05/21/19 11:45*	*05/22/19 20:53*	*1*

Method: EPA 8141B - Organophosphorous Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Guthion	<0.049		0.19	0.049	ug/L		05/21/19 10:45	05/22/19 10:11	1
Chlorpyrifos	<0.043		0.19	0.043	ug/L		05/21/19 10:45	05/22/19 10:11	1
Demeton	<0.031		0.38	0.031	ug/L		05/21/19 10:45	05/22/19 10:11	1
Diazinon	<0.034		0.19	0.034	ug/L		05/21/19 10:45	05/22/19 10:11	1
Parathion	<0.037		0.19	0.037	ug/L		05/21/19 10:45	05/22/19 10:11	1
Malathion	<0.040		0.19	0.040	ug/L		05/21/19 10:45	05/22/19 10:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*92*		*69 - 130*	*05/21/19 10:45*	*05/22/19 10:11*	*1*

Method: 8321A - Hexachlorphene (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorophene	<0.0049		0.30	0.0049	ug/L			05/22/19 12:32	1

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.038**		0.0050	0.0014	ug/L		05/20/19 14:30	05/21/19 17:08	10

Method: EPA 200.8 Rev 5 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	**0.43**	**J**	1.0	0.22	ug/L		05/21/19 14:47	05/22/19 20:50	1
Arsenic	**0.75**	**J**	1.0	0.17	ug/L		05/21/19 14:47	05/22/19 20:50	1
Beryllium	<0.087		1.0	0.087	ug/L		05/21/19 14:47	05/22/19 20:50	1
Chromium	**1.3**	**J**	2.0	0.58	ug/L		05/21/19 14:47	05/22/19 20:50	1
Copper	**39**		2.0	0.99	ug/L		05/21/19 14:47	05/22/19 20:50	1
Nickel	**2.6**		1.0	0.46	ug/L		05/21/19 14:47	05/22/19 20:50	1
Lead	**0.89**	**J**	1.0	0.16	ug/L		05/21/19 14:47	05/22/19 20:50	1
Antimony	**0.80**	**J**	2.0	0.35	ug/L		05/21/19 14:47	05/22/19 20:50	1

Client: City of Laredo
Project/Site: Table II & III -South Laredo 5/16/19

Job ID: 560-79907-1

Client Sample ID: South Laredo Influent

Lab Sample ID: 560-79907-1

Date Collected: 05/16/19 10:00
Matrix: Water
Date Received: 05/17/19 08:00

Method: EPA 200.8 Rev 5 - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	**0.81**	**J**	5.0	0.81	ug/L		05/21/19 14:47	05/22/19 20:50	1
Thallium	<0.12		1.0	0.12	ug/L		05/21/19 14:47	05/22/19 20:50	1
Zinc	**93**		5.0	2.2	ug/L		05/21/19 14:47	05/22/19 20:50	1
Aluminum	**290**		30	12	ug/L		05/21/19 14:47	05/22/19 20:50	1
Barium	**100**		10	1.2	ug/L		05/21/19 14:47	05/22/19 20:50	1
Cadmium	<0.21		1.0	0.21	ug/L		05/21/19 14:47	05/22/19 20:50	1

Client Sample ID: South Laredo Effluent

Lab Sample ID: 560-79907-2

Date Collected: 05/16/19 10:00
Matrix: Water
Date Received: 05/17/19 08:00

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	<1.0		50	1.0	ug/L			05/17/19 18:46	1
Acrylonitrile	<1.9		10	1.9	ug/L			05/17/19 18:46	1
Benzene	<0.33		1.0	0.33	ug/L			05/17/19 18:46	1
Dichlorobromomethane	**27**		1.0	0.18	ug/L			05/17/19 18:46	1
Bromoform	**5.0**		5.0	0.50	ug/L			05/17/19 18:46	1
Methyl bromide	<0.39		5.0	0.39	ug/L			05/17/19 18:46	1
Carbon tetrachloride	<0.25		1.0	0.25	ug/L			05/17/19 18:46	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			05/17/19 18:46	1
Chloroethane	<0.40		5.0	0.40	ug/L			05/17/19 18:46	1
2-Chloroethyl vinyl ether	<0.19		2.0	0.19	ug/L			05/17/19 18:46	1
Chloroform	**16**		1.0	0.17	ug/L			05/17/19 18:46	1
Methyl chloride	<0.39		5.0	0.39	ug/L			05/17/19 18:46	1
Chlorodibromomethane	**22**		2.0	0.22	ug/L			05/17/19 18:46	1
1,2-Dibromoethane	<0.15		1.0	0.15	ug/L			05/17/19 18:46	1
1,1-Dichloroethylene	<0.30		1.0	0.30	ug/L			05/17/19 18:46	1
1,2-Dichloroethane	<0.16		1.0	0.16	ug/L			05/17/19 18:46	1
1,1-Dichloroethane	<0.17		1.0	0.17	ug/L			05/17/19 18:46	1
1,2-trans-Dichloroethylene	<0.20		1.0	0.20	ug/L			05/17/19 18:46	1
1,2-Dichloropropane	<0.17		1.0	0.17	ug/L			05/17/19 18:46	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			05/17/19 18:46	1
Methylene Chloride	<2.0		10	2.0	ug/L			05/17/19 18:46	1
1,1,2,2-Tetrachloroethane	<0.19		1.0	0.19	ug/L			05/17/19 18:46	1
Tetrachloroethylene	<0.19		1.0	0.19	ug/L			05/17/19 18:46	1
Toluene	<0.30		1.0	0.30	ug/L			05/17/19 18:46	1
1,1,1-Trichloroethane	<0.30		1.0	0.30	ug/L			05/17/19 18:46	1
1,1,2-Trichloroethane	<0.17		1.0	0.17	ug/L			05/17/19 18:46	1
Trichloroethylene	<0.32		1.0	0.32	ug/L			05/17/19 18:46	1
Vinyl chloride	<0.30		1.0	0.30	ug/L			05/17/19 18:46	1
Methyl Ethyl Ketone	<0.47		10	0.47	ug/L			05/17/19 18:46	1
Trihalomethanes, Total	**71**		3.0	1.1	ug/L			05/17/19 18:46	1
1,3-Dichloropropylene	<0.20		5.0	0.20	ug/L			05/17/19 18:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*70 - 130*		*05/17/19 18:46*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*05/17/19 18:46*	*1*
Dibromofluoromethane (Surr)	*117*		*70 - 130*		*05/17/19 18:46*	*1*

Client: City of Laredo
Project/Site: Table II & III -South Laredo 5/16/19

Job ID: 560-79907-1

Client Sample ID: South Laredo Effluent
Date Collected: 05/16/19 10:00
Date Received: 05/17/19 08:00

Lab Sample ID: 560-79907-2
Matrix: Water

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.46		10	0.46	ug/L		05/20/19 10:00	05/21/19 15:34	1
Acenaphthylene	<0.45		10	0.45	ug/L		05/20/19 10:00	05/21/19 15:34	1
Anthracene	<0.70		10	0.70	ug/L		05/20/19 10:00	05/21/19 15:34	1
Benzidine	<0.39		50	0.39	ug/L		05/20/19 10:00	05/21/19 15:34	1
Benzo[a]anthracene	<0.65		10	0.65	ug/L		05/20/19 10:00	05/21/19 15:34	1
3,4-Benzofluoranthene	<0.91		10	0.91	ug/L		05/20/19 10:00	05/21/19 15:34	1
Benzo[k]fluoranthene	<1.5		10	1.5	ug/L		05/20/19 10:00	05/21/19 15:34	1
Benzo[g,h,i]perylene	<1.1		10	1.1	ug/L		05/20/19 10:00	05/21/19 15:34	1
Benzo[a]pyrene	<0.74		10	0.74	ug/L		05/20/19 10:00	05/21/19 15:34	1
Butyl benzyl phthalate	<0.82		10	0.82	ug/L		05/20/19 10:00	05/21/19 15:34	1
Bis(2-chloroethoxy)methane	<0.44		10	0.44	ug/L		05/20/19 10:00	05/21/19 15:34	1
Bis(2-chloroethyl)ether	<1.6		10	1.6	ug/L		05/20/19 10:00	05/21/19 15:34	1
Bis(2-ethylhexyl) phthalate	<5.0		20	5.0	ug/L		05/20/19 10:00	05/21/19 15:34	1
4-Bromophenyl phenyl ether	<0.81		10	0.81	ug/L		05/20/19 10:00	05/21/19 15:34	1
2-Chloronaphthalene	<0.60		10	0.60	ug/L		05/20/19 10:00	05/21/19 15:34	1
4-Chlorophenyl phenyl ether	<0.53		10	0.53	ug/L		05/20/19 10:00	05/21/19 15:34	1
Chrysene	<0.49		10	0.49	ug/L		05/20/19 10:00	05/21/19 15:34	1
Dibenz(a,h)anthracene	<0.87		10	0.87	ug/L		05/20/19 10:00	05/21/19 15:34	1
1,2-Dichlorobenzene	<0.78		10	0.78	ug/L		05/20/19 10:00	05/21/19 15:34	1
1,3-Dichlorobenzene	<0.49		10	0.49	ug/L		05/20/19 10:00	05/21/19 15:34	1
1,4-Dichlorobenzene	<0.82		10	0.82	ug/L		05/20/19 10:00	05/21/19 15:34	1
3,3'-Dichlorobenzidine	<0.79		10	0.79	ug/L		05/20/19 10:00	05/21/19 15:34	1
Diethyl phthalate	<0.67		10	0.67	ug/L		05/20/19 10:00	05/21/19 15:34	1
Dimethyl phthalate	<0.59		10	0.59	ug/L		05/20/19 10:00	05/21/19 15:34	1
Di-n-butyl phthalate	**1.8**	**J**	10	0.71	ug/L		05/20/19 10:00	05/21/19 15:34	1
Di-n-octyl phthalate	<1.1		10	1.1	ug/L		05/20/19 10:00	05/21/19 15:34	1
2,4-Dinitrotoluene	<0.51		10	0.51	ug/L		05/20/19 10:00	05/21/19 15:34	1
2,6-Dinitrotoluene	<0.76		10	0.76	ug/L		05/20/19 10:00	05/21/19 15:34	1
Fluoranthene	<0.50		10	0.50	ug/L		05/20/19 10:00	05/21/19 15:34	1
Fluorene	<0.42		10	0.42	ug/L		05/20/19 10:00	05/21/19 15:34	1
Hexachlorobenzene	<0.60		10	0.60	ug/L		05/20/19 10:00	05/21/19 15:34	1
Hexachlorobutadiene	<0.72		10	0.72	ug/L		05/20/19 10:00	05/21/19 15:34	1
Hexachlorocyclopentadiene	<0.84		10	0.84	ug/L		05/20/19 10:00	05/21/19 15:34	1
Hexachloroethane	<0.59		10	0.59	ug/L		05/20/19 10:00	05/21/19 15:34	1
Indeno[1,2,3-cd]pyrene	<0.92		10	0.92	ug/L		05/20/19 10:00	05/21/19 15:34	1
Isophorone	<0.55		10	0.55	ug/L		05/20/19 10:00	05/21/19 15:34	1
Naphthalene	<0.79		10	0.79	ug/L		05/20/19 10:00	05/21/19 15:34	1
Nitrobenzene	<0.59		10	0.59	ug/L		05/20/19 10:00	05/21/19 15:34	1
N-Nitrosodimethylamine	<1.4		10	1.4	ug/L		05/20/19 10:00	05/21/19 15:34	1
N-Nitrosodi-n-propylamine	<0.62		10	0.62	ug/L		05/20/19 10:00	05/21/19 15:34	1
N-Nitrosodiphenylamine	<1.0		10	1.0	ug/L		05/20/19 10:00	05/21/19 15:34	1
Phenanthrene	<0.59		10	0.59	ug/L		05/20/19 10:00	05/21/19 15:34	1
Pyrene	<0.44		10	0.44	ug/L		05/20/19 10:00	05/21/19 15:34	1
1,2,4-Trichlorobenzene	<0.65		10	0.65	ug/L		05/20/19 10:00	05/21/19 15:34	1
p-Chloro-m-cresol	<0.59		10	0.59	ug/L		05/20/19 10:00	05/21/19 15:34	1
2-Chlorophenol	<0.73		10	0.73	ug/L		05/20/19 10:00	05/21/19 15:34	1
2,4-Dichlorophenol	<0.70		10	0.70	ug/L		05/20/19 10:00	05/21/19 15:34	1
2,4-Dimethylphenol	<0.59		10	0.59	ug/L		05/20/19 10:00	05/21/19 15:34	1
2,4-Dinitrophenol	<2.7		20	2.7	ug/L		05/20/19 10:00	05/21/19 15:34	1

Client Sample ID: South Laredo Effluent
Date Collected: 05/16/19 10:00
Date Received: 05/17/19 08:00

Lab Sample ID: 560-79907-2
Matrix: Water

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-o-cresol	<0.96		10	0.96	ug/L		05/20/19 10:00	05/21/19 15:34	1
2-Nitrophenol	<0.81		10	0.81	ug/L		05/20/19 10:00	05/21/19 15:34	1
4-Nitrophenol	<1.7		10	1.7	ug/L		05/20/19 10:00	05/21/19 15:34	1
Pentachlorophenol	<1.3		40	1.3	ug/L		05/20/19 10:00	05/21/19 15:34	1
Phenol	<0.77		10	0.77	ug/L		05/20/19 10:00	05/21/19 15:34	1
2,4,6-Trichlorophenol	<0.66		10	0.66	ug/L		05/20/19 10:00	05/21/19 15:34	1
m & p - Cresol	<0.76		20	0.76	ug/L		05/20/19 10:00	05/21/19 15:34	1
o-Cresol	<0.61		10	0.61	ug/L		05/20/19 10:00	05/21/19 15:34	1
1,2-Diphenylhydrazine (as Azobenzene)	<0.79		10	0.79	ug/L		05/20/19 10:00	05/21/19 15:34	1
N-Nitrosodiethylamine	<0.89		10	0.89	ug/L		05/20/19 10:00	05/21/19 15:34	1
N-Nitrosodi-n-butylamine	<1.5		10	1.5	ug/L		05/20/19 10:00	05/21/19 15:34	1
Pentachlorobenzene	<0.86		10	0.86	ug/L		05/20/19 10:00	05/21/19 15:34	1
Pyridine	<0.66		10	0.66	ug/L		05/20/19 10:00	05/21/19 15:34	1
1,2,4,5-Tetrachlorobenzene	<0.66		10	0.66	ug/L		05/20/19 10:00	05/21/19 15:34	1
2,4,5-Trichlorophenol	<0.86		10	0.86	ug/L		05/20/19 10:00	05/21/19 15:34	1
2,3,4,6-Tetrachlorophenol	<1.5		10	1.5	ug/L		05/20/19 10:00	05/21/19 15:34	1
bis (2-chloroisopropyl) ether	<0.50		10	0.50	ug/L		05/20/19 10:00	05/21/19 15:34	1
Total Cresols, TCEQ Definition	<0.76		10	0.76	ug/L		05/20/19 10:00	05/21/19 15:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*49*		*10 - 120*	*05/20/19 10:00*	*05/21/19 15:34*	*1*
Phenol-d5 (Surr)	*54*		*10 - 120*	*05/20/19 10:00*	*05/21/19 15:34*	*1*
Nitrobenzene-d5 (Surr)	*65*		*26 - 120*	*05/20/19 10:00*	*05/21/19 15:34*	*1*
2-Fluorobiphenyl	*72*		*22 - 120*	*05/20/19 10:00*	*05/21/19 15:34*	*1*
2,4,6-Tribromophenol (Surr)	*64*		*24 - 131*	*05/20/19 10:00*	*05/21/19 15:34*	*1*
Terphenyl-d14 (Surr)	*37*		*10 - 134*	*05/20/19 10:00*	*05/21/19 15:34*	*1*

Method: D7065-11 - Determination of Nonylphenols

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nonylphenol	<11		50	11	ug/L		05/22/19 15:04	06/07/19 18:54	10
Nonylphenol diethoxylate	<45		200	45	ug/L		05/22/19 15:04	06/07/19 18:54	10
Nonylphenol monoethoxylate	<20		99	20	ug/L		05/22/19 15:04	06/07/19 18:54	10
Bisphenol-A	<10		21	10	ug/L		05/22/19 15:04	06/07/19 18:54	10
4-tert-Octylphenol	**2.9**	**J ***	9.9	2.8	ug/L		05/22/19 15:04	06/07/19 18:54	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-nonylphenol (Surr)	*70*	*D*	*58 - 115*	*05/22/19 15:04*	*06/07/19 18:54*	*10*
4-nonylphenol monoethoxylate (Surr)	*57*	*D*	*54 - 139*	*05/22/19 15:04*	*06/07/19 18:54*	*10*

Method: EPA 608 - Organochlorine Pesticides/PCBs in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00020		0.0013	0.00020	ug/L		05/21/19 11:45	05/24/19 19:37	1
4,4'-DDE	<0.00010		0.0013	0.00010	ug/L		05/21/19 11:45	05/24/19 19:37	1
4,4'-DDT	<0.00029		0.0013	0.00029	ug/L		05/21/19 11:45	05/24/19 19:37	1
Aldrin	<0.00012		0.0013	0.00012	ug/L		05/21/19 11:45	05/24/19 19:37	1
alpha-BHC	<0.00012		0.0013	0.00012	ug/L		05/21/19 11:45	05/24/19 19:37	1
cis-Chlordane	<0.00014		0.0013	0.00014	ug/L		05/21/19 11:45	05/24/19 19:37	1
beta-BHC	<0.00015		0.0013	0.00015	ug/L		05/21/19 11:45	05/24/19 19:37	1
Chlordane (technical)	<0.0014		0.013	0.0014	ug/L		05/21/19 11:45	05/24/19 19:37	1
delta-BHC	<0.00033		0.0013	0.00033	ug/L		05/21/19 11:45	05/24/19 19:37	1

Client Sample ID: South Laredo Effluent
Lab Sample ID: 560-79907-2

Date Collected: 05/16/19 10:00
Matrix: Water
Date Received: 05/17/19 08:00

Method: EPA 608 - Organochlorine Pesticides/PCBs in Water (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dieldrin	<0.00012		0.0013	0.00012	ug/L		05/21/19 11:45	05/24/19 19:37	1
Endosulfan, alpha	<0.00014		0.0013	0.00014	ug/L		05/21/19 11:45	05/24/19 19:37	1
Endosulfan, beta	<0.00011		0.0013	0.00011	ug/L		05/21/19 11:45	05/24/19 19:37	1
Endosulfan sulfate	<0.00028		0.0013	0.00028	ug/L		05/21/19 11:45	05/24/19 19:37	1
Endrin	<0.00022		0.0013	0.00022	ug/L		05/21/19 11:45	05/24/19 19:37	1
Endrin aldehyde	<0.00023		0.0013	0.00023	ug/L		05/21/19 11:45	05/24/19 19:37	1
Endrin ketone	<0.00016		0.0013	0.00016	ug/L		05/21/19 11:45	05/24/19 19:37	1
gamma-BHC (Lindane)	<0.00011		0.0013	0.00011	ug/L		05/21/19 11:45	05/24/19 19:37	1
trans-Chlordane	<0.00012		0.0013	0.00012	ug/L		05/21/19 11:45	05/24/19 19:37	1
Heptachlor	<0.00043		0.0013	0.00043	ug/L		05/21/19 11:45	05/24/19 19:37	1
Heptachlor epoxide	<0.00013		0.0013	0.00013	ug/L		05/21/19 11:45	05/24/19 19:37	1
Methoxychlor	<0.00033		0.0013	0.00033	ug/L		05/21/19 11:45	05/24/19 19:37	1
Mirex	<0.00020		0.0013	0.00020	ug/L		05/21/19 11:45	05/24/19 19:37	1
Toxaphene	<0.011		0.096	0.011	ug/L		05/21/19 11:45	05/24/19 19:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*52*		*38 - 146*	*05/21/19 11:45*	*05/24/19 19:37*	*1*
DCB Decachlorobiphenyl (Surr)	*84*		*42 - 150*	*05/21/19 11:45*	*05/24/19 19:37*	*1*

Method: EPA 608 - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1221	<0.0055		0.0096	0.0055	ug/L		05/21/19 11:45	05/22/19 21:14	1
PCB-1232	<0.0050		0.0096	0.0050	ug/L		05/21/19 11:45	05/22/19 21:14	1
PCB-1016	<0.0046		0.0096	0.0046	ug/L		05/21/19 11:45	05/22/19 21:14	1
PCB-1242	<0.0088		0.0096	0.0088	ug/L		05/21/19 11:45	05/22/19 21:14	1
PCB-1248	<0.0029		0.0096	0.0029	ug/L		05/21/19 11:45	05/22/19 21:14	1
PCB-1254	<0.0092		0.0096	0.0092	ug/L		05/21/19 11:45	05/22/19 21:14	1
PCB-1260	<0.0038		0.0096	0.0038	ug/L		05/21/19 11:45	05/22/19 21:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*103*	*p*	*38 - 146*	*05/21/19 11:45*	*05/22/19 21:14*	*1*

Method: EPA 8141B - Organophosphorous Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Guthion	<0.049		0.19	0.049	ug/L		05/21/19 10:45	05/22/19 10:42	1
Chlorpyrifos	<0.043		0.19	0.043	ug/L		05/21/19 10:45	05/22/19 10:42	1
Demeton	<0.031		0.38	0.031	ug/L		05/21/19 10:45	05/22/19 10:42	1
Diazinon	<0.034		0.19	0.034	ug/L		05/21/19 10:45	05/22/19 10:42	1
Parathion	<0.037		0.19	0.037	ug/L		05/21/19 10:45	05/22/19 10:42	1
Malathion	<0.040		0.19	0.040	ug/L		05/21/19 10:45	05/22/19 10:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*94*		*69 - 130*	*05/21/19 10:45*	*05/22/19 10:42*	*1*

Method: 8321A - Hexachlorphene (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorophene	<0.0049		0.30	0.0049	ug/L			05/22/19 12:38	1

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0014**		0.00050	0.00014	ug/L		05/20/19 14:30	05/21/19 17:12	1

Client: City of Laredo
Job ID: 560-79907-1
Project/Site: Table II & III -South Laredo 5/16/19

Client Sample ID: South Laredo Effluent
Lab Sample ID: 560-79907-2
Date Collected: 05/16/19 10:00
Matrix: Water
Date Received: 05/17/19 08:00

Method: EPA 200.8 Rev 5 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.22		1.0	0.22	ug/L		05/21/19 14:47	05/22/19 20:53	1
Arsenic	**0.70**	**J**	1.0	0.17	ug/L		05/21/19 14:47	05/22/19 20:53	1
Beryllium	<0.087		1.0	0.087	ug/L		05/21/19 14:47	05/22/19 20:53	1
Chromium	<0.58		2.0	0.58	ug/L		05/21/19 14:47	05/22/19 20:53	1
Copper	**2.5**		2.0	0.99	ug/L		05/21/19 14:47	05/22/19 20:53	1
Nickel	**2.4**		1.0	0.46	ug/L		05/21/19 14:47	05/22/19 20:53	1
Lead	**0.30**	**J**	1.0	0.16	ug/L		05/21/19 14:47	05/22/19 20:53	1
Antimony	**0.92**	**J**	2.0	0.35	ug/L		05/21/19 14:47	05/22/19 20:53	1
Selenium	<0.81		5.0	0.81	ug/L		05/21/19 14:47	05/22/19 20:53	1
Thallium	<0.12		1.0	0.12	ug/L		05/21/19 14:47	05/22/19 20:53	1
Zinc	**58**		5.0	2.2	ug/L		05/21/19 14:47	05/22/19 20:53	1
Aluminum	**18**	**J**	30	12	ug/L		05/21/19 14:47	05/22/19 20:53	1
Barium	**73**		10	1.2	ug/L		05/21/19 14:47	05/22/19 20:53	1
Cadmium	<0.21		1.0	0.21	ug/L		05/21/19 14:47	05/22/19 20:53	1

Client Sample ID: Trip Blank
Lab Sample ID: 560-79907-3
Date Collected: 05/16/19 00:00
Matrix: Water
Date Received: 05/17/19 08:00

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	<1.0		50	1.0	ug/L			05/20/19 17:26	1
Acrylonitrile	<1.9		10	1.9	ug/L			05/20/19 17:26	1
Benzene	<0.33		1.0	0.33	ug/L			05/20/19 17:26	1
Dichlorobromomethane	<0.18		1.0	0.18	ug/L			05/20/19 17:26	1
Bromoform	<0.50		5.0	0.50	ug/L			05/20/19 17:26	1
Methyl bromide	<0.39		5.0	0.39	ug/L			05/20/19 17:26	1
Carbon tetrachloride	<0.25		1.0	0.25	ug/L			05/20/19 17:26	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			05/20/19 17:26	1
Chloroethane	<0.40		5.0	0.40	ug/L			05/20/19 17:26	1
2-Chloroethyl vinyl ether	<0.19		2.0	0.19	ug/L			05/20/19 17:26	1
Chloroform	<0.17		1.0	0.17	ug/L			05/20/19 17:26	1
Methyl chloride	<0.39		5.0	0.39	ug/L			05/20/19 17:26	1
Chlorodibromomethane	<0.22		2.0	0.22	ug/L			05/20/19 17:26	1
1,2-Dibromoethane	<0.15		1.0	0.15	ug/L			05/20/19 17:26	1
1,1-Dichloroethylene	<0.30		1.0	0.30	ug/L			05/20/19 17:26	1
1,2-Dichloroethane	<0.16		1.0	0.16	ug/L			05/20/19 17:26	1
1,1-Dichloroethane	<0.17		1.0	0.17	ug/L			05/20/19 17:26	1
1,2-trans-Dichloroethylene	<0.20		1.0	0.20	ug/L			05/20/19 17:26	1
1,2-Dichloropropane	<0.17		1.0	0.17	ug/L			05/20/19 17:26	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			05/20/19 17:26	1
Methylene Chloride	<2.0		10	2.0	ug/L			05/20/19 17:26	1
1,1,2,2-Tetrachloroethane	<0.19		1.0	0.19	ug/L			05/20/19 17:26	1
Tetrachloroethylene	<0.19		1.0	0.19	ug/L			05/20/19 17:26	1
Toluene	<0.30		1.0	0.30	ug/L			05/20/19 17:26	1
1,1,1-Trichloroethane	<0.30		1.0	0.30	ug/L			05/20/19 17:26	1
1,1,2-Trichloroethane	<0.17		1.0	0.17	ug/L			05/20/19 17:26	1
Trichloroethylene	<0.32		1.0	0.32	ug/L			05/20/19 17:26	1
Vinyl chloride	<0.30		1.0	0.30	ug/L			05/20/19 17:26	1
Methyl Ethyl Ketone	<0.47		10	0.47	ug/L			05/20/19 17:26	1

Client: City of Laredo
Job ID: 560-79907-1
Project/Site: Table II & III -South Laredo 5/16/19

Client Sample ID: Trip Blank
Lab Sample ID: 560-79907-3
Date Collected: 05/16/19 00:00
Matrix: Water
Date Received: 05/17/19 08:00

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trihalomethanes, Total	<1.1		3.0	1.1	ug/L			05/20/19 17:26	1
1,3-Dichloropropylene	<0.20		5.0	0.20	ug/L			05/20/19 17:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*70 - 130*		*05/20/19 17:26*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*05/20/19 17:26*	*1*
Dibromofluoromethane (Surr)	*115*		*70 - 130*		*05/20/19 17:26*	*1*

Method: 624 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 560-162733/7
Matrix: Water
Analysis Batch: 162733

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	<1.0		50	1.0	ug/L			05/17/19 12:10	1
Acrylonitrile	<1.9		10	1.9	ug/L			05/17/19 12:10	1
Benzene	<0.33		1.0	0.33	ug/L			05/17/19 12:10	1
Dichlorobromomethane	<0.18		1.0	0.18	ug/L			05/17/19 12:10	1
Bromoform	<0.50		5.0	0.50	ug/L			05/17/19 12:10	1
Methyl bromide	<0.39		5.0	0.39	ug/L			05/17/19 12:10	1
Carbon tetrachloride	<0.25		1.0	0.25	ug/L			05/17/19 12:10	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			05/17/19 12:10	1
Chloroethane	<0.40		5.0	0.40	ug/L			05/17/19 12:10	1
2-Chloroethyl vinyl ether	<0.19		2.0	0.19	ug/L			05/17/19 12:10	1
Chloroform	<0.17		1.0	0.17	ug/L			05/17/19 12:10	1
Methyl chloride	<0.39		5.0	0.39	ug/L			05/17/19 12:10	1
Chlorodibromomethane	<0.22		2.0	0.22	ug/L			05/17/19 12:10	1
1,2-Dibromoethane	<0.15		1.0	0.15	ug/L			05/17/19 12:10	1
1,1-Dichloroethylene	<0.30		1.0	0.30	ug/L			05/17/19 12:10	1
1,2-Dichloroethane	<0.16		1.0	0.16	ug/L			05/17/19 12:10	1
1,1-Dichloroethane	<0.17		1.0	0.17	ug/L			05/17/19 12:10	1
1,2-trans-Dichloroethylene	<0.20		1.0	0.20	ug/L			05/17/19 12:10	1
1,2-Dichloropropane	<0.17		1.0	0.17	ug/L			05/17/19 12:10	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			05/17/19 12:10	1
Methylene Chloride	<2.0		10	2.0	ug/L			05/17/19 12:10	1
1,1,2,2-Tetrachloroethane	<0.19		1.0	0.19	ug/L			05/17/19 12:10	1
Tetrachloroethylene	<0.19		1.0	0.19	ug/L			05/17/19 12:10	1
Toluene	<0.30		1.0	0.30	ug/L			05/17/19 12:10	1
1,1,1-Trichloroethane	<0.30		1.0	0.30	ug/L			05/17/19 12:10	1
1,1,2-Trichloroethane	<0.17		1.0	0.17	ug/L			05/17/19 12:10	1
Trichloroethylene	<0.32		1.0	0.32	ug/L			05/17/19 12:10	1
Vinyl chloride	<0.30		1.0	0.30	ug/L			05/17/19 12:10	1
Methyl Ethyl Ketone	<0.47		10	0.47	ug/L			05/17/19 12:10	1
Trihalomethanes, Total	<1.1		3.0	1.1	ug/L			05/17/19 12:10	1
1,3-Dichloropropylene	<0.20		5.0	0.20	ug/L			05/17/19 12:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*70 - 130*		*05/17/19 12:10*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*05/17/19 12:10*	*1*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*05/17/19 12:10*	*1*

Lab Sample ID: LCS 560-162733/3
Matrix: Water
Analysis Batch: 162733

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acrolein	247	237		ug/L		96	10 - 306
Acrylonitrile	250	227		ug/L		91	71 - 128
Benzene	25.0	23.8		ug/L		95	37 - 151
Dichlorobromomethane	25.0	27.7		ug/L		111	35 - 155
Bromoform	25.0	28.9		ug/L		116	45 - 169
Methyl bromide	25.0	24.0		ug/L		96	1 - 242

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 560-162733/3
Matrix: Water
Analysis Batch: 162733

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon tetrachloride	25.0	29.7		ug/L		119	70 - 140
Chlorobenzene	25.0	24.5		ug/L		98	37 - 160
Chloroethane	25.0	22.7		ug/L		91	14 - 230
2-Chloroethyl vinyl ether	25.0	21.0		ug/L		84	1 - 305
Chloroform	25.0	27.3		ug/L		109	51 - 138
Methyl chloride	25.0	20.7		ug/L		83	1 - 273
Chlorodibromomethane	25.0	27.9		ug/L		111	53 - 149
1,2-Dibromoethane	25.0	26.3		ug/L		105	70 - 130
1,1-Dichloroethylene	25.0	26.6		ug/L		106	1 - 234
1,2-Dichloroethane	25.0	28.5		ug/L		114	49 - 155
1,1-Dichloroethane	25.0	25.3		ug/L		101	59 - 155
1,2-trans-Dichloroethylene	25.0	26.5		ug/L		106	54 - 156
1,2-Dichloropropane	25.0	25.0		ug/L		100	1 - 210
Ethylbenzene	25.0	23.7		ug/L		95	37 - 162
Methylene Chloride	25.0	24.1		ug/L		96	1 - 221
1,1,2,2-Tetrachloroethane	25.0	22.9		ug/L		92	46 - 157
Tetrachloroethylene	25.0	27.1		ug/L		108	64 - 148
Toluene	25.0	24.4		ug/L		98	47 - 150
1,1,1-Trichloroethane	25.0	29.2		ug/L		117	52 - 162
1,1,2-Trichloroethane	25.0	24.3		ug/L		97	52 - 150
Trichloroethylene	25.0	24.6		ug/L		98	71 - 157
Vinyl chloride	25.0	21.9		ug/L		88	1 - 251
Methyl Ethyl Ketone	125	112		ug/L		89	30 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*70 - 130*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
Dibromofluoromethane (Surr)	*112*		*70 - 130*

Lab Sample ID: LCSD 560-162733/4
Matrix: Water
Analysis Batch: 162733

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acrolein	247	257		ug/L		104	10 - 306	8	20
Acrylonitrile	250	254		ug/L		101	71 - 128	11	20
Benzene	25.0	25.1		ug/L		101	37 - 151	6	20
Dichlorobromomethane	25.0	28.8		ug/L		115	35 - 155	4	20
Bromoform	25.0	29.3		ug/L		117	45 - 169	1	20
Methyl bromide	25.0	24.7		ug/L		99	1 - 242	3	20
Carbon tetrachloride	25.0	31.9		ug/L		128	70 - 140	7	20
Chlorobenzene	25.0	25.3		ug/L		101	37 - 160	3	20
Chloroethane	25.0	24.0		ug/L		96	14 - 230	5	20
2-Chloroethyl vinyl ether	25.0	23.1		ug/L		92	1 - 305	10	20
Chloroform	25.0	27.8		ug/L		111	51 - 138	2	20
Methyl chloride	25.0	22.5		ug/L		90	1 - 273	9	20
Chlorodibromomethane	25.0	29.7		ug/L		119	53 - 149	6	20
1,2-Dibromoethane	25.0	26.3		ug/L		105	70 - 130	0	20

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 560-162733/4
Matrix: Water
Analysis Batch: 162733

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethylene	25.0	27.8		ug/L		111	1 - 234	4	20
1,2-Dichloroethane	25.0	29.1		ug/L		116	49 - 155	2	20
1,1-Dichloroethane	25.0	25.6		ug/L		103	59 - 155	1	20
1,2-trans-Dichloroethylene	25.0	27.7		ug/L		111	54 - 156	4	20
1,2-Dichloropropane	25.0	24.9		ug/L		100	1 - 210	0	20
Ethylbenzene	25.0	24.2		ug/L		97	37 - 162	2	20
Methylene Chloride	25.0	25.3		ug/L		101	1 - 221	5	20
1,1,2,2-Tetrachloroethane	25.0	23.2		ug/L		93	46 - 157	1	20
Tetrachloroethylene	25.0	27.8		ug/L		111	64 - 148	3	20
Toluene	25.0	24.2		ug/L		97	47 - 150	1	20
1,1,1-Trichloroethane	25.0	30.7		ug/L		123	52 - 162	5	20
1,1,2-Trichloroethane	25.0	24.3		ug/L		97	52 - 150	0	20
Trichloroethylene	25.0	25.5		ug/L		102	71 - 157	4	20
Vinyl chloride	25.0	23.6		ug/L		94	1 - 251	7	20
Methyl Ethyl Ketone	125	129		ug/L		103	30 - 150	15	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*70 - 130*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
Dibromofluoromethane (Surr)	*107*		*70 - 130*

Lab Sample ID: MB 560-162793/8
Matrix: Water
Analysis Batch: 162793

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	<1.0		50	1.0	ug/L			05/20/19 14:05	1
Acrylonitrile	<1.9		10	1.9	ug/L			05/20/19 14:05	1
Benzene	<0.33		1.0	0.33	ug/L			05/20/19 14:05	1
Dichlorobromomethane	<0.18		1.0	0.18	ug/L			05/20/19 14:05	1
Bromoform	<0.50		5.0	0.50	ug/L			05/20/19 14:05	1
Methyl bromide	<0.39		5.0	0.39	ug/L			05/20/19 14:05	1
Carbon tetrachloride	<0.25		1.0	0.25	ug/L			05/20/19 14:05	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			05/20/19 14:05	1
Chloroethane	<0.40		5.0	0.40	ug/L			05/20/19 14:05	1
2-Chloroethyl vinyl ether	<0.19		2.0	0.19	ug/L			05/20/19 14:05	1
Chloroform	<0.17		1.0	0.17	ug/L			05/20/19 14:05	1
Methyl chloride	<0.39		5.0	0.39	ug/L			05/20/19 14:05	1
Chlorodibromomethane	<0.22		2.0	0.22	ug/L			05/20/19 14:05	1
1,2-Dibromoethane	<0.15		1.0	0.15	ug/L			05/20/19 14:05	1
1,1-Dichloroethylene	<0.30		1.0	0.30	ug/L			05/20/19 14:05	1
1,2-Dichloroethane	<0.16		1.0	0.16	ug/L			05/20/19 14:05	1
1,1-Dichloroethane	<0.17		1.0	0.17	ug/L			05/20/19 14:05	1
1,2-trans-Dichloroethylene	<0.20		1.0	0.20	ug/L			05/20/19 14:05	1
1,2-Dichloropropane	<0.17		1.0	0.17	ug/L			05/20/19 14:05	1
Ethylbenzene	<0.20		1.0	0.20	ug/L			05/20/19 14:05	1
Methylene Chloride	<2.0		10	2.0	ug/L			05/20/19 14:05	1
1,1,2,2-Tetrachloroethane	<0.19		1.0	0.19	ug/L			05/20/19 14:05	1

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 560-162793/8
Matrix: Water
Analysis Batch: 162793

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethylene	<0.19		1.0	0.19	ug/L			05/20/19 14:05	1
Toluene	<0.30		1.0	0.30	ug/L			05/20/19 14:05	1
1,1,1-Trichloroethane	<0.30		1.0	0.30	ug/L			05/20/19 14:05	1
1,1,2-Trichloroethane	<0.17		1.0	0.17	ug/L			05/20/19 14:05	1
Trichloroethylene	<0.32		1.0	0.32	ug/L			05/20/19 14:05	1
Vinyl chloride	<0.30		1.0	0.30	ug/L			05/20/19 14:05	1
Methyl Ethyl Ketone	<0.47		10	0.47	ug/L			05/20/19 14:05	1
Trihalomethanes, Total	<1.1		3.0	1.1	ug/L			05/20/19 14:05	1
1,3-Dichloropropylene	<0.20		5.0	0.20	ug/L			05/20/19 14:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*70 - 130*		*05/20/19 14:05*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*05/20/19 14:05*	*1*
Dibromofluoromethane (Surr)	*112*		*70 - 130*		*05/20/19 14:05*	*1*

Lab Sample ID: LCS 560-162793/3
Matrix: Water
Analysis Batch: 162793

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acrolein	247	233		ug/L		94	10 - 306
Acrylonitrile	250	253		ug/L		101	71 - 128
Benzene	25.0	23.9		ug/L		96	37 - 151
Dichlorobromomethane	25.0	29.0		ug/L		116	35 - 155
Bromoform	25.0	30.7		ug/L		123	45 - 169
Methyl bromide	25.0	25.1		ug/L		100	1 - 242
Carbon tetrachloride	25.0	33.0		ug/L		132	70 - 140
Chlorobenzene	25.0	25.1		ug/L		101	37 - 160
Chloroethane	25.0	25.4		ug/L		101	14 - 230
2-Chloroethyl vinyl ether	25.0	22.7		ug/L		91	1 - 305
Chloroform	25.0	28.2		ug/L		113	51 - 138
Methyl chloride	25.0	21.9		ug/L		88	1 - 273
Chlorodibromomethane	25.0	30.8		ug/L		123	53 - 149
1,2-Dibromoethane	25.0	27.4		ug/L		109	70 - 130
1,1-Dichloroethylene	25.0	29.6		ug/L		118	1 - 234
1,2-Dichloroethane	25.0	30.2		ug/L		121	49 - 155
1,1-Dichloroethane	25.0	25.5		ug/L		102	59 - 155
1,2-trans-Dichloroethylene	25.0	27.0		ug/L		108	54 - 156
1,2-Dichloropropane	25.0	24.7		ug/L		99	1 - 210
Ethylbenzene	25.0	24.0		ug/L		96	37 - 162
Methylene Chloride	25.0	25.4		ug/L		101	1 - 221
1,1,2,2-Tetrachloroethane	25.0	23.1		ug/L		92	46 - 157
Tetrachloroethylene	25.0	27.5		ug/L		110	64 - 148
Toluene	25.0	24.0		ug/L		96	47 - 150
1,1,1-Trichloroethane	25.0	31.4		ug/L		126	52 - 162
1,1,2-Trichloroethane	25.0	25.7		ug/L		103	52 - 150
Trichloroethylene	25.0	25.3		ug/L		101	71 - 157
Vinyl chloride	25.0	24.1		ug/L		96	1 - 251

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 560-162793/3
Matrix: Water
Analysis Batch: 162793

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl Ethyl Ketone	125	126		ug/L		101	30 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*70 - 130*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*113*		*70 - 130*

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 560-162785/1-A
Matrix: Water
Analysis Batch: 162808

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 162785

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.46		10	0.46	ug/L		05/20/19 10:00	05/21/19 12:22	1
Acenaphthylene	<0.45		10	0.45	ug/L		05/20/19 10:00	05/21/19 12:22	1
Anthracene	<0.70		10	0.70	ug/L		05/20/19 10:00	05/21/19 12:22	1
Benzidine	<0.39		50	0.39	ug/L		05/20/19 10:00	05/21/19 12:22	1
Benzo[a]anthracene	<0.65		10	0.65	ug/L		05/20/19 10:00	05/21/19 12:22	1
3,4-Benzofluoranthene	<0.91		10	0.91	ug/L		05/20/19 10:00	05/21/19 12:22	1
Benzo[k]fluoranthene	<1.5		10	1.5	ug/L		05/20/19 10:00	05/21/19 12:22	1
Benzo[g,h,i]perylene	<1.1		10	1.1	ug/L		05/20/19 10:00	05/21/19 12:22	1
Benzo[a]pyrene	<0.74		10	0.74	ug/L		05/20/19 10:00	05/21/19 12:22	1
Butyl benzyl phthalate	<0.82		10	0.82	ug/L		05/20/19 10:00	05/21/19 12:22	1
Bis(2-chloroethoxy)methane	<0.44		10	0.44	ug/L		05/20/19 10:00	05/21/19 12:22	1
Bis(2-chloroethyl)ether	<1.6		10	1.6	ug/L		05/20/19 10:00	05/21/19 12:22	1
Bis(2-ethylhexyl) phthalate	<5.0		20	5.0	ug/L		05/20/19 10:00	05/21/19 12:22	1
4-Bromophenyl phenyl ether	<0.81		10	0.81	ug/L		05/20/19 10:00	05/21/19 12:22	1
2-Chloronaphthalene	<0.60		10	0.60	ug/L		05/20/19 10:00	05/21/19 12:22	1
4-Chlorophenyl phenyl ether	<0.53		10	0.53	ug/L		05/20/19 10:00	05/21/19 12:22	1
Chrysene	<0.49		10	0.49	ug/L		05/20/19 10:00	05/21/19 12:22	1
Dibenz(a,h)anthracene	<0.87		10	0.87	ug/L		05/20/19 10:00	05/21/19 12:22	1
1,2-Dichlorobenzene	<0.78		10	0.78	ug/L		05/20/19 10:00	05/21/19 12:22	1
1,3-Dichlorobenzene	<0.49		10	0.49	ug/L		05/20/19 10:00	05/21/19 12:22	1
1,4-Dichlorobenzene	<0.82		10	0.82	ug/L		05/20/19 10:00	05/21/19 12:22	1
3,3'-Dichlorobenzidine	<0.79		10	0.79	ug/L		05/20/19 10:00	05/21/19 12:22	1
Diethyl phthalate	<0.67		10	0.67	ug/L		05/20/19 10:00	05/21/19 12:22	1
Dimethyl phthalate	<0.59		10	0.59	ug/L		05/20/19 10:00	05/21/19 12:22	1
Di-n-butyl phthalate	<0.71		10	0.71	ug/L		05/20/19 10:00	05/21/19 12:22	1
Di-n-octyl phthalate	<1.1		10	1.1	ug/L		05/20/19 10:00	05/21/19 12:22	1
2,4-Dinitrotoluene	<0.51		10	0.51	ug/L		05/20/19 10:00	05/21/19 12:22	1
2,6-Dinitrotoluene	<0.76		10	0.76	ug/L		05/20/19 10:00	05/21/19 12:22	1
Fluoranthene	<0.50		10	0.50	ug/L		05/20/19 10:00	05/21/19 12:22	1
Fluorene	<0.42		10	0.42	ug/L		05/20/19 10:00	05/21/19 12:22	1
Hexachlorobenzene	<0.60		10	0.60	ug/L		05/20/19 10:00	05/21/19 12:22	1
Hexachlorobutadiene	<0.72		10	0.72	ug/L		05/20/19 10:00	05/21/19 12:22	1
Hexachlorocyclopentadiene	<0.84		10	0.84	ug/L		05/20/19 10:00	05/21/19 12:22	1
Hexachloroethane	<0.59		10	0.59	ug/L		05/20/19 10:00	05/21/19 12:22	1
Indeno[1,2,3-cd]pyrene	<0.92		10	0.92	ug/L		05/20/19 10:00	05/21/19 12:22	1

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 560-162785/1-A
Matrix: Water
Analysis Batch: 162808

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 162785

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isophorone	<0.55		10	0.55	ug/L		05/20/19 10:00	05/21/19 12:22	1
Naphthalene	<0.79		10	0.79	ug/L		05/20/19 10:00	05/21/19 12:22	1
Nitrobenzene	<0.59		10	0.59	ug/L		05/20/19 10:00	05/21/19 12:22	1
N-Nitrosodimethylamine	<1.4		10	1.4	ug/L		05/20/19 10:00	05/21/19 12:22	1
N-Nitrosodi-n-propylamine	<0.62		10	0.62	ug/L		05/20/19 10:00	05/21/19 12:22	1
N-Nitrosodiphenylamine	<1.0		10	1.0	ug/L		05/20/19 10:00	05/21/19 12:22	1
Phenanthrene	<0.59		10	0.59	ug/L		05/20/19 10:00	05/21/19 12:22	1
Pyrene	<0.44		10	0.44	ug/L		05/20/19 10:00	05/21/19 12:22	1
1,2,4-Trichlorobenzene	<0.65		10	0.65	ug/L		05/20/19 10:00	05/21/19 12:22	1
p-Chloro-m-cresol	<0.59		10	0.59	ug/L		05/20/19 10:00	05/21/19 12:22	1
2-Chlorophenol	<0.73		10	0.73	ug/L		05/20/19 10:00	05/21/19 12:22	1
2,4-Dichlorophenol	<0.70		10	0.70	ug/L		05/20/19 10:00	05/21/19 12:22	1
2,4-Dimethylphenol	<0.59		10	0.59	ug/L		05/20/19 10:00	05/21/19 12:22	1
2,4-Dinitrophenol	<2.7		20	2.7	ug/L		05/20/19 10:00	05/21/19 12:22	1
4,6-Dinitro-o-cresol	<0.96		10	0.96	ug/L		05/20/19 10:00	05/21/19 12:22	1
2-Nitrophenol	<0.81		10	0.81	ug/L		05/20/19 10:00	05/21/19 12:22	1
4-Nitrophenol	<1.7		10	1.7	ug/L		05/20/19 10:00	05/21/19 12:22	1
Pentachlorophenol	<1.3		40	1.3	ug/L		05/20/19 10:00	05/21/19 12:22	1
Phenol	<0.77		10	0.77	ug/L		05/20/19 10:00	05/21/19 12:22	1
2,4,6-Trichlorophenol	<0.66		10	0.66	ug/L		05/20/19 10:00	05/21/19 12:22	1
m & p - Cresol	<0.76		20	0.76	ug/L		05/20/19 10:00	05/21/19 12:22	1
o-Cresol	<0.61		10	0.61	ug/L		05/20/19 10:00	05/21/19 12:22	1
1,2-Diphenylhydrazine (as Azobenzene)	<0.79		10	0.79	ug/L		05/20/19 10:00	05/21/19 12:22	1
N-Nitrosodiethylamine	<0.89		10	0.89	ug/L		05/20/19 10:00	05/21/19 12:22	1
N-Nitrosodi-n-butylamine	<1.5		10	1.5	ug/L		05/20/19 10:00	05/21/19 12:22	1
Pentachlorobenzene	<0.86		10	0.86	ug/L		05/20/19 10:00	05/21/19 12:22	1
Pyridine	<0.66		10	0.66	ug/L		05/20/19 10:00	05/21/19 12:22	1
1,2,4,5-Tetrachlorobenzene	<0.66		10	0.66	ug/L		05/20/19 10:00	05/21/19 12:22	1
2,4,5-Trichlorophenol	<0.86		10	0.86	ug/L		05/20/19 10:00	05/21/19 12:22	1
2,3,4,6-Tetrachlorophenol	<1.5		10	1.5	ug/L		05/20/19 10:00	05/21/19 12:22	1
bis (2-chloroisopropyl) ether	<0.50		10	0.50	ug/L		05/20/19 10:00	05/21/19 12:22	1
Total Cresols, TCEQ Definition	<0.76		10	0.76	ug/L		05/20/19 10:00	05/21/19 12:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*70*		*10 - 120*	*05/20/19 10:00*	*05/21/19 12:22*	*1*
Phenol-d5 (Surr)	*71*		*10 - 120*	*05/20/19 10:00*	*05/21/19 12:22*	*1*
Nitrobenzene-d5 (Surr)	*74*		*26 - 120*	*05/20/19 10:00*	*05/21/19 12:22*	*1*
2-Fluorobiphenyl	*81*		*22 - 120*	*05/20/19 10:00*	*05/21/19 12:22*	*1*
2,4,6-Tribromophenol (Surr)	*75*		*24 - 131*	*05/20/19 10:00*	*05/21/19 12:22*	*1*
Terphenyl-d14 (Surr)	*97*		*10 - 134*	*05/20/19 10:00*	*05/21/19 12:22*	*1*

Lab Sample ID: LCS 560-162785/2-A
Matrix: Water
Analysis Batch: 162808

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 162785

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	200	185		ug/L		92	47 - 145
Acenaphthylene	200	187		ug/L		94	33 - 145

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 560-162785/2-A
Matrix: Water
Analysis Batch: 162808

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 162785

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	200	176		ug/L		88	27 - 133
Benzidine	200	173		ug/L		87	10 - 120
Benzo[a]anthracene	200	206		ug/L		103	33 - 143
3,4-Benzofluoranthene	200	194		ug/L		97	24 - 159
Benzo[k]fluoranthene	200	210		ug/L		105	11 - 162
Benzo[g,h,i]perylene	200	200		ug/L		100	1 - 219
Benzo[a]pyrene	200	175		ug/L		87	17 - 163
Butyl benzyl phthalate	200	187		ug/L		94	1 - 152
Bis(2-chloroethoxy)methane	200	163		ug/L		82	33 - 184
Bis(2-chloroethyl)ether	200	175		ug/L		88	12 - 158
Bis(2-ethylhexyl) phthalate	200	189		ug/L		94	8 - 158
4-Bromophenyl phenyl ether	200	171		ug/L		86	53 - 127
2-Chloronaphthalene	200	184		ug/L		92	60 - 118
4-Chlorophenyl phenyl ether	200	196		ug/L		98	25 - 158
Chrysene	200	196		ug/L		98	17 - 168
Dibenz(a,h)anthracene	200	188		ug/L		94	1 - 227
1,2-Dichlorobenzene	200	149		ug/L		74	32 - 129
1,3-Dichlorobenzene	200	146		ug/L		73	1 - 172
1,4-Dichlorobenzene	200	149		ug/L		74	20 - 124
3,3'-Dichlorobenzidine	200	208		ug/L		104	1 - 262
Diethyl phthalate	200	202		ug/L		101	1 - 114
Dimethyl phthalate	200	191		ug/L		96	1 - 112
Di-n-butyl phthalate	200	183		ug/L		92	1 - 118
Di-n-octyl phthalate	200	194		ug/L		97	4 - 146
2,4-Dinitrotoluene	200	203		ug/L		102	39 - 139
2,6-Dinitrotoluene	200	201		ug/L		101	50 - 158
Fluoranthene	200	184		ug/L		92	26 - 137
Fluorene	200	202		ug/L		101	59 - 121
Hexachlorobenzene	200	173		ug/L		87	1 - 152
Hexachlorobutadiene	200	162		ug/L		81	24 - 116
Hexachlorocyclopentadiene	200	131		ug/L		65	10 - 120
Hexachloroethane	200	152		ug/L		76	40 - 113
Indeno[1,2,3-cd]pyrene	200	188		ug/L		94	1 - 171
Isophorone	200	170		ug/L		85	21 - 196
Naphthalene	200	160		ug/L		80	21 - 133
Nitrobenzene	200	167		ug/L		84	35 - 180
N-Nitrosodimethylamine	200	162		ug/L		81	25 - 110
N-Nitrosodi-n-propylamine	200	183		ug/L		92	1 - 230
N-Nitrosodiphenylamine	200	190		ug/L		95	50 - 110
Phenanthrene	200	195		ug/L		98	54 - 120
Pyrene	200	204		ug/L		102	52 - 115
1,2,4-Trichlorobenzene	200	161		ug/L		80	44 - 142
p-Chloro-m-cresol	200	166		ug/L		83	22 - 147
2-Chlorophenol	200	155		ug/L		77	23 - 134
2,4-Dichlorophenol	200	158		ug/L		79	39 - 135
2,4-Dimethylphenol	200	166		ug/L		83	32 - 119
2,4-Dinitrophenol	400	309		ug/L		77	1 - 191
4,6-Dinitro-o-cresol	400	312		ug/L		78	1 - 181
2-Nitrophenol	200	173		ug/L		86	29 - 182

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 560-162785/2-A
Matrix: Water
Analysis Batch: 162808

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 162785

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Nitrophenol	400	342		ug/L		86	1 - 132
Pentachlorophenol	400	289		ug/L		72	14 - 176
Phenol	200	143		ug/L		72	5 - 112
2,4,6-Trichlorophenol	200	173		ug/L		86	37 - 144
m & p - Cresol	200	170		ug/L		85	30 - 110
o-Cresol	200	159		ug/L		79	40 - 110
1,2-Diphenylhydrazine (as Azobenzene)	200	171		ug/L		85	53 - 122
N-Nitrosodiethylamine	200	143		ug/L		72	48 - 120
N-Nitrosodi-n-butylamine	200	156		ug/L		78	60 - 120
Pentachlorobenzene	200	135		ug/L		68	55 - 120
Pyridine	400	272		ug/L		68	10 - 120
1,2,4,5-Tetrachlorobenzene	200	179		ug/L		90	50 - 120
2,4,5-Trichlorophenol	200	160		ug/L		80	50 - 120
2,3,4,6-Tetrachlorophenol	200	189		ug/L		94	59 - 120
bis (2-chloroisopropyl) ether	200	155		ug/L		77	36 - 166
Total Cresols, TCEQ Definition	400	329		ug/L		82	30 - 110

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*65*		*10 - 120*
Phenol-d5 (Surr)	*70*		*10 - 120*
Nitrobenzene-d5 (Surr)	*90*		*26 - 120*
2-Fluorobiphenyl	*79*		*22 - 120*
2,4,6-Tribromophenol (Surr)	*79*		*24 - 131*
Terphenyl-d14 (Surr)	*85*		*10 - 134*

Lab Sample ID: LCSD 560-162785/3-A
Matrix: Water
Analysis Batch: 162808

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 162785

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	200	183		ug/L		91	47 - 145	1	27.6
Acenaphthylene	200	188		ug/L		94	33 - 145	0	40.2
Anthracene	200	177		ug/L		88	27 - 133	0	32.0
Benzidine	200	171		ug/L		86	10 - 120	1	30.0
Benzo[a]anthracene	200	206		ug/L		103	33 - 143	0	27.6
3,4-Benzofluoranthene	200	192		ug/L		96	24 - 159	1	38.8
Benzo[k]fluoranthene	200	209		ug/L		105	11 - 162	0	32.3
Benzo[g,h,i]perylene	200	200		ug/L		100	1 - 219	0	58.9
Benzo[a]pyrene	200	173		ug/L		86	17 - 163	1	39.0
Butyl benzyl phthalate	200	184		ug/L		92	1 - 152	2	23.4
Bis(2-chloroethoxy)methane	200	164		ug/L		82	33 - 184	0	34.5
Bis(2-chloroethyl)ether	200	170		ug/L		85	12 - 158	3	55.0
Bis(2-ethylhexyl) phthalate	200	189		ug/L		95	8 - 158	0	41.1
4-Bromophenyl phenyl ether	200	171		ug/L		86	53 - 127	0	23.0
2-Chloronaphthalene	200	183		ug/L		91	60 - 118	1	20.0
4-Chlorophenyl phenyl ether	200	194		ug/L		97	25 - 158	1	33.4
Chrysene	200	196		ug/L		98	17 - 168	0	48.3
Dibenz(a,h)anthracene	200	187		ug/L		94	1 - 227	0	70.0

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 560-162785/3-A
Matrix: Water
Analysis Batch: 162808

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 162785

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichlorobenzene	200	146		ug/L		73	32 - 129	2	30.9
1,3-Dichlorobenzene	200	144		ug/L		72	1 - 172	1	41.7
1,4-Dichlorobenzene	200	145		ug/L		73	20 - 124	3	32.1
3,3'-Dichlorobenzidine	200	207		ug/L		104	1 - 262	0	71.4
Diethyl phthalate	200	194		ug/L		97	1 - 114	4	26.5
Dimethyl phthalate	200	186		ug/L		93	1 - 112	3	23.2
Di-n-butyl phthalate	200	180		ug/L		90	1 - 118	1	20.7
Di-n-octyl phthalate	200	194		ug/L		97	4 - 146	0	31.4
2,4-Dinitrotoluene	200	206		ug/L		103	39 - 139	1	21.8
2,6-Dinitrotoluene	200	198		ug/L		99	50 - 158	2	29.6
Fluoranthene	200	184		ug/L		92	26 - 137	0	32.8
Fluorene	200	199		ug/L		99	59 - 121	2	20.7
Hexachlorobenzene	200	175		ug/L		88	1 - 152	1	24.9
Hexachlorobutadiene	200	152		ug/L		76	24 - 116	6	26.3
Hexachlorocyclopentadiene	200	124		ug/L		62	10 - 120	5	30.0
Hexachloroethane	200	148		ug/L		74	40 - 113	3	24.5
Indeno[1,2,3-cd]pyrene	200	187		ug/L		93	1 - 171	1	44.6
Isophorone	200	169		ug/L		84	21 - 196	0	63.3
Naphthalene	200	160		ug/L		80	21 - 133	0	30.1
Nitrobenzene	200	165		ug/L		82	35 - 180	2	39.3
N-Nitrosodimethylamine	200	158		ug/L		79	25 - 110	2	30.0
N-Nitrosodi-n-propylamine	200	183		ug/L		92	1 - 230	0	55.4
N-Nitrosodiphenylamine	200	189		ug/L		95	50 - 110	0	30.0
Phenanthrene	200	195		ug/L		98	54 - 120	0	20.6
Pyrene	200	200		ug/L		100	52 - 115	2	25.2
1,2,4-Trichlorobenzene	200	156		ug/L		78	44 - 142	3	28.1
p-Chloro-m-cresol	200	160		ug/L		80	22 - 147	3	37.2
2-Chlorophenol	200	149		ug/L		74	23 - 134	4	28.7
2,4-Dichlorophenol	200	150		ug/L		75	39 - 135	5	26.4
2,4-Dimethylphenol	200	166		ug/L		83	32 - 119	0	26.1
2,4-Dinitrophenol	400	291		ug/L		73	1 - 191	6	49.8
4,6-Dinitro-o-cresol	400	300		ug/L		75	1 - 181	4	40.0
2-Nitrophenol	200	163		ug/L		82	29 - 182	6	35.2
4-Nitrophenol	400	315		ug/L		79	1 - 132	8	47.2
Pentachlorophenol	400	281		ug/L		70	14 - 176	3	48.9
Phenol	200	132		ug/L		66	5 - 112	8	22.6
2,4,6-Trichlorophenol	200	168		ug/L		84	37 - 144	3	31.7
m & p - Cresol	200	163		ug/L		81	30 - 110	4	30.0
o-Cresol	200	153		ug/L		77	40 - 110	4	30.0
1,2-Diphenylhydrazine (as Azobenzene)	200	172		ug/L		86	53 - 122	1	30.0
N-Nitrosodiethylamine	200	147		ug/L		74	48 - 120	3	30.0
N-Nitrosodi-n-butylamine	200	154		ug/L		77	60 - 120	1	30.0
Pentachlorobenzene	200	137		ug/L		68	55 - 120	1	30.0
Pyridine	400	272		ug/L		68	10 - 120	0	30.0
1,2,4,5-Tetrachlorobenzene	200	175		ug/L		87	50 - 120	3	30
2,4,5-Trichlorophenol	200	155		ug/L		78	50 - 120	3	40.0
2,3,4,6-Tetrachlorophenol	200	172		ug/L		86	59 - 120	9	40.0
bis (2-chloroisopropyl) ether	200	153		ug/L		77	36 - 166	1	40.0

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 560-162785/3-A
Matrix: Water
Analysis Batch: 162808

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 162785

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Cresols, TCEQ Definition			400	316		ug/L		79	30 - 110	4	

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorophenol (Surr)	*61*		*10 - 120*
Phenol-d5 (Surr)	*64*		*10 - 120*
Nitrobenzene-d5 (Surr)	*90*		*26 - 120*
2-Fluorobiphenyl	*85*		*22 - 120*
2,4,6-Tribromophenol (Surr)	*77*		*24 - 131*
Terphenyl-d14 (Surr)	*85*		*10 - 134*

Method: D7065-11 - Determination of Nonylphenols

Lab Sample ID: MB 280-459093/1-A
Matrix: Water
Analysis Batch: 460869

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 459093

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nonylphenol	<1.1		5.0	1.1	ug/L		05/22/19 15:04	06/07/19 17:31	1
Nonylphenol diethoxylate	<4.6		20	4.6	ug/L		05/22/19 15:04	06/07/19 17:31	1
Nonylphenol monoethoxylate	<2.1		10	2.1	ug/L		05/22/19 15:04	06/07/19 17:31	1
Bisphenol-A	<1.0		2.1	1.0	ug/L		05/22/19 15:04	06/07/19 17:31	1
4-tert-Octylphenol	<0.28		1.0	0.28	ug/L		05/22/19 15:04	06/07/19 17:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-nonylphenol (Surr)	*118*	*X*	*58 - 115*	*05/22/19 15:04*	*06/07/19 17:31*	*1*
4-nonylphenol monoethoxylate (Surr)	*103*		*54 - 139*	*05/22/19 15:04*	*06/07/19 17:31*	*1*

Lab Sample ID: LCS 280-459093/2-A
Matrix: Water
Analysis Batch: 460869

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 459093

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nonylphenol			50.2	60.8		ug/L		121	56 - 125
Nonylphenol diethoxylate			201	235		ug/L		117	54 - 128
Nonylphenol monoethoxylate			100	120		ug/L		119	57 - 125
Bisphenol-A			10.0	11.6		ug/L		115	52 - 125
4-tert-Octylphenol			10.0	12.6		ug/L		125	55 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-nonylphenol (Surr)	*122*	*X*	*58 - 115*
4-nonylphenol monoethoxylate (Surr)	*113*		*54 - 139*

Method: D7065-11 - Determination of Nonylphenols (Continued)

Lab Sample ID: LCSD 280-459093/3-A
Matrix: Water
Analysis Batch: 460869

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 459093

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nonylphenol			50.2	61.7		ug/L		123	56 - 125	2	22
Nonylphenol diethoxylate			201	230		ug/L		114	54 - 128	2	28
Nonylphenol monoethoxylate			100	121		ug/L		120	57 - 125	1	22
Bisphenol-A			10.0	11.7		ug/L		117	52 - 125	1	22
4-tert-Octylphenol			10.0	12.8	*	ug/L		128	55 - 125	2	24

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-nonylphenol (Surr)	*125*	*X*	*58 - 115*
4-nonylphenol monoethoxylate (Surr)	*115*		*54 - 139*

Method: EPA 608 - Polychlorinated Biphenyls (PCBs) (GC)

Lab Sample ID: MB 180-279332/1-A
Matrix: Water
Analysis Batch: 279375

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 279332

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1221	<0.0057		0.010	0.0057	ug/L		05/21/19 11:45	05/22/19 17:20	1
PCB-1232	<0.0052		0.010	0.0052	ug/L		05/21/19 11:45	05/22/19 17:20	1
PCB-1016	<0.0048		0.010	0.0048	ug/L		05/21/19 11:45	05/22/19 17:20	1
PCB-1242	<0.0091		0.010	0.0091	ug/L		05/21/19 11:45	05/22/19 17:20	1
PCB-1248	<0.0030		0.010	0.0030	ug/L		05/21/19 11:45	05/22/19 17:20	1
PCB-1254	<0.0095		0.010	0.0095	ug/L		05/21/19 11:45	05/22/19 17:20	1
PCB-1260	<0.0039		0.010	0.0039	ug/L		05/21/19 11:45	05/22/19 17:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*88*		*38 - 146*	*05/21/19 11:45*	*05/22/19 17:20*	*1*

Lab Sample ID: LCS 180-279332/4-A
Matrix: Water
Analysis Batch: 279375

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 279332

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016			1.00	0.947		ug/L		95	50 - 140
PCB-1260			1.00	0.953		ug/L		95	10 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*113*		*38 - 146*

Lab Sample ID: LCSD 180-279332/5-A
Matrix: Water
Analysis Batch: 279375

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 279332

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			1.00	0.986		ug/L		99	50 - 140	4	35
PCB-1260			1.00	0.926		ug/L		93	10 - 140	3	35

Method: EPA 608 - Polychlorinated Biphenyls (PCBs) (GC) (Continued)

Lab Sample ID: LCSD 180-279332/5-A
Matrix: Water
Analysis Batch: 279375

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 279332

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	104		38 - 146

Method: EPA 608 - Organochlorine Pesticides/PCBs in Water

Lab Sample ID: MB 180-279332/1-A
Matrix: Water
Analysis Batch: 279668

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 279332

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00021		0.0013	0.00021	ug/L		05/21/19 11:45	05/24/19 15:46	1
4,4'-DDE	<0.00011		0.0013	0.00011	ug/L		05/21/19 11:45	05/24/19 15:46	1
4,4'-DDT	<0.00030		0.0013	0.00030	ug/L		05/21/19 11:45	05/24/19 15:46	1
Aldrin	<0.00012		0.0013	0.00012	ug/L		05/21/19 11:45	05/24/19 15:46	1
alpha-BHC	<0.00012		0.0013	0.00012	ug/L		05/21/19 11:45	05/24/19 15:46	1
cis-Chlordane	<0.00014		0.0013	0.00014	ug/L		05/21/19 11:45	05/24/19 15:46	1
beta-BHC	<0.00015		0.0013	0.00015	ug/L		05/21/19 11:45	05/24/19 15:46	1
Chlordane (technical)	<0.0015		0.013	0.0015	ug/L		05/21/19 11:45	05/24/19 15:46	1
delta-BHC	<0.00034		0.0013	0.00034	ug/L		05/21/19 11:45	05/24/19 15:46	1
Dieldrin	<0.00013		0.0013	0.00013	ug/L		05/21/19 11:45	05/24/19 15:46	1
Endosulfan, alpha	<0.00015		0.0013	0.00015	ug/L		05/21/19 11:45	05/24/19 15:46	1
Endosulfan, beta	<0.00012		0.0013	0.00012	ug/L		05/21/19 11:45	05/24/19 15:46	1
Endosulfan sulfate	<0.00029		0.0013	0.00029	ug/L		05/21/19 11:45	05/24/19 15:46	1
Endrin	<0.00023		0.0013	0.00023	ug/L		05/21/19 11:45	05/24/19 15:46	1
Endrin aldehyde	<0.00024		0.0013	0.00024	ug/L		05/21/19 11:45	05/24/19 15:46	1
Endrin ketone	<0.00017		0.0013	0.00017	ug/L		05/21/19 11:45	05/24/19 15:46	1
gamma-BHC (Lindane)	<0.00012		0.0013	0.00012	ug/L		05/21/19 11:45	05/24/19 15:46	1
trans-Chlordane	<0.00012		0.0013	0.00012	ug/L		05/21/19 11:45	05/24/19 15:46	1
Heptachlor	<0.00045		0.0013	0.00045	ug/L		05/21/19 11:45	05/24/19 15:46	1
Heptachlor epoxide	<0.00014		0.0013	0.00014	ug/L		05/21/19 11:45	05/24/19 15:46	1
Methoxychlor	<0.00034		0.0013	0.00034	ug/L		05/21/19 11:45	05/24/19 15:46	1
Mirex	<0.00021		0.0013	0.00021	ug/L		05/21/19 11:45	05/24/19 15:46	1
Toxaphene	<0.011		0.10	0.011	ug/L		05/21/19 11:45	05/24/19 15:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	75		38 - 146	05/21/19 11:45	05/24/19 15:46	1
DCB Decachlorobiphenyl (Surr)	92		42 - 150	05/21/19 11:45	05/24/19 15:46	1

Lab Sample ID: LCS 180-279332/2-A
Matrix: Water
Analysis Batch: 279668

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 279332

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	0.0250	0.0210		ug/L		84	31 - 141
4,4'-DDE	0.0250	0.0183		ug/L		73	30 - 145
4,4'-DDT	0.0250	0.0200		ug/L		80	25 - 150
Aldrin	0.0250	0.0155		ug/L		62	42 - 140
alpha-BHC	0.0250	0.0158		ug/L		63	37 - 140
cis-Chlordane	0.0250	0.0173		ug/L		69	45 - 140

Method: EPA 608 - Organochlorine Pesticides/PCBs in Water (Continued)

Lab Sample ID: LCS 180-279332/2-A
Matrix: Water
Analysis Batch: 279668

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 279332

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
beta-BHC	0.0250	0.0160		ug/L		64	17 - 147
delta-BHC	0.0250	0.0130		ug/L		52	19 - 140
Dieldrin	0.0250	0.0168		ug/L		67	36 - 146
Endosulfan, alpha	0.0250	0.0180		ug/L		72	45 - 150
Endosulfan, beta	0.0250	0.0204		ug/L		81	10 - 150
Endosulfan sulfate	0.0250	0.0171		ug/L		69	26 - 144
Endrin	0.0250	0.0189		ug/L		76	30 - 147
Endrin aldehyde	0.0250	0.0152		ug/L		61	56 - 125
Endrin ketone	0.0250	0.0181		ug/L		72	49 - 120
gamma-BHC (Lindane)	0.0250	0.0168		ug/L		67	32 - 140
trans-Chlordane	0.0250	0.0168		ug/L		67	45 - 140
Heptachlor	0.0250	0.0151		ug/L		60	34 - 140
Heptachlor epoxide	0.0250	0.0169		ug/L		68	37 - 142
Methoxychlor	0.0250	0.0223		ug/L		89	42 - 119

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*64*		*38 - 146*
DCB Decachlorobiphenyl (Surr)	*86*		*42 - 150*

Lab Sample ID: LCSD 180-279332/3-A
Matrix: Water
Analysis Batch: 279668

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 279332

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	0.0250	0.0207		ug/L		83	31 - 141	1	35
4,4'-DDE	0.0250	0.0194		ug/L		78	30 - 145	6	35
4,4'-DDT	0.0250	0.0192		ug/L		77	25 - 150	4	35
Aldrin	0.0250	0.0167		ug/L		67	42 - 140	7	35
alpha-BHC	0.0250	0.0173		ug/L		69	37 - 140	9	35
cis-Chlordane	0.0250	0.0171		ug/L		68	45 - 140	1	35
beta-BHC	0.0250	0.0176		ug/L		70	17 - 147	9	35
delta-BHC	0.0250	0.0142		ug/L		57	19 - 140	9	35
Dieldrin	0.0250	0.0171		ug/L		68	36 - 146	2	35
Endosulfan, alpha	0.0250	0.0189		ug/L		75	45 - 150	5	28
Endosulfan, beta	0.0250	0.0207		ug/L		83	10 - 150	2	35
Endosulfan sulfate	0.0250	0.0177		ug/L		71	26 - 144	3	35
Endrin	0.0250	0.0185		ug/L		74	30 - 147	2	35
Endrin aldehyde	0.0250	0.0174		ug/L		70	56 - 125	13	35
Endrin ketone	0.0250	0.0185		ug/L		74	49 - 120	3	30
gamma-BHC (Lindane)	0.0250	0.0172		ug/L		69	32 - 140	2	35
trans-Chlordane	0.0250	0.0170		ug/L		68	45 - 140	1	35
Heptachlor	0.0250	0.0171		ug/L		68	34 - 140	12	35
Heptachlor epoxide	0.0250	0.0175		ug/L		70	37 - 142	3	26
Methoxychlor	0.0250	0.0212		ug/L		85	42 - 119	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*68*		*38 - 146*
DCB Decachlorobiphenyl (Surr)	*78*		*42 - 150*

Client: City of Laredo
Project/Site: Table II & III -South Laredo 5/16/19

Job ID: 560-79907-1

Method: EPA 8141B - Organophosphorous Pesticides (GC)

Lab Sample ID: MB 180-279328/1-A
Matrix: Water
Analysis Batch: 279371

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 279328

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Guthion	<0.051		0.20	0.051	ug/L		05/21/19 10:45	05/22/19 06:32	1
Chlorpyrifos	<0.045		0.20	0.045	ug/L		05/21/19 10:45	05/22/19 06:32	1
Demeton	<0.032		0.40	0.032	ug/L		05/21/19 10:45	05/22/19 06:32	1
Diazinon	<0.036		0.20	0.036	ug/L		05/21/19 10:45	05/22/19 06:32	1
Parathion	<0.039		0.20	0.039	ug/L		05/21/19 10:45	05/22/19 06:32	1
Malathion	<0.043		0.20	0.043	ug/L		05/21/19 10:45	05/22/19 06:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Triphenylphosphate	*95*		*69 - 130*	*05/21/19 10:45*	*05/22/19 06:32*	*1*

Lab Sample ID: LCS 180-279328/2-A
Matrix: Water
Analysis Batch: 279371

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 279328

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Guthion	2.00	2.10		ug/L		105	56 - 142
Chlorpyrifos	2.00	2.34		ug/L		117	82 - 134
Demeton	2.00	2.81		ug/L		140	10 - 150
Diazinon	2.00	2.18		ug/L		109	58 - 150
Parathion	2.00	2.05		ug/L		103	79 - 118
Malathion	2.00	2.25		ug/L		113	81 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Triphenylphosphate	*96*		*69 - 130*

Lab Sample ID: LCSD 180-279328/3-A
Matrix: Water
Analysis Batch: 279371

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 279328

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Guthion	2.00	2.20		ug/L		110	56 - 142	5	15
Chlorpyrifos	2.00	2.37		ug/L		119	82 - 134	1	15
Demeton	2.00	2.42		ug/L		121	10 - 150	15	28
Diazinon	2.00	2.22		ug/L		111	58 - 150	2	34
Parathion	2.00	2.09		ug/L		104	79 - 118	2	15
Malathion	2.00	2.27		ug/L		113	81 - 123	1	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Triphenylphosphate	*96*		*69 - 130*

Method: 8321A - Hexachlorphene (LC/MS)

Lab Sample ID: MB 280-459027/12
Matrix: Water
Analysis Batch: 459027

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorophene	<0.0049		0.30	0.0049	ug/L			05/22/19 11:39	1

Method: 8321A - Hexachlorphene (LC/MS)

Lab Sample ID: LCS 280-459027/13
Matrix: Water
Analysis Batch: 459027

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorophene	0.496	0.483		ug/L		97	74 - 142

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 240-382159/1-A
Matrix: Water
Analysis Batch: 382540

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 382159

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00014		0.00050	0.00014	ug/L		05/20/19 14:30	05/21/19 16:24	1

Lab Sample ID: LCS 240-382159/2-A
Matrix: Water
Analysis Batch: 382540

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 382159

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00500	0.00513		ug/L		103	77 - 123

Method: EPA 200.8 Rev 5 - Metals (ICP/MS)

Lab Sample ID: MB 180-279350/1-A
Matrix: Water
Analysis Batch: 279515

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 279350

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.22		1.0	0.22	ug/L		05/21/19 14:47	05/22/19 19:21	1
Arsenic	<0.17		1.0	0.17	ug/L		05/21/19 14:47	05/22/19 19:21	1
Beryllium	<0.087		1.0	0.087	ug/L		05/21/19 14:47	05/22/19 19:21	1
Chromium	<0.58		2.0	0.58	ug/L		05/21/19 14:47	05/22/19 19:21	1
Copper	<0.99		2.0	0.99	ug/L		05/21/19 14:47	05/22/19 19:21	1
Nickel	<0.46		1.0	0.46	ug/L		05/21/19 14:47	05/22/19 19:21	1
Lead	<0.16		1.0	0.16	ug/L		05/21/19 14:47	05/22/19 19:21	1
Antimony	<0.35		2.0	0.35	ug/L		05/21/19 14:47	05/22/19 19:21	1
Selenium	<0.81		5.0	0.81	ug/L		05/21/19 14:47	05/22/19 19:21	1
Thallium	<0.12		1.0	0.12	ug/L		05/21/19 14:47	05/22/19 19:21	1
Zinc	<2.2		5.0	2.2	ug/L		05/21/19 14:47	05/22/19 19:21	1
Aluminum	<12		30	12	ug/L		05/21/19 14:47	05/22/19 19:21	1
Barium	<1.2		10	1.2	ug/L		05/21/19 14:47	05/22/19 19:21	1
Cadmium	<0.21		1.0	0.21	ug/L		05/21/19 14:47	05/22/19 19:21	1

Lab Sample ID: LCS 180-279350/2-A
Matrix: Water
Analysis Batch: 279515

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 279350

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	250	252		ug/L		101	85 - 115
Arsenic	1000	901		ug/L		90	85 - 115
Beryllium	500	515		ug/L		103	85 - 115
Chromium	500	550		ug/L		110	85 - 115
Copper	500	469		ug/L		94	85 - 115

Method: EPA 200.8 Rev 5 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 180-279350/2-A
Matrix: Water
Analysis Batch: 279515

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 279350

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nickel	500	477		ug/L		95	85 - 115
Lead	500	496		ug/L		99	85 - 115
Antimony	250	272		ug/L		109	85 - 115
Selenium	1000	1060		ug/L		106	85 - 115
Thallium	1000	968		ug/L		97	85 - 115
Zinc	250	236		ug/L		94	85 - 115
Aluminum	5000	5110		ug/L		102	85 - 115
Barium	1000	1030		ug/L		103	85 - 115
Cadmium	500	531		ug/L		106	85 - 115

Lab Sample ID: 560-79907-2 MS
Matrix: Water
Analysis Batch: 279515

Client Sample ID: South Laredo Effluent
Prep Type: Total Recoverable
Prep Batch: 279350

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	<0.22		250	251		ug/L		101	70 - 130
Arsenic	0.70	J	1000	972		ug/L		97	70 - 130
Beryllium	<0.087		500	502		ug/L		100	70 - 130
Chromium	<0.58		500	538		ug/L		108	70 - 130
Copper	2.5		500	481		ug/L		96	70 - 130
Nickel	2.4		500	479		ug/L		95	70 - 130
Lead	0.30	J	500	515		ug/L		103	70 - 130
Antimony	0.92	J	250	286		ug/L		114	70 - 130
Selenium	<0.81		1000	1050		ug/L		105	70 - 130
Thallium	<0.12		1000	996		ug/L		100	70 - 130
Zinc	58		250	303		ug/L		98	70 - 130
Aluminum	18	J	5000	5150		ug/L		103	70 - 130
Barium	73		1000	1140		ug/L		107	70 - 130
Cadmium	<0.21		500	536		ug/L		107	70 - 130

Lab Sample ID: 560-79907-2 MSD
Matrix: Water
Analysis Batch: 279515

Client Sample ID: South Laredo Effluent
Prep Type: Total Recoverable
Prep Batch: 279350

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	<0.22		250	253		ug/L		101	70 - 130	1	20
Arsenic	0.70	J	1000	973		ug/L		97	70 - 130	0	20
Beryllium	<0.087		500	501		ug/L		100	70 - 130	0	20
Chromium	<0.58		500	529		ug/L		106	70 - 130	2	20
Copper	2.5		500	474		ug/L		94	70 - 130	2	20
Nickel	2.4		500	473		ug/L		94	70 - 130	1	20
Lead	0.30	J	500	495		ug/L		99	70 - 130	4	20
Antimony	0.92	J	250	280		ug/L		111	70 - 130	2	20
Selenium	<0.81		1000	1050		ug/L		105	70 - 130	0	20
Thallium	<0.12		1000	969		ug/L		97	70 - 130	3	20
Zinc	58		250	298		ug/L		96	70 - 130	2	20
Aluminum	18	J	5000	5120		ug/L		102	70 - 130	1	20
Barium	73		1000	1110		ug/L		103	70 - 130	3	20
Cadmium	<0.21		500	525		ug/L		105	70 - 130	2	20

Accreditation/Certification Summary

Client: City of Laredo
Job ID: 560-79907-1
Project/Site: Table II & III -South Laredo 5/16/19

Laboratory: Eurofins TestAmerica, Corpus Christi

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
Texas	NELAP	6	T104704210-19-23	03-31-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
624		Water	1,3-Dichloropropylene
625	CWA_Prep_CLLE	Water	1,2-Diphenylhydrazine (as Azobenzene)
625	CWA_Prep_CLLE	Water	m & p - Cresol
625	CWA_Prep_CLLE	Water	Total Cresols, TCEQ Definition

Laboratory: Eurofins TestAmerica, Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2927	02-23-20
Connecticut	State Program	1	PH-0590	12-31-19
Florida	NELAP	4	E87225	06-30-19 *
Illinois	NELAP	5	200004	07-31-19 *
Iowa	State Program	7	421	06-01-21
Kansas	NELAP	7	E-10336	04-30-20
Kentucky (UST)	State Program	4	58	02-23-20
Kentucky (WW)	State Program	4	98016	12-31-19
Minnesota	NELAP	5	039-999-348	12-31-19 *
Minnesota (Petrofund)	State Program	1	3506	07-31-19 *
Nevada	State Program	9	OH00048	07-31-19
New Jersey	NELAP	2	OH001	06-30-19 *
New York	NELAP	2	10975	03-31-20
Ohio VAP	State Program	5	CL0024	06-05-21
Oregon	NELAP	10	4062	02-23-20
Pennsylvania	NELAP	3	68-00340	08-31-19 *
Texas	NELAP	6	T104704517-18-10	08-31-19 *
USDA	Federal		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-19 *
Washington	State Program	10	C971	01-12-20 *
West Virginia DEP	State Program	3	210	12-31-19

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: City of Laredo
Job ID: 560-79907-1
Project/Site: Table II & III -South Laredo 5/16/19

Laboratory: Eurofins TestAmerica, Denver

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
A2LA	DoD		2907.01	10-31-19
Alabama	State Program	4	40730	09-30-12 *
Alaska (UST)	State Program	10	UST-30	01-08-20
Arizona	State Program	9	AZ0713	12-20-19
Arkansas DEQ	State Program	6	88-0687	06-01-19 *
California	State Program	9	2513	01-08-20
Connecticut	State Program	1	PH-0686	09-30-20
Florida	NELAP	4	E87667	06-30-19
Georgia	State Program	4	N/A	01-08-20
Illinois	NELAP	5	200017	04-30-19 *
Iowa	State Program	7	370	12-01-20
Kansas	NELAP	7	E-10166	04-30-20
Louisiana	NELAP	6	02096	06-30-19
Maine	State Program	1	CO0002	03-03-21
Minnesota	NELAP	5	8-999-405	12-31-19
Nevada	State Program	9	CO0026	07-31-19
New Hampshire	NELAP	1	205310	04-28-20
New Jersey	NELAP	2	CO004	06-30-19
New York	NELAP	2	11964	04-01-20
North Carolina (WW/SW)	State Program	4	358	12-31-19
North Dakota	State Program	8	R-034	01-08-20
Oregon	NELAP	10	4025	01-08-20
Pennsylvania	NELAP	3	68-00664	07-31-19
South Carolina	State Program	4	72002001	01-08-20
Texas	NELAP	6	T104704183-18-15	09-30-19
US Fish & Wildlife	Federal			07-31-19
USDA	Federal			03-26-21
Utah	NELAP	8	CO00026	07-31-19
Virginia	NELAP	3	460232	06-14-19
Washington	State Program	10	C583	08-03-19
West Virginia DEP	State Program	3	354	11-30-19
Wisconsin	State Program	5	999615430	08-31-19 *
Wyoming (UST)	A2LA	8	2907.01	10-31-19

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: City of Laredo
Job ID: 560-79907-1
Project/Site: Table II & III -South Laredo 5/16/19

Laboratory: Eurofins TestAmerica, Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-19
California	State Program	9	2891	04-30-20
Connecticut	State Program	1	PH-0688	09-30-20
Florida	NELAP	4	E871008	06-30-19
Illinois	NELAP	5	200005	06-30-19
Kansas	NELAP	7	E-10350	01-31-20
Kentucky (DW)	Kentucky UST	4	162013	04-30-20
Louisiana	NELAP	6	04041	06-30-19
Nevada	State Program	9	PA00164	07-31-19
New Hampshire	NELAP	1	2030	04-04-20
New Jersey	NELAP	2	PA005	06-30-19
New York	NELAP	2	11182	03-31-20
North Carolina (WW/SW)	State Program	4	434	12-31-19
Oregon	NELAP	10	PA-2151	02-06-20
Pennsylvania	NELAP	3	02-00416	04-30-20
South Carolina	State Program	4	89014	04-30-20
Texas	NELAP	6	T104704528-15-2	03-31-20
US Fish & Wildlife	Federal		LE94312A-1	07-31-19
USDA	Federal		P330-16-00211	06-26-19
Utah	NELAP	8	PA001462015-4	05-31-19 *
Virginia	NELAP	3	460189	09-14-19
West Virginia DEP	State Program	3	142	01-31-20
Wisconsin	State Program	5	998027800	08-31-19

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: City of Laredo
Job ID: 560-79907-1
Project/Site: Table II & III -South Laredo 5/16/19

Method	Method Description	Protocol	Laboratory
624	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL CC
625	Semivolatile Organic Compounds (GC/MS)	40CFR136A	TAL CC
D7065-11	Determination of Nonylphenols	ASTM	TAL DEN
EPA 608	Organochlorine Pesticides/PCBs in Water	40CFR136A	TAL PIT
EPA 608	Polychlorinated Biphenyls (PCBs) (GC)	40CFR136A	TAL PIT
EPA 8141B	Organophosphorous Pesticides (GC)	SW846	TAL PIT
8321A	Hexachlorphene (LC/MS)	SW846	TAL DEN
1631E	Mercury, Low Level (CVAFS)	EPA	TAL CAN
EPA 200.8 Rev 5	Metals (ICP/MS)	EPA	TAL PIT
Subcontract	8321 - Carbaryl & Diuron (Ana-Lab)	None	
1631E	Preparation, Mercury, Low Level	EPA	TAL CAN
200.8	Preparation, Total Recoverable Metals	EPA	TAL PIT
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL PIT
608	Liquid-Liquid Extraction (Separatory Funnel)	40CFR136A	TAL PIT
CWA_Prep_CLLE	Liquid-Liquid Extraction (Continuous)	40CFR136A	TAL CC
D7065-11	Liquid-Liquid Extraction (Continuous)	ASTM	TAL DEN

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.
ASTM = ASTM International
EPA = US Environmental Protection Agency
None = None
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

= Kilgore, TX, PO BOX 9000, Kilgore, TX 75663-9000, TEL (903)984-0551
TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396
TAL CC = Eurofins TestAmerica, Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2673
TAL DEN = Eurofins TestAmerica, Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100
TAL PIT = Eurofins TestAmerica, Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Sample Summary

Client: City of Laredo
Job ID: 560-79907-1
Project/Site: Table II & III -South Laredo 5/16/19

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
560-79907-1	South Laredo Influent	Water	05/16/19 10:00	05/17/19 08:00	
560-79907-2	South Laredo Effluent	Water	05/16/19 10:00	05/17/19 08:00	
560-79907-3	Trip Blank	Water	05/16/19 00:00	05/17/19 08:00	

Ana-Lab Corp.
P.O. Box 9000
Kilgore, TX 75663
903/984-0551

LELAP-accredited #02008

Report

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Eurofins TestAmerica,Corpus Christi
Lindy Maingot
1733 N. Padre Island Drive
Corpus Christi, TX 78408

Account
TAML-G

Project
874603

56000544

This report consists of this Table of Contents and the following pages:

Report Name	Description	Pages
874603_r03_03_ProjectResults	Ana-Lab Project P:874603 C:TAML Project Results t:304 PO: 3037906	2
874603_r10_05_ProjectQC	Ana-Lab Project P:874603 C:TAML Project Quality Control Groups	1
874603_r99_09_CoC__1_of_1	Ana-Lab CoC TAML 874603_1_of_1	5
	Total Pages:	8

Ana-Lab Corp. P.O. Box 9000 Kilgore, TX 75663
Phone 903/984-0551 FAX 903/984-5914 e-Mail corp@ana-lab.com
Employee Owned Integrity Caring Continual Improvement

Results

Printed: 05/31/2019 13:13

874603

56000544

Account
TAML-G

Report To

Eurofins TestAmerica,Corpus Christi
Lindy Maingot
1733 N. Padre Island Drive
Corpus Christi, TX 78408

Results

1784812 **South Laredo Influent** 560-79907-1 *Received:* 05/18/2019

Non-Potable Water *Collected by:* Client Eurofins TestAmerica *PO:* 3037906
Taken: 05/16/2019 10:00:00

EPA 8321B *Prepared:* 839003 05/20/2019 07:00:00 *Analyzed* 839451 05/21/2019 18:32:00 BRU

	Parameter	Results	Units	RL	Flag	CAS	Bottle
N	**Carbaryl (Sevin)**	**<2.70**	**ug/L**	2.70		**63-25-2**	03
z	**Diuron**	**<0.0485**	**ug/L**	0.0485		**330-54-1**	03

1784813 **South Laredo Effluent** 560-79907-2 *Received:* 05/18/2019

Non-Potable Water *Collected by:* Client Eurofins TestAmerica *PO:* 3037906
Taken: 05/16/2019 10:00:00

EPA 8321B *Prepared:* 839003 05/20/2019 07:00:00 *Analyzed* 839451 05/21/2019 19:01:00 BRU

	Parameter	Results	Units	RL	Flag	CAS	Bottle
N	**Carbaryl (Sevin)**	**<2.69**	**ug/L**	2.69		**63-25-2**	03
z	**Diuron**	**<0.0484**	**ug/L**	0.0484		**330-54-1**	03

Sample Preparation

1784812 **South Laredo Influent** 560-79907-1 *Received:* 05/18/2019

3037906

EPA 3510C *Prepared:* 839003 05/20/2019 07:00:00 *Analyzed* 839003 05/20/2019 07:00:00 MCC

	Liquid-Liquid Extr. W/Hex Ex	**1/927**	**ml**				01

EPA 8321B *Prepared:* 839003 05/20/2019 07:00:00 *Analyzed* 839451 05/21/2019 18:32:00 BRU

N	**Carbaryl/Diuron**	**Entered**					03

Ana-Lab Corp. P.O. Box 9000 Kilgore, TX 75663
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Employee Owned Integrity Caring Continual Improvement

Results

Printed: 05/31/2019 13:13

874603

1784813	**South Laredo Effluent**	560-79907-2	*Received:*	05/18/2019
				3037906

EPA 3510C	*Prepared:*	*839003*	*05/20/2019*	*07:00:00*	*Analyzed*	*839003*	*05/20/2019*	*07:00:00*	*MCC*
Liquid-Liquid Extr. W/Hex Ex	**1/930**		**ml**						01
EPA 8321B	*Prepared:*	*839003*	*05/20/2019*	*07:00:00*	*Analyzed*	*839451*	*05/21/2019*	*19:01:00*	*BRU*
N **Carbaryl/Diuron**	**Entered**								03

Qualifiers:

We report results on an As Received or wet basis unless marked Dry Weight. Unless otherwise noted, testing was performed at Ana-labs corporate laboratory that holds the following Federal and State certificates: EPA Lab Number TX00063, US Department of Agriculture Soil Import Permit P330-17-00117, Texas Commission on Environmental Quality Commercial Drinking Water Lab Approval (Lab ID: TX219), Texas Commission on Environmental Quality NELAP T104704201-19-15, Louisiana Department of Environmental Quality Laboratory Certification (NELAP, LELAP) #02008, Louisiana Department of Health and Hospitals Drinking Water (NELAP) Certificate No LA026, Oklahoma Department of Environmental Quality TNI Laboratory Accreditation Program Certificate No. 2018-126, Arkansas Department of Environmental Quality Certification #18-068-0. The Accredited column designates accreditation by N -- NELAC, or z -- not covered under 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 Ana-Lab Corp. 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.

Trey Peery, MA, Project Manager

Ana-Lab Corp. P.O. Box 9000 Kilgore, TX 75663

Phone 903/984-0551 FAX 903/984-5914 e-Mail corp@ana-lab.com LELAP-accredited #02008

Employee Owned Integrity Caring Continual Improvement

Quality Control

Printed 05/31/2019

874603

Report To

Eurofins TestAmerica,Corpus Christi
Lindy Maingot
1733 N. Padre Island Drive
Corpus Christi, TX 78408

Account
TAML-G

Analytical Set **839451** **EPA 8321B**

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Carbaryl (Sevin)	839003	0.108	0.018	2.50	ug/L	119953825
Diuron	839003	0.045	0.0342	0.045	ug/L	119953825

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Carbaryl (Sevin)	1100	1000	ug/L	110	70.0 - 130	119953824
	1140	1000	ug/L	114	70.0 - 130	119953829
	1160	1000	ug/L	116	70.0 - 130	119953833
	1170	1000	ug/L	117	70.0 - 130	119953836
	1210	1000	ug/L	121	70.0 - 130	119953837
	1220	1000	ug/L	122	70.0 - 130	119953838
	1120	1000	ug/L	112	70.0 - 130	119953839
Diuron	1120	1000	ug/L	112	70.0 - 130	119953824
	1130	1000	ug/L	113	70.0 - 130	119953829
	1150	1000	ug/L	115	70.0 - 130	119953833
	1160	1000	ug/L	116	70.0 - 130	119953836
	1190	1000	ug/L	119	70.0 - 130	119953837
	1200	1000	ug/L	120	70.0 - 130	119953838
	1100	1000	ug/L	110	70.0 - 130	119953839

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
Carbaryl (Sevin)	839003	0.880	0.814	1.00	44.0 - 131	88.0	81.4	ug/L	7.79	30.0
Diuron	839003	0.866	0.788	1.00	0.100 - 187	86.6	78.8	ug/L	9.43	30.0

* Out RPD is Relative Percent Difference: abs(r1-r2) / mean(r1,r2) * 100% Recover% is Recovery Percent: result / known * 100%

Blank - Method Blank; CCV - Continuing Calibration Verification

Eurofins TestAmerica, Corpus Christi
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone (361) 289-2673 Fax (361) 289-2471

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Maingot, Lindy	Carrier Tracking No(s):	COC No: 560-19135.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: lindy.maingot@testamericainc.com	State of Origin: Texas	Page: Page 1 of 1
Company: Ana-Lab Corporation		Accreditations Required (See note): NELAP - Texas		Job #: 560-79907-1
Address: PO BOX 9000, ,	Due Date Requested: 5/28/2019			
City: Kilgore	TAT Requested (days):			
State, Zip: TX, 75663-9000				
Phone: 903-984-0551(Tel)	PO #:			
Email:	WO #:			
Project Name: Table II & III -South Laredo 5/16/19	Project #: 56000544			
Site: City of Laredo	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (8321 - Carbaryl & Diuron (Ana-Lab)) / 8321 - Carbaryl & Diuron (Ana-Lab)	Total Number of containers	Special Instructions/Note:
			Preservation Code						
South Laredo Influent (560-79907-1)	5/16/19	10:00 Central		Water			X	2	TX Cert for Carbaryl & Diuron 8321 Can meet clients' MALs
South Laredo Effluent (560-79907-2)	5/16/19	10:00 Central		Water			X	2	TX Cert for Carbaryl & Diuron 8321 Can meet clients' MALs

1784812
813

See Attached for Tracking # and Temp

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:				
Relinquished by:	Date/Time: 5-17-19 1700	Company	Received by: FedEx	Date/Time:	Company
Relinquished by: FedEx	Date/Time: 5/18/19 1100	Company	Received by:	Date/Time: 5/18/19 1100	Company
Relinquished by:	Date/Time:	Company	Received by: Kathy Tarver Ana-Lab	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

eurofins | Environment Testing TestAmerica

Shipping Order Form

S560-29204

Eurofins TestAmerica, Corpus Christi
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone (361) 289-2673 Fax (361) 289-2471

Shipping Order ID: 29204 | **Ship Via: FedEx** | **Due On: 5/17/2019 11:59:00PM**

Ship To Information
Project Manager:

Company Name:	*Ana-Lab Corporation*
Attention:	*Attn: Shipping/Receiving*
Address 1:	*PO BOX 9000*
Address 2:	
Address 3:	
City:	*City: Kilgore*
State:	*TX*
Zip:	*75663-9000*
Phone #:	*903-984-0551*
Project Ref:	

Notes to Bottle/Shipping Department

Shipping Method: **Standard packing**

- ☐ Ready to Fill
- ☐ Preprinted COC
  - ☐ Number of COC Copies
- ☐ Seals on Bottle
- ☐ Seals on Coolers
- ☐ Return Shipment Labels
  - ☐ Prepaid Return
  - Eurofins TestAmerica, Corpus Christi
- ☐ Short Hold Times
- ☑ Temperature Control
- ☐ Rush

Please notify your PM immediately if an error is found in shipment.
Go to http://www.testamericainc.com/customer-support/specialized-instructions-for-field-samplers/ for field sampler instructions.

Bottle Order Information

Bottle Order:
Bottle Order #:
Request From Client: 5/17/2019
Date Order Posted:
Order Status: Ready To Process
Prepared By:
Deliver By Date: ***5/17/2019 11:59:00PM***
Lab Project Number:

Order Completion Information

Creator: Ashley Viveros
Filled by:
Sent Date:
Sent Via:
Tracking #:

Sets	Bottles/Set	Qty	Bottle Type Description	Preservative	Method	Matrix	Sample Type	Comments	Lot #

Notes to Field Staff:

Scan QR code for field sampler instructions

Health and Safety Notes:

Preservative	Comment

Relinquished By	Company	Date	Time	Received By	Company	Seal #: Seal #: Seal #:
Relinquished By	Company	Date	Time	Received By	Company	Seal #: Seal #: Seal #:

Please notify your PM immediately if an error is found in shipment.
Go to http://www.testamericainc.com/customer-support/specialized-instructions-for-field-samplers/ for field sampler instructions.

4 of 5

874603 CoC Print Group 001 of 001

ORIGIN ID:CRPA (361) 289-2673
SAMPLE RECEIVING
TESTAMERICA
1733 N. PADRE ISLAND DR.

CORPUS CHRISTI, TX 78408
UNITED STATES US

SHIP DATE: 17MAY19
ACTWGT: 50.00 LB MAN
CAD: 0282075/CAFE3211

BILL SENDER

TO ATTN: SHIPPING/RECEIVING
ANA-LAB CORPORATION
PO BOX 9000

KILGORE TX 756639000
(903) 984-0551 REF:

INV: PO: DEPT:

FedEx Express

2 of 2
MPS# 0263 4866 7336 1189
Mstr# 4866 7336 1178 0201

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO GGGA

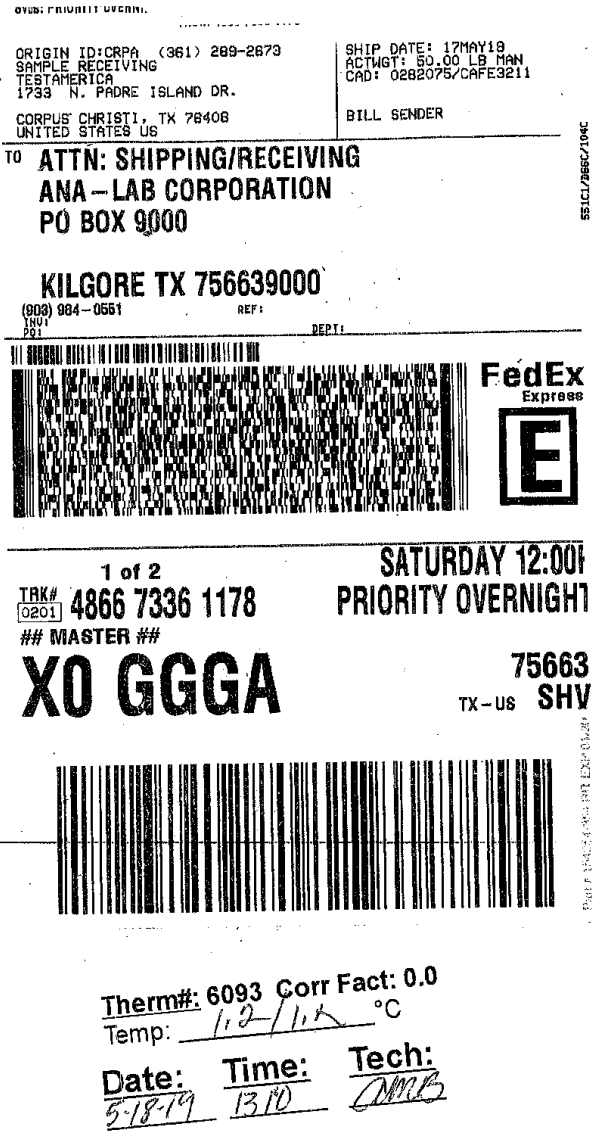
75663
TX-US SHV

Therm#: 6093 Corr Fact: 0.0
Temp: 0.5/0.5 °C

Date: 5-18-19 Time: 1317 Tech:

5 of 5

874603 CoC Print Group 001 of 001



0705: PRIORITY OVERNI

ORIGIN ID:CRPA (361) 289-2673
SAMPLE RECEIVING
TESTAMERICA
1733 N. PADRE ISLAND DR.

CORPUS CHRISTI, TX 78408
UNITED STATES US

SHIP DATE: 17MAY19
ACTWGT: 50.00 LB MAN
CAD: 0282075/CAFE3211

BILL SENDER

TO ATTN: SHIPPING/RECEIVING
ANA-LAB CORPORATION
PO BOX 9000

KILGORE TX 756639000

(903) 984-0551
INV:
PO:
REF:
DEPT:

551CL/2666/104C

FedEx Express

1 of 2
TRK# 0201 4866 7336 1178
MASTER
XO GGGA

SATURDAY 12:00I
PRIORITY OVERNIGHT

75663
TX-US SHV

Therm#: 6093 Corr Fact: 0.0
Temp: 1.0 / 1.1 °C

Date: 5-18-19 Time: 1310 Tech:

TestAmerica Corpus Christi
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone (361) 289-2673 Fax (361) 289-2471

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Loc: 560
79907

Client Information	Sampler: Plant operator	Lab PM: Boyken, Nicole M	Carrier Tracking No(s):	COC No: 560-26020-2722.1
Client Contact: ~~Angel Leon~~ Erica Solis	Phone: (956) 721-2000	E-Mail: nicole.boyken@testamericainc.com		Page: Page __ of __
Company: City of Laredo				Job #: 79907

Address: 5816 Daugherty Avenue	Due Date Requested:	Analysis Requested
City: Laredo	TAT Requested (days):	
State, Zip: TX, 78041		
Phone: 956-721-2022(Tel) 956-721-2001(Fax)	PO #: 289759	
Email: ~~aleon@ci.laredo.tx.us~~ esolis@ci.laredo.tx.us	WO #:	
Project Name: Table II & III	Project #: 56000544	
Site: Texas	SSOW#:	

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	200.8 - Al,BaSb,As,Be,Cd,Cr,Cu,Pb,Ni,Se,Ag,Th,Zn (PITTSBURGH), 7196A - Trivalent Chromium Calculation	420.4 - Total Phenols (HOUSTON)	335.4_NP - Total Cyanide (HOUSTON)	625 - SVOCs, Table II & III List	8151A - 2,4-D & Silvex (HOUSTON)	608_Pest - Dicofol (HOUSTON)	624_5ml - VOCs, Table II & III List	608_PCB - PCBs (PITTSBURGH), 608 - OC Pesticides (PITTSBURGH), 8141B_LL - OP Cmpds (PITTSBURGH)	1631E - Low Level Mercury (CANTON)	D7065_11 - Nonylphenol (DENVER)	300 - Nitrate** & Fluoride, 7196A - Hexavalent Chromium**	SUBCONTRACT - 8321 - Carbonyl & Diuron (Ana-Lab)	8321A_Hex - Hexachlorphene (DENVER)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	S	B	N	N	N	A	N	N	S	N	N	N		
South Laredo Influent	5-16-19	1000	C	W			X	X	X	X	X	X	X	X	X	X	N/A	X	X	3	**Short HT, Direct ship to Houston, will be logged under separate job**
South Laredo Effluent	5-16-19	1000	C	W			X	X	X	X	X	X	X	X	X	X		X	X	3	Vials collected at: Influent: 5-15-19 = 1730 5-16-19 = 0200 5-16-19 = 1000 Effluent: 5-15-19 = 1730 5-16-19 = 0200 5-16-19 = 1000

560-79907 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Juan Carlos · Juan Carlos	5-16-19 · See our bill	City of Laredo		05/17/19 0800	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		0.4/0.6 PL · 5.0/4.9 AG · 5.6/5.5 AG · 3.3/3.2 AG · 4.1/4.0 AG

Ver: 08/04/2016

Eurofins TestAmerica, Corpus Christi
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone (361) 289-2673 Fax (361) 289-2471

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Maingot, Lindy	Carrier Tracking No(s):	COC No: 560-19134.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: lindy.maingot@testamericainc.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 560-79907-1
Address: 301 Alpha Drive, RIDC Park,	Due Date Requested: 5/28/2019			
City: Pittsburgh	TAT Requested (days):			
State, Zip: PA, 15238				
Phone: 412-963-7058(Tel) 412-963-2468(Fax)	PO #:			
Email:	WO #:			
Project Name: Table II & III -South Laredo 5/16/19	Project #: 56000544			
Site: City of Laredo	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	200.8/200.8_P_TR Al,BaSb,As,Be,Cd,Cr,Cu,Pb,Ni,Se,Ag,Th,Zn	8141B_LL/3510C_LL OP Cmpds, Table II & III List (PITTSBURG	608/608_Prep (MOD) OC Pest, Table II & III List (PITT	608_PCB/608_Prep_PCB PCBs (PITTSBURGH)	Total Number of containers	Special
				Preservation Code:								
South Laredo Influent (560-79907-1)	5/16/19	10:00 Central		Water			X	X	X	X	7	
South Laredo Effluent (560-79907-2)	5/16/19	10:00 Central		Water			X	X	X	X	7	

560-79907 Chain of Custody

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		5-17-19 1700		J Watson	5-18-19 1000	TAP
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Eurofins TestAmerica, Corpus Christi
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone (361) 289-2673 Fax (361) 289-2471

16.0/15.8

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Maingot, Lindy	Carrier Tracking No(s):	COC No: 560-19128.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: lindy.maingot@testamericainc.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 560-79907-1
Address: 4101 Shuffel Street NW,	Due Date Requested: 5/29/2019			
City: North Canton	TAT Requested (days):			
State, Zip: OH, 44720				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #:			
Email:	WO #:			
Project Name: Table II & III -South Laredo 5/16/19	Project #: 56000544			
Site: City of Laredo	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1631E/1631E_Prep Low Level Mercury (CANTON)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
South Laredo Influent (560-79907-1)	5/16/19	10:00 Central		Water			X	2	price includes field blank
South Laredo Effluent (560-79907-2)	5/16/19	10:00 Central		Water			X	2	price includes field blank

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time	Company		Date/Time	Company
Relinquished by:	5-17-19 1700		Received by:	5-18-19 1015	ETAC
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

TestAmerica Canton Sample Receipt Form/Narrative **Login # :** _____
Canton Facility

Client EIA Corpus Christi Site Name _____ Cooler unpacked by: MM

Cooler Received on 5-18-19 Opened on 5-18-19

FedEx: 1st Grd (Exp) UPS FAS Clipper Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # 7A Foam Box Client Cooler Box Other _____

Packing material used: ~~Bubble Wrap~~ Foam ~~Plastic Bag~~ None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water (None)

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form
   IR GUN# IR-8 (CF **-0.2** °C) Observed Cooler Temp. 16.0 °C Corrected Cooler Temp. 15.8 °C
   IR GUN #36 (CF **+0.7**°C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity_____	Yes (No)	
-Were the seals on the outside of the cooler(s) signed & dated?	Yes No (NA)	
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes (No)	
-Were tamper/custody seals intact and uncompromised?	(Yes) No NA	
3. Shippers' packing slip attached to the cooler(s)?	(Yes) No	
4. Did custody papers accompany the sample(s)?	(Yes) No	
5. Were the custody papers relinquished & signed in the appropriate place?	(Yes) No	
6. Was/were the person(s) who collected the samples clearly identified on the COC?	Yes (No)	
7. Did all bottles arrive in good condition (Unbroken)?	(Yes) No	
8. Could all bottle labels be reconciled with the COC?	(Yes) No	
9. Were correct bottle(s) used for the test(s) indicated?	(Yes) No	
10. Sufficient quantity received to perform indicated analyses?	(Yes) No	
11. Are these work share samples?	(Yes) No	
If yes, Questions 12-16 have been checked at the originating laboratory.		
12. Were all preserved sample(s) at the correct pH upon receipt?	Yes No NA	pH Strip Lot# **HC984738**
13. Were VOAs on the COC?	Yes No	
14. Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this.	Yes No NA	
15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #_____	Yes No	
16. Was a LL Hg or Me Hg trip blank present? _____	Yes No	

Tests that are not checked for pH by Receiving:

VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Samples processed by:

18. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

19. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s): _____

VOA Sample Preservation - Date/Time VOAs Frozen: _____

Eurofins TestAmerica, Corpus Christi
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone (361) 289-2673 Fax (361) 289-2471

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Maingot, Lindy	Carrier Tracking No(s):	COC No: 560-19130.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: lindy.maingot@testamericainc.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 560-79907-1
Address: 6310 Rothway Street,	Due Date Requested: 5/29/2019			
City: Houston	TAT Requested (days):			
State, Zip: TX, 77040				
Phone: 713-690-4444(Tel) 713-690-5646(Fax)	PO #:			
Email:	WO #:			
Project Name: Table II & III -South Laredo 5/16/19	Project #: 56000544			
Site: City of Laredo	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	420.4/Distill_Phenol Phenols (HOUSTON)	335.4/Distill_CN Cyanide (HOUSTON)	7196A_CR3	8151A/8151A_AP 2,4-D & Silvex (HOUSTON)	608_Pest/608_Prep (MOD) Dicofol	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
South Laredo Influent (560-79907-1)	5/16/19	10:00 Central		Water			X	X	X	X	X	6	
South Laredo Effluent (560-79907-2)	5/16/19	10:00 Central		Water			X	X	X	X	X	6	

560-79907 Chain of Custody

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	5-17-19 1700			5/20/19 911	TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks

Ver: 01/16/2019

TestAmerica Houston

Loc: 560
79907

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Receipt Checklist

Date/Time Received: '19 MAY 20 9:11

JOB NUMBER: _____ CLIENT: TA-CORPUS

UNPACKED BY: [signature] CARRIER/DRIVER: Fedex Std.

Custody Seal Present: ☐ YES ☑ NO Number of Coolers Received: 1

Cooler ID	Temp Blank	Trip Blank	Observed Temp (°C)	Therm ID	Them CF	Corrected Temp (°C)
RW	Y / (N)	Y / (N)	1.4	0406	-0.2	1.2
GW	Y / N	Y / N	18.2	1	1	18.0
GW	Y / N	Y / N	17.3	1	1	17.1
BW	Y / N	Y / N	18.8	1	1	18.6
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				

[signature] 5/21/19

CF = correction factor

Samples received on ice? ☐ YES ☑ NO

LABORATORY PRESERVATION OF SAMPLES REQUIRED: ☑ NO ☐ YES

Base samples are>pH 12: ☐ YES ☐ NO Acid preserved are<pH 2: ☐ YES ☐ NO

pH paper Lot #_____

VOA headspace acceptable (5-6mm): ☐ YES ☐ NO ☑ NA

	YES	NO
Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?		✓

COMMENTS:

3 coolers out of temp: ice melted in temp cooler / containers have blue dots on lids.

[signature] 5/21/19

560-79907 W aybill


4 of 4
MPS# 0263 4866 7336 1031
Mstr# 4866 7336 1009
0201
B5 LKSA
MON – 20 MAY 10:30A
PRIORITY OVERNIGHT
77040
TX–US IAH


2 of 4
MPS# 0263 4866 7336 1010
Mstr# 4866 7336 1009
0201
B5 LKSA
MON – 20 MAY 10:30A
PRIORITY OVERNIGHT
77040
TX–US IAH

Login Sample Receipt Checklist

Client: City of Laredo

Job Number: 560-79907-1

Login Number: 79907

List Source: Eurofins TestAmerica, Corpus Christi

List Number: 1

Creator: Scott, Kohen 1

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

Login Sample Receipt Checklist

Client: City of Laredo

Job Number: 560-79907-1

Login Number: 79907
List Number: 5
Creator: Zimmerman, Steven M

List Source: Eurofins TestAmerica, Denver
List Creation: 05/21/19 08:03 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	False	
COC is filled out in ink and legible.	N/A	
COC is filled out with all pertinent information.	N/A	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: City of Laredo

Job Number: 560-79907-1

Login Number: 79907
List Number: 2
Creator: Watson, Debbie

List Source: Eurofins TestAmerica, Pittsburgh
List Creation: 05/18/19 11:05 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

CITY OF LAREDO UTILITIES LABORATORY FIELD ANALYSIS WORKSHEET
SOUTHSIDE WWTF

DATE (Sampling & Analysis): 1-31-20

pH ANALYSIS (Standard Methods (4500-H+pH Value)

pH SAMPLE INFORMATION			
Sample Identification	Sampling Point	Sample Collection Time	Sampled By
Final Effluent	at end of CL_2 Chamber	07:40	Darrion Moreno

pH ANALYSIS INFORMATION					pH Result (SU) 7.04
Analysis Time	1st Reading Sample		2nd Reading Sample		Analyzed By
	Temp. C°	pH (SU)	Temp. C°	pH (SU)	
07:43	23.0	7.04	23.0	7.04	Darrion Moreno

pH METER INFORMATION		
ID #	Brand	Model #
pH-16	Orion	Star A111

pH METER CALIBRATION INFORMATION								
Time	Buffer 4		Buffer 7		Buffer 10		% Slope	Calibrated By
	Temp. (C°)	Cal Point (SU)	Temp. (C°)	Cal Point (SU)	Temp. (C°)	Cal Point (SU)		
07:43	20.1	4.00	20.1	7.01	20.1	10.06	98.3	Darrion Moreno.
	Expiration Date Sep-21		Expiration Date Apr. 21		Expiration Date Sep. 21			

TOTAL CHLORINE RESIDUAL ANALYSIS (Standard Methods (4500-Cl F. DPD Ferrous Titrimetric Method)

TOTAL CHLORINE RESIDUAL SAMPLE INFORMATION			
Sample Identification	Sampling Point	Sample Collection Time	Sampled By
Final Effluent	at end of CL_2 Chamber	7:44	Darrion Moreno

CHEMICAL INFORMATION		
Ferrous Ammonium Sulfate 0.0028N	Expiration Date:	April 2020
DPD Indicator	Date Made:	1-29-2020
Phosphate Buffer	Expiration Date:	October 2020
Potassium Iodide 20%	Date Made:	1-29-2020
KMnO4 Stock Solution	Date Made:	1-29-2020
Sodium Arsenite 0.5%	Expiration Date:	February 2020

FAS ~~0.0028~~ Normality Check Date: 1-30-20
.00290

TOTAL CHLORINE RESIDUAL TITRATION ANALYSIS INFORMATION							Total Chlorine Residual Result (mg/L) 2.21
Analysis Time	(N) FAS Normality	(a) Blank Titration (mls)	(b) KMnO4 Standard 2ppm Titration (mls)	(c) Sample Titration (mls)	(d) Sample Duplicate Titration (mls)	(e) Manganese Correction Titration (mls)	Analyzed By
0745	.00290	0 - .05 = -.05	1.70 - .05 = 1.65	4.0 - 1.70 = 2.30	6.40 - 4.0 = 2.40	6.5 - 6.4 = .10	Rafael Castaneda

Results Calculations (if applicable corrected for blank, manganese & normality)	
Final Effluent Total Chlorine Residual = 2.261 mg/L	KMnO4 (2ppm) Standard = 1.70 mg/L

DISSOLVED OXYGEN ANALYSIS (Standard Methods (4500-OG. Membrane Electrode Method)

DISSOLVED OXYGEN SAMPLE INFORMATION			
Sample Identification	Sampling Point (in situ)	Sample Collection Time	Sampled By
Final Effluent	at end of CL_2 Chamber	N / A	N / A

DISSOLVED OXYGEN ANALYSIS INFORMATION			DO Result (mg/L) 5.91
Analysis Time	in situ Meter Reading		Analyzed By
	Temp. C°	DO (mg/L)	
0745	23.4	5.91	Darrion Moreno.

DO METER INFORMATION		
ID #	Brand	Model #
DO-025	YSI	Pro 20

DISSOLVED OXYGEN METER CALIBRATION INFORMATION							
Time	Initial Reading mg/L	Calibration Temp C°	Altitude 5 = 500 ft	Altitude Correction Factor	Salinity (PPT)	Calibrated Reading mg/L	Calibrated By
0735	9.10	19.3			0	9.15	Darrion Moreno.

Probe Standardization To Winkler Method Date: 1/24-2020 ±% Deviation: 1.26 % By: T. Perez / C Scruggs

CITY OF LAREDO HEALTH DEPARTMENT
Laboratory - Environmental Division
2600 Cedar St.
Laredo, TX 78040
TCEQ ID: T 10474638 - 08 TX

Phone: (956) 795 - 4908 x 4693 **Fax:** (956) 795 - 2188

Chain of Custody # 20203101

Quanti-tray *E.coli* and Chain of Custody Form
EL02 APPENDIX DD

CLIENT NAME: City of Laredo
ADDRESS: Springfield & Aldama St
CITY/STATE/ZIP CODE: Laredo, TX 78041
CONTACT:
COUNTY: Webb
SAMPLE TYPE: Grab
PHONE: 956-795-2720
FAX: 956-795-2723

Circle One: Water Source / Effluent
Facility Name: **Southside Wastewater Treatment Facility**
Facility ID #: **TPDES EPA ID# TX 0085316**

Sample ID:	Sampling Point	Disinfection Type	Chlorine Residual	Test Requested	Total Coliform Results (MPN/100mL)	E. Coli Results (MPN/100mL)
Final Effluent	End of chlorine contact chamber	Chlorine	2.3	IDEXX Laboratories Colilert	NA	<1.0
				E.coli (enumeration)		
Sampled by:	Rafael Castaneda	Date: 1-31-20	Time: 750	Received by: Roxy Cardenas	Date: 013120	Time: 0740
Relinquished by:	Roxy Cardenas	Date: 013120	Time: 0825	Received by: Lab: Castro	Date: 1/31/20	Time: 8:29

Laboratory:

Sample Arrival Condition: Iced
Sample Arrival Volume: 100 ml
Sample arrival temp. observed/ corrected: 5.5 / 5.5
Sample Accepted: _____
Sample Rejected: _____
Chlorine Residual : 0.00
Cl Strip Lot # & Exp. Date: 9085 1/2022
Date & Time Analysis Started: 1/31/20 @ 9:10 AM
Date & Time Analysis Finished: 2/1/20 @ 9:10
Date & Time Results Reported to: 2/1/20 @ 9:10 AM
Reported By: Raul Soto

The test results on this report meets all NELAC requirements: **Acceptable:** ✓ **Not Acceptable:** _____

Laboratory Contact: Ms. Rebeca I. Castro, Technical Director - (956) 795 - 4908 x 4693

Remarks / Lab ID #: 394663

Unsuitable Sx Analysis	1) Sx. Exceeds 6 hrs Holding Time ☐	3) Excessive chlorine Residual (> 10 mg/L) ☐	5) Form Incomplete, not Filled accordingly/Date Discrepancy ☐
Rejection Criteria	2) Insufficient Sx Volume (100 ml) ☐	4) Heavy Turbidity Present / Excessive Material ☐	6) Other: ☐

Rev: #2-9/28/12 ; #3-2/6/19; #4-11/19/19; Effective: 11/19/19

ATTACHMENT H

Biomonitoring Results
Wksht 5.0, Section 1 and 3

ATTACHMENT H
CITY OF LAREDO
SOUTH LAREDO WASTEWATER TREATMENT FACILITY
TPDES PERMIT RENEWAL APPLICATION

BIOMONITORING RESULTS
48-HOUR ACUTE

Test Initiation Date	Test Species	NOEC Lethal
5/13/2015	*Daphnia pulex*	41%
5/13/2015	*Pimephales promelas*	41%
7/22/2015	*Daphnia pulex*	41%
7/22/2015	*Pimephales promelas*	41%
11/17/2015	*Daphnia pulex*	41%
11/17/2015	*Pimephales promelas*	41%
1/27/2016	*Daphnia pulex*	41%
1/27/2016	*Pimephales promelas*	41%
4/27/2016	*Daphnia pulex*	41%
4/27/2016	*Pimephales promelas*	41%
7/27/2016	*Daphnia pulex*	41%
7/27/2016	*Pimephales promelas*	41%
11/2/2016	*Daphnia pulex*	41%
11/2/2016	*Pimephales promelas*	41%
2/22/2017	*Daphnia pulex*	41%
2/22/2017	*Pimephales promelas*	41%
4/26/2017	*Daphnia pulex*	41%
4/26/2017	*Pimephales promelas*	41%
7/19/2017	*Daphnia pulex*	41%
7/19/2017	*Pimephales promelas*	41%
12/7/2017	*Daphnia pulex*	41%
12/7/2017	*Pimephales promelas*	41%
1/31/2018	*Daphnia pulex*	41%
1/31/2018	*Pimephales promelas*	41%
4/19/2018	*Daphnia pulex*	41%
4/19/2018	*Pimephales promelas*	41%
7/19/2018	*Daphnia pulex*	43%
7/19/2018	*Pimephales promelas*	43%
10/17/2018	*Daphnia pulex*	43%
10/17/2018	*Pimephales promelas*	43%
2/14/2019	*Daphnia pulex*	43%
2/14/2019	*Pimephales promelas*	43%
4/26/2019	*Daphnia pulex*	43%
4/26/2019	*Pimephales promelas*	43%
8/8/2019	*Daphnia pulex*	43%
8/8/2019	*Pimephales promelas*	43%
10/31/2019	*Daphnia pulex*	43%
10/31/2019	*Pimephales promelas*	43%

ATTACHMENT H
CITY OF LAREDO
SOUTH LAREDO WASTEWATER TREATMENT FACILITY
TPDES PERMIT RENEWAL APPLICATION

BIOMONITORING RESULTS
24-HOUR ACUTE

Test Initiation Date	Test Species	LC50
5/13/2015	*Daphnia pulex*	>100%
5/13/2015	*Pimephales promelas*	>100%
11/17/2015	*Daphnia pulex*	>100%
11/17/2015	*Pimephales promelas*	>100%
4/27/2016	*Daphnia pulex*	>100%
4/27/2016	*Pimephales promelas*	>100%
11/2/2016	*Daphnia pulex*	>100%
11/2/2016	*Pimephales promelas*	<100%
11/23/2016	*Pimephales promelas*	>100%
11/30/2016	*Pimephales promelas*	>100%
2/22/2017	*Daphnia pulex*	>100%
2/22/2017	*Pimephales promelas*	>100%
12/7/2017	*Daphnia pulex*	>100%
12/7/2017	*Pimephales promelas*	>100%
4/20/2018	*Daphnia pulex*	>100%
4/20/2018	*Pimephales promelas*	>100%
7/19/2018	*Daphnia pulex*	>100%
7/19/2018	*Pimephales promelas*	>100%
4/26/2019	*Daphnia pulex*	>100%
4/26/2019	*Pimephales promelas*	>100%

ATTACHMENT I

Parameters above MAL
Wksht 6.0, Section 2.C

ATTACHMENT I
CITY OF LAREDO
SOUTH LAREDO WASTEWATER TREATMENT FACILITY
TPDES PERMIT RENEWAL APPLICATION

EFFLUENT PARAMETERS ABOVE MAL

Date	Parameter	MAL (µg/L)	Concentration (µg/L)
6/6/2017	Arsenic, Total	0.5	1.1
9/13/2017	Arsenic, Total	0.5	1.9
11/14/2017	Arsenic, Total	0.5	0.7
9/13/2017	Copper, Total	2.0	6.3
6/6/2017	Nickel, Total	2.0	2.5
9/13/2017	Nickel, Total	2.0	<2.2
6/6/2017	Zinc, Total	5.0	43.0
9/13/2017	Zinc, Total	5.0	47.0
11/14/2017	Zinc, Total	5.0	48.0
6/6/2017	Cyanide	10.0	17.0
9/13/2017	Cyanide	10.0	12.0
11/14/2017	Cyanide	10.0	11.0
9/13/2018	Chlorodibromomethane	10.0	14.0
9/13/2017	Chloroform	10.0	20.0
9/13/2017	Dichlorobromomethane	10.0	25.0
6/6/2017	Aluminum	2.5	17.0
9/13/2017	Aluminum	2.5	<23.0
11/14/2017	Aluminum	2.5	25.0
6/6/2017	Barium	3.0	52.0
9/13/2017	Barium	3.0	67.0
11/14/2017	Barium	3.0	45.0
9/13/2017	Fluoride	500.0	630.0
9/13/2017	Nitrate-nitrogen	100.0	18000.0
9/13/2017	TTHM (total Trihalomethanes)	10.0	62.0
5/15/2018	Aluminum	2.5	21.0
9/12/2018	Aluminum	2.5	41.0
11/6/2018	Aluminum	2.5	58.0
5/15/2018	Barium	3.0	69.0
9/12/2018	Barium	3.0	54.0
11/6/2018	Barium	3.0	56.0
5/15/2018	Nitrate-nitrogen	100.0	16000.0
5/15/2018	TTHM (total Trihalomethanes)	10.0	14.0
5/16/2019	Arsenic, Total	0.5	0.7
8/21/2019	Arsenic, Total	0.5	1.6
11/19/2019	Arsenic, Total	0.5	2.4
5/16/2019	Copper, Total	2.0	2.5
8/21/2019	Copper, Total	2.0	3.7
11/19/2019	Copper, Total	2.0	3.1
5/16/2019	Nickel, Total	2.0	2.4
11/19/2019	Nickel, Total	2.0	2.5
5/16/2019	Zinc, Total	5.0	58.0

ATTACHMENT I
CITY OF LAREDO
SOUTH LAREDO WASTEWATER TREATMENT FACILITY
TPDES PERMIT RENEWAL APPLICATION

EFFLUENT PARAMETERS ABOVE MAL

Date	Parameter	MAL (µg/L)	Concentration (µg/L)
8/21/2019	Zinc, Total	5.0	31.0
11/19/2019	Zinc, Total	5.0	62.6
5/16/2019	Chlorodibromomethane	10.0	22.0
5/16/2019	Chloroform	10.0	16.0
5/16/2019	Dichlorobromomethane	10.0	27.0
5/16/2019	Aluminum	2.5	18.0
8/21/2019	Aluminum	2.5	49.0
11/19/2019	Aluminum	2.5	16.1
5/16/2019	Barium	3.0	73.0
8/21/2019	Barium	3.0	60.0
11/19/2019	Barium	3.0	54.8
5/16/2019	TTHM (total Trihalomethanes)	10.0	71.0