

## **Administrative Package Cover Page**

#### This file contains the following documents:

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

#### Attachment No. 3 - Cameron WWTP Plain Language Summary (PLS)

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

The City of Cameron (CN600344162) proposes to operate the City of Cameron wastewater treatment plant (RN110762879), an activated sludge process plant operated in complete mix mode. The facility will be located approximately 4300 ft south-southeast of the intersection of US 190 and 77, State Highway 36 and Adams Street; and approximately one (1) half mile east of the intersection of Oak Street and Gillis Street in the City of More Texas, Texas County, Texas 71234.

This application is for a new application to discharge at a daily average flow of 960,000 gallons per day of treated domestic wastewater under interim phase. Final phase shall not exceed 1,250,000 gallons per day.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand ( $CBOD_5$ ), total suspended solids (TSS), ammonia nitrogen ( $NH_3$ -N), and *Escherichia coli*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent in the permit application package. Domestic wastewater will be treated by an activated sludge process plant and the treatment units under the interim phase will include a manual bar screen, flow equalization basin, aeration basin, final clarifiers, sludge digesters and dewatering containers, and chlorine contact chamber. Final phase improvements will consist of fine screens, vortex grit removal, flow equalization basin, continuous flow sequencing batch reactors, sludge digesters, chlorine contact basin and effluent cascade aeration.

#### **TEXAS COMMISSION ON ENVIRONMENTAL QUALITY**



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

#### PROPOSED PERMIT NO. WQ0010004003

**APPLICATION.** City of Cameron, P.O. Box 833, Cameron, Texas 76520, has applied to the Texas Commission on Environmental Quality (TCEQ) for proposed Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010004003 (EPA I.D. No. TX0146382) to authorize the discharge of treated wastewater at a volume not to exceed an annual average flow of 1,250,000 gallons per day. The domestic wastewater treatment facility is located approximately 0.5 mile east of the intersection of Oak Avenue and Gillis Avenue, near the city of Cameron, in Milam County, Texas 76520. The discharge route is from the plant site to an unnamed tributary, thence to Little River. Authorization to discharge was previously permitted by expired Permit No. WQ0010004001. TCEQ received this application on July 22, 2024. The permit application will be available for viewing and copying at Cameron Water Department, 2nd floor office, 100 South Houston Avenue, Cameron, in Milam County, Texas prior to the date this notice is published in the newspaper. The application, including any updates, and associated notices are available electronically at the following webpage: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application.

https://gisweb.tceq.texas.gov/LocationMapper/?marker=-96.9697,30.845&level=18

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

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

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

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

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

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

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

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

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

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

Further information may also be obtained from City of Cameron at the address stated above or by calling Ms. Amy Harris, City Secretary, at 254-697-6646.

Issuance Date: October 4, 2024

# COMMISSION OF THE PROPERTY OF

#### TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

## DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

OMMENTAL OS			CHECKLIST					
			th the application.					
Original WQ0010004002 WHENED AS "NEW"			VQ00 <u>10004001</u> is included in your application.					
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WQ OUTON	w'	þ	Original USGS Map	$\boxtimes$				
EXTENED "S		3	Affected Landowners Map	$\boxtimes$				
		þ	Landowner Disk or Labels	$\boxtimes$				
	_	J	Buffer Zone Map	$\boxtimes$				
Public Involvement Plan Form		$\boxtimes$	Flow Diagram	$\boxtimes$				
Technical Report 1.0	$\boxtimes$		Site Drawing	$\boxtimes$				
Technical Report 1.1		$\boxtimes$	Original Photographs	$\boxtimes$				
Worksheet 2.0	$\boxtimes$		Design Calculations		$\boxtimes$			
Worksheet 2.1		$\boxtimes$	Solids Management Plan		$\boxtimes$			
Worksheet 3.0		$\boxtimes$	Water Balance		$\boxtimes$			
Worksheet 3.1		$\boxtimes$						
Worksheet 3.2		$\boxtimes$						
Worksheet 3.3		$\boxtimes$						
Worksheet 4.0		$\boxtimes$						
Worksheet 5.0		$\boxtimes$	RECEIVE	D				
Worksheet 6.0	$\boxtimes$		JUL 22 20	4	To a second of			
Worksheet 7.0		$\boxtimes$	Water Quality Application		n i			
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For TCEQ Use Only	
Segment Number	County
Expiration Date	Region
Permit Number	

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#### TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

### DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

For any questions about this form, please contact the Applications Review and Processing Team at 512-239-4671.

C	T. C. F	(T	. D 2		
Section 1. A	pplication F	ees (Instruction	is Page 20	0)	
Indicate the amou	ınt submitted f	or the application f	ee (check o	nly one).	
Flow	: !	New/Major Amend	ment	Renewal	
<0.05 MGD		\$350.00 □		\$315.00 □	
≥0.05 but <0.10 N	ИGD	\$550.00 □		\$515.00 □	
≥0.10 but <0.25 M	MGD	\$850.00 □		\$815.00 □	
≥0.25 but <0.50 N	<b>MGD</b>	\$1,250.00 □		\$1,215.00 □	
≥0.50 but <1.0 Mo	GD	\$1,650.00 □		\$1,615.00 □	
≥1.0 MGD		\$2,050.00 □		\$2,015.00 ☒	
Minor Amendment	t (for any flow)	\$150.00 □			
Payment Informat	tion:				
Mailed	Check/Money	Order Number: Clie	ck to enter to	ext.	
	Check/Money	Order Amount: Clie	ck to enter to	ext	
		on Check: <u>Kasberg,</u>		ociates, LP	
EPAY	Voucher Num	ber: Click to enter t	ext.		
Copy of Pay	ment Voucher	enclosed?	Yes □		
					· · · · · · · · · · · · · · · · · · ·
Section 2. Ty	ype of Appl	ication (Instruc	tions Pag	e 26)	23%。在15%。
a. Check the box	nevt to the ann	ropriate authorizati	on tyne		
			on type.		
	wned Domestic				
☐ Privately-C	Owned Domesti	c Wastewater			
□ Convention	nal Wastewater	Treatment			
<b>b.</b> Check the box	next to the app	ropriate facility stat	us.		
□ Active	☐ Inactive				
- neuve					

C.	Che	eck the box next to the appropriate permit type	e.	
	$\boxtimes$	TPDES Permit		
		TLAP		
		TPDES Permit with TLAP component		
		Subsurface Area Drip Dispersal System (SAD)	DS)	
d.	Che	eck the box next to the appropriate application	typ	e
		New		
		Major Amendment with Renewal		Minor Amendment with Renewal
		Major Amendment without Renewal		Minor Amendment without Renewal
	$\boxtimes$	Renewal without changes		Minor Modification of permit
e.	For	amendments or modifications, describe the p	ropo	sed changes: Click to enter text.
f.	For	existing permits:		
	Peri	mit Number: WQ00 <u>10004001</u>		
	EPA	I.D. (TPDES only): TX <u>0053651</u>		
	Exp	iration Date: <u>June 26,2024</u>		
Se	ctio	on 3. Facility Owner (Applicant) a	nd	Co-Applicant Information
		(Instructions Page 26)		
A.	The	e owner of the facility must apply for the per	mit.	
	Wha	at is the Legal Name of the entity (applicant) a	pply	ing for this permit?
	City	of Cameron		
		e legal name must be spelled exactly as filed w legal documents forming the entity.)	ith th	he Texas Secretary of State, County, or in
		ne applicant is currently a customer with the T n may search for your CN on the TCEQ website		
	,	CN: <u>600344162</u>		

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

Prefix: Mr. Last Name, First Name: White, Brandon

Title: Public Works Director Credential: Click to enter text.

**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: <a href="http://www15.tceq.texas.gov/crpub/">http://www15.tceq.texas.gov/crpub/</a>

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: Click to enter text. Last Name, First Name: Click to enter text.

Title: Click to enter text. Credential: Click to enter text.

Provide a brief description of the need for a co-permittee: Click to enter text.

#### 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. Exhibit No. 1

#### Section 4. Application Contact Information (Instructions Page 27)

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. Last Name, First Name: Karimov, Askarali

Title: <u>Technical Director</u> Credential: <u>EIT, Ph. D.</u>

Organization Name: Kasberg, Patrick & Associates, LP

Mailing Address: 19 N. Main Street City, State, Zip Code: Temple, TX 76501

Phone No.: (254) 773-3731 E-mail Address: akarimov@kpaengineers.com

B. Prefix: Mr. Last Name, First Name: Valle, Thomas

Title: <u>Principal</u> Credential: <u>P.E.</u>

Organization Name: Kasberg, Patrick & Associates, LP

Mailing Address: 19 N. Main Street City, State, Zip Code: Temple, TX 76501

Phone No.: (254) 773-3731 E-mail Address: tvalle@kpaengineers.com

Check one or both:  $\square$  Administrative Contact  $\boxtimes$  Technical Contact

#### Section 5. Permit Contact Information (Instructions Page 27)

Provide the names and contact information for two individuals that can be contacted throughout the permit term.

A. Prefix: Mr. Last Name, First Name: White, Brandon

Title: <u>Public Works Director</u> Credential: Click to enter text.

Organization Name: City of Cameron

Mailing Address: P.O. Box 833 City, State, Zip Code: Cameron, TX 76520

Phone No.: (254) 697-6646 E-mail Address: <u>bwhite@camerontexas.net</u>

B. Prefix: Mr. Last Name, First Name: Burkett, Andrew

Title: <u>Plant Operator</u> Credential: Click to enter text.

Organization Name: City of Cameron

Mailing Address: P.O. Box 833 City, State, Zip Code: Cameron, TX 76520

Phone No.: (254) 697-6646 E-mail Address: aburkett@camerontexas.net

#### Section 6. Billing Contact Information (Instructions Page 27)

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: Ms. Last Name, First Name: Harris, Amy

Title: City Secretary Credential: Click to enter text.

Organization Name: City of Cameron

Mailing Address: P.O. Box 833 City, State, Zip Code: Cameron, TX 76520

Phone No.: (254) 697-6646 E-mail Address: aharris@camerontexas.net

#### Section 7. DMR/MER Contact Information (Instructions Page 27)

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

Prefix: Mr. Last Name, First Name: Burkett, Andrew

Title: Plant Operator Credential: Click to enter text.

Organization Name: City of Cameron

Mailing Address: P.O. Box 833 City, State, Zip Code: Cameron, TX 76520

Phone No.: (254) 697-6646 E-mail Address: aburkett@camerontexas.net

#### Section 8. Public Notice Information (Instructions Page 27)

#### A. Individual Publishing the Notices

Prefix: Ms. Last Name, First Name: Harris, Amy

Title: <u>City Secretary</u> Credential: Click to enter text.

Organization Name: City of Cameron

Mailing Address: P.O. Box 833 City, State, Zip Code: Cameron, TX 76520

Phone No.: (254) 697-6646 E-mail Address: aharris@camerontexas.net

	Pa	ckage				
	Inc	dicate b	y a check ma	ark tł	he preferred method for receiving the first notice and instructions	<b>:</b> :
	$\boxtimes$	E-ma	il Address			
		Fax				
		Regu	lar Mail			
C.	Co	ntact p	ermit to be	listec	d in the Notices	
	Pre	efix: <u>Ms</u>	<u>.</u>		Last Name, First Name: <u>Harris, Amy</u>	
	Tit	le. <u>City</u>	Secretary		Credential: Click to enter text.	
	Or	ganizat	ion Name: <u>C</u>	ity of	Cameron	
	Ma	iling A	ddress: <u>P.O.</u>	Box 8	City, State, Zip Code: <u>Cameron, TX 76520</u>	
	Ph	one No.	: <u>(254) 697-6</u>	<u>646</u>	E-mail Address: aharris@camerontexas.net	
D.	Pu	blic Vie	ewing Inform	natio	on	
		9.5	lity or outfall ust be provid		cated in more than one county, a public viewing place for each	
	Pu	blic bui	lding name:	<u>Came</u>	eron Water Department	
	Lo	cation v	vithin the bu	ıildin	g: <u>2nd Floor Office</u>	
	Ph	ysical A	ddress of Bu	uildin	ng: 100 South Houston Ave	
	Cit	y: <u>Came</u>	eron		County: <u>Milam</u>	
	Co	ntact (L	ast Name, F	irst N	Jame): <u>Harris, Amy</u>	
	Ph	one No.	: <u>(254) 697-6</u>	<u>646</u> E	Ext.: Click to enter text.	
E.	Bil	ingual l	Notice Requ	irem	ents	
					ed for new, major amendment, minor amendment or minor applications.	
	be	needed		nstru	tion is only used to determine if alternative language notices will actions on publishing the alternative language notices will be in .	
	ob				L coordinator at the nearest elementary and middle schools and nation to determine whether an alternative language notices are	
	1.				program required by the Texas Education Code at the elementary st to the facility or proposed facility?	•
			Yes	$\boxtimes$	No	
		If <b>no</b> , p	oublication o	of an	alternative language notice is not required; skip to Section 9	
	2.				ttend either the elementary school or the middle school enrolled i	n
			Yes		No	

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

	3.	Do the locatio		these	e schools attend a bilingual education program at another
			Yes		No
	4.				quired to provide a bilingual education program but the school has irement under 19 TAC §89.1205(g)?
			Yes		No
	5.				question 1, 2, 3, or 4, public notices in an alternative language are ge is required by the bilingual program? Click to enter text.
F.	Pla	in Lang	guage Summ	ary	Template
	Co	mplete	the Plain Lar	ıguaş	ge Summary (TCEQ Form 20972) and include as an attachment.
	At	tachme	nt: <u>N/A</u>		
G.	Pu	blic Inv	olvement Pl	lan F	Form
					ement Plan Form (TCEQ Form 20960) for each application for a
		•			ndment to a permit and include as an attachment.
	At	tachme	nt: <u>N/A</u>		
C-			1.	1 1	
Se	CU	on 9.	Regulat Page 29		Entity and Permitted Site Information (Instructions
Α.				regul	lated by TCEQ, provide the Regulated Entity Number (RN) issued to
					Registry at <a href="http://www15.tceq.texas.gov/crpub/">http://www15.tceq.texas.gov/crpub/</a> to determine if ted by TCEQ.
B.	Na	me of p	roject or site	e (the	e name known by the community where located):
	<u>Cit</u>	y of Cam	neron WWTP		
C.	Ow	vner of	treatment fa	cility	: City of Cameron
	Ow	vnership	of Facility:	$\boxtimes$	Public □ Private □ Both □ Federal
D.	Ow	vner of	land where t	reatn	nent facility is or will be:
	Pre	efix: <u>N/</u>	<u>4</u>		Last Name, First Name: <u>N/A</u>
	Tit	le: <u>N/A</u>			Credential: <u>N/A</u>
	Or	ganizat	ion Name: <u>Ci</u>	ty of	Cameron
	Ma	iling Ac	ldress: <u>P.O. I</u>	30x 8	33 City, State, Zip Code: <u>Cameron, TX 76520</u>
	Ph	one No.	: <u>(254) 697-66</u>	<u> 646</u>	E-mail Address: bwhite@camerontexas.net
					same person as the facility owner or co-applicant, attach a lease d easement. See instructions.
		Attach	ment: N/A		

	Prefix: Click to enter text.	Last Name, First Name: Click to enter text.
	Title: Click to enter text.	Credential: Click to enter text.
	Organization Name: Click to ente	er text.
	Mailing Address: Click to enter to	ext. City, State, Zip Code: Click to enter text.
	Phone No.: Click to enter text.	E-mail Address: Click to enter text.
	If the landowner is not the same agreement or deed recorded ease	e person as the facility owner or co-applicant, attach a lease ement. See instructions.
	Attachment: Click to enter te	ext.
F.	Owner sewage sludge disposal si property owned or controlled by	ite (if authorization is requested for sludge disposal on the applicant)::
	Prefix: Click to enter text.	Last Name, First Name: Click to enter text.
	Title: Click to enter text.	Credential: Click to enter text.
	Organization Name: Click to ente	er text.
	Mailing Address: Click to enter to	ext. City, State, Zip Code: Click to enter text.
	Phone No.: Click to enter text.	E-mail Address: Click to enter text.
	If the landowner is not the same agreement or deed recorded ease	e person as the facility owner or co-applicant, attach a lease ement. See instructions.
	Attachment: Click to enter te	ext.
Se		ge Information (Instructions Page 31)
ALAM T	ection 10. TPDES Dischar	
ALAM T	ection 10. TPDES Dischar	ge Information (Instructions Page 31)
ALAM T	ection 10. TPDES Dischar Is the wastewater treatment facil Yes  No	ge Information (Instructions Page 31)
ALAM T	ection 10. TPDES Dischar Is the wastewater treatment facil Yes  No	ge Information (Instructions Page 31) lity location in the existing permit accurate?
ALAM T	Is the wastewater treatment facil	ge Information (Instructions Page 31) lity location in the existing permit accurate?
A.	Is the wastewater treatment facil  ✓ Yes □ No  If no, or a new permit application of the content text.	ge Information (Instructions Page 31) lity location in the existing permit accurate?
A.	Is the wastewater treatment facil  ✓ Yes □ No  If no, or a new permit application of the content text.	ge Information (Instructions Page 31) lity location in the existing permit accurate?  on, please give an accurate description:
A.	Is the wastewater treatment facil  ✓ Yes □ No  If no, or a new permit application  Click to enter text.  Are the point(s) of discharge and  ✓ Yes □ No  If no, or a new or amendment p	ge Information (Instructions Page 31) lity location in the existing permit accurate?  on, please give an accurate description:  d the discharge route(s) in the existing permit correct?  permit application, provide an accurate description of the
A.	Is the wastewater treatment facil	ge Information (Instructions Page 31) lity location in the existing permit accurate?  on, please give an accurate description:  d the discharge route(s) in the existing permit correct?
A.	Is the wastewater treatment facil  ✓ Yes □ No  If no, or a new permit application  Click to enter text.  Are the point(s) of discharge and  ✓ Yes □ No  If no, or a new or amendment p	ge Information (Instructions Page 31) lity location in the existing permit accurate?  on, please give an accurate description:  d the discharge route(s) in the existing permit correct?  permit application, provide an accurate description of the
A.	Is the wastewater treatment facil	ge Information (Instructions Page 31) lity location in the existing permit accurate?  on, please give an accurate description:  d the discharge route(s) in the existing permit correct?  permit application, provide an accurate description of the
A.	Is the wastewater treatment facil  ✓ Yes □ No  If no, or a new permit application  Click to enter text.  Are the point(s) of discharge and  ✓ Yes □ No  If no, or a new or amendment point of discharge and the disched TAC Chapter 307:  Click to enter text.	ge Information (Instructions Page 31) lity location in the existing permit accurate?  on, please give an accurate description:  d the discharge route(s) in the existing permit correct?  permit application, provide an accurate description of the large route to the nearest classified segment as defined in 30
A.	Is the wastewater treatment facil  ✓ Yes □ No  If no, or a new permit application  Click to enter text.  Are the point(s) of discharge and  ✓ Yes □ No  If no, or a new or amendment point of discharge and the discher TAC Chapter 307:  Click to enter text.  City nearest the outfall(s): City of	ge Information (Instructions Page 31) lity location in the existing permit accurate?  on, please give an accurate description:  d the discharge route(s) in the existing permit correct?  permit application, provide an accurate description of the large route to the nearest classified segment as defined in 30 from the large route to the nearest classified segment as defined in 30 from the large route to the nearest classified segment as defined in 30 from the large route to the nearest classified segment as defined in 30 from the large route to the nearest classified segment as defined in 30 from the large route to the nearest classified segment as defined in 30 from the large route to the nearest classified segment as defined in 30 from the large route to the nearest classified segment as defined in 30 from the large route to the nearest classified segment as defined in 30 from the large route to the nearest classified segment as defined in 30 from the large route to the nearest classified segment as defined in 30 from the large route to the nearest classified segment as defined in 30 from the large route to the nearest classified segment as defined in 30 from the large route to the nearest classified segment as defined in 30 from the large route to the nearest classified segment as defined in 30 from the large route to the nearest classified segment as defined in 30 from the large route to the nearest classified segment as defined in 30 from the large route to the large route to the nearest classified segment as defined in 30 from the large route to the large route to the nearest classified segment as defined in 30 from the large route to
A.	Is the wastewater treatment facil	ge Information (Instructions Page 31) lity location in the existing permit accurate?  on, please give an accurate description:  d the discharge route(s) in the existing permit correct?  permit application, provide an accurate description of the large route to the nearest classified segment as defined in 30   f Cameron  s/are located: Milam
A.	Is the wastewater treatment facil	ge Information (Instructions Page 31)  lity location in the existing permit accurate?  on, please give an accurate description:  d the discharge route(s) in the existing permit correct?  permit application, provide an accurate description of the large route to the nearest classified segment as defined in 30  f Cameron  s/are located: Milam  discharge to a city, county, or state highway right-of-way, or
A.	Is the wastewater treatment facil  ✓ Yes □ No  If no, or a new permit application  Click to enter text.  Are the point(s) of discharge and  ✓ Yes □ No  If no, or a new or amendment point of discharge and the d	ge Information (Instructions Page 31)  lity location in the existing permit accurate?  on, please give an accurate description:  d the discharge route(s) in the existing permit correct?  permit application, provide an accurate description of the large route to the nearest classified segment as defined in 30  f Cameron  s/are located: Milam  discharge to a city, county, or state highway right-of-way, or

**E.** Owner of effluent disposal site:

	If <b>yes</b> , indicate by a check mark if:
	$\square$ Authorization granted $\square$ Authorization pending
	For <b>new and amendment</b> applications, provide copies of letters that show proof of contact and the approval letter upon receipt.
	Attachment: Click to enter text.
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: $N/A$
Sa	ection 11. TLAP Disposal Information (Instructions Page 32)
Je	ction 11. 1LAI Disposai information (instructions rage 32)
A.	For TLAPs, is the location of the effluent disposal site in the existing permit accurate?
	□ Yes □ No
	If <b>no, or a new or amendment permit application</b> , provide an accurate description of the disposal site location:
	Click to enter text.
B.	City nearest the disposal site: Click to enter text.
C.	County in which the disposal site is located: Click to enter text.
D.	For <b>TLAPs</b> , describe the routing of effluent from the treatment facility to the disposal site:
	Click to enter text.
Е.	For <b>TLAPs</b> , please identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained: $N/A$
Se	ection 12. Miscellaneous Information (Instructions Page 32)
Α.	Is the facility located on or does the treated effluent cross American Indian Land?
	□ Yes ⊠ No
В.	If the existing permit contains an onsite sludge disposal authorization, is the location of the sewage sludge disposal site in the existing permit accurate?
	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.
	Previously, the City of Cameron utilized On-Site Sludge Drying Beds for sludge storage prior to disposal in a landfill. As of 2019 and described in the previously approved Major Amendment, the City now de-waters sludge in haul-off containers prior to disposal by a registered entity in a landfill.

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: $\underline{N/A}$
D.	Do you owe any fees to the TCEQ?
	□ Yes ⊠ No
	If <b>yes</b> , provide the following information:
	Account number: Click to enter text.
	Amount past due: Click to enter text.
E.	Do you owe any penalties to the TCEQ?
	□ Yes ⊠ No
	If <b>yes</b> , please provide the following information:
	Enforcement order number: Click to enter text.
	Amount past due: Click to enter text.
So	ection 12 Attachments (Instructions Dags 22)
	ection 13. Attachments (Instructions Page 33)
	dicate 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.
$\boxtimes$	Original full-size USGS Topographic Map with the following information:
	<ul> <li>Applicant's property boundary</li> <li>Treatment facility boundary</li> <li>Labeled point of discharge for each discharge point (TPDES only)</li> </ul>
	<ul> <li>Highlighted discharge route for each discharge point (TPDES only)</li> <li>Onsite sewage sludge disposal site (if applicable)</li> <li>Effluent disposal site boundaries (TLAP only)</li> <li>New and future construction (if applicable)</li> <li>1 mile radius information</li> <li>3 miles downstream information (TPDES only)</li> <li>All ponds.</li> </ul>
	<ul> <li>Onsite sewage sludge disposal site (if applicable)</li> <li>Effluent disposal site boundaries (TLAP only)</li> <li>New and future construction (if applicable)</li> <li>1 mile radius information</li> <li>3 miles downstream information (TPDES only)</li> </ul>
	<ul> <li>Onsite sewage sludge disposal site (if applicable)</li> <li>Effluent disposal site boundaries (TLAP only)</li> <li>New and future construction (if applicable)</li> <li>1 mile radius information</li> <li>3 miles downstream information (TPDES only)</li> <li>All ponds.</li> </ul>

#### Section 14. Signature Page (Instructions Page 34)

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

Permit Number: WQ0010004001

Applicant: City of Cameron

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): Brandon White

Signatory title: Public Works Director

Signature: <u>&amp;</u>	and Williams			Date:_7/19	12024	
(	Use blue ink)					
Subscribed an	d Sworn to before	me by the	said	Brandon u	Inite	
on this	19	day of	July		, 20 <u>24</u> .	
My commissio	n expires on the	27	_day of	January	, 20 <u>28</u> .	

Notary Public

[SEAL]

County, Texas

## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

### FOR AGENCIES REVIEWING DOMESTIC OR INDUSTRIAL TPDES WASTEWATER PERMIT APPLICATIONS

TCEQ USE ONLY:	
Application type:RenewalMajor AmendmentM	inor AmendmentNew
County: Segment Num	oer:
Admin Complete Date:Agency Receiving SPIF:	
Texas Historical Commission U.S. Fisl Texas Parks and Wildlife Department U.S. Arr	n and Wildlife ny Corps of Engineers
This form applies to TPDES permit applications only. (Instruc	tions Dogs F2)
Complete this form as a separate document. TCEQ will mail a cour agreement with EPA. If any of the items are not completely is needed, we will contact you to provide the information before each item completely.  Do not refer to your response to any item in the permit applicate attachment for this form separately from the Administrative Reapplication will not be declared administratively complete with completed in its entirety including all attachments. Questions of may be directed to the Water Quality Division's Application Revenuel at	

	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): <u>Mr.</u> First and Last Name: <u>Brandon White</u>
	Credential (P.E, P.G., Ph.D., etc.): Clark house to the state of the control of t
	Mailing Address: P.O. Box 833 City, State, Zip Code: Cameron, TX 76520 Phone No.: (254) 667-6646 Ext.: Fax No.: (254) 667-3040 E-mail Address: bwhite@camerontexas.net
2.	List the county in which the facility is located: Milam
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, Landowner is permittee
4.	Provide a description of the effluent discharge route. The discharge route must follow the flow of effluent from the point of discharge to the nearest major watercourse (from the point of discharge to a classified segment as defined in 30 TAC Chapter 307). If known, please identify the classified segment number.
	Effluent discharges into unnamed tributary and travels approximately 0.40 miles South-South East to Little River Segment No. 1213 of the Brazos River 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).
	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.
	<ul> <li>□ Proposed access roads, utility lines, construction easements</li> <li>□ Visual effects that could damage or detract from a historic property's integrity</li> <li>□ Vibration effects during construction or as a result of project design</li> <li>□ Additional phases of development that are planned for the future</li> <li>□ Sealing caves, fractures, sinkholes, other karst features</li> <li>□ Disturbance of vegetation or wetlands</li> </ul>
1.	List proposed construction impact (surface acres to be impacted, depth of excavation, sealing

of caves, or other karst features):

Construction will consist of building large concrete basins for new treatment units within WWTP site approximately 3 Acres of surface impact. Excavation depth will range from slab on grade to approximately 6'-8' below existing ground. No karst features or caves are expected to be encountered.

2.	Describe existing disturbances, vegetation, and land use:
	Existing disturbances is noise from WWTP operations. Only vegetation within site is grass.
	Construction area within the WWTP has been previously disturbed.

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

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

  Original Treatment Plant was constructed in 1958 this included existing clarifiers (2), digesters (2), aeration basin (1), chlorine contact basin (1), headworks and influent pump station. Equalization basin and headworks improvements (fine screens) were added in 2005.
- 4. Provide a brief history of the property, and name of the architect/builder, if known.

  Architect/Builder is not known, site was a grass/brush filled area with a few neighboring houses when WWTP was built in 1958.

## S COMMISSION OF THE PROPERTY O

#### TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

#### DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

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

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

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

#### A. Existing/Interim I Phase

Design Flow (MGD): 0.96

2-Hr Peak Flow (MGD): 2.4

Estimated construction start date: 1958

Estimated waste disposal start date: 1958

#### **B.** Interim II Phase

Design Flow (MGD): 1.25

2-Hr Peak Flow (MGD): 5.0

Estimated construction start date: 9/1/2024

Estimated waste disposal start date: 12/1/2025

#### C. Final Phase

Design Flow (MGD): N/A

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

Estimated construction start date: N/A

Estimated waste disposal start date: N/A

#### D. Current Operating Phase

Provide the startup date of the facility: Existing/Interim I

#### Section 2. Treatment Process (Instructions Page 43)

#### A. Current Operating Phase

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

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

Existing/Interim Phase I – Existing Process is Conventional Activated Sludge. Wastewater is pumped from various small lift stations into 12" & 15" gravity sewer entering influent lift station. Existing Phase flows through manual bar screen, equalization basin and aeration basin for primary treatment. Secondary Treatment consists of two (2) clarifiers and chlorine contact chambers before discharging into unnamed tributary. Waste sludge is decomposed in two (2) digesters, pumped to on-site dewatering containers and then hauled off to Temple landfill. Interim Phase II – Includes addition of 0.29 MGD treatment capacity consisting of the replacement of existing influent wet well, new headworks structure with manual and fine screens, equalization pump station, vortex grit removal, four (4) new continuous flow Sequence Batch Reactor basins replacing existing clarification, two (2) new chlorine contact basins and cascade aerator. Existing haul off sludge dewatering containers will remain. Phase II will connect to existing outfall.

#### **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 attached Exhibit 9		
•		

#### C. Process Flow Diagram

Provide flow diagrams for the existing facilities and **each** proposed phase of construction. **Attachment:** 4

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

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

Latitude: <u>30.84516</u>Longitude: -96.9661

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

Latitude: N/ALongitude: N/A

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

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

<ul> <li>If land disposal of effluent, the boundaries of the disposal site and all storage/holding ponds; and</li> </ul>					
<ul> <li>If sludge disposal is a disposal site.</li> </ul>	uthorized in the perm	nit, the boundaries of the	land application or		
Attachment: 5					
Provide the name and a desc	ription of the area se	erved by the treatment fac	cility.		
WWTP service area is the City area is 3,325 Acres with Reside			The approximate		
Collection System Information each uniquely owned collection systems. I examples.	tion system, existing Please see the instru	and new, served by this fa	acility, including		
Collection System Information		O	Developing Committee		
Collection System Name	Owner Name	Owner Type	Population Served		
City of Cameron	City of Cameron	Publicly Owned	5,511		
		Choose an item.			
		Choose an item.			
		Choose an item.			
Castina 4 Halarila Di	(T	D 45)			
	hases (Instructio				
Is the application for a renew	val of a permit that co	ontains an unbuilt phase	or phases?		
⊠ Yes □ No					
If yes, does the existing perryears of being authorized by		nat has not been construc	ted <b>within five</b>		
⊠ Yes □ No					
If yes, provide a detailed dis Failure to provide sufficient recommending denial of the	t justification may re	esult in the Executive Dir			
Please see attached Exhibit No.	. 14				

	e any treatment units been taken out of service permanently, or will any units be taken of service in the next five years?
	⊠ Yes □ No
If ye	es, was a closure plan submitted to the TCEQ?
	⊠ Yes □ No
If ye	es, provide a brief description of the closure and the date of plan approval.
Cla	erim Phase II improvements will remove the Manual Bar Screen, Influent Pump Station, crifiers, Chlorine Contact Basins and Sludge Drying Beds (Previously Demolished). Approval ter is dated August 19, 2023
For	applicants with an existing permit, check the Other Requirements or Special visions of the permit.
A. S	Summary transmittal
	Have plans and specifications been approved for the existing facilities and each proposed phase?
	□ Yes ⊠ No
I	If yes, provide the date(s) of approval for each phase: Click to enter text.
ľ	Provide information, including dates, on any actions taken to meet a <i>requirement or</i> provision pertaining to the submission of a summary transmittal letter. <b>Provide a copy of an approval letter from the TCEQ, if applicable</b> .
	Click to enter text.
В. Е	Buffer zones
F	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

Section 5. Closure Plans (Instructions Page 45)

buffer zones.

N	one, see Exhibit No. 7
Ot	her actions required by the current permit
sul	es the <i>Other Requirements</i> or <i>Special Provisions</i> section in the existing permit require omission of any other information or other required actions? Examples include tification of Completion, progress reports, soil monitoring data, etc.
	□ Yes ⊠ No
	yes, provide information below on the status of any actions taken to meet the aditions of an Other Requirement or Special Provision.
CI	lick to enter text.
Gri	it and grease treatment
1.	Acceptance of grit and grease waste
	Does the facility have a grit and/or grease processing facility onsite that treats and decants or accepts transported loads of grit and grease waste that are discharged directly to the wastewater treatment plant prior to any treatment?
	□ Yes ⊠ No
	If No, stop here and continue with Subsection E. Stormwater Management.
2.	Grit and grease processing
	Describe below how the grit and grease waste is treated at the facility. In your description, include how and where the grit and grease is introduced to the treatment works and how it is separated or processed. Provide a flow diagram showing how grit and grease is processed at the facility.
	Click to enter text.

#### 3. Grit disposal

C.

D.

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

		□ Yes □ No
		If No, contact the TCEQ Municipal Solid Waste team at 512-239-2335. Note: A registration or permit is required for grit disposal. Grit shall not be combined with treatment plant sludge. See the instruction booklet for additional information on grit disposal requirements and restrictions.
		Describe the method of grit disposal.
		Click to enter text.
	4.	Grease and decanted liquid disposal
		Note: A registration or permit is required for grease disposal. Grease shall not be combined with treatment plant sludge. For more information, contact the TCEQ Municipal Solid Waste team at 512-239-2335.
		Describe how the decant and grease are treated and disposed of after grit separation.
		Click to enter text.
Ε.	Sto	ormwater 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:
		Wastes Received:

3.	Conditional exclusion
	Alternatively, do you intend to apply for a conditional exclusion from permitting based TXR050000 (Multi Sector General Permit) Part II B.2 or TXR050000 (Multi Sector General Permit) Part V, Sector T 3(b)?
	□ Yes ⊠ No
	If yes, please explain below then proceed to Subsection F, Other Wastes Received:
	Click to enter text.
23	ł
4.	Existing coverage in individual permit
	Is your stormwater discharge currently permitted through this individual TPDES or TLAP permit?
	⊠ Yes □ No
	<b>If yes</b> , 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.
	Stormwater is collected in central location and then returned to headworks. Existing Berm surrounding WWTP prevents runoff from escaping the site.
5.	Zero stormwater discharge
	Do you intend to have no discharge of stormwater via use of evaporation or other means?
	□ Yes ⊠ No
	If yes, explain below then skip to Subsection F. Other Wastes Received.
	Click to enter text.
	Note: If there is a potential to discharge any stormwater to surface water in the state as the result of any storm event, then permit coverage is required under the MSGP or an individual discharge permit. This requirement applies to all areas of facilities with treatment plants or systems that treat, store, recycle, or reclaim domestic sewage,

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?

		- 165 & NO
		If yes, provide a description of stormwater runoff management practices at the site for which you are requesting authorization in this individual wastewater permit and describe whether you intend to comingle this discharge with your treated effluent or discharge it via a separate dedicated stormwater outfall. Please also indicate if you intend to divert stormwater to the treatment plant headworks and indirectly discharge it to water in the state.
		Click to enter text.
		Note: Direct stormwater discharges to waters in the state authorized through this individual permit will require the development and implementation of a stormwater pollution prevention plan (SWPPP) and will be subject to additional monitoring and reporting requirements. Indirect discharges of stormwater via headworks recycling will require compliance with all individual permit requirements including 2-hour peak flow limitations. All stormwater discharge authorization requests will require additional information during the technical review of your application.
F.	Dis	scharges to the Lake Houston Watershed
	Do	es the facility discharge in the Lake Houston watershed?
		□ Yes ⊠ No
	and the second second	ves, attach a Sewage Sludge Solids Management Plan. See Example 5 in the instructions. ck to enter text.
G.	Ot	her wastes received including sludge from other WWTPs and septic waste
	1.	Acceptance of sludge from other WWTPs
		Does or will the facility accept sludge from other treatment plants at the facility site?
		□ Yes ⊠ No
		If yes, attach sewage sludge solids management plan. See Example 5 of instructions.
		In addition, provide the date the plant started or is anticipated to start accepting sludge, an estimate of monthly sludge acceptance (gallons or millions of gallons), an
		estimate of the $BOD_5$ concentration of the sludge, and the design $BOD_5$ concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.
		Click to enter text.
		Note: Permits that accept sludge from other wastewater treatment plants may be required to have influent flow and organic loading monitoring.
	2.	Acceptance of septic waste
		Is the facility accepting or will it accept septic waste?
		⊠ Yes □ No

	If yes, does the facility have a Type V processing unit?
	□ Yes ⊠ No
	If yes, does the unit have a Municipal Solid Waste permit?
	□ Yes ⊠ No
	If yes to any of the above, provide the date the plant started or is anticipated to start accepting septic waste, an estimate of monthly septic waste acceptance (gallons or millions of gallons), an estimate of the BOD <sub>5</sub> concentration of the septic waste, and the
	design BOD <sub>5</sub> concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.
	The anticipated acceptance date is December 1, 2025 at completion of Phase II Improvements. 10,000 to 20,000 gallons per month. Expected average septage BOD is 7500 mg/l.
	Note: Permits that accept sludge from other wastewater treatment plants may be required to have influent flow and organic loading monitoring.
3.	Acceptance of other wastes (not including septic, grease, grit, or RCRA, CERCLA or as discharged by IUs listed in Worksheet 6)
	Is or will the facility accept wastes that are not domestic in nature excluding the categories listed above?
	□ Yes ⊠ No
	If yes, provide the date that the plant started accepting the waste, an estimate how much waste is accepted on a monthly basis (gallons or millions of gallons), a description of the entities generating the waste, and any distinguishing chemical or other physical characteristic of the waste. Also note if this information has or has not changed since the last permit action.
	Click to enter text.
Secti	on 7. Pollutant Analysis of Treated Effluent (Instructions Page 50)
Is the	facility in operation?
$\boxtimes$	Yes D No
If no,	this section is not applicable. Proceed to Section 8.

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

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

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

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
CBOD <sub>5</sub> , mg/l		15.0	1	Grab	4/25/24 / 10:15 AM
Total Suspended Solids, mg/l		21.0	1	Grab	4/25/24 / 9:00 AM
Ammonia Nitrogen, mg/l		11.9	1	Grab	4/25/24 / 6:30 PM
Nitrate Nitrogen, mg/l		< 0.10	1	Grab	4/30/24 / 7:31 PM
Total Kjeldahl Nitrogen, mg/l		16.7	1	Grab	4/25/24 / 7:50 PM
Sulfate, mg/l		90.8	1	Grab	4/25/24 / 7:31 PM
Chloride, mg/l		111.0	1	Grab	4/25/24 / 7:31 PM
Total Phosphorus, mg/l		1.05	1	Grab	4/25/24 / 4:15 PM
pH, standard units		7.2	1	Grab	4/24/24 / 12:24 PM
Dissolved Oxygen*, mg/l					
Chlorine Residual, mg/l					
E.coli (CFU/100ml) freshwater		2420	1	Grab	4/24/24 / 4:20 PM
Entercocci (CFU/100ml) saltwater	N/A	N/A	N/A	N/A	N/A
Total Dissolved Solids, mg/l		602.0	1	Grab	4/29/24 / 7:31 PM
Electrical Conductivity, µmohs/cm, †		1071	1	Grab	4/25/24 / 1:30 PM
Oil & Grease, mg/l		< 5.0	1	Grab	4/29/24 / 1:30 PM
Alkalinity (CaCO <sub>3</sub> )*, mg/l		291.0	1	Grab	4/29/24 / 9:00 AM

<sup>\*</sup>TPDES permits only

<sup>†</sup>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						
Total Dissolved Solids, mg/l						
pH, standard units						
Fluoride, mg/l						
Aluminum, mg/l						
Alkalinity (CaCO <sub>3</sub> ), mg/l						

#### Section 8. Facility Operator (Instructions Page 50)

Facility Operator Name: Andrew Burkett

Facility Operator's License Classification and Level: Class/Level C

Facility Operator's License Number: WWoo61723

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

A.	WWTP's Biosolids Management Facility Type			
	Check all that apply. See instructions for guidance			
	$\boxtimes$	Design flow>= 1 MGD		
		Serves >= 10,000 people		
		Class I Sludge Management Facility (per 40 CFR § 503.9)		
		Biosolids generator		
		Biosolids end user - land application (onsite)		
		Biosolids end user – surface disposal (onsite)		

Biosolids end user - incinerator (onsite) 

#### **B.** WWTP's Biosolids Treatment Process

r guidance.

Che	ck all that apply. See instructions fo
$\boxtimes$	Aerobic Digestion
$\boxtimes$	Air Drying (or sludge drying beds)
	Lower Temperature Composting
	Lime Stabilization
	Higher Temperature Composting
	Heat Drying
	Thermophilic Aerobic Digestion

**Beta Ray Irradiation** 

	Gamma Ray Irradiation
	Pasteurization
	Preliminary Operation (e.g. grinding, de-gritting, blending)
	Thickening (e.g. gravity thickening, centrifugation, filter press, vacuum filter)
	Sludge Lagoon
$\boxtimes$	Temporary Storage (< 2 years)
	Long Term Storage (>= 2 years)
	Methane or Biogas Recovery
⊠ by a	Other Treatment Process: <u>Sludge is dewatered in onsite haul off containers and disposed of registered transporter in the City of Temple landfill.</u>

#### C. Biosolids Management

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

#### **Biosolids Management**

Management Practice	Handler or Preparer Type	Bulk or Bag Container	Amount (dry metric tons)	Pathogen Reduction Options	Vector Attraction Reduction Option
Disposal in Landfill	On-Site Owner or Operator	Bulk		Class B: PSRP Aerobic Digestion	Choose an item.
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.

If "Other" is selected for Management Practice, please explain (e.g. monofill or transport to another WWTP): <u>Click to enter text.</u>

#### D. Disposal site

Disposal site name: Temple Recycling and Disposal Facility

TCEQ permit or registration number: <u>Ho692</u> County where disposal site is located: <u>Bell</u>

#### E. Transportation method

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

Name of the hauler: <u>City of Cameron</u> Hauler registration number: <u>22167</u>

Sludge is transported as a:

	Liqui	id □	semi-liquid $\square$	semi-solid	₹	solic	l 🗆	
Se	ction 1		rmit Authoriza structions Pag		wag	e Slud	ge I	Disposal
A	Donofici		uthorization			HAT BYREIGHT		
Α.				thorization fo	r lan	d applic	ation	of sewage sludge for
	beneficia		g perime include ad	tiioiizution io	1 1011	а аррис	ation	or sewage staage for
		Yes ⊠	No					
	If yes, a beneficia		equesting to contin	ue this author	izati	on to lar	ıd apj	ply sewage sludge for
		Yes □	No					
		orm No	npleted <b>Application</b> . <b>10451</b> ) attached to					Use of Sewage Sludge e instructions for
		Yes □	No					
B.	Sludge p	processi	ng authorization					
			g permit include au sal options?	thorization fo	r any	of the f	ollow	ving sludge processing,
	Sludg	ge Comp	oosting			Yes	$\boxtimes$	No
	Mark	eting an	d Distribution of sl	udge		Yes	$\boxtimes$	No
	Slud	ge Surfa	ce Disposal or Slud	ge Monofill		Yes	$\boxtimes$	No
	Temp	porary s	torage in sludge lag	goons		Yes	$\boxtimes$	No
	authoriz	ation, is		nestic Wastev	vatei	<b>Permit</b>	Appl	esting to continue this ication: Sewage Sludge application?
		Yes □	No					
Se	ction 1	1 Sex	wage Sludge La	goons (Ins	fru	rtions	Page	53)
			clude sewage sludg			CIOIIS		2.00)
20	☐ Yes							
If y			remainder of this s	section. If no, p	oroce	eed to Se	ction	12.
Α.	Location	ı inform	ation					
	The following maps are required to be submitted as part of the application. For each map, provide the Attachment Number.							
	• O	riginal (	General Highway (Co	ounty) Map:				
	Α	ttachme	ent: Click to enter to	ext.				
	• U	SDA Nat	tural Resources Cor	iservation Serv	rice S	Soil Map:		
	A	ttachme	ent: Click to enter to	ext.				

Federal Emergency Management Map:

Attachment: Click to enter text.

• Site map:

Attachment: Click to enter text.

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

$\square$ Ov	erlan a	designated	100-year	frequency	flood	plain
--------------	---------	------------	----------	-----------	-------	-------

- ☐ Soils with flooding classification
- ☐ Overlap an unstable area
- □ Wetlands
- □ Located less than 60 meters from a fault
- □ None of the above

Attachment: Click to enter text.

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

Click to enter text.			

#### B. Temporary storage information

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

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

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

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

Phosphorus, mg/kg: Click to enter text.

Potassium, mg/kg: Click to enter text.

pH, standard units: Click to enter text.

Ammonia Nitrogen mg/kg: Click to enter text.

Arsenic: <u>Click to enter text.</u>

Cadmium: <u>Click to enter text.</u> Chromium: Click to enter text.

Copper: Click to enter text.

Lead: Click to enter text.

Mercury: Click to enter text.

Molybdenum: Click to enter text.

Nickel: Click to enter text.

Selenium: Click to enter text. Zinc: Click to enter text. Total PCBs: Click to enter text. Provide the following information: Volume and frequency of sludge to the lagoon(s): Click to enter text. Total dry tons stored in the lagoons(s) per 365-day period: Click to enter text. Total dry tons stored in the lagoons(s) over the life of the unit: Click to enter text. C. Liner information Does the active/proposed sludge lagoon(s) have a liner with a maximum hydraulic conductivity of 1x10<sup>-7</sup> cm/sec? Yes □ No If yes, describe the liner below. Please note that a liner is required. Click to enter text. D. Site development plan Provide a detailed description of the methods used to deposit sludge in the lagoon(s): Click to enter text. Attach the following documents to the application.

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

Attachment: Click to enter text.

Copy of the closure plan

Attachment: Click to enter text.

Copy of deed recordation for the site

Attachment: Click to enter text.

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

Attachment: Click to enter text.

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

Attachment: Click to enter text.

	Attachment: Click to enter text.
E.	Groundwater monitoring
	Is groundwater monitoring currently conducted at this site, or are any wells available for groundwater monitoring, or are groundwater monitoring data otherwise available for the sludge lagoon(s)?
	□ Yes □ No
	If groundwater monitoring data are available, provide a copy. Provide a profile of soil types encountered down to the groundwater table and the depth to the shallowest groundwater as a separate attachment.
	Attachment: Click to enter text.
	ection 12. Authorizations/Compliance/Enforcement (Instructions Page 55)
Α.	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:
C	lick to enter text.
B.	Permittee enforcement status
	Is the permittee currently under enforcement for this facility?
	□ Yes ⊠ No
	Is the permittee required to meet an implementation schedule for compliance or enforcement?
	□ Yes ⊠ No
	<b>If yes</b> to either question, provide a brief summary of the enforcement, the implementation schedule, and the current status:

• Procedures to prevent the occurrence of nuisance conditions

Click to enter text.		

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

#### A. RCRA hazardous wastes

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

□ Yes ⊠ No

#### B. Remediation activity wastewater

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

□ Yes ⊠ No

#### C. Details about wastes received

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

Attachment: Click to enter text.

#### Section 14. Laboratory Accreditation (Instructions Page 56)

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

- · The laboratory is an in-house laboratory and is:
  - periodically inspected by the TCEQ; or
  - located in another state and is accredited or inspected by that state; or
  - o 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: Andrew Janek Title: Technical Director

Signature: Aller

# DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 2.0: RECEIVING WATERS

The following information is required for all TPDES permit applications.

Section 1. Domestic Drinking Water Supply (Instructions Page 64)
Is there a surface water intake for domestic drinking water supply located within 5 miles downstream from the point or proposed point of discharge?
□ Yes ⊠ No
If <b>no</b> , proceed it Section 2. <b>If yes</b> , provide the following:
Owner of the drinking water supply: Click to enter text.
Distance and direction to the intake: Click to enter text.
Attach a USGS map that identifies the location of the intake.
Attachment: Click to enter text.
Section 2. Discharge into Tidally Affected Waters (Instructions Page 64)
Does the facility discharge into tidally affected waters?
□ Yes ⊠ No
If <b>no</b> , proceed to Section 3. <b>If yes</b> , complete the remainder of this section. If no, proceed to Section 3.
A. Receiving water outfall
Width of the receiving water at the outfall, in feet: Click to enter text.
B. Oyster waters
Are there oyster waters in the vicinity of the discharge?
□ Yes □ No
If yes, provide the distance and direction from outfall(s).
Click to enter text.
C. Sea grasses
Are there any sea grasses within the vicinity of the point of discharge?
□ Yes □ No
If yes, provide the distance and direction from the outfall(s).
Click to enter text.

## Section 3. **Classified Segments (Instructions Page 64)** Is the discharge directly into (or within 300 feet of) a classified segment? Yes 🛛 No If yes, this Worksheet is complete. If no, complete Sections 4 and 5 of this Worksheet. Section 4. **Description of Immediate Receiving Waters (Instructions Page 65)** Name of the immediate receiving waters: Unnamed Tributary A. Receiving water type Identify the appropriate description of the receiving waters. X Stream Freshwater Swamp or Marsh Lake or Pond Surface area, in acres: Click to enter text. Average depth of the entire water body, in feet: Click to enter text. Average depth of water body within a 500-foot radius of discharge point, in feet: Click to enter text. Man-made Channel or Ditch Open Bay Tidal Stream, Bayou, or Marsh Other, specify: Click to enter text. B. Flow characteristics If a stream, man-made channel or ditch was checked above, provide the following. For existing discharges, check one of the following that best characterizes the area upstream of the discharge. For new discharges, characterize the area downstream of the discharge (check one). Intermittent - dry for at least one week during most years Intermittent with Perennial Pools - enduring pools with sufficient habitat to maintain significant aquatic life uses Perennial - normally flowing Check the method used to characterize the area upstream (or downstream for new dischargers). USGS flow records Historical observation by adjacent landowners Personal observation X Other, specify: Click to enter text.

C.	Downs	stream perennial confluences				
		e names of all perennial streams th tream of the discharge point.	nat joii	n the receiving water within three miles		
	Segme	ent No. 1213 Little River				
D.	Downs	stream characteristics				
		receiving water characteristics charge (e.g., natural or man-made dam		ithin three miles downstream of the ds, reservoirs, etc.)?		
		Yes ⊠ No				
If yes, discuss how.						
	Click t	o enter text.				
E.	Norma	l dry weather characteristics				
	Provid	e general observations of the water	r body	during normal dry weather conditions.		
		ream is completely dry at least one we ned within the creek. Photos are include				
	Date and time of observation: 7/19/24 / 8:00 AM					
	Was the water body influenced by stormwater runoff during observations?					
	□ Yes ⊠ No					
So	ction	5 Conoral Characteristic	cs of	the Waterbody (Instructions		
3e	ction	Page 66)	LS UI	the waterbody (mstructions		
A.	Upstre	am influences				
		mmediate receiving water upstream sced by any of the following? Check		ne discharge or proposed discharge site apply.		
		Oil field activities	$\boxtimes$	Urban runoff		
		Upstream discharges		Agricultural runoff		
		Septic tanks		Other(s), specify: Click to enter text.		

B.	3. Waterbody uses						
Observed or evidences of the following uses. Check all that apply.							
		Contact recreation					
		Irrigation withdrawal		Non-contact recreation			
		Fishing		Navigation			
		Domestic water supply		Industrial water supply			
	☐ Park activities ☐ Other(s), specify: <u>No uses expected. Very small tributary receiving runoff from 3-5 residents/businesses.</u>						
C.	Waterb	oody 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; was clarity exceptional						
	Natural Area: trees and/or native vegetation; some development evident (from fields, pastures, dwellings); water clarity discolored						
	<ul> <li>Common Setting: not offensive; developed but uncluttered; water may be colored or turbid</li> </ul>						
	<ul> <li>Offensive: stream does not enhance aesthetics; cluttered; highly developed; dumping areas; water discolored</li> </ul>						

# DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 4.0: POLLUTANT ANALYSIS REQUIREMENTS

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

This worksheet is not required minor amendments without renewal.

# Section 1. Toxic Pollutants (Instructions Page 78)

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

Date and time sample(s) collected: Click to enter text.

Existing Phase is permitted at 0.96 MGD and the approved Interim Phase II of 1.25 MGD will begin construction later this year. Worksheet 4.0 is not applicable due to current phase.

### Table 4.0(1) - Toxics Analysis

Composite □

Grab □

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acrylonitrile				50
Aldrin				0.01
Aluminum				2.5
Anthracene				10
Antimony				5
Arsenic				0.5
Barium				3
Benzene				10
Benzidine				50
Benzo(a)anthracene				5
Benzo(a)pyrene				5
Bis(2-chloroethyl)ether				10
Bis(2-ethylhexyl)phthalate				10
Bromodichloromethane				10
Bromoform				10
Cadmium				1
Carbon Tetrachloride				2
Carbaryl				5
Chlordane*				0.2
Chlorobenzene				10
Chlorodibromomethane				10

# DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 5.0: TOXICITY TESTING REQUIREMENTS

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

This worksheet is not required minor amendments without renewal.

# Section 1. Required Tests (Instructions Page 88)

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

7-day Chronic: <u>Click to enter text.</u> 48-hour Acute: <u>Click to enter text.</u>

Section 2.	Toxicity Reduction Evaluations (TREs)
Has this facilit performing a	y completed a TRE in the past four and a half years? Or is the facility currently TRE?
□ Yes □	] No
If yes, describ	e the progress to date, if applicable, in identifying and confirming the toxicant.
Click to enter t	ext.
Existing Phase	e is permitted at 0.96 MGD and the approved Interim Phase II of 1.25

Existing Phase is permitted at 0.96 MGD and the approved Interim Phase II of 1.25 MGD will begin construction later this year. Worksheet 5.0 is not applicable due to current phase.

# DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 6.0: INDUSTRIAL WASTE CONTRIBUTION

The following is required for all publicly owned treatment works.

# Section 1. All POTWs (Instructions Page 89)

### A. Industrial users (IUs)

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

in there are no motio, circui o (2020).
Categorical IUs:
Number of IUs: 6, See Attached List
Average Daily Flows, in MGD: $\underline{o}$
Significant IUs - non-categorical:
Number of IUs: <u>o</u>
Average Daily Flows, in MGD: o
Other IUs:
Number of IUs: o
Average Daily Flows, in MGD: o

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

### B. Treatment plant interference

instructions)?	In th	e past th	aree years,	has your POT	W experienc	red treatment	t plant interference	. (see
	instr	uctions)	?					

□ Yes ⊠ No	
------------	--

Click to onter toyt

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.

-	Chek to effer text.
1	
1	
1	
1	
Ì	
Ì	
1	
1	
1	
1	
1	
١	

C.	Treatment plant pass through					
	In the past three years, has your POTW experienced pass through (see instructions)?					
	□ Yes ⊠ No					
	If yes, identify the dates, duration, a description of the pollutants passing through the treatment plant, and probable cause(s) and possible source(s) of each pass through event. Include the names of the IUs that may have caused pass through.					
	Click to enter text.					
D.	Pretreatment program					
	Does your POTW have an approved pretreatment program?					
	□ Yes ⊠ No					
	If yes, complete Section 2 only of this Worksheet.					
	Is your POTW required to develop an approved pretreatment program?					
	□ Yes ⊠ No					
	If yes, complete Section 2.c. and 2.d. only, and skip Section 3.					
	<b>If no to either question above</b> , skip Section 2 and complete Section 3 for each significant industrial user and categorical industrial user.					
Se	ection 2. POTWs with Approved Programs or Those Required to Develop a Program (Instructions Page 90)					
Δ	Substantial modifications					
/ An	Have there been any <b>substantial modifications</b> to the approved pretreatment program					
	that have not been submitted to the TCEQ for approval according to 40 CFR §403.18?					
	□ Yes ⊠ No					
	<b>If yes</b> , identify the modifications that have not been submitted to TCEQ, including the purpose of the modification.					
	Click to enter text.					

	Have there been any <b>non-substantial modifications</b> to the approved pretreatment program that have not been submitted to TCEQ for review and acceptance?							
	□ Yes ⊠ No							
	If yes, identify all non-substantial modifications that have not been submitted to TCEQ, including the purpose of the modification.							
	Click to enter text.							
C.	Effluent paramete	ers above the MAL						
Tal	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.    Submit an attachment if necessary.							
Po	Pollutant Concentration MAL Units Date							
	*							
D.	). Industrial user interruptions							
	Has any SIU, CIU, or other IU caused or contributed to any problems (excluding interferences or pass throughs) at your POTW in the past three years?							
	□ Yes ⊠ No							
	<b>If yes</b> , identify the industry, describe each episode, including dates, duration, description of the problems, and probable pollutants.							
	Click to enter text.							

B. Non-substantial modifications

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

A. General information

	Company Name: <u>Click to enter text.</u>
	SIC Code: Click to enter text.
	Contact name: Click to enter text.
	Address: Click to enter text.
	City, State, and Zip Code: Click to enter text.
	Telephone number: <u>Click to enter text.</u>
	Email address: <u>Click to enter text.</u>
B.	Process information
	Describe the industrial processes or other activities that affect or contribute to the SIU(s) or CIU(s) discharge (i.e., process and non-process wastewater).
	Click to enter text.
C	Product and service information
C.	110 water unit der vice milionimition
<b>.</b> ,	Provide a description of the principal product(s) or services performed.
C.	
	Provide a description of the principal product(s) or services performed.
<b>C.</b>	Provide a description of the principal product(s) or services performed.
<b>C.</b>	Provide a description of the principal product(s) or services performed.
<b>C.</b>	Provide a description of the principal product(s) or services performed.
<b>.</b>	Provide a description of the principal product(s) or services performed.
	Provide a description of the principal product(s) or services performed.
	Provide a description of the principal product(s) or services performed.  Click to enter text.
	Provide a description of the principal product(s) or services performed.  Click to enter text.  Flow rate information
	Provide a description of the principal product(s) or services performed.  Click to enter text.  Flow rate information  See the Instructions for definitions of "process" and "non-process wastewater."
	Provide a description of the principal product(s) or services performed.  Click to enter text.  Flow rate information  See the Instructions for definitions of "process" and "non-process wastewater."  Process Wastewater:
	Provide a description of the principal product(s) or services performed.  Click to enter text.  Flow rate information  See the Instructions for definitions of "process" and "non-process wastewater."  Process Wastewater:  Discharge, in gallons/day: Click to enter text.
	Provide a description of the principal product(s) or services performed.  Click to enter text.  Flow rate information  See the Instructions for definitions of "process" and "non-process wastewater."  Process Wastewater:  Discharge, in gallons/day: Click to enter text.  Discharge Type:   Continuous   Batch   Intermittent
	Provide a description of the principal product(s) or services performed.  Click to enter text.  Flow rate information  See the Instructions for definitions of "process" and "non-process wastewater."  Process Wastewater:  Discharge, in gallons/day: Click to enter text.  Discharge Type:  Continuous  Batch  Intermittent  Non-Process Wastewater:

E.	Pretreatment standards
	Is the SIU or CIU subject to technically based local limits as defined in the <i>i</i> nstructions?
	□ Yes □ No
	Is the SIU or CIU subject to categorical pretreatment standards found in 40 CFR Parts 405-471?
	□ Yes □ No
	<b>If subject to categorical pretreatment standards</b> , indicate the applicable category and subcategory for each categorical process.
	Category: Subcategories: Click to enter text.
	Click or tap here to enter text. Click to enter text.
	Category: Click to enter text.
	Subcategories: Click to enter text.
	Category: Click to enter text.
	Subcategories: <u>Click to enter text.</u>
	Category: Click to enter text.
	Subcategories: <u>Click to enter text.</u>
	Category: <u>Click to enter text.</u>
	Subcategories: <u>Click to enter text.</u>
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
	<b>If yes,</b> identify the SIU, describe each episode, including dates, duration, description of problems, and probable pollutants.
	Click to enter text.

		City o	f Camer	on Wastewat	er Treatment Fa	acility			
COMPANY NAME	PHYSICAL ADDRESS	PHYSICAL CITY	STATE	PHYSICAL ZIP CODE	PHONE	CFR	SIC	SIC DESCRIPTION	CODE
L L SAMS INC	1203 INDUSTRIAL BLVD	CAMERON	TX	76520-1176	800-537-4723	433	25310200	CHURCH FURNITURE	SD
TEXWOOD LTD	1110 INDUSTRIAL BLVD	CAMERON	TX	76520-1177	888-388-3224	433	25319905	LIBRARY FURNITURE	SD
LONE STAR BEER DISTRIBUTOR	101 N BOWIE AVE	CAMERON	TX	76520-3239	254-697-3561	=	20829902	BEER (ALCOHOLIC BEVERAGE)	35
ROYAL SEATING LLC	1110 INDUSTRIAL BLVD	CAMERON	TX	76520-1177	877-437-8880	433	25220000	OFFICE FURNITURE, EXCEPT WOOD	SD

EPA Enforcement and Compliance	e History Online (ECHO)	Database	1
FacName	FacStreet	FacCity	Code
CHARLOTTE PIPE AND FOUNDRY	2700 N BLAKE AVE	CAMERON	SD
FIKES WHOLESALE INC	208 S CROCKETT	CAMERON	SD
MCKINNEY BODY SHOP	3800 N TRAVIS	CAMERON	SD

Hazardous Waste Generators - RCRAInfo Database

None

Toxics Release Inventory (TRI) Program Database

None

**Bulk Transporter Database** 

None

LL Sams, Texwood and Royal Seating were bought out by a company named AIS. It is believed they are discharging sanitary wastewater as the previous companies did.

40 CFR	Ch. 1 SubCh. N Designations
133	Metal finishing

=	CODES
	OD = does not discharge any wastewater
	D = discharges process wastewater
	SD = discharges sanitary wastewater
	NC = not connected to the city sewer
ſ	OD - direct discharger to waters of the State

Lone Star Beer is no longer in business.

# TCEQ ADMINISTRATIVE AND TECHNICAL REPORT EXHIBITS CITY OF CAMERON – PERMIT No. WQ0011318-001

- 1. Core Data Form
- 2. Administrative USGS Map Three (3) Mile Discharge Route
- 3. SPIF USGS Map One (1) Mile Discharge Route
- 4. Landowner Map
- 5. Landowner List
- 6. Landowner List Media (Labels)
- 7. Buffer Zone Map
- 8. Original Photographs and Location Map
- 9. Treatment Units
- 10. Process Flow Diagram
- 11. Facility Site Map
- 12. General Location Map
- 13. Cameron WWTP Service Area
- 14. Description of Need for Un-Built Phases
- 15. FEMA Map Panel ID 4804780002D & Elevations Exhibit
- 16. Effluent Testing Reports
- 17. TCEQ ePay Payment Vouchers (712704, 713705)

**TCEQ Use Only** 



# **TCEQ Core Data Form**

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

## **SECTION I: General Information**

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

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					3. Re	egulated Entity R	eference	Number (i)	fissued)	
CN 600344	162				Registry**	RN	101607828			
ECTIO	N II:	Custome	Inform	mation	1					
4. General Customer Information 5. Effective Date for C				ustomer Infe	ormation	Updates (mm/de	d/yyyy)			
New Custo	mer		Update to Cust	omer Informa	ation	Cha	inge in Regulated E	ntity Own	ership	1
☐Change in l	egal Name (	Verifiable with the T	exas Secretary	of State or Tex	xas Comptroll	er of Publ	ic Accounts)			
The Custome	r Name su	bmitted here may	be updated	automatical	lly based on	what is	current and activ	e with the	he Texas Sei	cretary of State
		oller of Public Acco		- acomacical	., Duseu on	Triat is	carrent and activ	C William	Textus set	stary of state
6. Customer	Legal Nam	e (If an individual, p	rint last name f	first: eg: Doe, .	John)	If new Customer, enter previous Customer below:				
City of Camero	on									
7. TX SOS/CPA Filing Number 8. TX State Tax				e Tax ID (11 c	ligits)		9. Federal Tax ID  (9 digits)  TX0053651			SUPPLIES OF THE PROPERTY OF TH
11. Type of C	Customer:	Corpor	ation			☐ Indiv	idual	Partne	ership: 🔲 Ge	eneral 🔲 Limited
Government:	City 🔲 C	County 🔲 Federal 🗀	Local 🗌 Stat	te 🔲 Other		Sole I	Proprietorship	Ot	her:	
12. Number	of Employe	ees			1172-1721		13. Independe	ently Ow	ned and Op	perated?
□ 0-20   🛚	21-100	101-250 25:	L-500 🔲 50:	1 and higher			⊠ Yes	□ No		
14. Custome	r Role (Pro	posed or Actual) – as	it relates to the	e Regulated E	ntity listed on	this form	. Please check one	of the follo	owing	
⊠Owner ☐Occupation	al Licensee	Operator Responsible P	-	wner & Opera VCP/BSA App			Othe	r:		
	P. O. Box	833								
15. Mailing	F. O. BUX									
	City	Cameron		State	TX	ZIP	76520		ZIP + 4	0833
Address:	City									

TCEQ-10400 (11/22) Page 1 of 3

( 254 ) 697-6646		( 254 ) 697-3040
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# **SECTION III: Regulated Entity Information**

21. General Regulated Entity Information (If 'New Regulated Entity" is selected, a new permit application is also required.)

New Regulated Entity	Update to	Regulated Enti	ty Name 🔲 Update	e to Regulate	d Entity Inforn	nation			
The Regulated Entity Na as Inc, LP, or LLC).	me submitte	d may be upo	lated, in order to m	eet TCEQ C	ore Data Sta	ndards (rem	noval of o	rganization	al endings such
22. Regulated Entity Na	me (Enter nam	ne of the site wh	nere the regulated acti	ion is taking <sub>l</sub>	olace.)				
Cameron Waste Water Trea	tment Plant						-		
23. Street Address of the Regulated Entity:									
(No PO Boxes)	City		State		ZIP			ZIP + 4	
24. County									
		If no St	reet Address is prov	vided, fields	25-28 are re	equired.	-		
25. Description to Physical Location:	White the state of		SOUTH-SOUTHEAST O TERSECTION OF OAK S			5 190 AND 77,	SH 36 AN	D ADAMS ST;	AND APPROX ONE
26. Nearest City		Z Jak	3 TE 198			State	- 199	Nea	rest ZIP Code
Cameron						TX		7652	0
Latitude/Longitude are used to supply coordina	A STATE OF THE PARTY OF THE PAR					ards. (Geoco	ding of t	he Physical	Address may be
27. Latitude (N) In Decin	nal:	30.8450		28.	Longitude (\	W) In Decim	al:	96.9697	
Degrees	Minutes		Seconds	Deg	grees	Mir	nutes		Seconds
30		50	41.86		96		58		0.28
29. Primary SIC Code (4 digits)		Secondary SI	C Code	31. Primary NAICS Code (5 or 6 digits)  32. Seconda (5 or 6 digits)				CS Code	
4952	N/A	,		22132			N/A		
33. What is the Primary	Business of t	his entity?	(Do not repeat the SIC	or NAICS des	cription.)			<del></del>	
Wastewater Treatment Faci	lity								
34. Mailing	P. O. Box 8	33							
Address:	City	Cameron	State	TX	ZIP	76520		ZIP + 4	833
35. E-Mail Address:						(B*)			1
36. Telephone Number			37. Extension o	r Code	38. 1	Fax Number	(if applica	ble)	
( 254 ) 697-6646					( 254	) 697-3040			

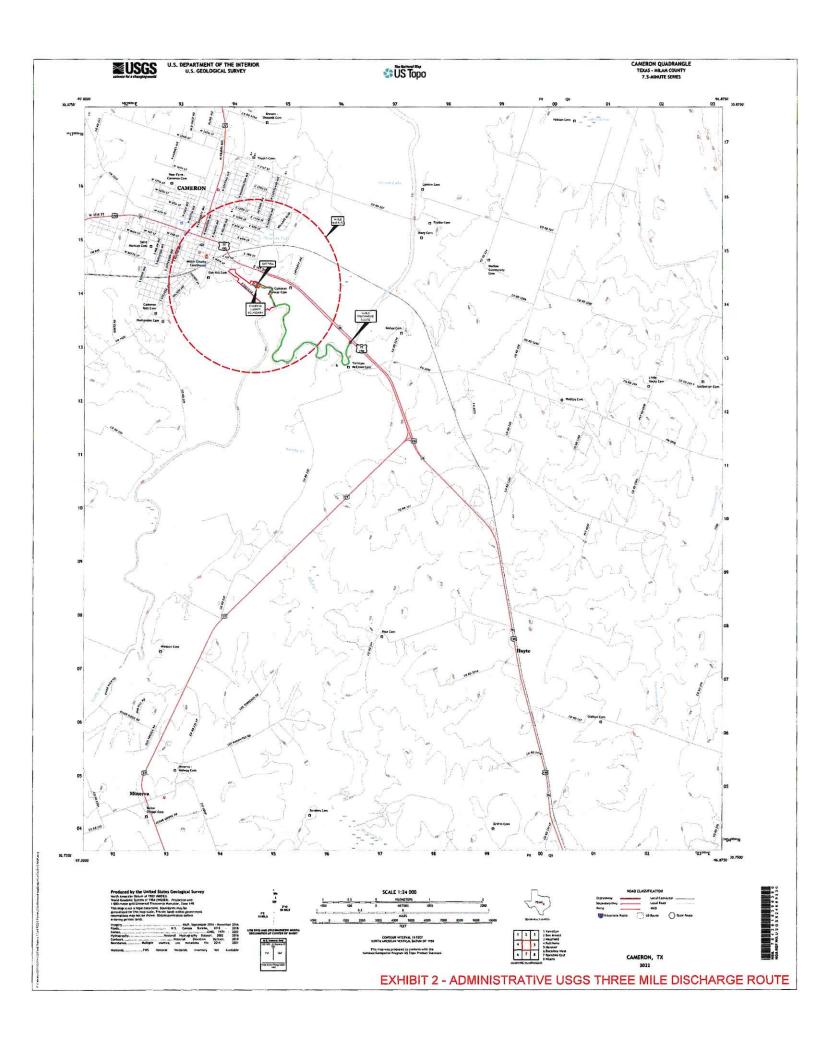
**39. TCEQ Programs and ID Numbers** Check all Programs and write in the permits/registration numbers that will be affected by the updates submitted on this form. See the Core Data Form instructions for additional guidance.

TCEQ-10400 (11/22) Page 2 of 3

☐ Dam Safety	-7	Districts	Edwards Aquifer	1 ( )			
					Emissions Inv	entory Air	☐ Industrial Hazardous Was
Municipal Solid V	Waste	New Source	OSSF		Petroleum St	orage Tank	□ PWS
Sludge		Storm Water	☐ Title V Air		Tires		Used Oil
Voluntary Cleanu	ıp	<b>⊠</b> Wastewater	☐ Wastewater Agricul	Iture	Water Rights		Other:
120000		WQ0010004001					
CTION I	V: Pr	eparer In	<u>formation</u>				
. Name: Bran	ndon White			41. Title:	Public Worl	s Director	
. Telephone Num	ber	43. Ext./Code	44. Fax Number	45. E-Mail /	Address		
54 ) 667-6646			( 254 ) 667-3040	bwhite@cam	nerontexas.ne	t	
By my signature bel	low, I certify pehalf of the	e entity specified in Se	25 ASS 25 25 25	quired for the up	odates to the	ID numbers id	e, and that I have signature authori entified in field 39.
ompany: City of Cameron				Job Title:	Public Wo	rks Director	T-
Ime (In Print): BRANDON WHITE						Phone:	( 254 ) 667- <b>6646</b>
gnature:	Fund	alle				Date:	7/19/2024

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

TCEQ-10400 (11/22) Page 3 of 3



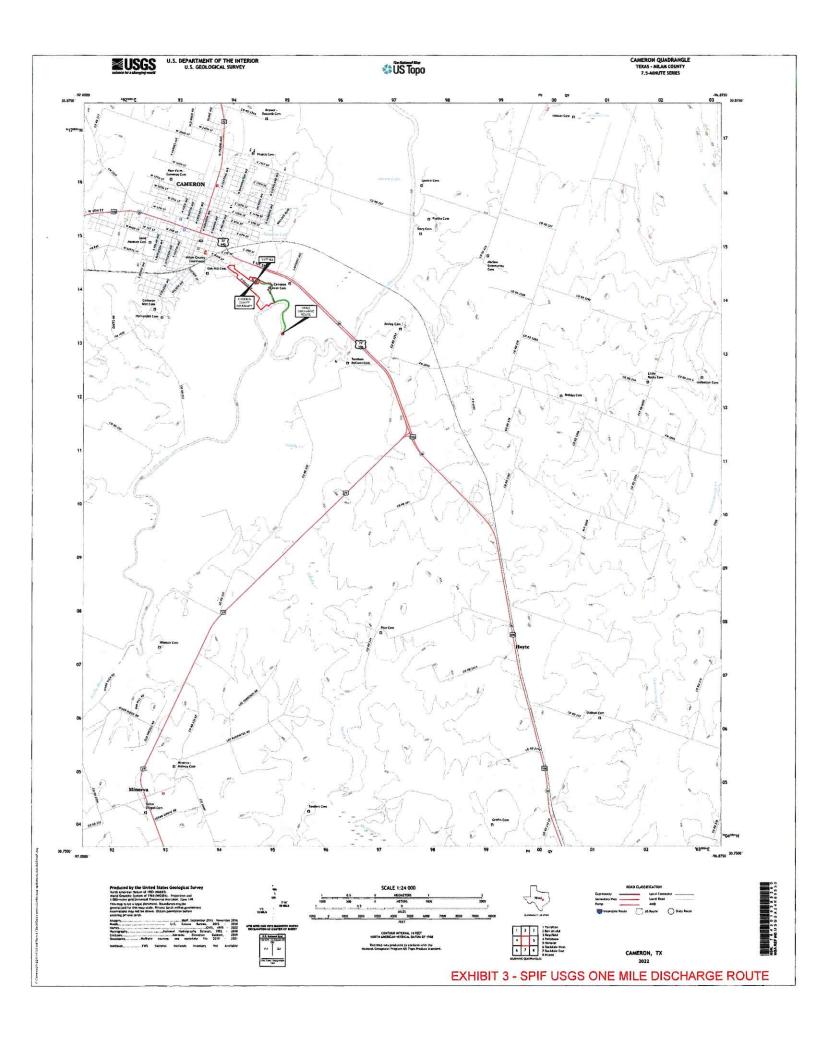


		Exhibit No. 5 - Adjacent	0.5 - Adjacent Property Owner List			
No.	Property ID	Property ID Property Owner	Mailing Address	City	State	Zipcode
_	13495	WANBOB LC	901 CADY RD	ROCKDALE	ΧT	76567
2	16670	B&G RANCH PROPERTIES LTD ATTN: GLENN HERZOG	PO BOX 1040	PFLUGERVILLE	XT	78691
,,	11713	MATYASTIK FRANCES & ROBERT ESTATE ATT: DANA	alo alogatava zocc	NAVAG	}	00022
c	CT/TT	HORTON & ARLENE BROLL	2307 BASTROP CIR	DATAIN	<u>&lt;</u>	000//
4	62262	CITY OF CAMERON	PO BOX 833	CAMERON	XT	76520
5	68113	CITY OF CAMERON	PO BOX 833	CAMERON	XT	76520
9	11640	PIERCE DEBORAH	700 HILL TRAIL DR., UNIT 305	EULESS	ΧT	76039
7	11558	PRICE FRANCES	908 E GILLIS AVE	CAMERON	ΧT	76520
8	10355	CITY OF CAMERON	PO BOX 833	CAMERON	TX	76520
6	12253	FIKES WHOLESALE INC	PO BOX 1287	TEMPLE	ΤX	76503
10	58374	MIRANDA CONSUELO S	1412 FM 845	CAMERON	XT	76520
11	12581	MIRANDA CONSUELO S	1412 FM 845	CAMERON	ΧŢ	76520
12	13665	MIRANDA CONNIE JO	1412 FM 845	CAMERON	Ϋ́	76520

WANBOB LC 901 CADY RD ROCKDALE, TX 76567

HERZOG GLENN & BRITTA PO BOX 1040 PFLUGERVILLE, TX 78691

MATYASTIK FRANCES & ROBERT 2307 BASTROP CIRCLE BRYAN, TX 77808

CITY OF CAMERON PO BOX 833 CAMERON, TX 76520 CITY OF CAMERON PO BOX 833 CAMERON, TX 76520 PIERCE DEPORAH 700 HILL TRAIL DRIVE UNIT 305 EULESS, TX 76039

PRICE FRANCES 908 E GILLIS AVE CAMERON, TX 76520 CITY OF CAMERON PO BOX 833 CAMERON, TX 76520 FIKES WHOLESALE INC PO BOX 1287 TEMPLE, TX 76503

MIRANDA CONSUELO S 1412 FM 845 CAMERON, TX 76520 MIRANDA CONSUELO S 1412 FM 845 CAMERON, TX 76520 MIRANDA CONNIE JO 1412 FM 845 CAMERON, TX 76520

End Set No. 1 Begin Set No. 2 WANBOB LC 901 CADY RD ROCKDALE, TX 76567 HERZOG GLENN & BRITTA PO BOX 1040 PFLUGERVILLE, TX 78691

MATYASTIK FRANCES & ROBERT 2307 BASTROP CIRCLE BRYAN, TX 77808 CITY OF CAMERON PO BOX 833 CAMERON, TX 76520 CITY OF CAMERON PO BOX 833 CAMERON, TX 76520

PIERCE DEPORAH 700 HILL TRAIL DRIVE UNIT 305 EULESS, TX 76039 PRICE FRANCES 908 E GILLIS AVE CAMERON, TX 76520 CITY OF CAMERON PO BOX 833 CAMERON, TX 76520

FIKES WHOLESALE INC PO BOX 1287 TEMPLE, TX 76503 MIRANDA CONSUELO S 1412 FM 845 CAMERON, TX 76520 MIRANDA CONSUELO S 1412 FM 845 CAMERON, TX 76520

MIRANDA CONNIE JO 1412 FM 845 CAMERON, TX 76520 End Set No. 2 Begin Set No. 3 WANBOB LC 901 CADY RD ROCKDALE, TX 76567

HERZOG GLENN & BRITTA PO BOX 1040 PFLUGERVILLE, TX 78691 MATYASTIK FRANCES & ROBERT 2307 BASTROP CIRCLE BRYAN, TX 77808 CITY OF CAMERON PO BOX 833 CAMERON, TX 76520 CITY OF CAMERON PO BOX 833 CAMERON, TX 76520 PIERCE DEPORAH
700 HILL TRAIL DRIVE UNIT 305
EULESS, TX 76039

PRICE FRANCES 908 E GILLIS AVE CAMERON, TX 76520

CITY OF CAMERON PO BOX 833 CAMERON, TX 76520 FIKES WHOLESALE INC PO BOX 1287 TEMPLE, TX 76503 MIRANDA CONSUELO S 1412 FM 845 CAMERON, TX 76520

MIRANDA CONSUELO S 1412 FM 845 CAMERON, TX 76520 MIRANDA CONNIE JO 1412 FM 845 CAMERON, TX 76520 End Set No. 3 Begin Set No. 4

WANBOB LC 901 CADY RD ROCKDALE, TX 76567 HERZOG GLENN & BRITTA PO BOX 1040 PFLUGERVILLE, TX 78691 MATYASTIK FRANCES & ROBERT 2307 BASTROP CIRCLE BRYAN, TX 77808

CITY OF CAMERON PO BOX 833 CAMERON, TX 76520 CITY OF CAMERON PO BOX 833 CAMERON, TX 76520

PIERCE DEPORAH
700 HILL TRAIL DRIVE UNIT 305
EULESS, TX 76039

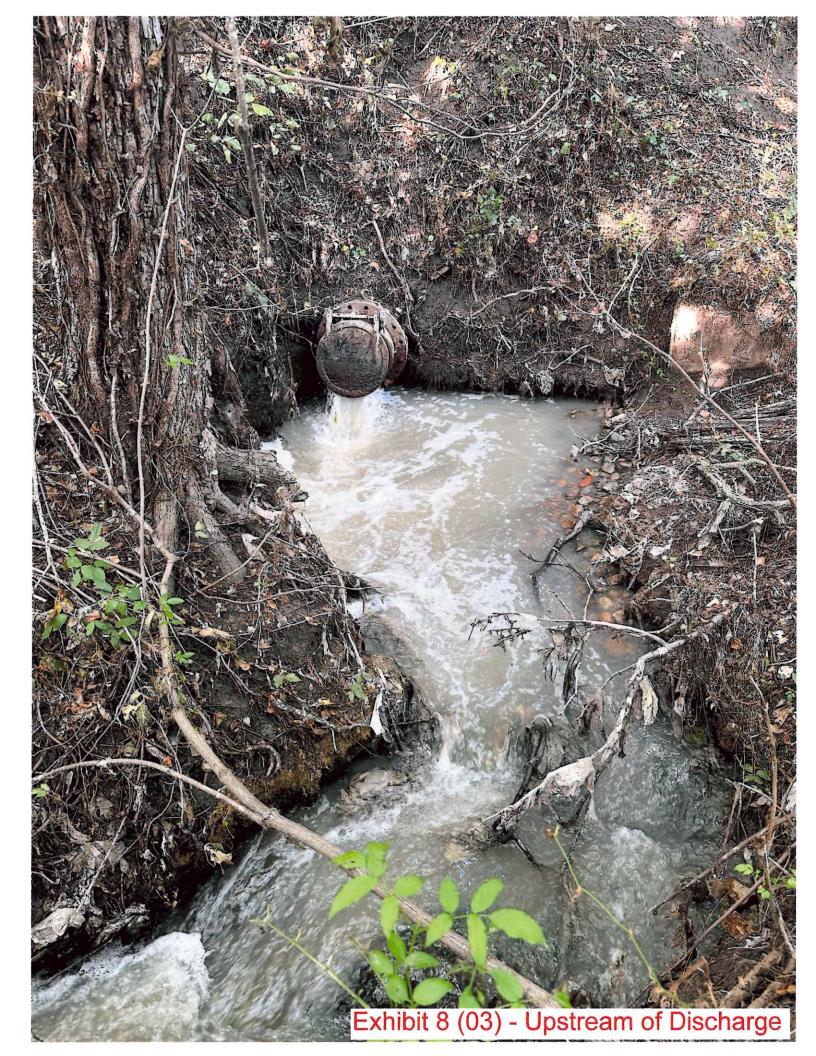
PRICE FRANCES 908 E GILLIS AVE CAMERON, TX 76520

CITY OF CAMERON PO BOX 833 CAMERON, TX 76520 FIKES WHOLESALE INC PO BOX 1287 TEMPLE, TX 76503

MIRANDA CONSUELO S 1412 FM 845 CAMERON, TX 76520 MIRANDA CONSUELO S 1412 FM 845 CAMERON, TX 76520 MIRANDA CONNIE JO 1412 FM 845 CAMERON, TX 76520

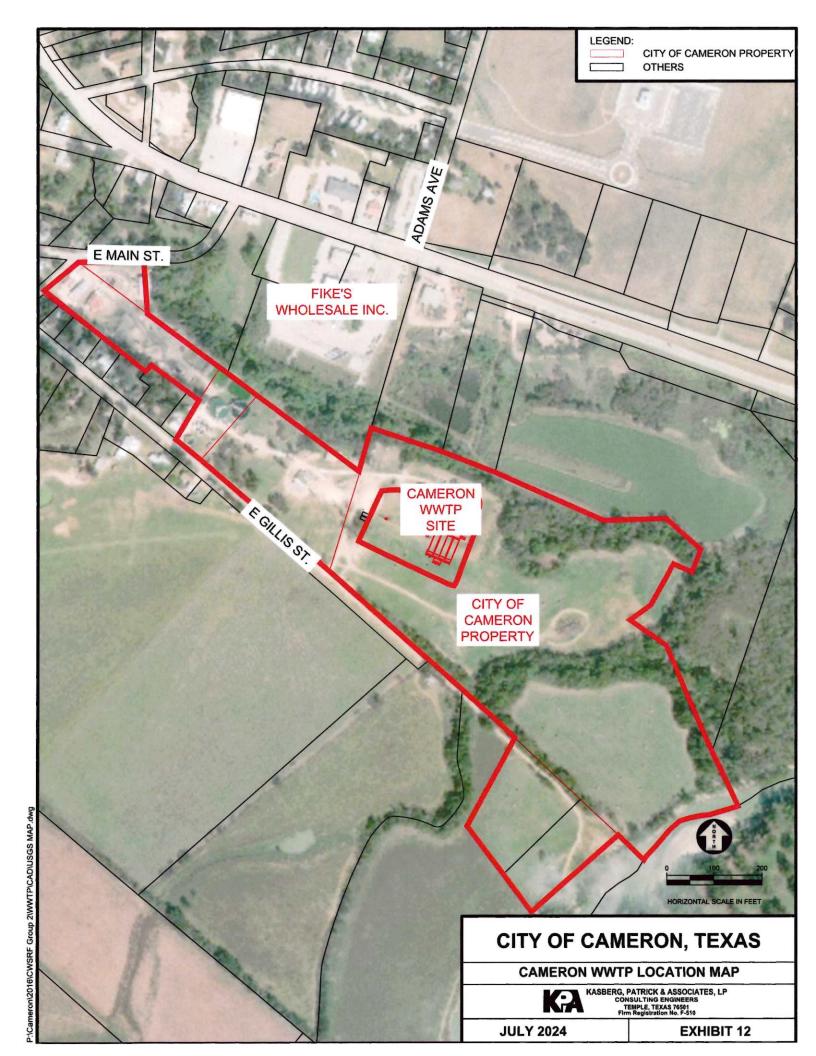


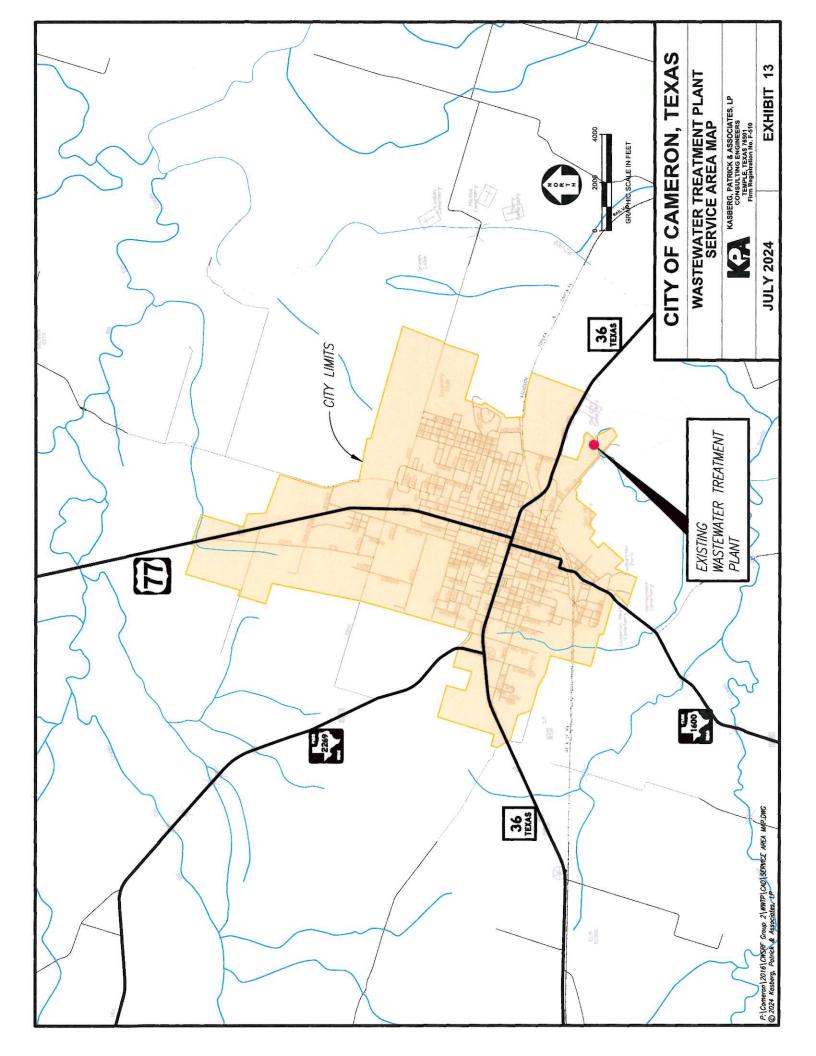




# EXHIBIT NO. 9 – TCEQ DOMESTIC TECHNICAL REPORT 1.0 CITY OF CAMERON – PERMIT No. WQ0010004-001

	TYPE OF UNIT	NUMBER OF UNITS	SIZE (WxLxD)
Existin	g/Interim Phase I		
	Manual Screen	1	2.40 MGD Capacity Each
	Flow Equalization Basin	1	70' x 90' x 10'
	Aeration Basin	1	70' Diameter, 8'-6" SWD
To Be Removed	Clarifiers	2	40' Diameter, 10'-6" SWD
From Service	Chlorine Contact Basins	2	N/A – To be Removed
	Aerobic Digesters	2	30' Diameter, 15' SWD
	Sludge Dewatering Container	s 2	20 Cubic Yards
Interir	n Phase II Improvements		
	Headworks/Influent Lift Station	on 1	29' L x 14' W x 16' SWD
	Flow Equalization Basin	1	70' Diameter, 8'-6" SWD
	Continuous Flow SBR	1	133' L x 105' W x 20' SWD
	Blowers	5	25 HP
	Aerobic Digesters (Rehab)	2	30' Diameter, 15' SWD
	Vortex Grit Removal	1	12' Diameter, 5 MGD Unit
	Chlorine Contact Basins	2	32.5' L x 25.6' W x 16' SWD
	Effluent Aeration	1	40' L x 6' W





# EXHIBIT 14 - TCEQ TECHNICAL REPORT 1.0 CITY OF CAMERON – PERMIT No. WQ0011318-001 DESCRIPTION OF NEED FOR UN-BUILT PHASES

The proposed Interim Phase II will increase the capacity of the WWTP from 0.96 MGD to 1.25 MGD. While it has not reached the mandatory TCEQ triggers (75% and 90%) for expansion due to flow conditions, portions of the infrastructure are currently failing and endangering the City's ability to meet effluent discharge regulations. The following is a summary of the proposed Interim Phase II improvements and description of need for these WWTP unbuilt phase:

- 1. Increase in WWTP capacity from 0.96 MGD (2.4 MGD Peak) to a design flow of 1.25 MGD (5.0 MGD Peak).
  - Per Region G Water Projections listed below, the proposed improvements are designed to meet a 2040 population of 6,481.

Table 2 2016 Region G Water Projections

	2010	ragion o viator i rojectione	
Year	<b>Population</b>	Per Capita Use (GPCD)	Water Use (MGD)
2000	5,634	n/a	n/a
2010	5,552	216	1.20
2020	4,884	206	1.21
2030	6,233	202	1.26
2040	6,481	198	1.28

- The existing biological treatment cannot treat the projected biological design flow. The circular construction and limited footprint does not allow for modular expansion. Due to this and constraints from other treatment units, the proposed un-built phase consists of a continuous flow SBR (4 Basins) to provide this treatment capacity.
- Headworks Fine Screens and Bypass Influent flow currently passes through a manually cleaned coarse bar screen. This allows a great deal of debris to bypass the screen causing issues at the influent pump station and in downstream treatment units.
- 3. Submersible Influent Pump Station and Increased Pump Capacity The current influent pump station is a wet well / dry pit configuration. However, the dry pit is not readily accessible and is difficult to work in. Likewise, there have been considerable issues with pumps, including the emergency installation of additional pumps earlier this year when 2 of the 3 influent pumps were not operational.

- 4. Equalization Basin The existing WWTP does have a Contact Stabilization Biological Treatment Unit for this purpose. However, proposed improvements replaces blowers and rehabilitate existing basin for this purpose.
- Chlorine Contact Basin, Storage and Feed Existing basin, storage and feed is nearing the end of its useful capacity. Existing basins are deteriorating and does not have enough length for sufficient contact for future flows.
- 6. Cascade Aeration Unit Due to the height of the Clarifiers, there are instances where the water level outside of the berm is higher than that of the effluent outfall and there is not sufficient head to allow effluent flow to exit the treatment facility. With the new SBR units, these improvements will help achieve requirement DO levels under future conditions.

Additionally, we have also attached the TCEQ approval letter from August 9, 2023 for the proposed infrastructure.

Jon Niermann, Chairman
Emily Lindley, Commissioner
Bobby Janecka, Commissioner
Kelly Keel, Interim Executive Director



### TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

August 9, 2023

Thomas D. Valle, P.E. Kasberg, Patrick & Associates, LP 19 North Main Street Temple, TX 76501

Re:

City of Cameron

Cameron WWTP Modifications & Improvements

Permit No. WQ0010004-001 73727

WWPR Log No. 0723/054

CN600344162, RN101607828

Milam County

Dear Mr. Valle:

Texas Commission on Environmental Quality (TCEQ) received the project summary transmittal letter dated July 14, 2023, and the subsequent submittal of additional project information.

The rules which regulate the design, installation and testing of domestic wastewater projects are found in 30 TAC, Chapter 217, of the Texas Commission on Environmental Quality (TCEQ) rules titled, Design Criteria for Wastewater Systems.

The proposed improvements will bring the City of Cameron Wastewater Treatment Plant (WWTP) to the permitted Final phase annual average flow of 1.25 MGD. The plant is regulated by TPDES Permit No. WQ0010004001, which allows a Final phase annual average flow of 1.25 MGD and effluent limits of 10 mg/L of CBOD5, 15 mg/L of TSS, 2 mg/L of Ammonia Nitrogen, and 126 CFU or MPN of *E. coli* per 100 mL.

The proposed improvements will include the following infrastructure:

- 1.25 MGD Design Capacity
- 5.0 MGD peak Capacity
- Headworks
  - o Fine Screen
  - Bypass
- Influent Pump Station
  - o Four (4) submersible pumps, 4,800 gpm total capacity/3,600 gpm (5 MGD) rated capacity.
  - o 20 HP each.
- Continuous flow SBR
  - o Four (4) basins, each 25' Wide x 106' Long (16' Pre-React Zone, 90' ICEAS Basin) x 18' SWD.
  - o Three (3) 50 HP Blowers (2 duty, 1 standby).
    - P.O. Box 13087 Austin, Texas 78711-3087 512-239-1000 tceq.texas.gov

Thomas D. Valle, P.E. Page 2 August 9, 2023

- Sanitaire membrane Diffusers
- EQ Basin
  - Existing Contact Stabilization Biological Treatment Unit to be utilized for equalization. The existing blowers will be utilized/replaced, and the transfer pump will be replaced.
  - o 10 HP transfer pump
  - o 25 HP blower
- Chlorine Contact Basins
  - o Two (2) Basins, each 23' x 16' x 14' SWD, total volume of 10,304 cu ft.
  - Plant Water Pumps
  - o Cascade Aeration
  - o Outfall
- Chlorine Storage and Feed
- Dechlorination Storage and Feed
- Interior Plant Drain Water Pump Station.

The following existing treatment units will be removed from service:

- Manual Bar Screen
- Influent Pump Station
- Clarifiers
- Chlorine Contact Basins
- Sludge Drying Beds (previously demolished replaced with sludge dewatering trailers).

The following treatment units will remain as they currently are:

- Aerobic Digesters
- Sludge Holding Tank

TCEQ's review indicated that the documents provided are in general compliance with the applicable minimum standards as set forth in 30 TAC Chapter 217, Design Criteria for Wastewater Systems. On that basis, the proposed project is conditionally approved for construction. The condition is that all work be completed to the requirements of Chapter 217.

You must keep certain materials on file for the life of the project and provide them to TCEQ upon request. These materials include an engineering report, test results, a summary transmittal letter, and the final version of the project plans and specifications. These materials shall be prepared and sealed by a Professional Engineer licensed in the State of Texas and must show substantial compliance with Chapter 217. All plans and specifications must conform to any waste discharge requirements authorized in a permit by the TCEQ. Certain specific items which shall be addressed in the engineering report are discussed in §217.6(d). Additionally, the engineering report must include all constants, graphs, equations, and calculations needed to show substantial compliance with Chapter 217. The items which shall be included in the summary transmittal letter are addressed in §217.6(d)(1)-(9).

Thomas D. Valle, P.E. Page 3 August 9, 2023

Any deviations from Chapter 217 shall be disclosed in the summary transmittal letter and the technical justifications for those deviations shall be provided in the engineering report. Any deviations from Chapter 217 shall be based on the best professional judgement of the licensed professional engineer sealing the materials and the engineer's judgement that the design would not result in a threat to public health or the environment.

Within 60 days of the completion of construction, an appointed engineer shall notify both the Wastewater Permits Section of the TCEQ and the appropriate Region Office of the date of completion. The engineer shall also provide written certification that all construction, materials, and equipment were substantially in accordance with the approved project, the rules of the TCEQ, and any change orders filed with the TCEQ. All notifications, certifications, and change orders must include the signed and dated seal of a Professional Engineer licensed in the State of Texas.

Please be reminded of 30 TAC §217.7(a) of the rules which states, "Approval given by the executive director or other authorized review authority does not relieve an owner of any liability or responsibility with respect to designing, constructing, or operating a collection system or treatment facility in accordance with applicable commission rules and the associated wastewater permit".

If you have any questions, or if we can be of any further assistance, please call me at (512) 239-

4924.

Sincerely

Baltazar Lucero-Ramirez, P.E.

Wastewater Permits Section (MC 148)

Water Quality Division

Texas Commission on Environmental Quality

cc: TCEQ, Region 9 Office

BIO CHEM LAB, INC. PHONE: 254.829.8001 FAX: 254.829.8013

4751 TOKIO RD. WEST, TX 76691

ANALYTICAL REPORT

**CLIENT IDENTIFICATION INFORMATION:** 

CITY OF CAMERON P O BOX 833

CAMERON, TX 76520

CLIENT CONTACT: BRANDON WHITE

JUNE 2024 - CAMERON

REPORT ID: CAM-071024

LAB CONTACT: SHAY OCHOA
REPORT DATE: 7.10.24

EFFLUENT

#### FIELD DATA / SAMPLE DESCRIPTION

Collection Point		EFFLUENT	EFFLUENT	EFFLUENT	EFFLUENT
Date/ Time Collected		6.4.24 / 09:47-11:48	6.12.24 / 07:28-09:29	6.18.24 / 09:54-11:55	6.25.24 / 09:06-11:07
Date/ Time Received by Lab		6.5.24 / 16:15	6.12.24 / 17:05	6.19.24 / 17:26	6.26.24 / 16:25
Laboratory Sample ID		13241-24	13885-24	14501-24	15078-24
Sampling Description/Procedure		Client Collected	Client Collected	Client Collected	Client Collected
Sample Matrix		Aqueous-NPW	Aqueous-NPW	Aqueous-NPW	Aqueous-NPW
Sample Type		Composite	Composite	Composite	Composite
Collector		A. Allen	A. Allen	A. Allen	A. Allen
pH, SU	SM 4500-H+B	6.9	6.7	7.0	7.0
Dissolved Oxygen, mg/L	SM 4500 O G	2.0	2.0	2.0	3.1
Temperature, C		26.0	26.5	27.1	28.3
Date / Time Analyzed	(Field Analysis)	6.5.24 / 12:04	6.12.24 / 12:09	6.19.24 / 12:46	6.26.24 / 12:01
Analyst Initials		CR	CR	CR	CR

#### PARAMETER / UNIT / METHOD

BOD <sub>5,</sub> mg/L	SM 5210 B	28.	Q 24.	6.	13.
Reporting Limit, mg/L		2.	2.	2.	2.
Dilution Factor		1	1	1	1
Date / Time Analyzed	_	6.6.24 / 10:00	6.13.24 / 10:00	6.20.24 / 09:30	6.27.24 / 10:00
Analyst Initials		LD	LD	LD	LD

TSS, mg/L	SM 2540 D	48.	30.	28.	20.
Reporting Limit, mg/L		2.	2.	2.	2.
Dilution Factor		1	1	1	1
Date / Time Analyzed		6.6.24 / 09:20	6.13.24 / 09:30	6.20.24 / 09:30	6.27.24 / 09:30
Analyst Initials		мн	мн	мн	мн

BIO CHEM LAB, INC. PHONE: 254.829.8001 F

4751 TOKIO RD. WEST, TX 76691

FAX: 254.829.8013

ANALYTICAL REPORT

**CLIENT IDENTIFICATION INFORMATION:** 

CITY OF CAMERON P O BOX 833

CAMERON, TX 76520

CLIENT CONTACT: BRANDON WHITE

JUNE 2024 - CAMERON

REPORT ID: CAM-071024

LAB CONTACT: SHAY OCHOA
REPORT DATE: 7.10.24

INFLUENT

#### FIELD DATA / SAMPLE DESCRIPTION

Collection Point		INFLUENT	INFLUENT	INFLUENT	INFLUENT
Date/ Time Collected		6,4,24 / 11:58	6.12.24 / 09:58	6.18.24 / 12:05	6.25.24 / 11:16
Date/ Time Received by Lab		6.5.24 / 16:15	6.12.24 / 17:05	6.18.24 / 17:26	6.26.24 / 16:25
Laboratory Sample ID		13240-24	13884-24	14500-24	15077-24
Sampling Description/Procedure		Client Collected	Client Collected	Client Collected	Client Collected
Sample Matrix		Aqueous-NPW	Aqueous-NPW	Aqueous-NPW	Aqueous-NPW
Sample Type		Grab	Grab	Grab	Grab
Collector		A. Allen	A. Allen	A. Allen	A. Allen
pH, SU	SM 4500-H+B	7.0	6.3	7.0	7.0
Temperature, C		25.6	26.1	26.9	27.5
Date / Time Analyzed	(Field Analysis)	6.5.24 / 11:59	6.12.24 / 12:04	6.19.24 / 12:40	6.26.24 / 11:56
Analyst Initials		CR	CR	CR	CR

#### PARAMETER / UNIT / METHOD

BOD <sub>5,</sub> mg/L	SM 5210 B	166.	Q 150.	77.	164.
Reporting Limit, mg/L	L	2.	2.	2.	2.
Dilution Factor	<u></u>	1	1	1	1
Date / Time Analyzed		6.6.24 / 10:00	6.13.24 / 10:00	6.20.24 / 09:30	6.27.24 / 10:00
Analyst Initials		LD	LD	LD	LD

TSS, mg/L	SM 2540 D	216.	167.	106.	121.
Reporting Limit, mg/L		2.	2.	2.	2.
Dilution Factor		1	1	1	1
Date / Time Analyzed		6.6.24 / 09:20	6.13.24 / 09:30	6.20.24 / 09:30	6.27.24 / 09;30
Analyst Initials		мн	мн	мн	мн

#### ANALYTICAL NOTES, INTERPRETATIONS, METHOD DEVIATIONS OR ENVIRONMENTAL CONDITIONS:

pH and Dissolved Oxygen readings taken on field grabs by laboratory personnel while on-site at the facility.

#### STATEMENT OF COMPLIANCE/NON-COMPLIANCE:

The above analytical data was derived from submitted samples that have met all established acceptance criteria, unless otherwise qualified, and are compliant with the laboratory's Quality System. The Director of Operations or designee has authorized the release of this report. The results contained herein relate only to the Laboratory Sample ID(s) documented above. This analytical test report may not be reproduced except in full, without the written approval of the laboratory.

Quality Assurance / Quality Control Data associated with results within this report are documented in the attached QA/QC Report.

Please contact 254.829.8001 with any questions or concerns.

A. Shay Ochoa, Senior Environmental Project Manager Bio Chem Lab. Inc.



BIO CHEM LAB, INC. PHONE: 254.829.8001 FAX: 254.829.8013
4751 TOKIO RD. WEST, TX 76691 ANALYTICAL REPORT

#### **CLIENT IDENTIFICATION INFORMATION:**

CITY OF CAMERON
P O BOX 833
CAMERON, TX 76520
CLIENT CONTACT: BRANDON WHITE

JUNE 2024 - CAMERON

REPORT ID: CAM-071024

LAB CONTACT: SHAY OCHOA

REPORT DATE: 7.10.24

QC SUMMARY

#### BIOCHEMICAL OXYGEN DEMAND

SM 5210 B

SETUP DATE	SETUP ID	BATCH ID		
6.6.24	B-060624-04	B-060624-04-02		
DUPLICATE	RESULT 1	RESULT 2	% DEV	
13223-24	72	68		2.9
13240-24	154	164		3.1
BOD-BLANK	CBOD-BLANK	LCS -GGA	LCS-CGGA	
0.13	0.06	187	Q2 160	

SETUP DATE	SETUP ID	BATCHID		
6.13.24	B-061324-10	B-061324-10-02		
DUPLICATE	RESULT 1	RESULT 2	% DEV	
13921-24	129	141		4.4
13929-24	113	128		6.2
BOD-BLANK	CBOD-BLANK	LCS -GGA	LCS-CGGA	
0.17	0.20	Q2 165	169	

SETUP DATE	SETUP ID	BATCH ID		
6.20.24	B-062024-16	B-062024-16-02		
DUPLICATE	RESULT 1	RESULT 2	% DEV	
14511-24	138	162		8.0
14548-24	203	201		0.5
BOD-BLANK	CBOD-BLANK	LCS -GGA	LCS-CGGA	
0.19	0.16	175	208	

SETUP DATE	SETUP ID	BATCH ID	
6.27.24	B-062724-22	B-062724-22-02	
DUPLICATE	RESULT 1	RESULT 2	% DEV
15059-24	125	145	7.4
BOD-BLANK	CBOD-BLANK	LCS -GGA	LCS-CGGA
0.10	0.08	175	178

### TOTAL SUSPENDED SOLIDS

SM 2540 D

SETUP DATE	SETUP ID	BATCH ID	
6.6.24	T-060624-03	T-060624-03-02	
SAMPLE ID:	RESULT 1	RESULT 2	% DEV
13215-24	238	236	0.4
13231-24 Q4	25	21	7.2
BLANK, mg/L	<2	LCS % REC	98.9

SETUP DATE	SETUP ID	BATCH ID	
6.13.24	T-061324-07	T-061324-07-02	
SAMPLE ID:	RESULT 1	RESULT 2	% DEV
13855-24	753.3	763.3	0.7
13860-24	590	583	0.6
BLANK, mg/L	<2	LCS % REC	100.3

SETUP DATE	SETUP ID	BATCH ID	
6.20.24	T-062024-11	T-062024-11-02	
SAMPLE ID:	RESULT 1	RESULT 2	% DEV
14489-24	32	30.7	2.1
14493-24	553	543	0.9
BLANK, mg/L	<2 LCS % REC		98.3

BIO CHEM LAB, INC. PHONE: 254.829.8001 FAX: 254.829.8013

4751 TOKIO RD. WEST, TX 76691

ANALYTICAL REPORT

**CLIENT IDENTIFICATION INFORMATION:** 

CITY OF CAMERON P O BOX 833 CAMERON, TX 76520

CLIENT CONTACT: BRANDON WHITE

JUNE 2024 - CAMERON

REPORT ID: CAM-071024

LAB CONTACT: SHAY OCHOA

REPORT DATE: 7.10.24

QC SUMMARY

#### TOTAL SUSPENDED SOLIDS

SM 2540 D

SETUP DATE	SETUP ID	BATCH ID				
6.27.24	T-062724-15	T-062724-15-02				
SAMPLE ID:	RESULT 1	RESULT 2	% DEV			
15071-24	22	20	4.8			
15076-24	2550	2610	1.			
BLANK, mg/L	<2	<2 LCS % REC				

#### FIELD METER CALIBRATION / VERIFICATION

ROUTE DATE	FIELD TEST	METHOD	ANALYST				
6.5.24	pН	PROBE	CR				
BUFFER, SU	RESULT	8.00 LCS, SU					
7.00	7.00	DAILY INITIAL	7.9				
10.00	10.01	DAILY FINAL	7.96				
4.00	4.01	METER SLOPE,%	98.5				

ROUTE DATE	FIELD TEST	METHOD	ANALYST					
6.5.24	DO	PROBE	CR					
INTERNAL CA	AL VALUE, %	LCS READOUT, %						
10	1.4	10	1.4					

ROUTE DATE	FIELD TEST	METHOD	ANALYST					
6.12.24	pН	PROBE	CR					
BUFFER, SU	RESULT	8.00 LCS, SU						
7.00	7.00	DAILY INITIAL	7.97					
10.00	10.01	DAILY FINAL	7.97					
4.00	4.01	METER SLOPE.%	98.6					

ROUTE DATE	FIELD TEST	METHOD	ANALYST				
6.12.24	DO	PROBE	CR				
INTERNAL CA	AL VALUE, %	LCS READOUT, %					
95	.1	9	5.1				

ROUTE DATE	FIELD TEST	METHOD	ANALYST				
6.19.24	pН	PROBE	CR				
BUFFER, SU	RESULT	8.00 LCS, SU					
7.00	7.00	DAILY INITIAL	7.95				
10.00	10.01	DAILY FINAL	7.95				
4.00	4.01	METER SLOPE,%	98.4				

ROUTE DATE	FIELD TEST	METHOD	ANALYST					
6.19.24	DO	PROBE CF						
INTERNAL CA	L VALUE, %	LCS READOUT, %						
98	.2	9	8.2					

ROUTE DATE	FIELD TEST	METHOD	ANALYST			
6.26.24	pН	PROBE	CR			
BUFFER, SU	RESULT	8.00 LCS, SU				
7.00	7.00	DAILY INITIAL	7.97			
10.00	10.01	DAILY FINAL	7,97			
4.00	4.01	METER SLOPE,%	98.1			

ROUTE DATE	FIELD TEST	METHOD	ANALYST				
6.26.24	DO	PROBE	CR				
INTERNAL CA	AL VALUE, %	LCS READOUT, %					
96	.9	97.0					

BIO CHEM LAB, INC. PHONE: 254.829.8001 FAX: 254.829.8013
4751 TOKIO RD. WEST, TX 76691 ANALYTICAL REPORT

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CLIENT CONTACT: BRANDON WHITE

JUNE 2024 - CAMERON

REPORT ID: CAM-071024

LAB CONTACT: SHAY OCHOA

REPORT DATE: 7.10.24

#### **BCL PROJECT DATA QUALIFIERS:**

- Q Failed Quality Data. Refer to QA/QC Report of the affected data for specific details.
- Q1 Blank outside desired limits. Data accepted based on passing batch LCS recoveries.
- Q2 LCS recovery outside desired limits. Data accepted on basis of additional narrative if applicable
- Q3 Matrix Spike and/or Matrix Spike Duplicate outside desired limits. Data accepted on basis of passing LCS recoveries.
- QS3 Matrix Spike and/or Matrix Spike Duplicate outside desired limits. Sample not spiked at a high enough concentration to be statistically different from the native sample result. Data accepted on basis of passing LCS recoveries.
- Q4 Sample specific duplicate precision outside desired range.
- QM1 Microbiology precision unable to be evaluated due to low background concentration (< 10 CFU / MPN) of target analyte
- QM2 Microbiology precision unable to be evaluated due to high background concentration (> 2420 CFU / MPN) of target analyte
- QM3 Microbiology precision outside desired range.
- B1 Results for CBOD / BOD reported as less than [< 2 mg/L] with no sample dilution depleting method required 2.00 mg/L
- B2 Results for CBOD / BOD reported as an estimate due to no dilution meeting a method stated depletion criteria.
- B3 Result for CBOD / BOD unable to be determined due to excessive oxidant content, high chlorine residual.
- W1 Result is an average of multiple weighing / drying cycles.
- C Reported result over the laboratory's calibration range
- C1 Reported result over the laboratory's calibration range but within the laboratory verified Linear Dynamic Range.
- J5 Reported result less than the laboratory reporting limit but greater than the Limit of Detection.
- ND Not detected
- V Additional sample volume would have been required to meet analytical method specifications.
- HT Sample analysis performed outside method / regulatory prescribed holding time.
- T Sample received outside method / regulatory prescribed requirements for thermal preservation.
- P Sample received outside method / regulatory prescribed requirements for pH preservation.
- A Accredidation for analysis performed is either not currenly offered or is currently outside the laboratory's scope of accredidation.
- N The associated analysis was performed by a network / sub-contract laboratory.
- L Laboratory Error
- PW Potable Water
- NPW Non-Potable Water
- Z Refer to additional notes / supplemental narrative

#### **ADDITIONAL NOTES:**

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 Bio Chem Lab, Inc.

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 Form.28.Rev.3-2016

BIO CHEM LAB, INC. PHONE: 254.829.8001 FAX: 254.829.8013

4751 TOKIO RD. WEST, TX 76691

ANALYTICAL REPORT

#### **CLIENT IDENTIFICATION INFORMATION:**

CITY OF CAMERON P O BOX 833 CAMERON, TX 76520

CLIENT CONTACT: BRANDON WHITE

JUNE	2024 - CAMERON
REPORT ID:	CAM-071024
LAB CONTACT:	SHAY OCHOA
REPORT DATE:	7.10.24

				5:02																					
OFFICE NO.: 254.829.8001 FAX NO.: 254.829.8013 CELL NO.: 254.749.4320 EMERGENCY: 254.749.4320		TED BY: LOPIL Allon	- DO TEMP	DATE / TIME / INITIALS 6-4-22-44 12:05		Verified Analysis Requested	1 Tec. Range		1	1			LABORATORY COMMENTS:		ANALIVE REAGEN ID				Q	3:	THERMOMETER ID: 12-1	OH to pH>12 (7) None required (8) Other,	O - OTHER Describe:	SEALS INTACT YES XNO	
OFFICE NC FAX NO.: 2 CELL NO.:		SAMPLES COLLECTED BY: X	FIELD DATA: pH	FLOW	Preservation	Code	-		-				LABO		]	HNO,	PLACED IN HCI	INITIALS (FRIDGE ID) NA-OH	NA-THIO	M OR OTHER:	THE	H<2 (5) Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (6) N <sub>2</sub>		NANO SE	
Â	IY . COMMIMENT		82-2782	1	Container Grab /	>	1150010 Cosh	418	1.300	1,39/		1	1	55 74 FP	12:04 65.24 CR		BECEIVED BY:		Comasanas	Anna Kamos NIP		IO 4°C (2) H <sub>2</sub> SO <sub>4</sub> to pH-2 (3) HNO <sub>5</sub> to pH-2 (4) HCl to pH-2 (5) Na <sub>2</sub> S <sub>2</sub> O <sub>5</sub> (6) NaOH to pH-12 (7) None required	M - Bact / MICRO B - Whirl Pak / BAG VOA - 40 mL vial	CONTAINERS	
WZ V	SERMOE . VISION . COMMUNIY	ACT:	PHONE NO.: (254) 4	)	Collection	Time	11:58		64:01	- 8h://				18511	envo 24-00	0000-WO	TIME		N.S.H	16:15		to 4°C (2) H <sub>2</sub> SO <sub>4</sub> to pH<		CUSTODY SEALS: COOLER	
<b>"</b> /	SERVICE	MELON CONTACT:		SZA EMAIL:		Date	42-6-9 F	1		1				Leval 25,118	8207	d: Hierage D	ODATE		165.24	B 1,524		Siudge/Soil/Sediment PW - Potable Water	Glass AG - Amber Glass	(7.5-14):	is:
BIO CHEM LAB, INC PO BOX 356 4751 TOKIO ROAD WEST, TX 76691-0356 E-MAIL: CUSTOMERSERVICE@BIOCHEMLABTX.COM	•	of Cane	83	12 X 100	Sample Name, Site		Instuent	EnSluen	-				PROJECT COMMENTS / SAMPLING PROCEDURES:	いつしまるか	6月日出出	of TRC / Mn Correction, as needed:	RELINGUISHED BY:	Nerth Colonies	Avril Allex	Manhad ams		fater S - Sludge/Soll/Sedimer	AP - Amber Plastic G - Clear Glass		MPLE INTEGRITY NOTES:
BIO CHEM LAB, INC PO BOX 356 4751 TOKIO ROAD WEST, TX 76691-0356 E-MAIL: CUSTOMERSERVICE@		JECT: CITY	1.0%	Cameran	Obs Corr Temp Temp	Laboratory Use Only	15851	-		1			MMENTS / SAMPLI		1.302	on of TRC / Min C	TIME	-	1 12:05	100		Matrix: AQ - Aqueous NPW - Non-Potable Water S -	P - Plastic AP - Am	:(0-0):	ADDITIONAL PRESERVATION / SAMPLE !
BIO CHEM LAB, PO BOX 356 4751 TOKIO ROAD WEST, TX 76691-0356 E-MAIL: CUSTOMERSE		CLIENT / PROJECT:	ADDRESS:		Sample ID	Laborato	12-0428	13241-24					PROJECT COM	8. 47.8	10:42 10	Documentation	DATE		6-4-24	6.5.20		Matrix: AQ - Aqueo	Container: P	PH STRIPS:	ADDITIONAL PRESE

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 Bio Chem Lab, Inc.

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BIO CHEM LAB, INC. PHONE: 254.829.8001 FAX: 254.829.8013

4751 TOKIO RD. WEST, TX 76691

ANALYTICAL REPORT

#### **CLIENT IDENTIFICATION INFORMATION:**

CITY OF CAMERON P O BOX 833 CAMERON, TX 76520

CLIENT CONTACT: BRANDON WHITE

JUNE	2024 - CAMERON
REPORT ID:	CAM-071024
LAB CONTACT:	SHAY OCHOA
REPORT DATE:	7.10.24

	2	
OFFICE NO.: 254.829.8001  FAX NO.: 254.829.8013  CELL NO.: 254.749.4320  EMERGENCY: 254.749.4320  ES COLLECTED BY: AND TEMP  DATA: pH DO TEMP  DATA: pH DO TEMP	Verified Analysis Requested  TSSARDS	PLACED IN HO.  PLACED IN HO.  PLACED IN HO.  PRESERVATIVE REACENT ID HIVO,  PLACED IN HO.  PRESERVATIVE REACENT ID HIVO,  PLACED IN HO.  PRESERVATIVE REACENT ID HO.  PRESERVATIVE THERMOMETER ID: R.    THERMOMETER ID: R.
OFFICE NO.: 254.82 FAX NO.: 254.829.8 CELL NO.: 254.749. EMERGENCY: 254.7 SAMPLES COLLECTED BY: FIELD DATA: pH DO	Preservation its Code	PLACED IN HERRINGE ID) IN HERR NANO   TENDER IT DAYS
SENICE VISION COMMUNY COMMINENT CONTACT: PHONE NO: (254) 482-2782	Matrix Container Grab! No. 1 Composite Volume! C	RECEIVED BY: INTIMAL LANGES (4) HOLE  (13) HINO, IN DIFFE. (4) HOLE  (13) HINO, IN DIFFE. (4) HOLE  (14) ALD DAYS) (1.5X)
FRANCE VISION COMMUNITY CONTACT: PHONE NO.: (254) 46 EMANL:	Collection Time 74.9.58 9.28 8.29 9.29	C   12:04   G   V   C   V   C   C   C   C   C   C   C
Y	Date Date	Prof 2.6.1  Progue Water  B. 12.24  V. 12.24  V. 12.24  Progue Water  5-14):
BIO CHEM LAB, INC PO BOX 356 4751 TOKIO ROAD WEST, TX 76691-0356 E-MAIL: CUSTOMERSERVICE@BIOCHEMLABTX COM CLIENT I PROJECT: C. 1-14 Of Cangran ADDRESS: V. 1. 1504 833 Camery Cangran C 26, 520	Sample Name, Site Description or Case Number From the Case Number Number From the Case Number	ROCEDURE PROCEDURE Ction, as ne LINQUISHEI LINGUISHEI Sindge/Solifsee Hastic G - C
LAB, INC  DAD  MARRIERVICE@BIOCI  CCT: C 1 1 4 C  CCT: C 1 1 C  ADPENT C	Corr Temp	OMMENTS / SAMPLING P  16 6 7  16 6 7  Tition of TRC / Mn Correction of True
BIO CHEM LAB, INC PO BOX 356 4751 TOKIO ROAD WEST, TX 76691-0356 E-MAIL: CUSTOMERSERVICE CLIENT / PROJECT:	Sample ID Temp Laboratory Use Only PSP 84-24 34	PROJECT COMMENTS / SAMPLING PROJECT COMMENTS / SAMPLING PARTIES A 16 9 5 9 16 9 16 9 16 9 16 9 16 9 16 9

BIO CHEM LAB, INC. PHONE: 254.829.8001 FAX: 254.829.8013

4751 TOKIO RD. WEST, TX 76691

ANALYTICAL REPORT

#### **CLIENT IDENTIFICATION INFORMATION:**

CITY OF CAMERON P O BOX 833 CAMERON, TX 76520

CLIENT CONTACT: BRANDON WHITE

JUNE	2024 - CAMERON
REPORT ID:	CAM-071024
LAB CONTACT:	SHAY OCHOA
REPORT DATE:	7.10.24

CONTACT:   SAMPLES COLLECTED   PHONE NO:   25-4  4f2-2782   FIELD DATA: pil   2-4   EMAIL:   FIELD DATA: pil   2-4   EMAIL:   FIELD DATA: pil   2-4   27.9   4f2-2782   FIELD DATA: pil   2-4   27.9   4f2-2782   FIELD DATA: pil   2-4   27.5   4f2-27   4f2	BIO CHEM LAB, INC PO BOX 356 4751 TOKIO ROAD WEST, TX 76691-0356 E-MAIL: CUSTOMERSERVICE@BIOCHEML	ALABTX.COM	<u>"</u> /		<u> </u>	OFFI FAX CELL	OFFICE NO.: 254.829.8001 FAX NO.: 254.829.8013 CELL NO.: 254.749.4320	
Collection Matrix Volume 1 FLOW — DATE ITHE INTITIAS 1-12-24 M 12:10  Collection Matrix Volume 1 Composite Time Order of Tash 12:10  Collection Matrix Volume 1 Composite Time Order of Tash 12:10  Collection Matrix Volume 1 Composite Time Order of Tash 12:10  Collection Matrix Volume 1 Composite Time Order order of Tash 12:10  Collection Matrix Volume 1 Composite Time Order or			SEAMOR	WSIGN COM	MANTY . COMMINENT			
PHONE NO.   254) 4/82.27/82   FILOW	200	- Caner		CT:		SAMPLES	111 Alle	
FLOW	13ax 83	5.3	PHONE		482-2787		00	
Collection Matrix Volume 1 Composite Code Verl Date Time Matrix Volume 2 Composite Code Code Composite Code Code Code Code Code Code Code Cod	ameron	X 165	20 EMAIL:	1			- DATE / TIME / INITIALS 6-19-24	12:10
	Corr Sal	Sample Name, Site	Colle	ction	-			١.
1755   244   2437   2		Number	Date	Time	Volume /		Verified	
10.54   0.437   1.444   0.447   1.55   1.55   1.572   1.572   1.572   1.450RATORY COMMENTS:	12 26	Bluent	18-2	12:05	1/500/10	rab		
THERMOMETER ID: R-10.572  TO 2.0. GOT 2.1. RECEIVED BY:  DATE  TIME  PLACED IN  HID.  DATE  TIME  RECEIVED BY:  PLACED IN  HID.  HID.  PLACED IN  HID.  HID.  HID.  PLACED IN  HID.  HID	M	=88luent	_	4:24	1. 606	and	1 -	
1.55	4		-	10:54	0.437			
PLACED IN PLACED IN PRESERVATIVE   REAGENT IN PRESERVATIVE   REAGENT IN PLACED IN PROPERTY OF THE RECEIVED BY:   PLACED IN PROPERTY   PR	1			11:55	-0.592		Francis	
PRESERVATIVE   PRES								
SHED BY:   DATE   TIME   RECEIVED BY:   PRESERVATIVE   REAGENT   REPRIGENCE   PRESERVATIVE   REAGENT   REPRIGENCE   PRESERVATIVE   REAGENT   REPRIGENCE   PROPERTY	LING P	PROJECT COMMENTS / SAMPLING PROCEDURES:					LABORATORY COMMENTS:	
DATE   TIME   RECEIVED BY:   REFRIGERATOR /   HC    NATHOLO   NA	9.34 1.600 10:54 0.437 11:55 0.592 Documentation of TRC / Mn Correction.	CHARTON SI Needed:	Do 2.0	12 day	19h.21	20 KZ.	WATIVE 384	
U   Q - 24	REI	LINQUISHED BY:		TIME	100	PLACED IN REFRIGERATOR /		
THERMOMETER ID: [L -	70	411	19-24	12.26				
THERMOMETER ID:   -	3	B	12.19.24	17.CV		MENTER	OTHER:	
WY - Potable Water (o. 4°C (2) H;SO <sub>4</sub> to pHr.2 (3) HNO, to pHr.2 (4) HCl to pHr.2 (5) Nu;S,O <sub>2</sub> (6) Na;OH to pHr.12 (7) None required lass AG - Amber Glass M - Bact / MICRO B - Whirif Pak / BAG VOA - 40 mL vial O - OTHER Describe:  - (5-14): CUSTODY SEALS:							THERMOMETER ID:   R -	
lass AG - Amber Glass M - Bact / MICRO B - Whirin Pak / BAG VOA - 40 mL vial O - OTHER Describe:  - 5-14): Custoby seals:	Water S - S	iludge/Soil/Sediment PV	W - Potable Water	10 4°C (2) H <sub>2</sub> SO, 16	(3) HNO <sub>3</sub> to pH<2		(6) NaOH to pH>12 (7) None required	
.5-14); CUSTODY SEALS,COOLERCONTAINERS NANO SEALS INTACT:YES	AP - Amber Plastic		- 1				O - OTHER	
(TEGRITY NOTES:			5-14):	CUSTODY SEALS:	1		ves	
	AMPLE IN	TEGRITY NOTES:						
	١			-		Colored Service Control of the Contr	The state of the s	

BIO CHEM LAB, INC. PHONE: 254.829.8001 FAX: 254.829.8013
4751 TOKIO RD. WEST, TX 76691 ANALYTICAL REPORT

#### **CLIENT IDENTIFICATION INFORMATION:**

CITY OF CAMERON P O BOX 833 CAMERON, TX 76520

CLIENT CONTACT: BRANDON WHITE

JUNE 2024 - CAMERON

REPORT ID: CAM-071024

LAB CONTACT: SHAY OCHOA

REPORT DATE: 7.10.24

OFFICE NO.: 254.829.8001 FAX NO.: 254.829.8013 CELL NO.: 254.749.4320 FMERCENCY. 254.749.4320	SEMICE - VISION - COMMUNIY - COMMINENT	SAMPLES COLLECTED BY: / W. / 41/	(2500-184 (42C)		Container	Time Matrix No. / Composite	WW	10.600	10:07 0.632	11:07 - 1:45 -				1156 6 26 74 CR	1. 25.5 (2.0) 6.26 M CK	M dayen in	TIME RECEIVED BY: REFRIGERARY HICK		$\rightarrow$	THERMOMETER ID: \\D\	10.4°C (2) H <sub>2</sub> SO, to pH<2 (3) HNO <sub>3</sub> to pH<2 (4) HCI to pH<2 (5) Na <sub>3</sub> S <sub>2</sub> O, (6) NaOH to pH>12 (7) Nane required (8) Other,	M - Bact / MICRO B - Whirt Pak / BAG VOA - 40 mL vial O - CTHER Describe:	CUSTODY SEALS, CCOLER CONTAINERS MAINO SFALS INTACT. VEC.
BIO CHEM LAB, INC PO BOX 356 4751 TOKIO ROAD WEST, TX 76691-0356 E-MAIL: CUSTOMERSERVICE@BIOCHEMLABTX.COM	SEAMCE	CLIENT I PROJECT: City of Campages	853	Caneva, X 76526 EMAIL.	Sample ID Obs Corr Sample Name, Site Collection	ly Description or Case Date	+ 12-	Y		- The second sec			PROJECT COMMENTS / SAMPLING PROCEDURES:	4:16 0:600 (M. DH-7.0 - 18M. 27.5°C	11.09 1.465 CH- *H- I. 0 50 5.1 Learn	Occurrence of the same consequent as needed	DATE TIME RELINQUISHED BY: DATE	6-23-24 11:20 April Allen 1526-24	111:25		Matrix: AQ - Aqueous NPW - Non-Potable Water S - StudgelSoil/Sediment PW - Potable Water	Container: P - Piastic AP - Amber Plastic G - Clear Glass AG - Amber Glass	pH STRIPS: (0-6):

BIO CHEM LAB, INC. PHONE: 254.829.8001 FAX: 254.829.8013
4751 TOKIO ROAD - WEST, TX 76691 ANALYTICAL REPORTS

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P O BOX 833
CAMERON, TX 76520
CLIENT CONTACT: BRANDON WHITE

# APRIL 2024 CAMERON REPORT ID: CAM-050724 LAB CONTACT: SHAY OCHOA REPORT DATE: 5.7.24 PERMIT RENEWAL

#### FIELD DATA / SAMPLE DESCRIPTION

Collection Point		EFFLUENT
Date/ Time Collected		4.24.24 / 12:27
Date/ Time Received by Lab		4.24.24 /16:49
Laboratory Sample ID		10029-24, 10030-24
Sampling Description/Procedure		BCL.SOP.119
Sample Type		Grab
Sample Matrix		Aqueous-NPW
Collecter		CR
Total Residual Chlorine, mg/L	SM 4500 CI G	0.24
pH, SU	SM 4500-H+B	7.2
Dissolved Oxygen, mg/L	SM 4500 O G	3.8
Temperature, C		23.0
Date / Time Analyzed	(Field Analysis)	4.24.24 / 12:24
Analyst Initials		CR

Analyst Initials		CR
DADAMETER / INST / METUOR		
CBOD <sub>5</sub> , mg/L	SM 5210 B	Q 15.
Reporting Limit, mg/L		2
Dilution Factor		
Date / Time Analyzed		4.25.24 / 10:15
Analyst Initials		LC
Total Suspended Solids, mg/L	SM 2540 D	21.
Reporting Limit, mg/L		2
Dilution Factor		1
Date / Time Analyzed		4.25.24 / 09:00
Analyst Initials		MH
Sulfate, mg/L	EPA 300.0	90.8
Reporting Limit, mg/L		5.00
Dilution Factor		10
Date / Time Analyzed		4.25.24 / 19:31
Analyst initials		AJ
Chloride, mg/L	EPA 300.0	111.
Reporting Limit, mg/L		5.00
Dilution Factor		10
Date / Time Analyzed		4.25.24 / 19:31
Analyst Initials		AJ
TDS <sub>,</sub> mg/L	SM 2540 C	602.
Reporting Limit, mg/L		20.
Dilution Factor		1
Date / Time Analysis Completed		4.29.24 / 08:00
Analyst Initials		ARJ
Electrical Conductivity, µmhos @ 25°C	SM 2510 B	1,071
Reporting Limit, µmhos @ 25°C		10.
Dilution Factor		1
Date Analyzed		4.25.24 / 13:30
Analyst Initials		ARJ

BIO CHEM LAB, INC. PHONE: 254.829.8001 FAX: 254.829.8013 4751 TOKIO RD. WEST, TX 76691 ANALYTICAL REPORT

**CLIENT IDENTIFICATION INFORMATION:** 

CITY OF CAMERON P O BOX 833 CAMERON, TX 76520

Analyst Initials

CLIENT CONTACT: BRANDON WHITE

	APRIL 2024 CAMERON
REPORT ID:	CAM-050724
LAB CONTACT:	SHAY OCHOA
REPORT DATE:	5.7.24

#### **FIELD DATA / SAMPLE DESCRIPTION**

Collection Point	EFFLUENT
Date/ Time Collected	4.24.24 / 12:27
Date/ Time Received by Lab	4.24.24 /16:49
Laboratory Sample ID	10030-24, 10031-24, 10032-24

PARAMETER / UNIT / METHO	D	
Total Alkalinity, mg/L	SM 2320 B	291
Reporting Limit, mg/L		10
Dilution Factor		
Date / Time Analyzed	L	4.29.24 / 09:0
Analyst Initials		AR
Nitrate as N, mg/L	EPA 300.0	< 0.10
Reporting Limit, mg/L		0.1
Dilution Factor		1
Date / Time Analyzed		4.25.24 / 19:3
Analyst Initials		A
NH₃N, mg/L	SM 4500 NH <sub>3</sub> B, D	11.9
Reporting Limit, mg/L		0.1
Dilution Factor		
Date / Time Analyzed		4.25.24 / 18:3
Analyst Initials		S
TKN, mg/L	SM 4500 N <sub>org</sub> B	16.
Reporting Limit, mg/L		1.0
Dilution Factor		
Date / Time Analyzed	L	4.30.24 / 19:5
Analyst Initials		S
Total Phosphorus, mg/L	SM 4500 P B.5, E	1.0
Reporting Limit, mg/L		0.8
Dilution Factor		
Date / Time Analyzed		4.25.24 / 16:1
Analyst Initials	1	L
Oil & Grease mg/L	EPA 1664 A	< 5.0
Reporting Limit, mg/L		5.0
Dilution Factor		
Date / Time Analyzed		4.29.24 / 13:3
Analyst Initials		CI
E. coli. MPN / 100ml	SM 9223 B	2,420
Reporting Limit, MPN / 100 ml		1
Dilution Factor		
Date / Time Analyzed		4.24.24 / 16:2

BIO CHEM LAB, INC. PHONE: 254.829.8001 FAX: 254.829.8013
4751 TOKIO RD. WEST, TX 76691 ANALYTICAL REPORT

**CLIENT IDENTIFICATION INFORMATION:** 

CITY OF CAMERON P O BOX 833 CAMERON, TX 76520

CLIENT CONTACT: BRANDON WHITE

APRIL 2024 CAMERON

REPORT ID: CAM-050724

LAB CONTACT: SHAY OCHOA

REPORT DATE: 5.7.24

QC SUMMARY

BIOCHEMICAL O	XYGEN DEMAND		
SETUP DATE	SETUP ID	BATCH ID	
4.25.24	B-042524-22	B-042524-22-02	
DUPLICATE	RESULT 1	RESULT 2	% DEV
9976-24	10	9 123	6.0
10018-24	16	6 184	5.1
BOD-BLANK	CBOD-BLANK	LCS -GGA	LCS-CGGA
80.0	0.03	169	Q2 150

TOTAL SUSP	ENDED SOLIDS		SM 2540 D	
SETUP DATE	SETUP ID	BATCH ID		
4.25.24	T-042524-16	T-042524-16-03		
SAMPLE ID:	RESULT 1	RESULT 2	% DEV	
10041-24	156	158	0.6	
BLANK, mg/L		<2 LCS % REC	97.9	

SULFATE			
SETUP DATE	SEQUENCE ID		
4.25.24 - 4.26.24	IC-042524-1	17	
SAMPLE ID	RESULT 1	RESULT 2	RPD
10089-24	38.0	36.9	2.9
SPIKE ID:	RESULT 1	RESULT 2	% REC
10089-24 Q3	38.0	169.6	131.6
IPCS-1 % REC:	101.6	IPCS-2 % REC:	108.9
LCS % REC:	106.5	LCSD % REC:	105.9
BLANK, mg/L:	<0.50	LOQ % REC:	

SETUP DATE	SEQUENCE ID		
4.25.24 - 4.26.24	IC-042524-	-17	
SAMPLE ID	RESULT 1	RESULT 2	RPD
10089-24	38.2	37.0	3.2
SPIKE ID:	RESULT 1	RESULT 2	% REC
10089-24 Q3	38.2	2 164.8	126.6
IPCS-1 % REC:	98.7	IPCS-2 % REC:	103.7
LCS % REC:	101.8	LCSD % REC:	102.2
BLANK, mg/L:	<0.50	LOQ % REC:	

OTAL DISSOLVE	ED SOLIDS		SM 25
DATE	SETUP ID	BATCH ID	
4.29.24	DS-042924-08	DS-042924-08-01	
SAMPLE ID:	RESULT 1	RESULT 2	% DEV
9900-24	282	298	2.8
SPIKE ID:	RESULT 1	RESULT 2	% REC
10157-24	352	872	104.0
BLANK, mg/L	< 20	LCS, %REC	95.9

ELECTRICAL CON	DUCTIVITY			SM 2510 B
SETUP DATE	SETUP ID			
4.25.24	EC-042524-	05		
SAMPLE ID	RESULT 1	RESULT 2	% DEV	
9746-24	1079	1079	0.0	
LCS % REC	101.6	LCSD % REC	101.4	
I DR umboe	<b>65</b>	LOO % PEC		

TOTAL ALKALINI	TY			SM 2320 E
SETUP DATE	SETUP ID	BATCH ID		
4.29.24	ALK-042924-05	ALK-042924-05-01		
SAMPLE ID:	RESULT 1	RESULT 2	% DEV	
9878-24	50.4	46.8	3.7	
SPIKE ID:	RESULT 1	RESULT 2	% REC	
10178-24	129.4	228.3	98.9	
LRB-BLANK	LCS, %REC	LCSD, %REC	LOQ, % REC	
< 5	92.5	93.5		

NITRATE				EPA 300.
SETUP DATE	SEQUENCE ID			
4.25.24 - 4.26.24	IC-042524-	17		
SAMPLE ID	RESULT 1	RESULT 2	RPD	
13537	9.9	10.5	5.4	
SPIKE ID:	RESULT 1	RESULT 2	% REC	
10089-24	0.0	95.4	95.4	
IPCS-1 % REC:	99.4	IPCS-2 % REC:	104.5	
LCS % REC:	102.9	LCSD % REC:	102.0	
BLANK, mg/L:	<0.01	LOQ % REC:		

# BIO CHEM LAB, INC. PHONE: 254.829.8001 FAX: 254.829.8013 4751 TOKIO RD. WEST, TX 76691 ANALYTICAL REPORT

**CLIENT IDENTIFICATION INFORMATION:** 

CITY OF CAMERON P O BOX 833

CAMERON, TX 76520

CLIENT CONTACT: BRANDON WHITE

2024 CAMERON
CAM-050724
SHAY OCHOA
5.7.24

NH3N			
SETUP DATE:	SETUP ID:	BATCH ID:	
04.25.24	N-042524-22	N-042524-22-01	
SAMPLE ID:	RESULT 1:	RESULT 2:	% DEV:
10050-24	41.7	42.5	1.0
10091-24	28.4	28.5	0.3
SPIKE ID:	RESULT 1:	RESULT 2:	% REC:
10052-24	0.03	1.92	94.6
10052-24	0.03	1.96	96.6
BLANK, mg/L:	LCS % REC:	LCSD % REC:	
< 0.05	106.0	107	

SETUP DATE	SETUP ID	BATCH ID	
4.30.24	TKN-043024-06	TKN-043024-06-01	
SAMPLE ID:	RESULT 1:	RESULT 2:	% DEV
9905-24	200	195	1.
10030-24	18.7	17.1	4.
SPIKE ID:	RESULT 1:	RESULT 2:	% REC
9955-24	38.2	50.0	118.0
9955-24	38.2	46.8	86.0
BLANK, mg/L:		LCS % REC:	LCSD % REC:
< 0.25		109.0	103.6

TOTAL PHOS	PHORUS		A STATE OF THE STA		SM 4500 P B.5, E
SETUP DATE	SETUP ID		BATCH ID		ī
4.25.24	P-042524-06		P-042526-06-01		
SAMPLE ID	RESULT 1		RESULT 2	% DEV	
9667-24	3	3.14	3.18	0.6	
9905-24	3	6.0	43.1	8.9	
SPIKE ID:	RESULT 1		RESULT 2	% REC	
9803-24	C	.78	1.38	93.8	
9803-24	C	.78	1.46	106.3	
BLANK, as P:	LCS % REC:		LCSD % REC:		
< 0.08	91.5		94.8		

OIL & GREASE				EPA 1664 A
SETUP DATE	SETUP ID	BATCH ID		
4.29.24	OG-042924-06	OG-042924-06-01		
DUPLICATE ID:	RESULT 1:	RESULT 2:	% DEV	
734131604	34.0	36.7	3.8	
BLANK, mg/L:	QCS % REC:	LCS % REC:	LCSD % REC:	
<1.4		85.0	91.8	

E. COLI.				SM 9223 E
SETUP DATE	SETUP ID	BATCH ID		
4.24.24	E-042424-15	E-042424-15-01		
DUPLICATE ID:	RESULT 1:	RESULT 2:	PRECISION	
10009-24	>241960	>241960	QM2	
10010-24	>24196	>24196	QM1	
BLANK, MPN		PRECISIO	N RANGE	
<1		0.0-	0.15	

### ANALYTICAL NOTES, INTERPRETATIONS, METHOD DEVIATIONS OR ENVIRONMENTAL CONDITIONS : NONE TO REPORT

#### STATEMENT OF COMPLIANCE/NON-COMPLIANCE:

The above analytical data was derived from submitted samples that have met all established acceptance criteria, unless otherwise qualified, and are compliant with the laboratory's Quality System. The Director of Operations or designee has authorized the release of this report. The results contained herein relate only to the Laboratory Sample ID(s) documented above. This analytical test report may not be reproduced except in full, without the written approval of the laboratory.

Quality Assurance / Quality Control Data associated with results within this report are documented in the attached QA/QC Report.

Please contact 254.829.8001 with any questions or concerns.

A. Shay Ochoa, Senior Environmental Project Manager Bio Chem Lab, Inc.



BIO CHEM LAB, INC. PHONE: 254.829.8001 FAX: 254.829.8013 4751 TOKIO RD. WEST, TX 76691 ANALYTICAL REPORT

CLIENT IDENTIFICATION INFORMATION:

CITY OF CAMERON P O BOX 833 CAMERON, TX 76520

01

CLIENT CONTACT: BRANDON WHITE

APRI	L 2024 CAMERON
REPORT ID:	CAM-050724
LAB CONTACT:	SHAY OCHOA
REPORT DATE:	5.7.24

#### **BCL PROJECT DATA QUALIFIERS:**

0	Failed Quality Data	. Refer to QA/QC Report of the affected data for specific details.
W	raileu Quality Data	. Nelel to GAVGO Nepolt of the affected data for specific details.

- Blank outside desired limits. Data accepted based on passing batch LCS recoveries. Q2 LCS recovery outside desired limits. Data accepted on basis of additional narrative if applicable
- Q3 Matrix Spike and/or Matrix Spike Duplicate outside desired limits, Data accepted on basis of passing LCS recoveries.
- QS3 Matrix Spike and/or Matrix Spike Duplicate outside desired limits. Sample not spiked at a high enough concentration to be statistically different from the native sample result. Data accepted on basis of passing LCS recoveries.
- Q4 Sample specific duplicate precision outside desired range.
- QM1 Microbiology precision unable to be evaluated due to low background concentration (< 10 CFU / MPN) of target analyte
- Microbiology precision unable to be evaluated due to high background concentration (> 2420 CFU / MPN) of target analyte QM2
- QM3 Microbiology precision outside desired range.
- **B**1 Results for CBOD / BOD reported as less than [< 2 mg/L] with no sample dilution depleting method required 2.00 mg/L
- **B2** Results for CBOD / BOD reported as an estimate due to no dilution meeting a method stated depletion criteria.
- **B3** Result for CBOD / BOD unable to be determined due to excessive oxidant content, high chlorine residual.
- W1 Result is an average of multiple weighing / drying cycles.
- C Reported result over the laboratory's calibration range
- Reported result over the laboratory's calibration range but within the laboratory verified Linear Dynamic Range.
- J5 Reported result less than the laboratory reporting limit but greater than the Limit of Detection.
- ND Not detected
- Additional sample volume would have been required to meet analytical method specifications.
- HT Sample analysis performed outside method / regulatory prescribed holding time.
- Sample received outside method / regulatory prescribed requirements for thermal preservation.
- Sample received outside method / regulatory prescribed requirements for pH preservation.
- Accredidation for analysis performed is either not currenly offered or is currently outside the laboratory's scope of accredidation.
- The associated analysis was performed by a network / sub-contract laboratory.
- L Laboratory Error
- PW Potable Water
- NPW Non-Potable Water
- Z Refer to additional notes / supplemental narrative

#### ADDITIONAL NOTES:

BIO CHEM LAB, INC. PHONE: 254.829.8001 FAX: 254.829.8013
4751 TOKIO RD. WEST, TX 76691 ANALYTICAL REPORT

<u>CLIENT IDENTIFICATION INFORMATION:</u> CITY OF CAMERON

P O BOX 833 CAMERON, TX 76520 CLIENT CONTACT: BRANDON WHITE APRIL 2024 CAMERON

REPORT ID: CAM-050724

LAB CONTACT: SHAY OCHOA

REPORT DATE: 5.7.24

BIO CHEM LAB, INC PO BOX 356 4751 TOKIO ROAD WEST, TX 76691-0356 E-MAIL: CUSTOMERSERVICE@BIOCHEMLABTX.COM	, INC 6 ERVICE@BIOCI	HEMLABTX.COM	<u>"</u>			A		OFFICE FAX NO CELL N	OFFICE NO.: 254.829.8001 FAX NO.: 254.749.8013 CELL NO.: 254.749.4320 EMERGENCY: 254.749.4320	9.8001 23 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20
			SERVICE .	SERVICE & VISION & COMM UN ITY	UN ITY	<ul> <li>COMM ITMEN T</li> </ul>	1 L			(
CLIENT / PROJECT: CI	ITY OF CAMERO	CLIENT / PROJECT: CITY OF CAMERON PERMIT RENEWAL	CONTACT				3	COLLECTED BY:	1	Low of
ADDRESS: PO BOX 833	33	10 300	PHONE NO	PHONE NO.: 254-627-1594			<u>E</u>	FIELD DATA:	7. CHq	003
CAMERO	CAMERON, TX 76528		EMAIL:				<u>=</u>	FLOW	DATE/TIN	10
Sample ID	Obs Corr	Sample Name. Site	Collection	tion		Container No.	I			
J.	se Only	Description or Case N	Date	Time	Matrix	/ Volume / Type	Composite	Code	Verified	Analysis Requested
1002924	939.2	EFFLent	4.24.24	12.27	WPW	1 / 2000 / P	U			CBOD / TSS / S04 / C! / TDS / EC / ALKALINITY / NO3
1,0050024					WAN	1/1000/1	5	1,2	0.7	AMMONIA / TKN / TOTAL PHOSPHORUS
10031-24		-			NPW .	NPW 1 /1000 / AG	S	1,2	0.	OIL & GREASE
10032-24	+	4			WPW	1/ 120 / M	9	ć		E. COLI
PROJECT COMMENTS / SAMPLING PROCEDURES:	SAMPLING PE	ROCEDURES:							LABORATOR	LABORATORY COMMENTS:
7	KC-0.24	7							PRESERVATIVE	REAGENT ID
									H,50, 193	4112950
Documentation of TRC / Mn Correction, as needed:	IC / Mn Correct	tion, as needed:							HNO,	
DATE	TIME	RELINQUISHED BY:	DATE	JWIL	RE	RECEIVED BY:	PLA( REFRIG INITIALS (	PLACED IN REFRIGERATOR / INITIALS (FRIDGE ID)	HC!	
4242h	16.49	Cianna James	42424	M.49	NOW!	named anno	NOW	2	NA-THIO	
		•	,		)				OTHER:	
									THERMOMETER ID:	ER ID: (, R.)
Matrix: AQ - Aqueous N	IPW - Non-Potabl	Matrix: AQ - Aqueous NPW - Non-Potable Water S - Sludge/Soil/Sediment PW - Potable Water	PW - Potable Water	(1) coal to 4°C (2) H,50, to pHc2 (3) HNO, to pHc2 (4) HC1 to pHc2 (5) Na,5,5,0,	H,50, to pH	(2) HNO <sub>3</sub> to pH	4) HCI to pH		6) NaOH to pH>12	(6) NaOH to pH>12 (7) None required (8) Other, as noted
Container: P - Plastic AP - Amber Plastic G - Clear Glass	AP - Amber Pla	r Glass	AG - Amber Glass M - Bact / MICRO	IICRO B - Whin Pak / BAG		VOA - 40 mL vlat	I O OTHER	Describe:		
PH STRIPS: \$\(\frac{10.6}{2}\). (0.6) \(\frac{1}{2}\). (2.6)	1-8581	- (5716 (7.5-14):		CUSTODY SEALS: COOLER	X COOL	ER CONTAINERS	NERS NA/NO	0	SEALS INTACT:	TACT: YES NO
ADDITIONAL PRESERVATION / SAMPLE INTEGRITY NOTES:	TION / SAMPLE !!	NTEGRITY NOTES:								10
REQUESTED TAT: 🔀 S	TANDARD (7-10 E	REQUESTED TAT: SETANDARD (7-10 DAYS) BCL EXPRESS (5-6 DAYS) (1.25X)		BCL PRIORITY (3-4 DAYS) (1.5X)		BCL FIRE (1-2 D	AYS) (2.0X) Rush	service availabi	lity may depen	BCL FIRE (1-2 DAYS) (2.0X) Rush service availability may depend on logistics and method.

Your transaction is complete. Thank you for using TCEQ ePay.

Note: It may take up to 3 working days for this electronic payment to be processed and be reflected in the TCEQ ePay system. Print this receipt and the vouchers for your records. An email receipt has also been sent.

#### Transaction Information -

Trace Number: 582EA000618172

Date: 07/19/2024 11:54 AM

Payment Method: ACH - Authorization 0078096894

ePay Actor: SARA WILLIAMS

Actor Email: swilliams@kpaengineers.com

IP: 209.112.228.29

TCEQ Amount: \$2,015.00 Texas.gov Price: \$2,015.00\*

\* This service is provided by Texas.gov, the official website of Texas. The price of this service includes funds that support the ongoing operations and enhancements of Texas.gov, which is provided by a third party in partnership with the State.

#### Payment Contact Information-

Name: JAKE BLAIR

Company: KASBERG PATRICK & ASSOCIATES LP Address: 19 N MAIN ST, TEMPLE, TX 76501

Phone: 254-773-3731

#### Cart Items

Click on the voucher number to see the voucher details.

Voucher	Fee Description AR Number	Amount
713704	WW PERMIT - FACILITY WITH FLOW >= 1.0 MGD - RENEWAL	\$2,000.00
713705	30 TAC 305.53B WQ RENEWAL NOTIFICATION FEE	\$15.00
	TCEQ Amount:	\$2,015.00

ePay Again Exit ePay

Note: It may take up to 3 working days for this electronic payment to be processed and be reflected in the TCEQ ePay system. Print this receipt for your records.

#### TCEQ ePay Voucher Receipt

-Transaction Information -

Voucher Number:

713704

Trace Number:

582EA000618172

Date:

07/19/2024 11:54 AM

Payment Method:

ACH - Authorization 0078096894

**Voucher Amount:** 

\$2,000.00

Fee Type:

WW PERMIT - FACILITY WITH FLOW >= 1.0 MGD - RENEWAL

ePay Actor:

**SARA WILLIAMS** 

- Payment Contact Information -

Name:

JAKE BLAIR

Company: Address:

KASBERG PATRICK & ASSOCIATES LP 19 N MAIN ST, TEMPLE, TX 76501

Phone:

254-773-3731

Site Information -

Site Name:

CAMERON WASTEWATER TREATMENT PLANT

Site Address:

2000 E GILLIS, CAMERON, TX 76520

Site Location:

APPROX 1300 FT S-SE OF THE INTERX OF US 190 190 AND 77 SH 36 & ADAMS

ST & APPROX

Customer Information -

**Customer Name:** 

CITY OF CAMERON

**Customer Address:** 

100 S HOUSTON AVE, CAMERON, TX 76520

- Other Information -

Program Area ID:

10004001

#### TCEQ ePay Voucher Receipt

-Transaction Information -

Voucher Number:

713705

Trace Number:

582EA000618172

Date:

07/19/2024 11:54 AM

Payment Method:

ACH - Authorization 0078096894

Voucher Amount:

\$15.00

Fee Type:

30 TAC 305.53B WQ RENEWAL NOTIFICATION FEE

ePay Actor:

SARA WILLIAMS

- Payment Contact Information -

Name:

JAKE BLAIR

Company: Address: KASBERG PATRICK & ASSOCIATES LP 19 N MAIN ST, TEMPLE, TX 76501

Phone:

254-773-3731

#### **Candice Calhoun**

From: Jake Blair < JBlair@kpaengineers.com>
Sent: Friday, September 27, 2024 8:45 PM

**To:** Candice Calhoun

**Cc:** Tommy Valle; Askarali K. Karimov

Subject: RE: Application for New Permit No.WQ0010004003-City of Cameron-Notice of

Deficiency 30-Day Will Return Letter

**Attachments:** 0. Cameron WWTP WQ0010004003 - Response Cover Letter.pdf; 1. Attachment No.

1.pdf; 2. Attachment No. 2.pdf; 3. Attachment No. 3 - TCEQ WQ0010004001 TPDES

PLS.docx; 4. Attachment No. 4.pdf; 5. Attachment No. 5.pdf

Follow Up Flag: Follow up Flag Status: Completed

Good Evening Mrs. Calhoun,

Thank you for the notice and our apologies on the confusion, please see attached cover letter and responses to the NOD on the City of Cameron WQ0010004003 WWTP permit request. Please note that four (4) corresponding hard copies have been mailed to your attention for full size USGS maps. If they have not been received, please advise and we will hand deliver next week to ensure receipt.

We are available at your convenience to address any questions.

Thank you and have a good weekend!



Jake Blair, PE

Associate

19 North Main Street, Temple, TX 76501

O (254) 773-3731

C (806) 438-6378

From: Candice Calhoun < Candice. Calhoun@tceq.texas.gov>

Sent: Friday, September 27, 2024 10:15 AM

To: Jake Blair < JBlair@kpaengineers.com>; Askarali K. Karimov < akarimov@kpaengineers.com>

Cc: Tommy Valle <tvalle@kpaengineers.com>

Subject: FW: Application for New Permit No.WQ0010004003-City of Cameron-Notice of Deficiency 30-Day Will Return

Letter

Importance: High

Good afternoon, Mr. Blair, and Mr. Karimov,

Your response deadlines have passed, and my next step is to route the application to management to return the application. If you can provide me with a complete response, no later than **October 2, 2024**, then I can avoid routing it to management to return.

Regards,



# 19 North Main Street • Temple, TX 76501 • (254) 773-3731 800 South Austin Ave • Georgetown, TX 78626 • (512) 819-9478

September 16, 2024

Texas Commission on Environmental Quality ATTN: Mrs. Candice Calhoun Applications Review and Processing Team (MC148) P.O. Box 13087 Austin, Texas 78711-3087

RE: Application for Proposed Permit No.: WQ0010004003 EPA I.D. No. TX0146382)

Applicant Name: City of Cameron (CN600344162) Site Name: City of Cameron WWTP (RN110762879)

Type of Application: New

Dear Mrs. Calhoun:

This letter is in response to the letter dated July 31, 2024 concerning the deficiencies in the application for proposed WWTP permit operated by the City of Cameron. As listed below, the original TCEQ inquiry is in black text with a response in blue:

#### 1. Administrative Report 1.0

Section 1 - Application Fee: We were unable to confirm payment of the application processing fee. The filing fee for your application is \$2,050.00. Please submit payment to: TCEQ, Revenue Section (MC 214), P.O. Box 13088, Austin, Texas 78711-3088. Also, provide a copy of the check along with the response to this letter.

Included as Exhibit No. 17 in the original application is an EPay Voucher 713705 showing a payment of \$2,015.00 under Trace No. 582EA000618172 on 07/19/2024. A copy of this payment is included under Attachment No. 1 for reference. Additionally, we have executed an additional check in the amount of \$35.00 to bring the total payment to \$2,050.00. This check has been mailed to the address above and a copy is attached.

Section 2, item b - A box for the appropriate facility status was not checked. Please provide an updated section of the application to show the appropriate facility status.

See Attachment No. 1 for the Revised Page 2 of the application.

Section 10, item B-An accurate description of the point of discharge and the discharge route to the nearest classified segment was not provided. This section is required to be completed for all new or amendment permit applications. Please provide an updated section of the application to show the accurate description requested.

See Attachment No. 1 for the revised page 8 of the application.

Applications Review and Processing Team (MC148) September 16, 2024 Page Two

Section 12, item B – The question "if the existing permit contain an onsite sludge disposal authorization, is the location of the sewage sludge disposal site in the existing permit accurate" was answered both as "Yes" and "Not Applicable", but the Owner of sewage sludge disposal site was not provided in Section 9, item F. If the correct answer to Section 12, item B is "Not Applicable" please provide an updated section to not include the description. If the correct answer is "Yes", please remove the check mark for "Not Applicable" and provide the owner of sewage sludge disposal site in Section 9, item F

Correct answer is Not Applicable. See Attachment No. 1 for the Revised Page 9 of the application.

#### 2. USGS Topographic Map

The USGS map provided was illegible. Please provide a legible USGS map.

Both revised USGS Maps for The Administrative Report 1.0 and Supplemental Permit Information Form (SPIF) originally referred to as Exhibit No. 2 and No. 3 are included under Attachment No. 2 as requested.

#### 3. Plain Language Summary (PLS)

The English PLS was not provided. Please use the attached Plain Language Summary (PLS) Template to provide a plain language summary in English. Please provide the PLS in a Microsoft Word Document.

Requested City of Cameron WWTP TDPES PLS is provided in a word document format in Attachment No. 3

#### 4. Supplemental Permit Information Form (SPIF)

The Supplemental Permit Information Form (SPIF) was missing from the application. The supplemental permit information form (SPIF) is required for all TPDES applications. Please provide the SPIF.

The completed Supplemental Permit Information Form (SPIF) is included as Attachment No. 4. The required USGS map is included in Attachment No. 2

Applications Review and Processing Team (MC148) September 16, 2024 Page Three

#### 5. Administrative Report 1.1

The Administrative Report 1.1 was missing from the application. The Administrative Report 1.1 form is required for all New applications. Please provide a completed Administrative Report 1.1.

The completed Administrative Report 1.1 is included as Attachment No. 5 including all required exhibits and testing requirements (Worksheet 4.0).

#### 6. NORI

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

APPLICATION. City of Cameron, P.O. Box 833, Cameron, Texas 76520, has applied to the Texas Commission on Environmental Quality (TCEQ) for proposed Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010004003 (EPA I.D. No. TX0146382) to authorize the discharge of wastewater at a volume not to exceed a daily average flow of 1,250,000 gallons per day. The domestic wastewater treatment facility will be located approximately 0.5 mile east of the intersection of Oak Avenue and Gillis Avenue, near the city of Cameron, in Milam County, Texas 76520. The discharge route will be from the plant site to PENDING RWA REVIEW. Authorization to discharge was previously permitted by expired Permit No. WQ0010004001. TCEQ received this application on July 22, 2024. The permit application will be available for viewing and copying at Cameron Water Department, 2nd floor office, 100 South Houston Avenue, Cameron, in Milam County, Texas prior to the date this notice is published in the newspaper. The application, including any updates, and associated notices are available electronically at the following webpage: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application.

https://gisweb.tceq.texas.gov/LocationMapper/?marker=-96.9697,30.845&level=18

Further information may also be obtained from City of Cameron at the address stated above or by calling Ms. Amy Harris, City Secretary, at 254-697-6646.

We have reviewed the NORI and do not find any errors or omissions outside of the pending discharge route review.

Applications Review and Processing Team (MC148) September 16, 2024 Page Four

We are available to discuss any additional questions or concerns, at your convenience. Please contact Jake Blair at (254) 773-3731 or <a href="mailto:jblair@kpaengineers.com">jblair@kpaengineers.com</a>.

Sincerely,

Jake L. Blair P.E.

JLB/

### Attachment No. 1

Admin 10053 Page 2 – Payment Information and WWTP Status
Admin 10053 – Payment Submittal Form & Check 52195
Admin 10053 – EPay Voucher 713704/Tracer 582EA000618172
Admin 10053 Page 8 – TPDES Discharge Route Description
Admin 10053 Page 9 – On-Site Sludge Disposal Clarification

# THE TONMENTAL OUT

#### TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

# DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

For any questions about this form, please contact the Applications Review and Processing Team at 512-239-4671.

#### **Section 1.** Application Fees (Instructions Page 26)

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 In	formation
------------	-----------

Mailed Check/Money Order Number: <u>52195</u>

Check/Money Order Amount: 35

Name Printed on Check: Kasberg, Patrick & Associates, LP

EPAY Voucher Number: 713705

Copy of Payment Voucher enclosed? Yes  $\boxtimes$ 

#### Section 2. Type of Application (Instructions Page 26)

a.	Check the box next to the appropriate authorization type.	
	$\boxtimes$	Publicly-Owned Domestic Wastewater
	☐ Privately-Owned Domestic Wastewater	
		Conventional Wastewater Treatment

**b.** Check the box next to the appropriate facility status.

□ Inactive

#### 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

BY OVERNIGHT/EXPRESS MAIL

Texas Commission on Environmental Quality Financial Administration Division

Cashier's Office, MC-214

P.O. Box 13088

Austin, Texas 78711-3088

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: WQ0010004003

1. Check or Money Order Number: 52195

2. Check or Money Order Amount: 35

3. Date of Check or Money Order: 09/17/2024

4. Name on Check or Money Order: Kasberg, Patrick & Associates, LP

5. APPLICATION INFORMATION

Name of Project or Site: Cameron Wastewater Treatment Plant

Physical Address of Project or Site: <u>LOCATED APPROX 4300 FT S-SE OF THE INTERX OF US 190 AND 77, SH 36 AND ADAMS ST; AND APPROX ONE HALF MILE EAST OF THE INTERX OF OAK ST AND GILLIS ST</u>

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.

Your transaction is complete. Thank you for using TCEQ ePay.

Note: It may take up to 3 working days for this electronic payment to be processed and be reflected in the TCEQ ePay system. Print this receipt and the vouchers for your records. An email receipt has also been sent.

#### **Transaction Information**

**Trace Number:** 582EA000618172

Date: 07/19/2024 11:54 AM

Payment Method: ACH - Authorization 0078096894

ePay Actor: SARA WILLIAMS

Actor Email: swilliams@kpaengineers.com

**IP:** 209.112.228.29

**TCEQ Amount:** \$2,015.00 **Texas.gov Price:** \$2,015.00\*

\* This service is provided by Texas.gov, the official website of Texas. The price of this service includes funds that support the ongoing operations and enhancements of Texas.gov, which is provided by a third party in partnership with the State.

#### **Payment Contact Information**

Name: JAKE BLAIR

**Company:** KASBERG PATRICK & ASSOCIATES LP **Address:** 19 N MAIN ST, TEMPLE, TX 76501

**Phone:** 254-773-3731

#### Cart Items

Click on the voucher number to see the voucher details.

Voucher	Fee Description	AR Number	Amount
713704	WW PERMIT - FACILITY WITH FLOW >= 1.0 MGD - RENEWAL		\$2,000.00
713705	30 TAC 305.53B WQ RENEWAL NOTIFICATION FEE		\$15.00
	To	CEQ Amount:	\$2,015.00



\_\_\_\_\_\_



Note: It may take up to 3 working days for this electronic payment to be processed and be reflected in the TCEQ ePay system. Print this receipt for your records.

Site Help | Disclaimer | Web Policies | Accessibility | Our Compact with Texans | TCEQ Homeland Security | Contact Us Statewide Links: Texas.gov | Texas Homeland Security | TRAIL Statewide Archive | Texas Veterans Portal

#### TCEQ ePay Voucher Receipt

- Transaction Information -

**Voucher Number:** 713704

**Trace Number:** 582EA000618172 **Date:** 07/19/2024 11:54 AM

**Payment Method:** ACH - Authorization 0078096894

Voucher Amount: \$2,000.00

**Fee Type:** WW PERMIT - FACILITY WITH FLOW >= 1.0 MGD - RENEWAL

ePay Actor: SARA WILLIAMS

Payment Contact Information -

Name: JAKE BLAIR

**Company:** KASBERG PATRICK & ASSOCIATES LP **Address:** 19 N MAIN ST, TEMPLE, TX 76501

**Phone:** 254-773-3731

Site Information

Site Name: CAMERON WASTEWATER TREATMENT PLANT

**Site Address:** 2000 E GILLIS, CAMERON, TX 76520

Site Location: APPROX 1300 FT S-SE OF THE INTERX OF US 190 190 AND 77 SH 36 & ADAMS

ST & APPROX

Customer Information -

Customer Name: CITY OF CAMERON

Customer Address: 100 S HOUSTON AVE, CAMERON, TX 76520

- Other Information -

Program Area ID: 10004001

#### TCEQ ePay Voucher Receipt

– Transaction Information -

Voucher Number: 713705

**Trace Number:** 582EA000618172 **Date:** 07/19/2024 11:54 AM

Payment Method: ACH - Authorization 0078096894

Voucher Amount: \$15.00

**Fee Type:** 30 TAC 305.53B WQ RENEWAL NOTIFICATION FEE

**ePay Actor:** SARA WILLIAMS

– Payment Contact Information –

Name: JAKE BLAIR

**Company:** KASBERG PATRICK & ASSOCIATES LP **Address:** 19 N MAIN ST, TEMPLE, TX 76501

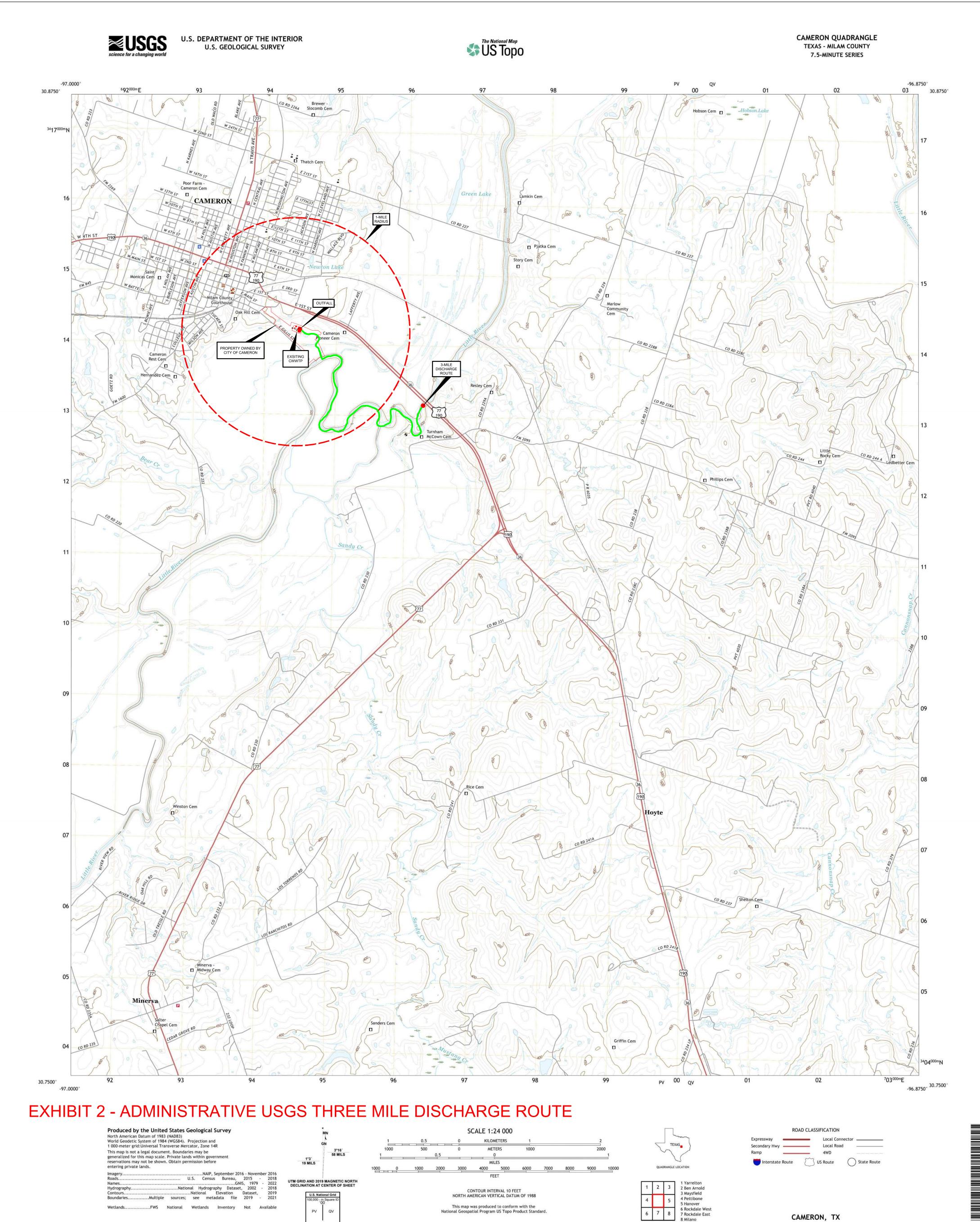
**Phone:** 254-773-3731

E.	Owner of effluent disposal site:	
	Prefix: Click to enter text.	Last Name, First Name: Click to enter text.
	Title: Click to enter text.	Credential: Click to enter text.
	Organization Name: Click to ente	er text.
	Mailing Address: Click to enter to	ext. City, State, Zip Code: Click to enter text.
	Phone No.: Click to enter text.	E-mail Address: Click to enter text.
	If the landowner is not the same agreement or deed recorded ease	person as the facility owner or co-applicant, attach a lease ement. See instructions.
	Attachment: Click to enter te	xt.
F.	Owner sewage sludge disposal si property owned or controlled by	te (if authorization is requested for sludge disposal on the applicant)::
	Prefix: Click to enter text.	Last Name, First Name: Click to enter text.
	Title: Click to enter text.	Credential: Click to enter text.
	Organization Name: Click to ente	er text.
	Mailing Address: Click to enter to	ext. City, State, Zip Code: Click to enter text.
	Phone No.: Click to enter text.	E-mail Address: Click to enter text.
	If the landowner is not the same agreement or deed recorded ease	person as the facility owner or co-applicant, attach a lease ement. See instructions.
	Attachment: Click to enter te	xt.
Se	ection 10. TPDES Dischar	ge Information (Instructions Page 31)
A.	Is the wastewater treatment facil	ity location in the existing permit accurate?
	□ Yes □ No	
		on, please give an accurate description:
		OF THE INTERX OF US 190 AND 77, SH 36 AND ADAMS ST; EAST OF THE INTERX OF OAK ST AND GILLIS ST
B.	Are the point(s) of discharge and	the discharge route(s) in the existing permit correct?
	□ Yes □ No	
		<b>ermit application</b> , provide an accurate description of the arge route to the nearest classified segment as defined in 30
		tributary and travels approximately 0.40 miles South-South 13 of the Brazos River Basin
	City nearest the outfall(s): <u>Camer</u>	<u>on</u>
	County in which the outfalls(s) is	s/are located: <u>Milam</u>
C.	Is or will the treated wastewater	discharge to a city, county, or state highway right-of-way, or
	a flood control district drainage	ditch?

	If <b>yes</b> , indicate by a check mark if:
	$\square$ Authorization granted $\square$ Authorization pending
	For <b>new and amendment</b> applications, provide copies of letters that show proof of contact and the approval letter upon receipt.
	Attachment: Click to enter text.
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: Click to enter text.
Se	ction 11. TLAP Disposal Information (Instructions Page 32)
	<u>-</u>
Α.	For TLAPs, is the location of the effluent disposal site in the existing permit accurate?
	□ Yes □ No
	If <b>no, or a new or amendment permit application</b> , provide an accurate description of the disposal site location:
	N/A. Land Application is not utilized.
B.	City nearest the disposal site: Click to enter text.
C.	County in which the disposal site is located: Click to enter text.
D.	For <b>TLAPs</b> , describe the routing of effluent from the treatment facility to the disposal site:
	Click to enter text.
Е.	For <b>TLAPs</b> , please identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained: Click to enter text.
So	ction 12. Miscellaneous Information (Instructions Page 32)
Α.	Is the facility located on or does the treated effluent cross American Indian Land?
	□ Yes ⊠ No
В.	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.

## Attachment No. 2

Exhibit No. 2 – Administrative USGS Map Exhibit No. 3 – SPIF USGS Map

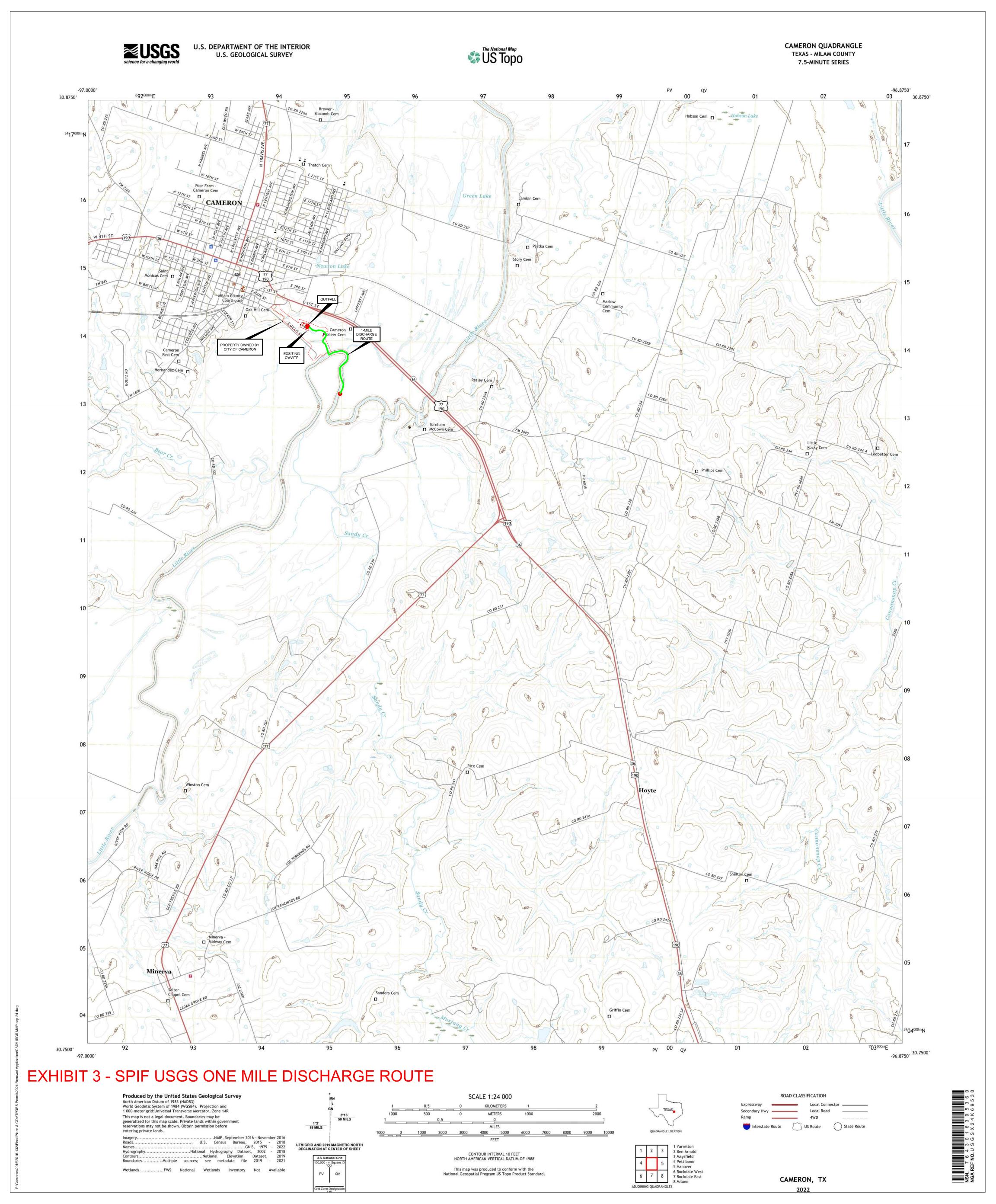


Grid Zone Designation

ADJOINING QUADRANGLES

2022

NSN. 7643016395360 NGA REF NO.USGSX24K69530



# Attachment No. 4

Supplemental Permit Information Form (SPIF)

# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

# FOR AGENCIES REVIEWING DOMESTIC OR INDUSTRIAL TPDES WASTEWATER PERMIT APPLICATIONS

TCE	USE ONLY:
Appl	cation type:RenewalMajor AmendmentMinor AmendmentNew
Cour	ty: Segment Number:
Adm	n Complete Date:
Agen	cy Receiving SPIF:
	Texas Historical Commission U.S. Fish and Wildlife
	Texas Parks and Wildlife Department U.S. Army Corps of Engineers
This f	orm applies to TPDES permit applications only. (Instructions, Page 53)
our ag is need	ete this form as a separate document. TCEQ will mail a copy to each agency as required by reement with EPA. If any of the items are not completely addressed or further information led, we will contact you to provide the information before issuing the permit. Address em completely.
attach applic compl may b	refer to your response to any item in the permit application form. Provide each ment for this form separately from the Administrative Report of the application. The ation will not be declared administratively complete without this SPIF form being eted in its entirety including all attachments. Questions or comments concerning this form a directed to the Water Quality Division's Application Review and Processing Team by at

answer specific questions about the property.				
Prefix (Mr., Ms., Miss): Mr.				
First and Last Name: <u>Brandon White</u>				
Credential (P.E, P.G., Ph.D., etc.):				
Title: <u>Public Works Director</u>				
Mailing Address: <u>P.O. Box 833</u>				
City, State, Zip Code: <u>Cameron, TX 76520</u>				
Phone No.: (254) 667-6646 Ext.: Fax No.: (254) 667-3040				
E-mail Address: <u>bwhite@camerontexas.net</u>				
List the county in which the facility is located: <u>Milam</u>				
If the property is publicly owned and the owner is different than the permittee/applicant, please list the owner of the property.				
N/A, Landowner is permittee				
Provide a description of the effluent discharge route. The discharge route must follow the flow of effluent from the point of discharge to the nearest major watercourse (from the point of discharge to a classified segment as defined in 30 TAC Chapter 307). If known, please identify the classified segment number.				
Effluent discharges into unnamed tributary and travels approximately 0.40 miles South-Southeast to Little River Segment No. 1213 of the Brazos River Basin.				
Please provide a separate 7.5-minute USGS quadrangle map with the project boundaries plotted and a general location map showing the project area. Please highlight the discharge route from the point of discharge for a distance of one mile downstream. (This map is required in addition to the map in the administrative report).				
Provide original photographs of any structures 50 years or older on the property.				
Does your project involve any of the following? Check all that apply.				
☐ Proposed access roads, utility lines, construction easements				
□ Visual effects that could damage or detract from a historic property's integrity				
☑ Vibration effects during construction or as a result of project design				
□ Additional phases of development that are planned for the future				
☐ Sealing caves, fractures, sinkholes, other karst features				

Provide the name, address, phone and fax number of an individual that can be contacted to

2.3.

4.

5.

	☐ Disturbance of vegetation or wetlands
1.	List proposed construction impact (surface acres to be impacted, depth of excavation, sealing of caves, or other karst features):
	Construction will consist of building large concrete basins for new treatment units within WWTP site approximately 3 Acres of surface impact. Excavation depth will range from slab on grade to approximately 6'-8' below existing ground. No karst features or caves are expected to be encountered.
2.	Describe existing disturbances, vegetation, and land use:
	Existing disturbances is noise from WWTP operations. Only vegetation within site is grass.  Construction area within the WWTP has been previously disturbed.
	HE FOLLOWING ITEMS APPLY ONLY TO APPLICATIONS FOR NEW TPDES PERMITS AND MAJOR MENDMENTS TO TPDES PERMITS
3.	List construction dates of all buildings and structures on the property:
	Original Treatment Plant was constructed in 1958 this included existing clarifiers (2), digesters (2), aeration basin (1), chlorine contact basin (1), headworks and influent pump station. Equalization basin and headworks improvements (fine screens) were added in 2005.
4.	
	Architect/Builder is not known, site was a grass/brush filled area with a few neighboring houses when WWTP was built in 1958.

## Attachment No. 5

Administrative Report 1.1 & Exhibits Worksheet 4.0 & Lab Results

# DOMESTIC WASTEWATER PERMIT APPLICATION **TECHNICAL REPORT 1.1**

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

#### **Justification for Permit (Instructions Page 57)** Section 1.

#### A. Justification of permit need

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

Major Amendment for Phase II includes addition of 0.29 MGD Treatment Capacity to meet existing flows and comply with TCEQ Capacity Requirements. The existing treatment capacity is 0.96 MGD. The attached document details the basis for the 1.25 MGD Capacity. Improvements are required to replace aging infrastructure, upgrade treatment capacity to 2040 projected values and to address Notice of Violations stated in Investigation No. 1455348 issued by TCEQ. (See Attached Sheet) We are under TWDB final review and shall be bidding the project within the year.

### B. Regionalization of facilities

2.

For additional guidance, please review TCEQ's Regionalization Policy for Wastewater Treatment<sup>1</sup>.

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

#### 1.

<sup>1</sup> https://www.tceg.texas.gov/permitting/wastewater/tceg-regionalization-for-wastewater

If yes, attach a justification for the proposed facility and a cost analysis of expenditures that includes the cost of connecting to the CCN facilities versus the cost of the proposed facility or expansion. **Attachment**: Click to enter text. 3. Nearby WWTPs or collection systems Are there any domestic permitted wastewater treatment facilities or collection systems located within a three-mile radius of the proposed facility?  $\boxtimes$ Yes If ves, attach a list of these facilities and collection systems that includes each permittee's name and permit number, and an area map showing the location of these facilities and collection systems. Attachment: Click to enter text. If yes, attach proof of mailing a request for service to each facility and collection system, the letters requesting service, and correspondence from each facility and collection system. **Attachment**: Click to enter text. If the facility or collection system agrees to provide service, attach a justification for the proposed facility and a cost analysis of expenditures that includes the cost of connecting to the facility or collection system versus the cost of the proposed facility or expansion. Attachment: Click to enter text. Section 2. Proposed Organic Loading (Instructions Page 59) Is this facility in operation? Yes □ No **If no**, proceed to Item B, Proposed Organic Loading. If yes, provide organic loading information in Item A, Current Organic Loading Average Influent Organic Strength or BOD<sub>5</sub> Concentration in mg/l: 142 mg/L

#### A. Current organic loading

Facility Design Flow (flow being requested in application): 1.25 MGD

Average Influent Loading (lbs/day = total average flow X average BOD<sub>5</sub> conc. X 8.34): 1,481 lbs

Provide the source of the average organic strength or BOD<sub>5</sub> concentration.

Municipal Wastewater determined by Influent Sampling					

#### B. Proposed organic loading

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

Table 1.1(1) - Design Organic Loading

Source	Total Average Flow (MGD)	Influent BOD5 Concentration (mg/l)
Municipality		
Subdivision		
Trailer park - transient		
Mobile home park		
School with cafeteria and showers		
School with cafeteria, no showers		
Recreational park, overnight use		
Recreational park, day use		
Office building or factory		
Motel		
Restaurant		
Hospital		
Nursing home		
Other		
TOTAL FLOW from all sources		
AVERAGE BOD <sub>5</sub> from all sources		

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

# A. Existing/Interim I Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: 20

Total Suspended Solids, mg/l: 20

Ammonia Nitrogen, mg/l: N/A

Total Phosphorus, mg/l: N/A

Dissolved Oxygen, mg/l: 3.0

Other: Click to enter text.

R	Interim II Phase Design Effluent Quality
	Biochemical Oxygen Demand (5-day), mg/l: <u>10</u>
	Total Suspended Solids, mg/l: 15
	Ammonia Nitrogen, mg/l: 2
	Total Phosphorus, mg/l: N/A
	Dissolved Oxygen, mg/l: <u>6</u>
	Other: Click to enter text.
C.	Final Phase Design Effluent Quality
	Biochemical Oxygen Demand (5-day), mg/l: <u>N/A</u>
	Total Suspended Solids, mg/l: <u>N/A</u>
	Ammonia Nitrogen, mg/l: <u>N/A</u>
	Total Phosphorus, mg/l: <u>N/A</u>
	Dissolved Oxygen, mg/l: <u>N/A</u>
	Other: Click to enter text.
D.	Disinfection Method
	Identify the proposed method of disinfection.
	$oxed{\boxtimes}$ Chlorine: 1.0 mg/l after 20 minutes detention time at peak flow
	Dechlorination process: <u>Sulphur Bisulfite</u>
	□ Ultraviolet Light: <u>Click to enter text.</u> seconds contact time at peak flow
	□ Other: <u>Click to enter text.</u>
Co	estion 4 Design Coloulations (Instructions Bags 50)
	ection 4. Design Calculations (Instructions Page 59)
	tach design calculations and plant features for each proposed phase. Example 4 of the structions includes sample design calculations and plant features.
	Attachment: See Exhibit No. 16 – Design Calculations
	<u> </u>
Se	ection 5. Facility Site (Instructions Page 60)
A.	100-year floodplain
	Will the proposed facilities be located <u>above</u> the 100-year frequency flood level?
	⊠ Yes □ No
	<b>If no</b> , describe measures used to protect the facility during a flood event. Include a site map showing the location of the treatment plant within the 100-year frequency flood level. If applicable, provide the size and types of protective structures.
	Click to enter text.

	Provide the source(s) used to determine 100-year frequency flood plain.			
	Exhibits No. 15 FEMA Map Panel ID 4804780002D			
	For a new or expansion of a facility, will a wetland or part of a wetland be filled?			
	□ Yes ⊠ No			
	If yes, has the applicant applied for a US Corps of Engineers 404 Dredge and Fill Permit?			
	□ Yes □ No			
	If yes, provide the permit number: Click to enter text.			
	<b>If no,</b> provide the approximate date you anticipate submitting your application to the Corps: Click to enter text.			
B.	Wind rose			
	Attach a wind rose: Click to enter text.			
C <sub>0</sub>	action 6 Dormit Authorization for Courage Cludge Dienosal			
<b>3</b> e	ection 6. Permit Authorization for Sewage Sludge Disposal (Instructions Page 60)			
Α.	Beneficial use authorization			
	Are you requesting to include authorization to land apply sewage sludge for beneficial use on property located adjacent to the wastewater treatment facility under the wastewater permit?			
	□ Yes ⊠ No			
	If yes, attach the completed <b>Application for Permit for Beneficial Land Use of Sewage Sludge (TCEQ Form No. 10451)</b> : <u>Click to enter text.</u>			
B.	Sludge processing authorization			
	Identify the sludge processing, storage or disposal options that will be conducted at the wastewater treatment facility:			
	□ Sludge Composting			
	☐ Marketing and Distribution of sludge			
	□ Sludge Surface Disposal or Sludge Monofill			
	If any of the above, sludge options are selected, attach the completed <b>Domestic</b> Wastewater Permit Application: Sewage Sludge Technical Report (TCEQ Form No. 10056): Click to enter text.			
Se	ection 7. Sewage Sludge Solids Management Plan (Instructions Page			

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

Attach a solids management plan to the application.

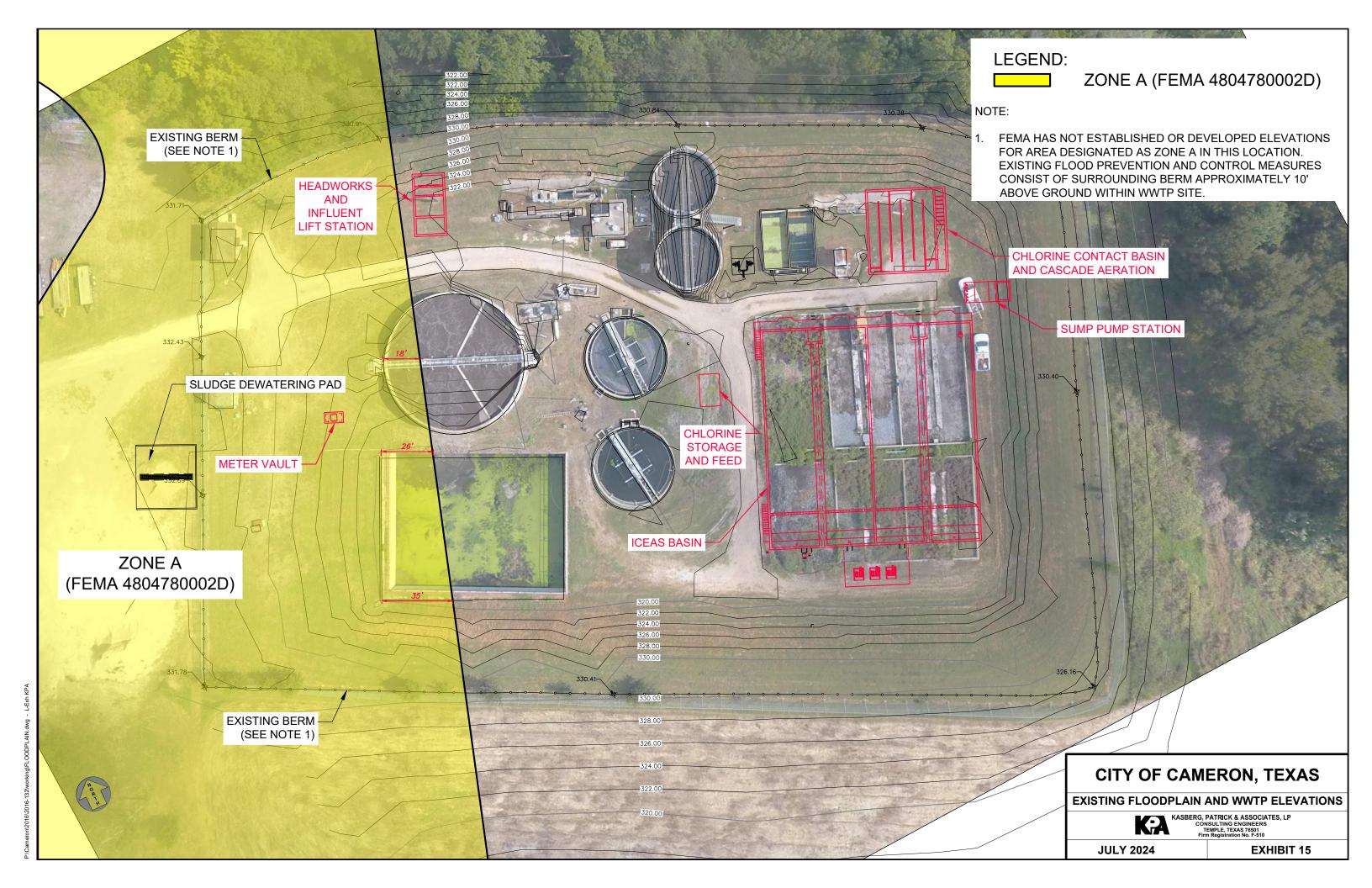
Attachment: See Exhibit No. 17 – Sludge Management

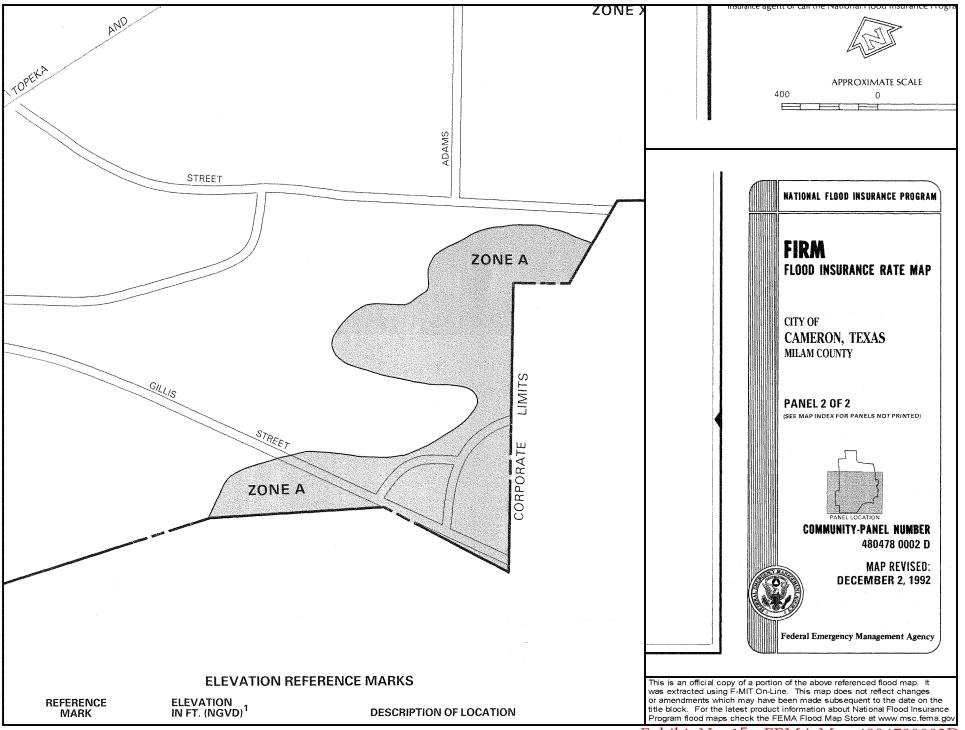
The sewage sludge solids management plan must contain the following information:

• Treatment units and processes dimensions and capacities

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

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





#### Cameron Wastewater Treatment Plant

#### Exhibit No. 16 - Design Calculations

#### **Influent Quality Characteristics:**

<u>Parameter</u>	<u>Average</u>	Std Deviation	<u>Design Value</u>
BOD <sub>5</sub>	142 mg/L	40 mg/L	182 mg/L
TSS	119 mg/L	13 mg/L	132 mg/L
NH <sub>3</sub> -N	26 mg/L	6 mg/L	32 mg/L

#### **Influent Flow Characteristics:**

The Cameron WWTP (currently 0.96 MGD) receives gravity flow from the City of Cameron collection system. The historical flow data was reviewed and incorporated into flow projections. The following projections are through the year 2040.

Table 4(1) – Design Calculations

Flow	Gallons Per Day	Gallons Per Minute
Average Daily Flow (Q <sub>ave</sub> )	1,250,000	868
Peak 2-Hour Flow (Q <sub>pk</sub> )	5,000,000	3,472

Loading	Pounds Per Day
BOD <sub>5</sub>	1,898
TSS	1,376

#### **Existing Process Design**

The existing treatment process consists of an aeration basin and two clarifiers. The existing aeration basin will not be required in the 1.25 MGD Plant Expansion. The existing aeration basin will be converted to equalization to allow consistent flow to the proposed process. Likewise, the existing clarifiers do not meet the hydraulic requirements and will be removed from service and abandoned in place.

#### **Process Design**

A Continuous Flow SBR will be constructed (4 adjacent basins) for the new treatment process, replacing both the existing Aeration Basin and the Clarifiers.

#### **Phasing**

The construction of the Cameron WWTP expansion is recommended to be constructed in two (2) concurrent phases:

#### 1. Phase I

- a. Construct sludge dewatering / solids handling facilities consisting of:
  - i. 2 20 Yard Sludge Mate dewatering trailers
  - ii. Applicable pumping and piping modifications to allow water to be returned to head of plant.
- b. No Change in Capacity

- c. Will allow Phase II to be constructed in place of existing Sludge Drying Beds.
- 2. Phase II to be constructed pursuant to this permit amendment
  - a. Design Flow = 1.25 MGD
  - b. Peak Flow = 5.0 MGD
  - c. Treatment Facilities
    - i. Influent Fine Screen
    - ii. Clarifier
    - iii. Filtration (34 MGD installed, sized for 50 MGD)
    - iv. UV Disinfection (34 MGD installed, sized for 50 MGD)
    - v. Gravity Thickener
    - vi. Associated Pump Stations

#### **Treatment Units**

**Biological Treatment** – See attached SBR Design Sheets

#### **Facility Design Features**

#### A. Emergency Power Requirements

Emergency Generation will be incorporated into the Phase II Improvements.

#### B. Alarm Feature

The Cameron WWTP will have its Supervisory Control and Data Acquisition (SCADA) system upgraded, incorporating alarms on each of the existing treatment units. The system will have both audible/visual alarms at key treatment units and shows alarms at the operator's computer. In addition to the existing alarms, the following will be integrated into the system:

- i. Equipment Run Signal (on/off)
- ii. Pump/Blower Run Failure
- iii. High/Low Water Level Indicators
- iv. SBR SCADA system
- v. Chlorine Residual (before and after dechlor)
- vi. Effluent Flow

#### C. Design Features for Reliability and Operating Flexibility

The Continuous Flow SBR will have 4 separate basins (treatment trains) that will allow the wide range of flows to be treated at the facility. Likewise, the fine screen will have a manually screened bypass. The inclusion of an equalization facility will allow the existing treatment unit to be utilized during high flow events. This will allow the SBR to operate within its design parameters and allow the flexibility of storing flow should there be a unit out downstream.

#### D. Overflow Prevention

The following design parameters and/or features have been included to prevent overflow of wastewater from the treatment units:

 The inclusion of emergency generation and equalization gives extra flexibility and overflow protection.

- ii. The facility hydraulic design, including piping, channels, weirs, troughs and other features are sized to allow the 2-hour peak flow to pass through the facility without exceeding the minimum freeboard requirements with any single treatment unit out of service.
- iii. Should either of these improvements have issues, the entire site is "bermed" which will contain any overflows (which are not anticipated)

#### **DESIGN PROPOSAL**

Cameron TX Sanitaire #26845-16A

MGD	1.	1.25	
MGD	3.	.75	
MGD	5.	5.00	
	mg/l	lb/day	
	250	2606	
	240	2502	
	40	417	
°C	2	20	
°C	1	L5	
°F	20	- 90	
ft	4	00	
s flow			
	MGD MGD °C °C °F ft	MGD 3. MGD 5. mg/l 250 240 40 °C °C °F 20 ft 4	

## Table B: ICEAS® EFFLUENT QUALITY (MONTHLY AVERAGE)

BOD <sub>5</sub> (20°C)	mg/l	10
Suspended Solids	mg/l	10
NH <sub>3</sub> -N	mg/l	1

#### **Table C: ICEAS PROCESS DESIGN CRITERIA**

Operating Basins		4
Operating Top Water Level	ft	18.00
F/M	BOD5/DAY/MLSS	0.065
SVI (after 30 minutes settling)	ml/g	150
MLSS at Bottom Water Level	mg/l	5,015
Waste Sludge Produced (Approx.)	lb/day	1,962
Volume of Sludge Produced		
(Approx., 0.85% solids)	GPD	27,700
Normal Decant Rate	GPM	2,604
Peak Decant Rate	GPM	3,472
Hydraulic Retention Time	Days	0.89
Sludge Age	Days	19.3
Alkalinity	mg/l	223

Bold, italicized text indicate assumptions made by Sanitaire

#### **Cycle Timing**

		Max Month*	
		Normal	Min
Air-On	min	120	90
Settle	min	60	45
Decant	min	60	45
Total	min	240	180

#### **Table D: KEY ICEAS DESIGN DETAILS**

Top Water Level	ft	18.00
Basin Width (Inside)	ft	25.0
Basin Length (Inside)	ft	107.0
Bottom Water Level	ft	12.07

ICEAS EQUIPMENT(Base Des	ign)		Motor HP N	lo. Req.	
Decanter Mechanism	17.5 'Weir length			4	
Decanter Drive Unit			3/4	4	
ICEAS Blower	720 SCFM	8.0 PSIG	50	3	
ICEAS Fine Bubble Aeration Syst	rem 686 Disc Diffusers/Basin			4	
Air Control Valve	8 "			4	
Waste Sludge Pump	110 GPM		2.4	4	
ICEAS Controls	(SBR Panel, Local Decanter Panels, DO & SRT Control, MCC f	o SBR Equipment)		1	

<b>ICEAS POWER REQUIREMENTS</b>	Max Month	(At Ave	rage Aeration I	Depth)	Kwh/Day
Decant Drive Unit	0.6 BHP	4 run	@	6 Hrs/day	10.7
ICEAS Air Blowers	40.7 BHP	2 run*	@	24 Hrs/day	1,456.4
Waste Sludge Pump	1.9 BHP	8 run	@	1.0 Hrs/day KWH/DAY	12.0 1,479.1
			AVERAGE	KWH/HR	61.63

<sup>\*</sup> Shared ICEAS Blowers

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## SANITAIRE ICEAS Detailed Design Calculations BOD Removal and Nitrification Process

## SANITAIRE Project #26845-16A Cameron TX

#### **Design Parameters**

#### A. Flow

 Design
 1,250,000 GPD

 Max 4.0hr Cycle Flow
 3,750,000 GPD

 Max 3.0hr Cycle Flow
 5,000,000 GPD

#### **B.** Treatment

	Influent	Effluent
	Quality	Requirement
BOD <sub>5</sub> (20°C), mg/l	250	10
Suspended Solids, mg/l TKN, mg/l	240 40	10
NH <sub>3</sub> -N, mg/l	40	1
TN, mg/l Phosphorus		

#### C. Environment

Alkalinity (Minimum Requirement)

Max Wastewater Temperature

Min Wastewater Temperature

15 °C

Ambient Air Temperature

20 - 90 °F

Site Elevation

20 - 90 °F

#### **D. ICEAS Process Design Criteria**

F / M  $0.065~BOD_5$  / MLSS / day SVI (after 30 minutes settling) 150 ml/g Number of ICEAS Basins 4 Top Water Level 18 ft

#### **E. Cycle Timing**

		Normal	Storm
Air-On	min	120	90
Air-Off	min		
Settle	min	60	45
Decant	min	60	45
Total	hrs	4	3

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#### F. Detailed Calculations

#### **Mass of BOD**

BODL = 
$$\frac{Q \times BODin \times 8.34}{1,000,000} = \frac{312,500 \times 250 \times 8.34}{1,000,000} = 652 \text{ lb/day/basin}$$

where: BODL = BOD Load (lb/day/basin)

Q = Average Dry Weather Flow per basin (gal/day)

BODin = Influent BOD concentration (mg/l)

1,000,000 = Conversion (I/mg)

8.34 = Conversion (lb/gal)

#### **Mass of Biomass**

BMOB = 
$$\frac{BOD_L}{F/M} = \frac{652}{0.0653} = 9,972 \text{ lb/basin}$$

where: BMOB = Mass of Biomass (lb/day/basin)

F / M = Food to Microorganism ratio (day<sup>-1</sup>)

#### **Volume of Biomass**

where: Vbio = Volume of Biomass (ft³/basin)

SVI = Sludge Volume Index (ft³/lb)

# **9**

#### **Maximum Volume Above Bottom Water Level**

#### **Peak Dry Weather Flow:**

Vbwld = 
$$\frac{\text{PDWF x (NCT-NDT)}}{24 \times 7.48} = \frac{937,500 \times (4.0 - 1.00)}{24 \times 7.48} = 15,667 \text{ ft}^3/\text{basin}$$

where: Vbwld = Maximum Volume Above BWL at Peak Dry Weather Flow (ft³/basin)

PDWF = Peak Dry Weather Flow (gal/day)

NCT = Normal Cycle Time (hr/cycle)

NDT = Decant Time (hr/cycle)

7.48 = Conversion (gal/ft<sup>3</sup>)

24 = Conversion (hours/day)

#### **Peak Wet Weather Flow:**

Vbwls = 
$$\frac{\text{PWWF x (SCT - SDT)}}{24 \text{ x } 7.48} = \frac{1,250,000 \text{ x } (3.0 - 0.75)}{24 \text{ x } 7.48} = 15,667 \text{ ft}^3/\text{basin}$$

where: Vbwls = Maximum Volume Above BWL at Peak Wet Weather (Storm) Flow (ft³/basin)

PWWF = Peak Wet Weather Flow (gal/day)

SCT = Storm Cycle Time (hr/cycle)

SDT = Storm Decant Time (hr/cycle)

MVAB (Maximum Volume Above Bottom Water Level) is larger of Peak Dry Weather and Peak Wet Weather Calculation

#### **Decant Rates**

#### **Peak Dry Weather Flow:**

$$PDR = \frac{MVAB \times 7.48}{NDT} + \frac{PDWF}{1,440} = \frac{15,667 \times 7.48}{60.0} + \frac{937,500}{1,440} = 2,604 \text{ gal/min}$$

where: PDR = Normal Decant Rate (gal/min)

NDT = Normal Decant Time (min/cycle)

1440 = Conversion (min/day)

#### **Peak Wet Weather Flow:**

$$PWR = \frac{MVAB \times 7.48}{SDT} + \frac{PWWF}{1,440} = \frac{15,667 \times 7.48}{45.0} + \frac{1,250,000}{1,440} = 3,472 \text{ gal/min}$$

where: PWR = Peak Decant Rate (gal/min)

SDT = Storm Decant Time (min/cycle)



#### **Decanter Sizing**

#### **Peak Dry Weather Flow:**

DLa = 
$$\frac{\text{PDR}}{\text{Weir Loading Rate x 7.48}} = \frac{2,604}{20 \text{ x 7.48}} = 17.41 \text{ ft}$$

where: DLa = Decanter Length for Average Dry Weather Flow (ft)

20 = Weir Loading Rate (ft³/min/ft of decanter weir)

#### **Peak Wet Weather Flow:**

DLp = 
$$\frac{PWR}{\text{Weir Loading Rate x 7.48}} = \frac{3,472}{27 \text{ x 7.48}} = 17.19 \text{ ft}$$

where: DLp = Decanter Length for Peak Wet Weather (Storm) Flow (ft)

27 = Weir Loading Rate (ft³/min/ft of decanter weir)

Design Decanter Length = 17.5 ft

#### **Basin Working Volume**

where: BWV = Basin Working Volume (ft³/basin)

#### **Basin Area**

BA = 
$$\frac{BWV}{TWL - BZ} = \frac{39,600}{18.0 - 3.0} = 2,640 \text{ ft}^2/\text{basin}$$

where:  $BA = Basin Area (ft^2)$ 

TWL = Top Water Level (ft)

BZ = Buffer Zone (ft) (Safety Factor)

#### **Sludge Depth**

$$SD = \frac{Vbio}{BA} = \frac{23,933}{2,640} = 9.07 \text{ ft}$$

where: SD = Sludge Depth (ft)



#### **Decanter Draw Down**

$$DD = \frac{MVAB}{BA} = \frac{15,667}{2,640} = 5.93 \text{ ft}$$

where: DD = Draw Down (ft)

#### **Bottom Water Level**

where: BWL = Bottom Water Level (ft)

Vd = Depth of Chemical Sludge for Phosporus precipitation (ft)

#### **Top Water Level**

where: TWL = Top Water Level (ft)

#### **Hydraulic Retention Time**

$$HRT = \frac{BA \times MAFD \times 7.48}{QT}$$

where: HRT = Hydraulic Retention Time (days)

MAFD = Maximum Average Flow Depth (ft)

QT = Fill Rate at Average Dry Weather Flow (gal/day)

MAFD = 
$$\frac{Q \times [(NCT \times 60) - NDT]}{BA \times 1,440 \times 7.48} + BWL =  $\frac{312,500 \times [(4.0 \times 60) - 60.0]}{2,640 \times 1,440 \times 7.48} + 12.07 =$ **14.04 ft**$$

HRT = 
$$\frac{2,640 \times 14.04 \times 7.48}{312,500}$$
 = **0.89 days**



#### **MLSS Concentration at Bottom Water Level**

MLSS = 
$$\frac{\text{Mbio x 1,000,000}}{\text{BWL x BA x 62.42}} = \frac{9,972 \times 1,000,000}{12.07 \times 2,640 \times 62.42} = 5,015 \text{ mg/l}$$

where: MLSS = Mixed Liquor Suspended Solids concentration at Bottom Water Level (mg/l)

62.42/1E+06 = Conversion (lb/mg x l/ft<sup>3</sup>)

#### **Mass of Sludge Produced**

$$\Delta M = \left( \frac{Y \times (BOD_{in} - BOD_{out})}{1 + (B \times \theta^{(T-20)} \times SRT)} + Zio + Zno \right) \times \frac{Q \times 8.34}{1,000,000} + Csludge$$

$$\Delta M = \left( \frac{0.6 \times (250 - 10.0)}{1 + (0.07 \times 1.04^{(15-20)} \times 19.3)} + 48.0 + 72.0 \right) \times \frac{3.1E + 05 \times 8.34}{1,000,000} + 0 = 490 \text{ lb/day/basin}$$

(Lawrence-McCarty Equation as presented in WEF MOP/8 4th Edition, pg 11-11, Eqn. 11.7)

where:  $\Delta M = Mass of Sludge Produced (lb/day/basin)$ 

Y = Volatile cell yield (VSS/BOD removed)

q = Arrhenius Temperature Correction Factor

B = Decay Rate (day<sup>-1</sup>)

BOD<sub>out</sub> = Anticipated Effluent BOD (mg/l)

SRT = Solids Retention Time (days)

Zio = Nonvolatile Influent suspended solids (mg/l)

Zno = Volatile Non-Biodegradable solids (mg/l)

T = Minimum Wastewater Temperature (°C)



#### **Volume of Sludge Produced**

$$V_{ws} = \frac{\Delta M}{SFws \times 8.34} = \frac{490}{0.0085 \times 8.34} = 6,918 \text{ gal/day/basin}$$

where: Vws = Volume of Waste Sludge (gal/day/basin)

SFws = Solids Fraction in Waste Sludge

8.34 = Density (lb/gal)

#### **Observed Yield Factor**

Yobs = 
$$\frac{\Delta M}{BOD_L} = \frac{490}{652} = 0.75 \frac{MLSS}{BOD}$$

Observed Yield Factor (lb/day MLSS/lb/day BODremoved)

#### **Mean Cell Residence Time**

$$MCRT = \frac{Mbio}{\Delta M + ((Q - Vws) \times TESS \times 8.34 / 1E+06)}$$

MCRT = 
$$\frac{9,972}{490 + ((312,500 - 6,918) \times 10.0 \times 8.34 / 1,000,000)}$$
 = **19.3 days**

where: MCRT = Mean Cell Residence Time (days)

TESS = Anticipated Effluent Total Suspended Solids (mg/l)

8.34E-06 = Conversion (lb/mg x l/gal)

#### **Sludge Age for Nitrification**

Refer to Metcalf and Eddy, Edition IV pages 614 and 705

#### **Constants and Temperature Corrections:**

Coefficient	Base	Theta	Temperature	Symbol
	Value		Corrected	
Maximum Specific Growth Rate of Nitrifying				
bacteria, g VSS/g VSS.day	0.75	1.07	0.535	$\mu_{nm}(T)$
Half-Velocity constant for nitrifiers	0.74	1.053	0.572	Kn(T)
Nitrifier decay rate	0.08	1.04	0.066	Kdn(T)
Dissolved Oxygen, mg/l	2		2	DO
Half-Velocity Constant for Dissolved Oxygen, mg/l	0.5		0.5	Ко
Minimum Water Temperature, °C	15		15	Т
Safety Factor	2.0		2.0	SF

#### Calculations:

$$\mu_{n} = \left( \mu_{nm}(T) \times \frac{TENH_{3}}{TENH_{3} + Kn(T)} \times \frac{DO}{DO + Ko} \right) - Kdn(T)$$

$$\mu_n = \left( 0.535 \times \frac{1.0}{1.0 + 0.572} \times \frac{2.0}{2.0 + 0.5} \right) - 0.066 = 0.206 \text{ days}^{-1}$$

SRTmin = 
$$\frac{1}{\mu_n} = \frac{1}{0.206} = 4.8 \text{ days}$$

SRTaerobic = SRTmin x SF = 
$$4.8 \times 2.0 = 9.6$$
 days

SRToverall = 
$$\frac{\text{SRTaerobic x 24}}{\text{TA}} = \frac{9.6 \times 24}{12.0} = 19.3 \text{ days}$$

#### Design sludge age adequate for nitrification.

where: μnm(T) = Maximum Temperature Corrected Nitrifier Growth Rate (days<sup>-1</sup>)

 $\mu_n$  = Specific Nitrifier Growth Rate at Temperature, DO, and Effluent NH<sub>3</sub> (g/g-days)

SRTmin = Minimum Sludge age required for Nitrification (days)

SRTaerobic = Design Aerobic Sludge Age (days)

SF = Safety Factor

SRToverall = Sludge Age accounting for entire ICEAS cycle (days)

TA = Aeration Time (hrs/day)

TENH<sub>3</sub> = Anticipated Effluent Ammonia (mg/l)



# **Waste Sludge Pump Capacity**

WSP = 
$$\frac{\text{Vws x NCT}}{24 \text{ x SPT}} = \frac{6,918 \times 4.0}{24 \times 10.48} = 110 \text{ gal/min}$$

where: WSP = Waste Sludge Pump Capacity(gal/min) SPT = Sludge Pumping Time (min/cycle)



# SANITAIRE ICEAS Aeration Design Calculations BOD Removal and Nitrification Process

# SANITAIRE Project #26845-16A Cameron TX

#### **Carbonaceous Oxygen Demand**

AOR1 = A x 
$$\frac{Q \times BODin}{1,000,000} \times 8.34 = 1.20 \times \frac{312,500 \times 250}{1,000,000} \times 8.34 = 782 \text{ lb/day/basin}$$

where AOR1 = Actual Oxygen Required for BOD oxidation (lb/day/basin)

A = O2/BOD

Q = Average flow (gal/day/basin)

BODin = Influent BOD received (mg/l)

1,000,000 = Conversion (g x mg)

8.34 = Conversion (lb x gal)

#### **Nitrification Oxygen Demand**

$$AOR2 = TKNox \times 4.60 = 63.3 \times 4.60 = 291 lb/day/basin$$

where AOR2 = Actual Oxygen required for Ammonia Oxidation (lb/day/basin)

TKNox = Nitrogen available for oxidation(lb/day/basin)

#### Constants

110		
Coefficient	Value	Symbol
VSS/TSS	0.7574	
Sludge N	0.07	Ns
Effluent Dissolved Organic Nitrogen, mg/l	1	EDON
Expected Effluent Ammonium concentration	1	TENH <sub>3</sub>

$$TKN_{ox} = (TKN - EDON - TENH_3 - N_{assim} - N_{part}) \times Q \times 8.34 \div 1,000,000$$

$$TKN_{ox} = (40 - 1 - 1 - 13.17 - 0.53) \times 312,500 \times 8.34 \div 1,000,000 = 63.3 lb/day/basin$$

where  $N_{assim}$  = Nitrogen assimilated into biomass, (mg/l)

$$N_{assim}$$
=BOD<sub>in</sub> x  $N_s$  x  $Y_{obs}$  = 250 x 0.07 x 0.753 = **13.17 mg/l**

where  $Y_{obs}$  = Observed Sludge Yield, (MLSS produced /  $\overline{BOD}$  removed)

$$N_{part}$$
 = TESS x  $N_{S}$  x VSS/TSS = 10 x 0.07 x 0.76 = **0.53 mg/l**

where  $N_{part}$  = Nitrogen bound to VSS portion of effluent TSS (mg/l)

TESS = Anticipated Effluent Total Suspended Solids (mg/l)



### **Total Actual Oxygen Transfer**

$$AOR = AOR1 + AOR2 - AOR3 = 782 + 291 + 0 = 1,073 lb/day$$

where AOR = Total Actual Oxygen Required (lb/day/basin)

### **Total Standard Oxygen Transfer**

$$SOR = \frac{AOR}{AOR / SOR} = \frac{1,073}{0.4455} = 2,409 \text{ lb/day/basin}$$

$$\frac{|AOR|}{|SOR|} = \frac{\alpha \times \theta^{(TSite - 20)} \times (\beta \times C^* sat_{20} \times Psite / Pstd \times Csurf_T / Csurf_{20} - D.O.)}{C^* sat_{20}}$$

$$\frac{AOR}{SOR} = \frac{0.60 \times 1.024^{(20-20)} \times (0.95 \times 10.25 \times 14.50 / 14.70 \times 9.07 / 9.07 - 2.0)}{10.25} = 0.4455$$

where SOR = Standard Condition Oxygen Requirement (lb/day/basin)

 $\alpha$  = Alpha factor

 $\theta$  = Temperature coefficient

Tsite = Water temperature (°C)

 $\beta$  = Beta factor

Psite = Site Atmospheric Pressure

Pstd = Standard atmospheric pressure (psig)

C sat<sub>20</sub> = Dissolved oxygen solubility at standard conditions (mg/l)

Csurf<sub>T</sub> = Dissolved oxygen solubility at site water temperature (mg/l)

Csurf<sub>20</sub> = Dissolved oxygen solubility at 20°C (mg/l)

D.O. = Residual dissolved oxygen concentration (mg/l)



#### **Aeration System Standard Oxygen Transfer Rate**

SOTR = 
$$\frac{SOR}{TA} = \frac{2,409}{12} = 201 \text{ lb/hr/basin}$$

where SOTR = Standard oxygen transfer rate (lb/hr/basin)
TA = Aeration Time, (hrs/day)

#### **Aeration Depth**

#### Average Aeration Depth

AADad = 
$$\frac{Q \times [(NCT \times 60) - (NDT + NST)]}{2 \times 1,440 \times 7.48 \times BA} + BWL$$

AADad = 
$$\frac{313,000 \times [(4.0 \times 60) - (60 + 60)]}{2 \times 1,440 \times 7.48 \times 2,640} + 12.07 = 12.72 \text{ ft}$$

where AADad = Average Aeration Depth at Average Dry Weather Flow (gpd)

Q = Average Dry Weather Flow (gpd/basin)

NCT = Normal Cycle Time (hr)

NDT = Normal Decant Time (min)

NST = Normal Settling Time (min)

BA = Basin Area (ft²)

1440 = Conversion (min/day)

2 = Calculate Aeration Depth at Middle of Normal Reaction Phase (NCT - NST - NDT)

 $7.48 = Conversion (gal/ft^3)$ 

#### **Maximum Aeration Depth**

MADpw = 
$$\frac{PWWF \times [(SCT \times 60) - (SDT + SST)]}{1,440 \times 7.48 \times BA} + BWL$$

MADpw = 
$$\frac{1,250,000 \times [(3.0 \times 60) - (45 + 45)]}{1,440 \times 7.48 \times 2,640} + 12.07 = 16.02 ft$$

where MADpw = Maximum Aeration Depth at Peak Wet Weather Flow (gpd)

PWWF Peak Wet Weather Flow (gpd/basin)

SCT = Storm Cycle Time (hr)

SDT = Storm Decant Time (min)

SST = Storm Settle time (min)

MAD = Maximum Aeration Depth (ft)

MAD is larger of MADad and MADpw

$$MAD = 16.02 ft$$



### **Air Flow Requirement**

Process Air = 
$$\frac{\text{SOTR x } 10,000}{\rho \text{ x SOTE x Opw x } 60} = \frac{201 \text{ x } 10,000}{0.075 \text{ x } 26.71 \text{ x } 23.2 \text{ x } 60} = 720 \text{ scfm}$$

where Process Air = Process air flow requirement (scfm)

 $\rho$  = Air density (0.075 lb/day/ft<sup>3</sup>)

SOTE = Standard Oxygen Transfer Efficiency @ Submergence of 11.72 ft

Opw = Fraction of Oxygen in air by Weight

10,000 = Conversion (100% \* 100%)

60 = Conversion (min/hr)

Mixing Air = MI x BA = 
$$0.13 \times 2,640 = 330 \text{ scfm}$$

where Mixing Air = Mixing air flow requirement (scfm)

MI = recommended air flow per unit area of basin (scfm/ft²)

#### **Blower Unit Capacity**

Blower unit capacity (BUC) is the larger of the process air requirement and the mixing air requirement.

Process Air 720 scfm

Mixing Air 330 scfm

Use 1 blower per tank

BUC = **720 scfm** 

#### **Blower Pressure**

psig = MAD x 
$$0.432 + H_L = 16.02 \times 0.432 + 1.00 = 8.0 \text{ psig}$$

where psig = blower pressure (rounded to next psig)

0.432 = water density (psi/ft)

 $H_L$  = Cumulative piping and diffuser headloss (psig)

#### Cameron Wastewater Treatment Plant

#### Exhibit No. 17 - Sludge Management Plan

Influent Design Flow = 1.25 MGD

Influent BOD Concentration = 180 mg/L

Cameron will utilize digesters prior to sludge dewatering trailers.

Table 1 - Sludge Production

rubic 1 bludge i roduction				
	100%	75%	50%	25%
Solids Generated	Flow	Flow	Flow	Flow
Influent BOD (lbs)	1,960	1,470	980	490
Digested	685	514	343	171
Dry Sludge (lbs)	240	180	120	60
Wet Sludge Produced (lbs)	3,427	2,570	1,713	857
Wet Sludge Produced (Gal)	411	308	205	103
Dewatered				
Dry Sludge (lbs)	240	180	120	60
Wet Sludge Produced (lbs)	1997	1498	998	499
Wet Sludge Produced (Gal)	239	180	120	60

Assumes 2% Solids from the Digester and 12% from Dewatering Trailers

Sludge will be wasted from the SBR basins. Sludge solids will be stabilized in the digester and then transferred to the Sludge Trailers for further dewatering. Supernatant from the digester and water from the dewater process will be returned to the head of the facility for treatment. The dewatered sludge will be transported by City of Cameron Staff, Registration #22167 to Temple Recycling and Disposal Facility, Permit No. H0692, in Bell County.

# DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 4.0: POLLUTANT ANALYSIS REQUIREMENTS

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

This worksheet is not required minor amendments without renewal.

# Section 1. Toxic Pollutants (Instructions Page 78)

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

Grab ⊠ Composite □

Date and time sample(s) collected: 8/12/2024 from 10:34 to 11:05 AM

# Table 4.0(1) - Toxics Analysis

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (μg/l)
Acrylonitrile	<5	<5	2	50
Aldrin	< 0.01	< 0.01	2	0.01
Aluminum	298	298	2	2.5
Anthracene	< 0.952	<0.952	2	10
Antimony	<0.8	<0.8	2	5
Arsenic	2.46	2.46	2	0.5
Barium	72.9	72.9	2	3
Benzene	<1.5	<1.5	2	10
Benzidine	< 0.952	< 0.952	2	50
Benzo(a)anthracene	< 0.952	<0.952	2	5
Benzo(a)pyrene	< 0.952	<0.952	2	5
Bis(2-chloroethyl)ether	< 0.952	<0.952	2	10
Bis(2-ethylhexyl)phthalate	7.12	7.12	2	10
Bromodichloromethane	<1.5	<1.5	2	10
Bromoform	<1.5	<1.5	2	10
Cadmium	<0.3	<0.3	2	1
Carbon Tetrachloride	<1.5	<1.5	2	2
Carbaryl	<0.01	<0.01	2	5
Chlordane*	0.195	0.195	2	0.2
Chlorobenzene	<1.5	<1.5	2	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (μg/l)
Chlorodibromomethane	<1.5	<1.5	2	10
Chloroform	3.28	3.28	2	10
Chlorpyrifos	< 0.01	<0.01	2	0.05
Chromium (Total)	2.49	2.49	2	3
Chromium (Tri) (*1)	2.49	2.49	2	N/A
Chromium (Hex)	<3	<3	2	3
Copper	32.7	32.7	2	2
Chrysene	< 0.952	< 0.952	2	5
p-Chloro-m-Cresol	<1.9	<1.9	2	10
4,6-Dinitro-o-Cresol	<1.9	<1.9	2	50
p-Cresol	11.9	11.9	2	10
Cyanide (*2)	<10	<10	2	10
4,4'- DDD	< 0.01	<0.01	2	0.1
4,4'- DDE	< 0.01	<0.01	2	0.1
4,4'- DDT	< 0.01	<0.01	2	0.02
2,4-D	<0.159	<0.159	2	0.7
Demeton (O and S)	<0.01	<0.01	2	0.20
Diazinon	<0.01	<0.01	2	0.5/0.1
1,2-Dibromoethane	<1.5	<1.5	2	10
m-Dichlorobenzene	<1.5	<1.5	2	10
o-Dichlorobenzene	<1.5	<1.5	2	10
p-Dichlorobenzene	<1.5	<1.5	2	10
3,3'-Dichlorobenzidine	< 0.952	<0.952	2	5
1,2-Dichloroethane	<1.5	<1.5	2	10
1,1-Dichloroethylene	<1.5	<1.5	2	10
Dichloromethane	<1.5	<1.5	2	20
1,2-Dichloropropane	<1.5	<1.5	2	10
1,3-Dichloropropene	<1.5	<1.5	2	10
Dicofol	<0.2	<0.2	2	1
Dieldrin	<0.01	<0.01	2	0.02
2,4-Dimethylphenol	<0.952	<0.952	2	10
Di-n-Butyl Phthalate	<2.86	<2.86	2	10
Diuron	<0.0298	<0.0298	2	0.09

Pollutant	AVG Effluent Conc. (μg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (μg/l)
Endosulfan I (alpha)	<0.01	<0.01	2	0.01
Endosulfan II (beta)	<0.01	<0.01	2	0.02
Endosulfan Sulfate	<0.01	<0.01	2	0.1
Endrin	<0.01	<0.01	2	0.02
Ethylbenzene	<1.5	<1.5	2	10
Fluoride	<100	<100	2	500
Guthion	<0.01	< 0.01	2	0.1
Heptachlor	<0.01	<0.01	2	0.01
Heptachlor Epoxide	<0.01	<0.01	2	0.01
Hexachlorobenzene	<0.952	<0.952	2	5
Hexachlorobutadiene	<0.952	<0.952	2	10
Hexachlorocyclohexane (alpha)	<0.01	<0.01	2	0.05
Hexachlorocyclohexane (beta)	<0.01	<0.01	2	0.05
gamma-Hexachlorocyclohexane	<0.01	<0.01	2	0.05
(Lindane)				
Hexachlorocyclopentadiene	<0.952	<0.952	2	10
Hexachloroethane	<0.952	<0.952	2	20
Hexachlorophene	<0.992	<0.992	2	10
Lead	1.64	1.64	2	0.5
Malathion	<0.01	<0.01	2	0.1
Mercury	<0.0025	< 0.0025	2	0.005
Methoxychlor	<0.002	<0.002	2	2
Methyl Ethyl Ketone	<25	<25	2	50
Mirex	<0.01	< 0.01	2	0.02
Nickel	2.99	2.99	2	2
Nitrate-Nitrogen	<100	<100	2	100
Nitrobenzene	<0.952	< 0.952	2	10
N-Nitrosodiethylamine	<1.9	<1.9	2	20
N-Nitroso-di-n-Butylamine	<0.992	< 0.992	2	20
Nonylphenol	<66.7	<66.7	2	333
Parathion (ethyl)	<0.01	<0.01	2	0.1
Pentachlorobenzene	<0.952	<0.952	2	20
Pentachlorophenol	<0.952	<0.952	2	5

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (μg/l)
Phenanthrene	< 0.952	<0.952	2	10
Polychlorinated Biphenyls (PCB's) (*3)	<0.1	<0.1	2	0.2
Pyridine	< 0.952	< 0.952	2	20
Selenium	<2	<2	2	5
Silver	<0.5	<0.5	2	0.5
1,2,4,5-Tetrachlorobenzene	< 0.952	< 0.952	2	20
1,1,2,2-Tetrachloroethane	<1.5	<1.5	2	10
Tetrachloroethylene	<3	<3	2	10
Thallium	<0.5	<0.5	2	0.5
Toluene	<3	<3	2	10
Toxaphene	<0.3	<0.3	2	0.3
2,4,5-TP (Silvex)	< 0.0893	< 0.0893	2	0.3
Tributyltin (see instructions for explanation)	N/A	N/A	N/A	0.01
1,1,1-Trichloroethane	<1.5	<1.5	2	10
1,1,2-Trichloroethane	<1.5	<1.5	2	10
Trichloroethylene	<3	<3	2	10
2,4,5-Trichlorophenol	<0.952	<0.952	2	50
TTHM (Total Trihalomethanes)	<3.28	<3.28	2	10
Vinyl Chloride	<1.5	<1.5	2	10
Zinc	98.9	98.9	2	5

<sup>(\*1)</sup> Determined by subtracting hexavalent Cr from total Cr.

<sup>(\*2)</sup> Cyanide, amenable to chlorination or weak-acid dissociable.

<sup>(\*3)</sup> 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: 8/12/2024 from 10:34 to 11:05 AM

# Table 4.0(2)A - Metals, Cyanide, and Phenols

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (μg/l)
Antimony	<0.8	<0.8	1	5
Arsenic	2.46	2.46	1	0.5
Beryllium	<0.5	<0.5	1	0.5
Cadmium	<0.3	<0.3	1	1
Chromium (Total)	2.49	2.49	1	3
Chromium (Hex)	<3	<3	1	3
Chromium (Tri) (*1)	2.49	2.49	1	N/A
Copper	32.7	32.7	1	2
Lead	1.64	1.64	1	0.5
Mercury	0.0025	0.0025	1	0.005
Nickel	2.99	2.99	1	2
Selenium	<2	<2	1	5
Silver	<0.5	<0.5	1	0.5
Thallium	<0.5	<0.5	1	0.5
Zinc	98.9	98.9	1	5
Cyanide (*2)	<10	<10	1	10
Phenols, Total	21	21	1	10

<sup>(\*1)</sup> Determined by subtracting hexavalent Cr from total Cr.

<sup>(\*2)</sup> 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	<25	<25	3	50
Acrylonitrile	<5	<5	3	50
Benzene	<1.5	<1.5	3	10
Bromoform	<1.5	<1.5	3	10
Carbon Tetrachloride	<1.5	<1.5	3	2
Chlorobenzene	<1.5	<1.5	3	10
Chlorodibromomethane	<1.5	<1.5	3	10
Chloroethane	<5	<5	3	50
2-Chloroethylvinyl Ether	<30	<30	3	10
Chloroform	3.28	3.28	3	10
Dichlorobromomethane [Bromodichloromethane]	<1.5	<1.5	3	10
1,1-Dichloroethane	<1.5	<1.5	3	10
1,2-Dichloroethane	<1.5	<1.5	3	10
1,1-Dichloroethylene	<1.5	<1.5	3	10
1,2-Dichloropropane	<1.5	<1.5	3	10
1,3-Dichloropropylene	<1.5	<1.5	3	10
[1,3-Dichloropropene]				
1,2-Trans-Dichloroethylene	<1.5	<1.5	3	10
Ethylbenzene	<1.5	<1.5	3	10
Methyl Bromide	<5	<5	3	50
Methyl Chloride	<5	<5	3	50
Methylene Chloride	<12.5	<12.5	3	20
1,1,2,2-Tetrachloroethane	<1.5	<1.5	3	10
Tetrachloroethylene	<3	<3	3	10
Toluene	<3	<3	3	10
1,1,1-Trichloroethane	<1.5	<1.5	3	10
1,1,2-Trichloroethane	<1.5	<1.5	3	10
Trichloroethylene			3	10
Vinyl Chloride	<1.5	<1.5	3	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	< 0.952	< 0.952	2	10
2,4-Dichlorophenol	< 0.952	< 0.952	2	10
2,4-Dimethylphenol	< 0.952	< 0.952	2	10
4,6-Dinitro-o-Cresol	<1.9	<1.9	2	50
2,4-Dinitrophenol	<1.9	<1.9	2	50
2-Nitrophenol	< 0.95	< 0.95	2	20
4-Nitrophenol	<1.9	<1.9	2	50
P-Chloro-m-Cresol	<1.9	<1.9	2	10
Pentalchlorophenol	< 0.952	< 0.952	2	5
Phenol	< 0.952	< 0.952	2	10
2,4,6-Trichlorophenol	< 0.952	<0.952	2	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	<0.952	<0.952	2	10
Acenaphthylene	<0.952	< 0.952	2	10
Anthracene	< 0.952	< 0.952	2	10
Benzidine	<0.952	<0.952	2	50
Benzo(a)Anthracene	<0.952	<0.952	2	5
Benzo(a)Pyrene	<0.952	<0.952	2	5
3,4-Benzofluoranthene	< 0.952	< 0.952	2	10
Benzo(ghi)Perylene	<0.952	<0.952	2	20
Benzo(k)Fluoranthene	< 0.952	< 0.952	2	5
Bis(2-Chloroethoxy)Methane	< 0.952	< 0.952	2	10
Bis(2-Chloroethyl)Ether	< 0.952	< 0.952	2	10
Bis(2-Chloroisopropyl)Ether	<0.952	<0.952	2	10
Bis(2-Ethylhexyl)Phthalate	7.12	7.12	2	10
4-Bromophenyl Phenyl Ether	<0.952	<0.952	2	10
Butyl benzyl Phthalate	<2.86	<2.86	2	10
2-Chloronaphthalene	<0.952	<0.952	2	10
4-Chlorophenyl phenyl ether	<0.952	<0.952	2	10
Chrysene	<0.952	<0.952	2	5
Dibenzo(a,h)Anthracene	<0.952	<0.952	2	5
1,2-(o)Dichlorobenzene	<1.5	<1.5	2	10
1,3-(m)Dichlorobenzene	<1.5	<1.5	2	10
1,4-(p)Dichlorobenzene	<1.5	<1.5	2	10
3,3-Dichlorobenzidine	<0.952	<0.952	2	5
Diethyl Phthalate	<2.86	<2.86	2	10
Dimethyl Phthalate	<2.86	<2.86	2	10
Di-n-Butyl Phthalate	<2.86	<2.86	2	10
2,4-Dinitrotoluene	<0.952	<0.952	2	10
2,6-Dinitrotoluene	<0.952	<0.952	2	10
Di-n-Octyl Phthalate	<0.402	<0.402	2	10
1,2-Diphenylhydrazine (as Azobenzene)	<0.952	<0.952	2	20
Fluoranthene	< 0.952	< 0.952	2	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (μg/l)
Fluorene	< 0.952	< 0.952	2	10
Hexachlorobenzene	< 0.952	< 0.952	2	5
Hexachlorobutadiene	< 0.952	< 0.952	2	10
Hexachlorocyclo-pentadiene	< 0.952	< 0.952	2	10
Hexachloroethane	< 0.952	< 0.952	2	20
Indeno(1,2,3-cd)pyrene	< 0.952	< 0.952	2	5
Isophorone	< 0.952	< 0.952	2	10
Naphthalene	< 0.952	< 0.952	2	10
Nitrobenzene	< 0.952	< 0.952	2	10
N-Nitrosodimethylamine	<1.9	<1.9	2	50
N-Nitrosodi-n-Propylamine	< 0.952	< 0.952	2	20
N-Nitrosodiphenylamine	< 0.952	< 0.952	2	20
Phenanthrene	< 0.952	<0.952	2	10
Pyrene	< 0.952	< 0.952	2	10
1,2,4-Trichlorobenzene	< 0.952	<0.952	2	10

Table 4.0(2)E - Pesticides

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (μg/l)
Aldrin	<0.01	<0.01	3	0.01
alpha-BHC (Hexachlorocyclohexane)	< 0.01	<0.01	3	0.05
beta-BHC (Hexachlorocyclohexane)	< 0.01	< 0.01	3	0.05
gamma-BHC (Hexachlorocyclohexane)	<0.01	<0.01	3	0.05
delta-BHC (Hexachlorocyclohexane)	<0.01	<0.01	3	0.05
Chlordane	<0.195	<0.195	3	0.2
4,4-DDT	<0.01	<0.01	3	0.02
4,4-DDE	<0.01	<0.01	3	0.1
4,4,-DDD	<0.01	<0.01	3	0.1
Dieldrin	<0.01	<0.01	3	0.02
Endosulfan I (alpha)	<0.01	<0.01	3	0.01
Endosulfan II (beta)	<0.01	<0.01	3	0.02
Endosulfan Sulfate	<0.01	<0.01	3	0.1
Endrin	<0.01	<0.01	3	0.02
Endrin Aldehyde	<0.01	<0.01	3	0.1
Heptachlor	<0.01	<0.01	3	0.01
Heptachlor Epoxide	<0.01	<0.01	3	0.01
PCB-1242	<0.1	<0.1	3	0.2
PCB-1254	<0.1	<0.1	3	0.2
PCB-1221	<0.1	<0.1	3	0.2
PCB-1232	<0.1	<0.1	3	0.2
PCB-1248	<0.1	<0.1	3	0.2
PCB-1260	<0.1	<0.1	3	0.2
PCB-1016	<0.1	<0.1	3	0.2
Toxaphene	<3.28	<3.28	3	0.3

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



August 28, 2024

Askarali Karimov Kasberg, Patrick & Associates, LP 19 North Main Street Temple, TX 76501

TEL: (979) 412-9919

FAX: Order No.: 2408153

RE: Cameron Permit

Dear Askarali Karimov:

DHL Analytical, Inc. received 1 sample(s) on 8/12/2024 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative and all estimated uncertainties of results are within method specifications.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

John DuPont

General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211 - TX-C24-00120



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# 2300 Double Creek Dr. Round Rock, TX 78664

Phone 512.388.8222

# **CHAIN-OF-CUSTODY**

Web: www.dhlanalytical.com Email: login@dhlanalytical.com

Page 1 of 1

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CLIENT: Kasberg, Patrick & Associates, LP

Project: Cameron Permit CASE NARRATIVE

**Date:** 28-Aug-24

**Lab Order:** 2408153

Samples were analyzed using the methods outlined in the following references:

E632, E200.8, E625.1, D5812-96MOD, D7065-17, E624.1, E300 and Standard Methods.

For Diuron-Hexachlorophene analysis an MS/MSD was not performed due to insufficient sample volume. An LCS/LCSD was performed instead.

For Volatiles analysis the sample was diluted prior to analysis due to the nature of the sample (matrix).

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives except where noted in the following. For Volatiles analysis by method E624.1 the matrix spike and matrix spike duplicate had no recoveries for 2-Chloroethylvinylether. These are flagged accordingly in the enclosed QC summary report. The "S" flag denotes spike recovery was outside control limits. The LCS was within control limits for this compound. No further corrective actions were taken.

For Semivolatiles analysis by method E625.1 the matrix spike and matrix spike duplicate recoveries were out of control limits for up to four compounds. In addition, the matrix spike and matrix spike duplicate had the RPD above control limits for Bis(2-chloroisopropyl)ether. These are flagged accordingly. The "S" flag denotes spike recovery was outside control limits and the "R" flag denotes the RPD was outside control limits. The LCS was within control limits for these compounds. No further corrective actions were taken.

For Hexavalent Chromium analysis by method M3500-Cr B the matrix spike duplicate recovery was slightly below control limits. This was due to matrix effect. This is flagged accordingly. The "S" flag denotes spike recovery was outside control limits. The LCS was within control limits. No further corrective actions were taken.

For Semivolatiles analysis by method E625.1 the surrogate recoveries for the method blank were above control limits for three surrogates. These are flagged accordingly. The remaining surrogates were within control limits. No further corrective actions were taken.

The Mercury, Herbicide and Total Phenols analyses were sub-contracted to SPL.

**Date:** 28-Aug-24

CLIENT: Kasberg, Patrick & Associates, LP

**Project:** Cameron Permit

**Lab Order:** 2408153

**Work Order Sample Summary** 

Lab Smp IDClient Sample IDTag NumberDate CollectedDate Recved2408153-01Effluent08/12/24 11:05 AM08/12/2024

**Lab Order:** 2408153

Client: Kasberg, Patrick & Associates, LP

**Project:** Cameron Permit

# PREP DATES REPORT

Client Sample ID	<b>Collection Date</b>	Matrix	Test Number	Test Name	Prep Date	Batch ID
Effluent	08/12/24 11:05 AM	Aqueous	E624_PR	Purge and Trap Water GC/MS	08/12/24 10:00 AM	116680
Effluent	08/12/24 11:05 AM	Aqueous	E200.8_PR	Aq Digestion for Metals: ICP-MS	08/22/24 06:55 AM	116885
Effluent	08/12/24 11:05 AM	Aqueous	M4500-CN E	Cyanide Water Prep	08/15/24 09:29 AM	116745
Effluent	08/12/24 11:05 AM	Aqueous	E300	Anion Preparation	08/13/24 03:43 PM	116715
Effluent	08/12/24 11:05 AM	Aqueous	E300	Anion Preparation	08/13/24 03:43 PM	116715
Effluent	08/12/24 11:05 AM	Aqueous	M3500-Cr B	Hexachrom Prep Water	08/12/24 06:23 PM	116690
Effluent	08/12/24 11:05 AM	Aqueous	E625_PR	Semivol Extraction for 625.1	08/19/24 08:51 AM	116798
Effluent	08/12/24 11:05 AM	Aqueous	E625_PR	Semivol Extraction for 625.1	08/19/24 08:51 AM	116798
Effluent	08/12/24 11:05 AM	Aqueous	E625_PR	Aq Prep Sep Funnel: Pest or PCB	08/13/24 08:30 AM	116681
Effluent	08/12/24 11:05 AM	Aqueous	E625_PR	Aq Prep Sep Funnel: Pest or PCB	08/13/24 08:30 AM	116681
Effluent	08/12/24 11:05 AM	Aqueous	E625_PR	Aq Prep Sep Funnel: Pest or PCB	08/13/24 08:30 AM	116681
Effluent	08/12/24 11:05 AM	Aqueous	E632	632 Prep	08/16/24 09:09 AM	116771
	Effluent	Effluent 08/12/24 11:05 AM	Effluent 08/12/24 11:05 AM Aqueous	Effluent         08/12/24 11:05 AM         Aqueous         E624_PR           Effluent         08/12/24 11:05 AM         Aqueous         E200.8_PR           Effluent         08/12/24 11:05 AM         Aqueous         M4500-CN E           Effluent         08/12/24 11:05 AM         Aqueous         E300           Effluent         08/12/24 11:05 AM         Aqueous         E300           Effluent         08/12/24 11:05 AM         Aqueous         M3500-Cr B           Effluent         08/12/24 11:05 AM         Aqueous         E625_PR           Effluent         08/12/24 11:05 AM         Aqueous         E625_PR	Effluent 08/12/24 11:05 AM Aqueous E200.8_PR Aq Digestion for Metals: ICP-MS  Effluent 08/12/24 11:05 AM Aqueous M4500-CN E Cyanide Water Prep  Effluent 08/12/24 11:05 AM Aqueous E300 Anion Preparation  Effluent 08/12/24 11:05 AM Aqueous E300 Anion Preparation  Effluent 08/12/24 11:05 AM Aqueous E300 Anion Preparation  Effluent 08/12/24 11:05 AM Aqueous M3500-Cr B Hexachrom Prep Water  Effluent 08/12/24 11:05 AM Aqueous E625_PR Semivol Extraction for 625.1  Effluent 08/12/24 11:05 AM Aqueous E625_PR Semivol Extraction for 625.1  Effluent 08/12/24 11:05 AM Aqueous E625_PR Aq Prep Sep Funnel: Pest or PCB  Effluent 08/12/24 11:05 AM Aqueous E625_PR Aq Prep Sep Funnel: Pest or PCB  Effluent 08/12/24 11:05 AM Aqueous E625_PR Aq Prep Sep Funnel: Pest or PCB	Effluent 08/12/24 11:05 AM Aqueous E624_PR Purge and Trap Water GC/MS 08/12/24 10:00 AM  Effluent 08/12/24 11:05 AM Aqueous E200.8_PR Aq Digestion for Metals: ICP-MS 08/22/24 06:55 AM  Effluent 08/12/24 11:05 AM Aqueous M4500-CN E Cyanide Water Prep 08/15/24 09:29 AM  Effluent 08/12/24 11:05 AM Aqueous E300 Anion Preparation 08/13/24 03:43 PM  Effluent 08/12/24 11:05 AM Aqueous E300 Anion Preparation 08/13/24 03:43 PM  Effluent 08/12/24 11:05 AM Aqueous M3500-Cr B Hexachrom Prep Water 08/12/24 06:23 PM  Effluent 08/12/24 11:05 AM Aqueous E625_PR Semivol Extraction for 625.1 08/19/24 08:51 AM  Effluent 08/12/24 11:05 AM Aqueous E625_PR Semivol Extraction for 625.1 08/19/24 08:51 AM  Effluent 08/12/24 11:05 AM Aqueous E625_PR Aq Prep Sep Funnel: Pest or PCB 08/13/24 08:30 AM  Effluent 08/12/24 11:05 AM Aqueous E625_PR Aq Prep Sep Funnel: Pest or PCB 08/13/24 08:30 AM  Effluent 08/12/24 11:05 AM Aqueous E625_PR Aq Prep Sep Funnel: Pest or PCB 08/13/24 08:30 AM  Effluent 08/12/24 11:05 AM Aqueous E625_PR Aq Prep Sep Funnel: Pest or PCB 08/13/24 08:30 AM  Effluent 08/12/24 11:05 AM Aqueous E625_PR Aq Prep Sep Funnel: Pest or PCB 08/13/24 08:30 AM  Effluent 08/12/24 11:05 AM Aqueous E625_PR Aq Prep Sep Funnel: Pest or PCB 08/13/24 08:30 AM

**Lab Order:** 2408153

Client: Kasberg, Patrick & Associates, LP

**Project:** Cameron Permit

# ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
2408153-01A	Effluent	Aqueous	E624.1	624.1 Volatiles Water	116680	5	08/13/24 02:16 AM	GCMS5_240812B
2408153-01B	Effluent	Aqueous	E200.8	Total Recoverable Metals: ICP-MS	116885	1	08/23/24 09:56 AM	ICP-MS5_240823A
2408153-01C	Effluent	Aqueous	M4500-CN E	Cyanide - Water Sample	116745	1	08/15/24 04:17 PM	UV/VIS_2_240815D
2408153-01D	Effluent	Aqueous	E300	Anions by IC method - Water	116715	10	08/14/24 04:38 AM	IC2_240813B
	Effluent	Aqueous	E300	Anions by IC method - Water	116715	1	08/13/24 09:08 PM	IC2_240813B
	Effluent	Aqueous	M3500-Cr B	Hexavalent Chromium-Water	116690	1	08/12/24 07:35 PM	UV/VIS_2_240812C
2408153-01E	Effluent	Aqueous	E625.1	625.1 Semivolatile Water	116798	1	08/20/24 01:35 PM	GCMS9_240820A
	Effluent	Aqueous	D7065-17	Nonylphenol in Water by ASTM Meth	hod116798	1	08/20/24 01:35 PM	GCMS9_240820D
2408153-01F	Effluent	Aqueous	E625.1	625.1 PCB by GC/MS	116681	1	08/13/24 02:08 PM	GCMS8_240813A
2408153-01G	Effluent	Aqueous	E625.1	625.1 Pesticide by GC/MS	116681	1	08/13/24 06:03 PM	GCMS10_240813A
	Effluent	Aqueous	D5812-96mod	Dicofol in Water by ASTM Method	116681	1	08/13/24 06:03 PM	GCMS10_240813B
2408153-01H	Effluent	Aqueous	E632	Diuron-Hexachlorophene by LCMS	116771	1	08/16/24 04:43 PM	LCMS2_240816A
2408153-011	Effluent	Aqueous	E245.7	Mercury Low Level	R134934	1.06	08/16/24 12:19 PM	SUB_240816A
2408153-01J	Effluent	Aqueous	E420.4	Total Phenols Water	R134935	1	08/16/24 09:29 AM	SUB_240816B
2408153-01K	Effluent	Aqueous	E615	Herbicide in Water	R134938	1	08/23/24 02:41 PM	SUB_240823A

CLIENT: Kasberg, Patrick & Associates, LP Client Sample ID: Effluent

Project: Cameron Permit Lab ID: 2408153-01

Project No: Collection Date: 08/12/24 11:05 AM

Lab Order: 2408153 Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
DIURON-HEXACHLOROPHENE	BY LCMS	Εć	32				Analyst: RA
Diuron	<0.0000298	0.0000298	0.0000794	N	mg/L	1	08/16/24 04:43 PM
Hexachlorophene	< 0.000992	0.000992	0.00496	N	mg/L	1	08/16/24 04:43 PM
Surr: Carbazole	64.4	0	35-145		%REC	1	08/16/24 04:43 PM
TOTAL RECOVERABLE METAL	S: ICP-MS	E20	00.8				Analyst: SP
Aluminum	0.298	0.00250	0.0300		mg/L	1	08/23/24 09:56 AM
Antimony	<0.000800	0.000800	0.00250		mg/L	1	08/23/24 09:56 AM
Arsenic	0.00246	0.000500	0.00500	J	mg/L	1	08/23/24 09:56 AM
Barium	0.0729	0.00300	0.0100		mg/L	1	08/23/24 09:56 AM
Beryllium	<0.000500	0.000500	0.00100		mg/L	1	08/23/24 09:56 AM
Cadmium	<0.000300	0.000300	0.00100		mg/L	1	08/23/24 09:56 AM
Chromium	0.00249	0.00200	0.00300	J	mg/L	1	08/23/24 09:56 AM
Copper	0.0327	0.00100	0.00200		mg/L	1	08/23/24 09:56 AM
Lead	0.00164	0.000300	0.00100		mg/L	1	08/23/24 09:56 AM
Nickel	0.00299	0.00100	0.00200		mg/L	1	08/23/24 09:56 AM
Selenium	<0.00200	0.00200	0.00500		mg/L	1	08/23/24 09:56 AM
Silver	< 0.000500	0.000500	0.00200		mg/L	1	08/23/24 09:56 AM
Thallium	< 0.000500	0.000500	0.00100		mg/L	1	08/23/24 09:56 AM
Zinc	0.0989	0.00200	0.00500		mg/L	1	08/23/24 09:56 AM
625.1 PCB BY GC/MS		E6:	25.1				Analyst: <b>DEW</b>
Aroclor 1016	< 0.000100	0.000100	0.000200		mg/L	1	08/13/24 02:08 PM
Aroclor 1221	< 0.000100	0.000100	0.000200		mg/L	1	08/13/24 02:08 PM
Aroclor 1232	< 0.000100	0.000100	0.000200		mg/L	1	08/13/24 02:08 PM
Aroclor 1242	< 0.000100	0.000100	0.000200		mg/L	1	08/13/24 02:08 PM
Aroclor 1248	< 0.000100	0.000100	0.000200		mg/L	1	08/13/24 02:08 PM
Aroclor 1254	< 0.000100	0.000100	0.000200		mg/L	1	08/13/24 02:08 PM
Aroclor 1260	< 0.000100	0.000100	0.000200		mg/L	1	08/13/24 02:08 PM
Total PCBs	< 0.000100	0.000100	0.000200		mg/L	1	08/13/24 02:08 PM
Surr: 2-Fluorobiphenyl	88.2	0	43-116		%REC	1	08/13/24 02:08 PM
Surr: 4-Terphenyl-d14	91.0	0	33-141		%REC	1	08/13/24 02:08 PM
625.1 SEMIVOLATILE WATER		E6:	25.1				Analyst: <b>DEW</b>
Anthracene	< 0.000952	0.000952	0.00190		mg/L	1	08/20/24 01:35 PM
Benzidine	< 0.000952	0.000952	0.00381		mg/L	1	08/20/24 01:35 PM
Benzo[a]anthracene	< 0.000952	0.000952	0.00190		mg/L	1	08/20/24 01:35 PM
Benzo[a]pyrene	< 0.000952	0.000952	0.00190		mg/L	1	08/20/24 01:35 PM
Bis(2-chloroethyl)ether	< 0.000952	0.000952	0.00190		mg/L	1	08/20/24 01:35 PM
Bis(2-ethylhexyl)phthalate	0.00712	0.00286	0.00571		mg/L	1	08/20/24 01:35 PM
Chrysene	<0.000952	0.000952	0.00190		mg/L	1	08/20/24 01:35 PM

Qualifiers:

\* Value exceeds TCLP Maximum Concentration Level

Not Detected at the Method Detection Limit

DF Dilution Factor

ND

J Analyte detected between MDL and RL

S Spike Recovery outside control limits

C Sample Result or QC discussed in the Case Narrative

Date: 28-Aug-24

E TPH pattern not Gas or Diesel Range Pattern

MDL Method Detection Limit

RL Reporting Limit

N Parameter not NELAP certified

CLIENT: Kasberg, Patrick & Associates, LP Client Sample ID: Effluent

Project: Cameron Permit Lab ID: 2408153-01

Project No: Collection Date: 08/12/24 11:05 AM

Lab Order: 2408153 Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
625.1 SEMIVOLATILE WATER		E62	5.1				Analyst: <b>DEW</b>
4,6-Dinitro-o-cresol	< 0.00190	0.00190	0.00381		mg/L	1	08/20/24 01:35 PM
o-Cresol	< 0.00190	0.00190	0.00381		mg/L	1	08/20/24 01:35 PM
p-Chloro-m-Cresol	< 0.00190	0.00190	0.00381		mg/L	1	08/20/24 01:35 PM
m,p-Cresols	0.0119	0.00190	0.00381		mg/L	1	08/20/24 01:35 PM
3,3'-Dichlorobenzidine	< 0.000952	0.000952	0.00476		mg/L	1	08/20/24 01:35 PM
2,4-Dimethylphenol	< 0.000952	0.000952	0.00190		mg/L	1	08/20/24 01:35 PM
Di-n-butyl phthalate	<0.00286	0.00286	0.00571		mg/L	1	08/20/24 01:35 PM
Hexachlorobenzene	< 0.000952	0.000952	0.00190		mg/L	1	08/20/24 01:35 PM
Hexachlorobutadiene	< 0.000952	0.000952	0.00190		mg/L	1	08/20/24 01:35 PM
Hexachlorocyclopentadiene	< 0.000952	0.000952	0.00190		mg/L	1	08/20/24 01:35 PM
Hexachloroethane	< 0.000952	0.000952	0.00190		mg/L	1	08/20/24 01:35 PM
Nitrobenzene	< 0.000952	0.000952	0.00190		mg/L	1	08/20/24 01:35 PM
N-Nitrosodiethylamine	< 0.00190	0.00190	0.00381		mg/L	1	08/20/24 01:35 PM
N-Nitrosodi-n-butylamine	< 0.000952	0.000952	0.00381		mg/L	1	08/20/24 01:35 PM
Pentachlorobenzene	< 0.000952	0.000952	0.00190		mg/L	1	08/20/24 01:35 PM
Pentachlorophenol	< 0.000952	0.000952	0.00190		mg/L	1	08/20/24 01:35 PM
Phenanthrene	< 0.000952	0.000952	0.00190		mg/L	1	08/20/24 01:35 PM
Pyridine	< 0.000952	0.000952	0.00190		mg/L	1	08/20/24 01:35 PM
1,2,4,5-Tetrachlorobenzene	< 0.000952	0.000952	0.00190		mg/L	1	08/20/24 01:35 PM
2,4,5-Trichlorophenol	< 0.000952	0.000952	0.00190		mg/L	1	08/20/24 01:35 PM
2-Chlorophenol	< 0.000952	0.000952	0.00190		mg/L	1	08/20/24 01:35 PM
2,4-Dichlorophenol	< 0.000952	0.000952	0.00190		mg/L	1	08/20/24 01:35 PM
2,4-Dinitrophenol	< 0.00190	0.00190	0.00381		mg/L	1	08/20/24 01:35 PM
2-Nitrophenol	< 0.000952	0.000952	0.00190		mg/L	1	08/20/24 01:35 PM
4-Nitrophenol	< 0.00190	0.00190	0.00381		mg/L	1	08/20/24 01:35 PM
Phenol	< 0.000952	0.000952	0.00190		mg/L	1	08/20/24 01:35 PM
2,4,6-Trichlorophenol	< 0.000952	0.000952	0.00190		mg/L	1	08/20/24 01:35 PM
Acenaphthene	< 0.000952	0.000952	0.00190		mg/L	1	08/20/24 01:35 PM
Acenaphthylene	< 0.000952	0.000952	0.00190		mg/L	1	08/20/24 01:35 PM
Benzo[b]fluoranthene	< 0.000952	0.000952	0.00190		mg/L	1	08/20/24 01:35 PM
Benzo[g,h,i]perylene	< 0.000952	0.000952	0.00190		mg/L	1	08/20/24 01:35 PM
Benzo[k]fluoranthene	< 0.000952	0.000952	0.00190		mg/L	1	08/20/24 01:35 PM
Bis(2-chloroethoxy)methane	< 0.000952	0.000952	0.00190		mg/L	1	08/20/24 01:35 PM
Bis(2-chloroisopropyl)ether	< 0.000952	0.000952	0.00190		mg/L	1	08/20/24 01:35 PM
4-Bromophenyl phenyl ether	< 0.000952	0.000952	0.00190		mg/L	1	08/20/24 01:35 PM
Butyl benzyl phthalate	<0.00286	0.00286	0.00571		mg/L	1	08/20/24 01:35 PM
2-Chloronaphthalene	< 0.000952	0.000952	0.00190		mg/L	1	08/20/24 01:35 PM
4-Chlorophenyl phenyl ether	<0.000952	0.000952	0.00190		mg/L	1	08/20/24 01:35 PM

Qualifiers:

- \* Value exceeds TCLP Maximum Concentration Level
- DF Dilution Factor
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- S Spike Recovery outside control limits

C Sample Result or QC discussed in the Case Narrative

Date: 28-Aug-24

- E TPH pattern not Gas or Diesel Range Pattern
- MDL Method Detection Limit
- RL Reporting Limit
- N Parameter not NELAP certified

CLIENT: Kasberg, Patrick & Associates, LP Client Sample ID: Effluent

Project: Cameron Permit Lab ID: 2408153-01

Project No: Collection Date: 08/12/24 11:05 AM

Lab Order: 2408153 Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
625.1 SEMIVOLATILE WATER		E6:	25.1				Analyst: <b>DEW</b>
Dibenz[a,h]anthracene	< 0.000952	0.000952	0.00190		mg/L	1	08/20/24 01:35 PM
Diethyl phthalate	<0.00286	0.00286	0.00571		mg/L	1	08/20/24 01:35 PM
Dimethyl phthalate	<0.00286	0.00286	0.00571		mg/L	1	08/20/24 01:35 PM
2,4-Dinitrotoluene	< 0.000952	0.000952	0.00190		mg/L	1	08/20/24 01:35 PM
2,6-Dinitrotoluene	< 0.000952	0.000952	0.00190		mg/L	1	08/20/24 01:35 PM
Di-n-octyl phthalate	0.00402	0.00286	0.00571	J	mg/L	1	08/20/24 01:35 PM
1,2-Diphenylhydrazine	<0.000952	0.000952	0.00190		mg/L	1	08/20/24 01:35 PM
Fluoranthene	< 0.000952	0.000952	0.00190		mg/L	1	08/20/24 01:35 PM
Fluorene	< 0.000952	0.000952	0.00190		mg/L	1	08/20/24 01:35 PM
Indeno[1,2,3-cd]pyrene	< 0.000952	0.000952	0.00190		mg/L	1	08/20/24 01:35 PM
Isophorone	< 0.000952	0.000952	0.00190		mg/L	1	08/20/24 01:35 PM
Naphthalene	< 0.000952	0.000952	0.00190		mg/L	1	08/20/24 01:35 PM
N-Nitrosodimethylamine	< 0.000952	0.000952	0.00190		mg/L	1	08/20/24 01:35 PM
N-Nitrosodi-n-propylamine	< 0.000952	0.000952	0.00190		mg/L	1	08/20/24 01:35 PM
N-Nitrosodiphenylamine	< 0.000952	0.000952	0.00190		mg/L	1	08/20/24 01:35 PM
Pyrene	< 0.000952	0.000952	0.00190		mg/L	1	08/20/24 01:35 PM
1,2,4-Trichlorobenzene	< 0.000952	0.000952	0.00190		mg/L	1	08/20/24 01:35 PM
Surr: 2,4,6-Tribromophenol	96.8	0	10-123		%REC	1	08/20/24 01:35 PM
Surr: 2-Fluorobiphenyl	79.8	0	43-116		%REC	1	08/20/24 01:35 PM
Surr: 2-Fluorophenol	41.5	0	21-100		%REC	1	08/20/24 01:35 PM
Surr: 4-Terphenyl-d14	83.0	0	33-141		%REC	1	08/20/24 01:35 PM
Surr: Nitrobenzene-d5	85.3	0	35-115		%REC	1	08/20/24 01:35 PM
Surr: Phenol-d5	24.8	0	10-94		%REC	1	08/20/24 01:35 PM
625.1 PESTICIDE BY GC/MS		E6:	25.1				Analyst: <b>DEW</b>
4,4´-DDD	<0.0000100	0.0000100	0.0000200		mg/L	1	08/13/24 06:03 PM
4,4´-DDE	<0.0000100	0.0000100	0.0000200		mg/L	1	08/13/24 06:03 PM
4,4´-DDT	< 0.0000100	0.0000100	0.0000200		mg/L	1	08/13/24 06:03 PM
Aldrin	<0.0000100	0.0000100	0.0000100		mg/L	1	08/13/24 06:03 PM
alpha-BHC	< 0.0000100	0.0000100	0.0000200		mg/L	1	08/13/24 06:03 PM
beta-BHC	<0.0000100	0.0000100	0.0000200		mg/L	1	08/13/24 06:03 PM
Carbaryl	< 0.0000100	0.0000100	0.0000300	N	mg/L	1	08/13/24 06:03 PM
Chlordane	0.000195	0.0000600	0.000200	JN	mg/L	1	08/13/24 06:03 PM
Chlorpyrifos	<0.0000100	0.0000100	0.0000300	N	mg/L	1	08/13/24 06:03 PM
delta-BHC	<0.0000100	0.0000100	0.0000200		mg/L	1	08/13/24 06:03 PM
Diazinon	< 0.0000100	0.0000100	0.0000300	N	mg/L	1	08/13/24 06:03 PM
Dieldrin	< 0.0000100	0.0000100	0.0000200		mg/L	1	08/13/24 06:03 PM
Endosulfan I	< 0.0000100	0.0000100	0.0000100		mg/L	1	08/13/24 06:03 PM
Endosulfan II	<0.000100	0.0000100	0.0000200		mg/L	1	08/13/24 06:03 PM

Qualifiers:

\* Value exceeds TCLP Maximum Concentration Level

DF Dilution Factor

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection LimitS Spike Recovery outside control limits

C Sample Result or QC discussed in the Case Narrative

Date: 28-Aug-24

E TPH pattern not Gas or Diesel Range Pattern

MDL Method Detection Limit

RL Reporting Limit

N Parameter not NELAP certified

CLIENT: Kasberg, Patrick & Associates, LP Client Sample ID: Effluent

Project: Cameron Permit Lab ID: 2408153-01

Project No: Collection Date: 08/12/24 11:05 AM

Lab Order: 2408153 Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
625.1 PESTICIDE BY GC/MS		E6:	25.1				Analyst: <b>DEW</b>
Endosulfan sulfate	<0.0000100	0.0000100	0.0000200		mg/L	1	08/13/24 06:03 PM
Endrin	< 0.0000100	0.0000100	0.0000200		mg/L	1	08/13/24 06:03 PM
Endrin aldehyde	< 0.0000100	0.0000100	0.0000200		mg/L	1	08/13/24 06:03 PM
gamma-BHC	< 0.0000100	0.0000100	0.0000200		mg/L	1	08/13/24 06:03 PM
Guthion (Azinphosmethyl)	< 0.0000100	0.0000100	0.0000300	N	mg/L	1	08/13/24 06:03 PM
Heptachlor	< 0.0000100	0.0000100	0.0000100		mg/L	1	08/13/24 06:03 PM
Heptachlor epoxide	< 0.0000100	0.0000100	0.0000100		mg/L	1	08/13/24 06:03 PM
Malathion	< 0.0000100	0.0000100	0.0000300	N	mg/L	1	08/13/24 06:03 PM
Methoxychlor	< 0.0000200	0.0000200	0.0000200	N	mg/L	1	08/13/24 06:03 PM
Mirex	< 0.0000100	0.0000100	0.0000200	N	mg/L	1	08/13/24 06:03 PM
Parathion, ethyl	< 0.0000100	0.0000100	0.0000300	N	mg/L	1	08/13/24 06:03 PM
Toxaphene	< 0.000300	0.000300	0.000300		mg/L	1	08/13/24 06:03 PM
Demeton (O & S)	< 0.0000100	0.0000100	0.0000300	N	mg/L	1	08/13/24 06:03 PM
Surr: 2-Fluorobiphenyl	72.6	0	43-116		%REC	1	08/13/24 06:03 PM
Surr: 4-Terphenyl-d14	101	0	33-141		%REC	1	08/13/24 06:03 PM
DICOFOL IN WATER BY ASTM IN	METHOD	D5812-	96MOD				Analyst: <b>DEW</b>
Dicofol	<0.000200	0.000200	0.000400	N	mg/L	1	08/13/24 06:03 PM
NONYLPHENOL IN WATER BY A	ASTM METHOD	D70	65-17				Analyst: <b>DEW</b>
Nonylphenol	<0.0667	0.0667	0.0952	N	mg/L	1	08/20/24 01:35 PM
624.1 VOLATILES WATER		E6:	24.1				Analyst: JVR
Acrylonitrile	< 0.00500	0.00500	0.0150		mg/L	5	08/13/24 02:16 AM
Benzene	< 0.00150	0.00150	0.00500		mg/L	5	08/13/24 02:16 AM
Bromodichloromethane	< 0.00150	0.00150	0.00500		mg/L	5	08/13/24 02:16 AM
Bromoform	< 0.00150	0.00150	0.00500		mg/L	5	08/13/24 02:16 AM
Carbon tetrachloride	< 0.00150	0.00150	0.00500		mg/L	5	08/13/24 02:16 AM
Chlorobenzene	< 0.00150	0.00150	0.00500		mg/L	5	08/13/24 02:16 AM
Chlorodibromomethane	< 0.00150	0.00150	0.00500		mg/L	5	08/13/24 02:16 AM
Chloroform	0.00328	0.00150	0.00500	J	mg/L	5	08/13/24 02:16 AM
1,2-Dibromoethane	<0.00150	0.00150	0.00500		mg/L	5	08/13/24 02:16 AM
1,3-Dichlorobenzene	< 0.00150	0.00150	0.00500		mg/L	5	08/13/24 02:16 AM
1,2-Dichlorobenzene	< 0.00150	0.00150	0.00500		mg/L	5	08/13/24 02:16 AM
1,4-Dichlorobenzene	< 0.00150	0.00150	0.00500		mg/L	5	08/13/24 02:16 AM
1,2-Dichloroethane	< 0.00150	0.00150	0.00500		mg/L	5	08/13/24 02:16 AM
1,1-Dichloroethene	< 0.00150	0.00150	0.00500		mg/L	5	08/13/24 02:16 AM
Methylene chloride (DCM)	<0.0125	0.0125	0.0250		mg/L	5	08/13/24 02:16 AM
1,2-Dichloropropane	< 0.00150	0.00150	0.00500		mg/L	5	08/13/24 02:16 AM
1,3-Dichloropropene (cis)	< 0.00150	0.00150	0.00500		mg/L	5	08/13/24 02:16 AM

Qualifiers:

- \* Value exceeds TCLP Maximum Concentration Level
- DF Dilution Factor
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- S Spike Recovery outside control limits

C Sample Result or QC discussed in the Case Narrative

Date: 28-Aug-24

- E TPH pattern not Gas or Diesel Range Pattern
- MDL Method Detection Limit
- RL Reporting Limit
- N Parameter not NELAP certified

CLIENT: Kasberg, Patrick & Associates, LP

Project: Cameron Permit Lab ID: 2408153-01

Project No: Collection Date: 08/12/24 11:05 AM

Lab Order: 2408153 Matrix: AQUEOUS

Analyses	Resul	t MDL	RL	Qual	Units	DF	Date Analyzed
624.1 VOLATILES WATER		E62	24.1				Analyst: JVR
1,3-Dichloropropene (trans)	< 0.00150	0.00150	0.00500		mg/L	5	08/13/24 02:16 AM
Ethylbenzene	< 0.00150	0.00150	0.00500		mg/L	5	08/13/24 02:16 AM
Methyl ethyl ketone	< 0.0250	0.0250	0.0750		mg/L	5	08/13/24 02:16 AM
1,1,2,2-Tetrachloroethane	< 0.00150	0.00150	0.00500		mg/L	5	08/13/24 02:16 AM
Tetrachloroethene	< 0.00300	0.00300	0.0100		mg/L	5	08/13/24 02:16 AM
Toluene	< 0.00300	0.00300	0.0100		mg/L	5	08/13/24 02:16 AM
1,1,1-Trichloroethane	< 0.00150	0.00150	0.00500		mg/L	5	08/13/24 02:16 AM
1,1,2-Trichloroethane	< 0.00150	0.00150	0.00500		mg/L	5	08/13/24 02:16 AM
Trichloroethene	< 0.00300	0.00300	0.00500		mg/L	5	08/13/24 02:16 AM
TTHM (Total Trihalomethanes)	0.00328	0.00150	0.00500	J	mg/L	5	08/13/24 02:16 AM
Vinyl chloride	<0.00150	0.00150	0.00500		mg/L	5	08/13/24 02:16 AM
Acrolein	< 0.0250	0.0250	0.0750		mg/L	5	08/13/24 02:16 AM
Chloroethane	< 0.00500	0.00500	0.0250		mg/L	5	08/13/24 02:16 AM
2-Chloroethylvinylether	< 0.0300	0.0300	0.0500		mg/L	5	08/13/24 02:16 AM
1,1-Dichloroethane	< 0.00150	0.00150	0.00500		mg/L	5	08/13/24 02:16 AM
Methyl bromide	< 0.00500	0.00500	0.0250		mg/L	5	08/13/24 02:16 AM
Methyl chloride	< 0.00500	0.00500	0.0250		mg/L	5	08/13/24 02:16 AM
trans-1,2-Dichloroethylene	< 0.00150	0.00150	0.0100		mg/L	5	08/13/24 02:16 AM
Surr: 1,2-Dichloroethane-d4	97.1	0	72-119		%REC	5	08/13/24 02:16 AM
Surr: 4-Bromofluorobenzene	102	0	76-119		%REC	5	08/13/24 02:16 AM
Surr: Dibromofluoromethane	104	0	85-115		%REC	5	08/13/24 02:16 AM
Surr: Toluene-d8	104	0	81-120		%REC	5	08/13/24 02:16 AM
MERCURY LOW LEVEL		E24	<b>45.7</b>				Analyst: SUB
Mercury	0.00000250	0.00000128	0.00000532	J	mg/L	1.06	08/16/24 12:19 PM
HERBICIDE IN WATER		Εθ	315				Analyst: SUB
2,4,5-TP (Silvex)	< 0.0000893	0.0000893	0.000300		mg/L	1	08/23/24 02:41 PM
2,4-D	<0.000159	0.000159	0.000500		mg/L	1	08/23/24 02:41 PM
TOTAL PHENOLS WATER		E42	20.4				Analyst: SUB
Phenols, Total	0.0210	0.00300	0.00500		mg/L	1	08/16/24 09:29 AM
ANIONS BY IC METHOD - WATE	ER	E3	300				Analyst: <b>KES</b>
Fluoride	<0.100	0.100	0.400		mg/L	1	08/13/24 09:08 PM
Nitrate-N	<0.100	0.100	0.500		mg/L	1	08/13/24 09:08 PM
HEXAVALENT CHROMIUM-WAT	ΓER	M3500	CR B				Analyst: JL
Hexavalent Chromium	<0.00300	0.00300	0.00300		mg/L	1	08/12/24 07:35 PM
Trivalent Chromium	0.00249	0.00200	0.00300	N	mg/L	1	08/12/24 07:35 PM

Qualifiers:

DF Dilution Factor

Date: 28-Aug-24

Client Sample ID: Effluent

MDL Method Detection Limit

RL Reporting Limit

N Parameter not NELAP certified

<sup>\*</sup> Value exceeds TCLP Maximum Concentration Level

J Analyte detected between MDL and RLND Not Detected at the Method Detection Limit

S Spike Recovery outside control limits

C Sample Result or QC discussed in the Case Narrative

E TPH pattern not Gas or Diesel Range Pattern

**Project:** 

CLIENT: Kasberg, Patrick & Associates, LP

Cameron Permit Lab ID: 2408153-01

Project No: Collection Date: 08/12/24 11:05 AM

Lab Order: 2408153 Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual Units	DF	Date Analyzed
CYANIDE - WATER SAMPLE		M4500-	CN E			Analyst: SMA
Cyanide, Amenable to Chlorination	< 0.0100	0.0100	0.0200	mg/L	1	08/15/24 04:17 PM
Cyanide, Total	< 0.0100	0.0100	0.0200	mg/L	1	08/15/24 04:17 PM

Qualifiers:

\* Value exceeds TCLP Maximum Concentration Level

DF Dilution Factor

J Analyte detected between MDL and RLND Not Detected at the Method Detection Limit

S Spike Recovery outside control limits

C Sample Result or QC discussed in the Case Narrative

Date: 28-Aug-24

Client Sample ID: Effluent

E TPH pattern not Gas or Diesel Range Pattern

MDL Method Detection Limit

RL Reporting Limit

N Parameter not NELAP certified

**Date:** 28-Aug-24

**CLIENT:** Kasberg, Patrick & Associates, LP

Work Order: 2408153

ANALYTICAL QC SUMMARY REPORT Cameron Permit **RunID:** LCMS2 240816A Project:

Project:	Cameron	CIIIII					Kulli	, L	CN182_24	0010/1		
The QC data in	batch 116771 ap	plies to th	e following s	amples: 2408	3153-01H							
Sample ID: ME	3-116771	Batch ID	: 116771		TestNo:	E632			Units:	mg/L		
SampType: ME	BLK	Run ID:	LCMS2	_240816A	Analysis	Date: 8/16/2	024 3:58:	21 PM	Prep Date:	8/16/20	24	
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLimi	t HighLimit %	%RPD RF	PDLimit	Qual
Diuron		<	0.0000300	0.0000800								N
Hexachlorophe	ne		< 0.00100	0.00500								Ν
Surr: Carbaz	ole		6.76		10.00		67.6	35	145			
Sample ID: LC	S-116771	Batch ID	): 116771		TestNo:	E632			Units:	mg/L		
SampType: LC	s	Run ID:	LCMS2	_240816A	Analysis	Date: 8/16/2	024 4:09:	46 PM	Prep Date:	8/16/20	24	
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLimi	t HighLimit %	%RPD RF	PDLimit	Qual
Diuron			0.00160	0.0000800	0.00200	0	79.8	35	145			N
Hexachlorophe	ne		0.00197	0.00500	0.00200	0	98.6	35	145			N
Surr: Carbaz	ole		6.44		10.00		64.4	35	145			
Sample ID: LC	SD-116771	Batch ID	: 116771		TestNo:	E632			Units:	mg/L		
SampType: LC	SD	Run ID:	LCMS2	_240816A	Analysis	Date: 8/20/2	024 11:23	39 AM	Prep Date:	8/16/20	24	
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLimi	t HighLimit %	6RPD RF	PDLimit	Qual
Diuron			0.00162	0.0000800	0.00200	0	81.1	35	145	1.60	30	N
Hexachlorophe	ne		0.00189	0.00500	0.00200	0	94.3	35	145	4.47	30	N
Surr: Carbaz	ole		6.21		10.00		62.1	35	145	0	0	

Qualifiers: В Analyte detected in the associated Method Blank

> J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

Reporting Limit

Analyte detected between SDL and RL

DF Dilution Factor

MDL Method Detection Limit

RPD outside accepted control limits R

Spike Recovery outside control limits Parameter not NELAP certified

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**Work Order:** 2408153

## ANALYTICAL QC SUMMARY REPORT

Project: Cameron Permit RunID: ICP-MS5\_240823A

The QC data	a in batch	116885 ap	oplies to the	following	samples: 240	8153-01B						
Sample ID:	MB-11688	5	Batch ID:	116885		TestNo	o: <b>E20</b> 0	0.8		Units:	mg/L	ı
SampType:	MBLK		Run ID:	ICP-MS	5_240823A	Analys	sis Date: <b>8/23</b>	/2024 9:08:	00 AM	Prep Date:	8/22/	2024
nalyte				Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit 9	%RPD	RPDLimit Qu
Aluminum				<0.0100	0.0300							
Antimony			<	0.000800	0.00250							
Arsenic				<0.00200	0.00500							
Barium				<0.00300	0.0100							
Beryllium			<	0.000300	0.00100							
Cadmium			<	0.000300	0.00100							
Chromium				<0.00200	0.00500							
Copper				<0.00200	0.0100							
ead			<	0.000300	0.00100							
lickel				<0.00300	0.0100							
Selenium				<0.00200	0.00500							
Silver			•	<0.00100	0.00200							
hallium			<	0.000500	0.00150							
Zinc				<0.00200	0.00500							
ample ID:	LCS-1168	85	Batch ID:	116885		TestNo	o: <b>E20</b> 0	0.8		Units:	mg/L	ı
ampType:	LCS		Run ID:	ICP-MS	5_240823A	Analys	sis Date: <b>8/23</b>	/2024 9:22:	00 AM	Prep Date:	8/22/	2024
nalyte				Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit 9	%RPD	RPDLimit Q
luminum				4.93	0.0300	5.00	0	98.6	85	115		
ntimony				0.199	0.00250	0.200	0	99.3	85	115		
rsenic				0.195	0.00500	0.200	0	97.7	85	115		
Barium				0.195	0.0100	0.200	0	97.5	85	115		
Beryllium				0.197	0.00100	0.200	0	98.6	85	115		
Cadmium				0.197	0.00100	0.200	0	98.5	85	115		
Chromium				0.195	0.00500	0.200	0	97.7	85	115		
Copper				0.196	0.0100	0.200	0	97.9	85	115		
ead				0.193	0.00100	0.200	0	96.3	85	115		
lickel				0.198	0.0100	0.200	0	98.8	85	115		
Selenium				0.199	0.00500	0.200	0	99.5	85	115		
Silver				0.194	0.00200	0.200	0	97.2	85	115		
hallium				0.186	0.00150	0.200	0	93.1	85	115		
Zinc Zinc				0.197	0.00500	0.200	0	98.6	85	115		
Sample ID:	LCSD-116	885	Batch ID:	116885		TestNo	D: <b>E20</b> 0	).8		Units:	mg/L	
SampType:	LCSD		Run ID:	ICP-MS	55_240823A	Analys	sis Date: <b>8/23</b>	/2024 9:25:	00 AM	Prep Date:	8/22/	2024
Analyte				Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit 9	%RPD	RPDLimit Q
luminum				4.94	0.0300	5.00	0	98.7	85	115	0.129	15
Antimony				0.207	0.00250	0.200	0	104	85	115	4.26	15
Qualifiers:	В	Analyte det	tected in the	associated N	Method Blank	DF	Dilution Facto	r				
	J A	Analyte det	tected between	en MDL and	l RL	MDL	Method Detec	tion Limit			I	Page 2 of 2
	ND N	Not Detecte	ed at the Met	hod Detecti	on Limit	R	RPD outside a	ccepted con	trol limits			<i>U</i> -
	RL F	Reporting I	Limit			S	Spike Recover	_		3		
	-						_					

Parameter not NELAP certified

Analyte detected between SDL and RL

**Work Order:** 2408153

### ANALYTICAL QC SUMMARY REPORT

Project: Cameron Permit RunID: ICP-MS5\_240823A

rroject:	Cameron	CITIII					Kuiiii		C1 -W155_		
Sample ID:	LCSD-116885	Batch ID:	116885		TestNo	E20	0.8		Units:	mg/L	
SampType:	LCSD	Run ID:	ICP-MS5	_240823A	Analys	is Date: <b>8/23</b>	3/2024 9:25:	00 AM	Prep Date:	8/22/	2024
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit	%RPD	RPDLimit Qua
Arsenic			0.200	0.00500	0.200	0	99.9	85	115	2.17	15
Barium			0.200	0.0100	0.200	0	100	85	115	2.73	15
Beryllium			0.199	0.00100	0.200	0	99.5	85	115	0.830	15
Cadmium			0.201	0.00100	0.200	0	101	85	115	2.05	15
Chromium			0.198	0.00500	0.200	0	98.8	85	115	1.17	15
Copper			0.199	0.0100	0.200	0	99.6	85	115	1.78	15
Lead			0.195	0.00100	0.200	0	97.3	85	115	1.03	15
Nickel			0.201	0.0100	0.200	0	101	85	115	1.95	15
Selenium			0.206	0.00500	0.200	0	103	85	115	3.64	15
Silver			0.202	0.00200	0.200	0	101	85	115	3.64	15
Thallium			0.190	0.00150	0.200	0	95.1	85	115	2.11	15
Zinc			0.202	0.00500	0.200	0	101	85	115	2.29	15
Sample ID:	2408226-02B SD	Batch ID:	116885		TestNo	D: <b>E20</b>	0.8		Units:	mg/L	
SampType:	SD	Run ID:	ICP-MS5	_240823A	Analys	is Date: <b>8/23</b>	3/2024 9:33:	00 AM	Prep Date:	8/22/	2024
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit	%RPD	RPDLimit Qua
Aluminum			0.189	0.150	0	0.194				2.64	10
Antimony		<	<0.00400	0.0125	0	0				0	10
Arsenic			<0.0100	0.0250	0	0				0	10
Barium			0.109	0.0500	0	0.105				3.85	10
Beryllium		<	<0.00150	0.00500	0	0				0	10
Cadmium		<	<0.00150	0.00500	0	0				0	10
Chromium		•	<0.0100	0.0250	0	0.00277				0	10
Copper			<0.0100	0.0500	0	0				0	10
Lead		<	<0.00150	0.00500	0	0				0	10
Nickel			<0.0150	0.0500	0	0				0	10
Selenium			<0.0100	0.0250	0	0.00442				0	10
Silver		<	<0.00500	0.0100	0	0				0	10
Thallium		<	<0.00250	0.00750	0	0				0	10
Zinc			<0.0100	0.0250	0	0.00317				0	10
Sample ID:	2408226-02B PDS	Batch ID:	116885		TestNo	D: <b>E20</b>	0.8		Units:	mg/L	
SampType:	PDS	Run ID:	ICP-MS5	_240823A	Analys	is Date: <b>8/23</b>	3/2024 9:58:	00 AM	Prep Date:	8/22/	2024
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit	%RPD	RPDLimit Qua
Aluminum			5.10	0.0300	5.00	0.195	98.1	75	125	_	
Antimony			0.203	0.00250	0.200	0	101	75	125		
Arsenic			0.197	0.00500	0.200	0	98.7	75	125		
Barium			0.304	0.0100	0.200	0.105	99.5	75	125		
Beryllium			0.200	0.00100	0.200	0	100	75	125		
Qualifiers:	B Analyte dete	ected in the a	associated Me	ethod Blank	DF	Dilution Facto	or				
~	•		n MDL and I			Method Detec				1	Page 3 of 28
	ND Not Detecte	1 1 . N	and I		MIDL	DDD outside of	on Limit			1	age 3 01 28

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R

RPD outside accepted control limits

Spike Recovery outside control limits

Parameter not NELAP certified

ND Not Detected at the Method Detection Limit

Analyte detected between SDL and RL

RL Reporting Limit

**Work Order:** 2408153

### ANALYTICAL QC SUMMARY REPORT

Project: Cameron Permit RunID: ICP-MS5\_240823A

Project:	Cameron l	Permit					RunII	): <u> </u>	ICP-MS5_2	24082	,3A
Sample ID:	2408226-02B PDS	Batch ID:	116885		TestNo	): <b>E20</b> 0	0.8		Units:	mg/L	
SampType:	PDS	Run ID:	ICP-MS5	_240823A	Analys	is Date: <b>8/23</b>	/2024 9:58:	00 AM	Prep Date:	8/22/	2024
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLim	nit HighLimit %	6RPD	RPDLimit Qual
Cadmium			0.204	0.00100	0.200	0	102	75	125		
Chromium			0.207	0.00500	0.200	0.00277	102	75	125		
Copper			0.197	0.0100	0.200	0	98.6	75	125		
Lead			0.200	0.00100	0.200	0	100	75	125		
Nickel			0.203	0.0100	0.200	0	102	75	125		
Selenium			0.200	0.00500	0.200	0.00442	97.9	75	125		
Silver			0.177	0.00200	0.200	0	88.4	75	125		
Thallium			0.201	0.00150	0.200	0	100	75	125		
Zinc			0.200	0.00500	0.200	0.00317	98.6	75	125		
Sample ID:	2408226-02B MS	Batch ID:	116885		TestNo	): <b>E20</b> 0	0.8		Units:	mg/L	
SampType:	MS	Run ID:	ICP-MS5	_240823A	Analys	is Date: <b>8/23</b>	/2024 10:01	1:00 AM	Prep Date:	8/22/	2024
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLim	nit HighLimit %	6RPD	RPDLimit Qual
Aluminum			5.04	0.0300	5.00	0.195	97.0	70	130		
Antimony			0.197	0.00250	0.200	0	98.7	70	130		
Arsenic			0.193	0.00500	0.200	0	96.7	70	130		
Barium			0.304	0.0100	0.200	0.105	99.5	70	130		
Beryllium			0.194	0.00100	0.200	0	97.1	70	130		
Cadmium			0.196	0.00100	0.200	0	98.2	70	130		
Chromium			0.197	0.00500	0.200	0.00277	96.9	70	130		
Copper			0.191	0.0100	0.200	0	95.3	70	130		
Lead			0.192	0.00100	0.200	0	96.2	70	130		
Nickel			0.191	0.0100	0.200	0	95.6	70	130		
Selenium			0.196	0.00500	0.200	0.00442	95.6	70	130		
Silver			0.192	0.00200	0.200	0	96.2	70	130		
Thallium			0.189	0.00150	0.200	0	94.3	70	130		
Zinc			0.193	0.00500	0.200	0.00317	94.7	70	130		
Sample ID:	2408226-02B MSD	Batch ID:	116885		TestNo	E200	0.8		Units:	mg/L	
SampType:	MSD	Run ID:	ICP-MS5	_240823A	Analys	is Date: 8/23	/2024 10:04	1:00 AM	Prep Date:	8/22/	2024
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLim	nit HighLimit %	6RPD	RPDLimit Qual
Aluminum			5.10	0.0300	5.00	0.195	98.0	70	130	1.03	15
Antimony			0.201	0.00250	0.200	0	100	70	130	1.65	15
						_					

SampType: MSD	Run ID:	101 -110	55_240823A	Allalys	is Date: <b>8/23/</b>	2027 10.05	AIVI	Prep Date	. 0/22/	/2024
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit	%RPD	RPDLimit Qua
Aluminum		5.10	0.0300	5.00	0.195	98.0	70	130	1.03	15
Antimony		0.201	0.00250	0.200	0	100	70	130	1.65	15
Arsenic		0.196	0.00500	0.200	0	98.1	70	130	1.52	15
Barium		0.307	0.0100	0.200	0.105	101	70	130	1.13	15
Beryllium		0.196	0.00100	0.200	0	98.0	70	130	1.00	15
Cadmium		0.198	0.00100	0.200	0	99.1	70	130	0.869	15
Chromium		0.200	0.00500	0.200	0.00277	98.4	70	130	1.46	15
Copper		0.193	0.0100	0.200	0	96.6	70	130	1.41	15

Qualifiers: B Analyte detected in the associated Method Blank

 $J \quad \ \ Analyte \ detected \ between \ MDL \ and \ RL$ 

ND Not Detected at the Method Detection Limit

RL Reporting Limit

J Analyte detected between SDL and RL

DF Dilution Factor

MDL Method Detection Limit

R RPD outside accepted control limits

S Spike Recovery outside control limits

N Parameter not NELAP certified

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**Work Order:** 2408153

ANALYTICAL QC SUMMARY REPORT

Project: Cameron Permit RunID: ICP-MS5\_240823A

Sample ID: <b>2408226-02B MSD</b>	Batch ID:	116885		TestNo	): <b>E20</b>	0.8		Units:	mg/l	L
SampType: <b>MSD</b>	Run ID:	ICP-MS	5_240823A	Analys	is Date: <b>8/23</b>	3/2024 10:04	1:00 AM	Prep Date	8/22	/2024
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimi	t HighLimit	%RPD	RPDLimit Qual
Lead		0.195	0.00100	0.200	0	97.3	70	130	1.16	15
Nickel		0.194	0.0100	0.200	0	97.0	70	130	1.47	15
Selenium		0.196	0.00500	0.200	0.00442	95.9	70	130	0.256	15
Silver		0.194	0.00200	0.200	0	97.2	70	130	0.986	15
Thallium		0.192	0.00150	0.200	0	95.8	70	130	1.58	15
Zinc		0.195	0.00500	0.200	0.00317	96.1	70	130	1.39	15

Qualifiers:

B Analyte detected in the associated Method Blank

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

RL Reporting Limit

J Analyte detected between SDL and RL

DF Dilution Factor

MDL Method Detection Limit

R RPD outside accepted control limits

S Spike Recovery outside control limits

N Parameter not NELAP certified

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**CLIENT:** Kasberg, Patrick & Associates, LP ANALYTICAL QC SUMMARY REPORT

Work Order: 2408153

GCMS10\_240813A **RunID: Project:** Cameron Permit

The QC data in batch 116681 a	applies to the following	samples: 2408	3153-01F, 24	08153-01G						
Sample ID: LCS-116681	Batch ID: 116681		TestN	lo: <b>E62</b> :	5.1		Units:	mg/L		
SampType: <b>LCS</b>	Run ID: GCMS1	10_240813A	Analy	sis Date: <b>8/13</b>	/2024 2:47:	00 PM	Prep Date:	8/12/202	24	
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	6RPD RPI	DLimit	Qual
4,4´-DDD	0.000326	0.0000200	0.000400	0	81.5	0.1	135			
4,4´-DDE	0.000323	0.0000200	0.000400	0	80.8	19	120			
4,4´-DDT	0.000342	0.0000200	0.000400	0	85.6	0.1	171			
Aldrin	0.000284	0.0000100	0.000400	0	71.0	7	152			
alpha-BHC	0.000303	0.0000200	0.000400	0	75.6	42	108			
beta-BHC	0.000313	0.0000200	0.000400	0	78.2	42	131			
Carbaryl	0.000396	0.0000300	0.000400	0	99.0	38	168			Ν
Chlorpyrifos	0.000394	0.0000300	0.000400	0	98.4	42	131			Ν
delta-BHC	0.000312	0.0000200	0.000400	0	78.0	0.1	120			
Diazinon	0.000354	0.0000300	0.000400	0	88.5	52	120			Ν
Dieldrin	0.000306	0.0000200	0.000400	0	76.5	44	119			
Endosulfan I	0.000318	0.0000100	0.000400	0	79.4	47	128			
Endosulfan II	0.000315	0.0000200	0.000400	0	78.7	52	125			
Endosulfan sulfate	0.000341	0.0000200	0.000400	0	85.2	0.1	120			
Endrin	0.000357	0.0000200	0.000400	0	89.4	50	151			
Endrin aldehyde	0.000214	0.0000200	0.000400	0	53.6	0.1	189			
gamma-BHC	0.000286	0.0000200	0.000400	0	71.6	41	111			
Guthion (Azinphosmethyl)	0.000381	0.0000300	0.000400	0	95.1	44	193			N
Heptachlor	0.000296	0.0000100	0.000400	0	73.9	0.1	172			••
Heptachlor epoxide	0.000324	0.0000100	0.000400	0	81.0	71	120			
Malathion	0.000481	0.0000300	0.000400	0	120	56	161			N
Methoxychlor	0.000369	0.0000200	0.000400	0	92.1	38	156			N
Mirex	0.000268	0.0000200	0.000400	0	66.9	27	131			N
Parathion, ethyl	0.000200	0.0000200	0.000400	0	102	13	184			N
Demeton (O & S)	0.000409	0.0000300	0.000400	0	89.3	28	154			N
Surr: 2-Fluorobiphenyl	3.03	0.0000300	4.000	O	75.7	43	116			14
• •	3.79		4.000			33	141			
Surr: 4-Terphenyl-d14	3.79		4.000		94.8	33	141			
Sample ID: LCSD-116681	Batch ID: 116681		TestN	lo: <b>E62</b>	5.1		Units:	mg/L		
SampType: LCSD	Run ID: GCMS1	10_240813A	Analy	sis Date: <b>8/13</b>	/2024 3:15:	00 PM	Prep Date:	8/12/202	24	
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	6RPD RPI	DLimit	Qual
4,4´-DDD	0.000351	0.0000200	0.000400	0	87.9	0.1	135	7.49	50	
4,4´-DDE	0.000344	0.0000200	0.000400	0	85.9	19	120	6.14	50	
4,4´-DDT	0.000378	0.0000200	0.000400	0	94.4	0.1	171	9.88	50	
Aldrin	0.000275	0.0000100	0.000400	0	68.8	7	152	3.21	50	
alpha-BHC	0.000315	0.0000200	0.000400	0	78.8	42	108	4.03	50	
beta-BHC	0.000341	0.0000200	0.000400	0	85.2	42	131	8.68	50	
Carbaryl	0.000406	0.0000300	0.000400	0	102	38	168	2.51	50	Ν
Chlorpyrifos	0.000408	0.0000300	0.000400	0	102	42	131	3.59	50	Ν
Qualifiers: B Analyte de	etected in the associated N	Method Rlank	DF	Dilution Factor	nr					
,	etected in the associated retected between MDL and			Method Detec				D. ·	a 6 = 1	200
•	ted at the Method Detecti		MDL R	RPD outside a		ral limita		Pag	e 6 of	. <b>4</b> 8

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R

RPD outside accepted control limits

Spike Recovery outside control limits

Parameter not NELAP certified

ND Not Detected at the Method Detection Limit

Analyte detected between SDL and RL

Reporting Limit

Work Order: 2408153

#### ANALYTICAL QC SUMMARY REPORT

Project:	Cameron	Permit					RunII	): (	GCMS10_2	24081	3A	
Sample ID: LCSD-	116681	Batch ID:	116681		TestNo	D: <b>E62</b>	5.1		Units:	mg/L		
SampType: LCSD		Run ID:	GCMS10	_240813A	Analys	is Date: <b>8/13</b>	/2024 3:15:	00 PM	Prep Date:	8/12/	2024	
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLim	nit HighLimit %	%RPD	RPDLimit	Qual
delta-BHC		0	.000334	0.0000200	0.000400	0	83.5	0.1	120	6.81	50	
Diazinon		0	.000387	0.0000300	0.000400	0	96.8	52	120	8.87	50	Ν
Dieldrin		0	.000348	0.0000200	0.000400	0	86.9	44	119	12.8	50	
Endosulfan I		0	.000343	0.0000100	0.000400	0	85.8	47	128	7.68	50	
Endosulfan II		0	.000352	0.0000200	0.000400	0	87.9	52	125	11.1	50	
Endosulfan sulfate		0	.000362	0.0000200	0.000400	0	90.6	0.1	120	6.12	50	
Endrin		0	.000384	0.0000200	0.000400	0	96.0	50	151	7.21	50	
Endrin aldehyde		0	.000240	0.0000200	0.000400	0	60.1	0.1	189	11.5	50	
gamma-BHC		0	.000292	0.0000200	0.000400	0	73.0	41	111	1.95	50	
Guthion (Azinphosn	nethyl)	0	.000420	0.0000300	0.000400	0	105	44	193	9.78	50	Ν
Heptachlor		0	.000286	0.0000100	0.000400	0	71.4	0.1	172	3.43	50	
Heptachlor epoxide		0	.000348	0.0000100	0.000400	0	87.0	71	120	7.13	50	
Malathion		0	.000527	0.0000300	0.000400	0	132	56	161	9.12	50	Ν
Methoxychlor		0	.000395	0.0000200	0.000400	0	98.7	38	156	6.85	50	Ν
Mirex		0	.000281	0.0000200	0.000400	0	70.1	27	131	4.71	50	Ν
Parathion, ethyl		0	.000431	0.0000300	0.000400	0	108	13	184	5.21	50	Ν
Demeton (O & S)		0	.000384	0.0000300	0.000400	0	96.0	28	154	7.18	50	Ν
Surr: 2-Fluorobip	henyl		2.91		4.000		72.7	43	116	0	0	
Surr: 4-Terpheny	•		3.89		4.000		97.1	33	141	0	0	
Sample ID: MB-11	6681	Batch ID:	116681		TestNo	o: <b>E62</b>	5.1		Units:	mg/L		
SampType: <b>MBLK</b>		Run ID:	GCMS10	_240813A	Analys	is Date: <b>8/13</b>	/2024 5:07:	00 PM	Prep Date:	8/12/	2024	
Analyte			Result	RL	SPK value	Ref Val	%REC	LowLim	nit HighLimit 9	%RPD	RPDLimit	Qual
4,4´-DDD		<0	.0000100	0.0000200								
4,4´-DDE			.0000100	0.0000200								
4,4´-DDT			.0000100	0.0000200								
Aldrin			.0000100	0.0000100								
alpha-BHC			.0000100	0.0000200								
beta-BHC			.0000100	0.0000200								
Carbaryl			.0000100	0.0000300								N
Chlordane			.0000600	0.000200								N
Chlorpyrifos			.0000100	0.0000300								N
delta-BHC			.0000100	0.0000200								
Diazinon			.0000100	0.0000300								N
Dieldrin			.0000100	0.0000200								
Endosulfan I			.0000100	0.0000200								
Endosulfan II			.0000100	0.0000100								
Endosulfan sulfate			.0000100	0.0000200								
Endrin			.0000100	0.0000200								
Endrin aldehyde			.0000100	0.0000200								
Lituriii alderiyde		<0	.0000100	0.0000200								

Qualifiers: В Analyte detected in the associated Method Blank

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

Reporting Limit

Analyte detected between SDL and RL

DF Dilution Factor

MDL Method Detection Limit

R RPD outside accepted control limits

Spike Recovery outside control limits

Parameter not NELAP certified

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**Work Order:** 2408153

### ANALYTICAL QC SUMMARY REPORT

Project: Cameron Permit RunID: GCMS10\_240813A

Sample ID: <b>MB-116681</b>	Batch ID: 116681		TestNo:	E625	.1		Units:	mg/L	
SampType: <b>MBLK</b>	Run ID: GCMS	I0_240813A	Analysis	Date: <b>8/13/</b> 2	2024 5:07:	00 PM	Prep Date:	8/12/2024	
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD RPDLim	it Qual
gamma-BHC	<0.0000100	0.0000200							
Guthion (Azinphosmethyl)	<0.0000100	0.0000300							Ν
Heptachlor	<0.0000100	0.0000100							
Heptachlor epoxide	<0.0000100	0.0000100							
Malathion	<0.0000100	0.0000300							Ν
Methoxychlor	<0.0000200	0.0000200							Ν
Mirex	<0.0000100	0.0000200							Ν
Parathion, ethyl	<0.0000100	0.0000300							Ν
Toxaphene	<0.000300	0.000300							
Demeton (O & S)	<0.0000100	0.0000300							Ν
Surr: 2-Fluorobiphenyl	2.92		4.000		73.0	43	116		
Surr: 4-Terphenyl-d14	3.84		4.000		96.0	33	141		

Qualifiers: B Analyte detected in the associated Method Blank

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

RL Reporting Limit

J Analyte detected between SDL and RL

DF Dilution Factor

MDL Method Detection Limit

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R RPD outside accepted control limits

S Spike Recovery outside control limits

N Parameter not NELAP certified

**Work Order:** 2408153

Dicofol

### ANALYTICAL QC SUMMARY REPORT

Project: Cameron Permit RunID: GCMS10\_240813B

The QC data in batch 116681 ap	plies to the	following sa	amples: 2408	3153-01F, 2408	153-01G					
Sample ID: LCS-116681-DICO	Batch ID:	116681		TestNo:	D5	812-96mod		Units:	mg/L	
SampType: <b>LCS</b>	Run ID:	GCMS10	_240813B	Analysis	Date: 8/1	3/2024 4:40:0	0 PM	Prep Date:	8/12/2024	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	t HighLimit	%RPD RPDLimi	t Qual
Dicofol	C	0.000930	0.000400	0.00100	0	93.0	22	180		N
Sample ID: <b>MB-116681</b>	Batch ID:	116681		TestNo:	D5	812-96mod		Units:	mg/L	
SampType: <b>MBLK</b>	Run ID:	GCMS10	_240813B	Analysis	Date: 8/1	3/2024 5:07:0	0 PM	Prep Date:	8/12/2024	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	t HighLimit	%RPD RPDLimi	t Qual

0.000400

< 0.000200

Qualifiers: B Analyte detected in the associated Method Blank

 $J \quad \ \ Analyte \ detected \ between \ MDL \ and \ RL$ 

ND Not Detected at the Method Detection Limit

RL Reporting Limit

J Analyte detected between SDL and RL

DF Dilution Factor

MDL Method Detection Limit

R RPD outside accepted control limits

S Spike Recovery outside control limits

N Parameter not NELAP certified

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**CLIENT:** Kasberg, Patrick & Associates, LP ANALYTICAL QC SUMMARY REPORT

Work Order: 2408153

GCMS8\_240813A **RunID: Project:** Cameron Permit

The QC data in batch 116681 ap	plies to the	following s	amples: 2408	3153-01F, 2408	3153-01G				
Sample ID: LCS-116681-PCB	Batch ID:	116681		TestNo	E625	5.1		Units:	mg/L
SampType: <b>LCS</b>	Run ID:	GCMS8	_240813A	Analysi	s Date: <b>8/13</b> /	/2024 12:37	7:00 PM	Prep Date:	8/12/2024
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	6RPD RPDLimit Qual
Aroclor 1016	C	0.00355	0.000200	0.00400	0	88.7	37	130	
Aroclor 1260	C	0.00342	0.000200	0.00400	0	85.5	19	130	
Total PCBs	C	0.00697	0.000200	0.00800	0	87.1	19	130	
Surr: 2-Fluorobiphenyl		3.61		4.000		90.3	43	116	
Surr: 4-Terphenyl-d14		3.78		4.000		94.4	33	141	
Sample ID: MB-116681	Batch ID:	116681		TestNo	E625	5.1		Units:	mg/L
SampType: MBLK	Run ID:	GCMS8	_240813A	Analysi	s Date: <b>8/13</b> /	/2024 1:08:	00 PM	Prep Date:	8/12/2024
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	GRPD RPDLimit Qual
Aroclor 1016	<0	0.000100	0.000200						
Aroclor 1221	<0	0.000100	0.000200						
Aroclor 1232	<0	0.000100	0.000200						
Aroclor 1242	<0	0.000100	0.000200						
Aroclor 1248	<0	0.000100	0.000200						
Aroclor 1254	<0	0.000100	0.000200						
Aroclor 1260	<0	0.000100	0.000200						
Total PCBs	<0	0.000100	0.000200						
Surr: 2-Fluorobiphenyl		3.32		4.000		82.9	43	116	
Surr: 4-Terphenyl-d14		3.62		4.000		90.5	33	141	

Qualifiers: Analyte detected in the associated Method Blank

> J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

Reporting Limit

Analyte detected between SDL and RL

DF Dilution Factor

MDL Method Detection Limit

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R RPD outside accepted control limits

Spike Recovery outside control limits

Parameter not NELAP certified

**Work Order:** 2408153

### ANALYTICAL QC SUMMARY REPORT

Project: Cameron Permit RunID: GCMS9\_240820A

The QC data in batch 116798 a	applies to the	following	samples: 240	8153-01E					
Sample ID: LCS-116798	Batch ID:	116798	1	TestNo	E62	5.1		Units:	mg/L
SampType: <b>LCS</b>	Run ID:	GCMS	9_240820A	Analys	is Date: <b>8/20</b>	/2024 10:38	3:00 AM	Prep Date:	8/19/2024
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	RPD RPDLimit Qua
Benzidine	(	0.0143	0.00400	0.0400	0	35.7	5	125	
Benzo[a]anthracene	(	0.0344	0.00200	0.0400	0	86.0	33	143	
Benzo[a]pyrene	(	0.0385	0.00200	0.0400	0	96.2	17	163	
Chrysene	(	0.0365	0.00200	0.0400	0	91.2	17	168	
2,4-Dimethylphenol	(	0.0312	0.00200	0.0400	0	78.1	32	120	
4,6-Dinitro-o-cresol	(	0.0404	0.00400	0.0400	0	101	10	181	
m,p-Cresols	(	0.0246	0.00400	0.0400	0	61.4	10	125	
o-Cresol	(	0.0263	0.00400	0.0400	0	65.7	25	125	
p-Chloro-m-Cresol	(	0.0337	0.00400	0.0400	0	84.4	22	147	
Hexachlorobenzene	(	0.0340	0.00200	0.0400	0	85.0	10	152	
Hexachlorobutadiene	(	0.0289	0.00200	0.0400	0	72.2	24	120	
Hexachloroethane	(	0.0307	0.00200	0.0400	0	76.8	40	120	
Nitrobenzene	(	0.0345	0.00200	0.0400	0	86.4	35	180	
N-Nitrosodiethylamine	(	0.0318	0.00400	0.0400	0	79.4	20	125	
N-Nitrosodi-n-butylamine	(	0.0383	0.00400	0.0400	0	95.6	20	125	
Pentachlorobenzene		0.0324	0.00200	0.0400	0	81.0	40	140	
Pentachlorophenol		0.0309	0.00200	0.0400	0	77.2	14	176	
Phenanthrene		0.0334	0.00200	0.0400	0	83.5	54	120	
Pyridine		0.0163	0.00200	0.0400	0	40.7	10	75	
1,2,4,5-Tetrachlorobenzene		0.0314	0.00200	0.0400	0	78.6	30	140	
2,4,5-Trichlorophenol		0.0370	0.00200	0.0400	0	92.6	25	125	
2-Chlorophenol		0.0292	0.00200	0.0400	0	73.1	23	134	
2,4-Dichlorophenol		0.0327	0.00200	0.0400	0	81.6	39	135	
2,4-Dinitrophenol		0.0328	0.00400	0.0400	0	81.9	10	191	
2-Nitrophenol		0.0350	0.00200	0.0400	0	87.6	29	182	
4-Nitrophenol		0.0216	0.00200	0.0400	0	53.9	10	132	
Phenol		0.0210	0.00400	0.0400	0	36.0	5	120	
2,4,6-Trichlorophenol		0.0355	0.00200	0.0400	0	88.7	37	144	
Acenaphthene		0.0343	0.00200	0.0400	0	85.7	47	145	
·		0.0343	0.00200	0.0400	0	82.5	33	145	
Acenaphthylene Anthracene		0.0345	0.00200	0.0400	0	86.3	33 27	133	
							21 24		
Benzo[b]fluoranthene		0.0388	0.00200	0.0400	0	97.0 98.8	24 10	159	
Benzo[g,h,i]perylene		0.0395	0.00200	0.0400	0			219	
Benzo[k]fluoranthene		0.0352	0.00200	0.0400	0	88.0	11	162	
Bis(2-chloroethoxy)methane		0.0327	0.00200	0.0400	0	81.7	33	184	
Bis(2-chloroethyl)ether		0.0356	0.00200	0.0400	0	89.0	12	158	
Bis(2-chloroisopropyl)ether		0.0294	0.00200	0.0400	0	73.6	36	166	
Bis(2-ethylhexyl)phthalate		0.0432	0.00600	0.0400	0	108	10	158	
4-Bromophenyl phenyl ether		0.0347	0.00200	0.0400	0	86.8	53	127	
Butyl benzyl phthalate	(	0.0403	0.00600	0.0400	0	101	10	152	

Qualifiers:

B Analyte detected in the associated Method Blank

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

RL Reporting Limit

J Analyte detected between SDL and RL

DF Dilution Factor

MDL Method Detection Limit

R RPD outside accepted control limits

S Spike Recovery outside control limits

N Parameter not NELAP certified

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**Work Order:** 2408153

### ANALYTICAL QC SUMMARY REPORT

Project: Cameron Permit RunID: GCMS9\_240820A

Sample ID: LCS-116798	Batch ID:	116798		TestNo	E62	5.1		Units:	mg/L
SampType: <b>LCS</b>	Run ID:	GCMS9	_240820A	Analys	is Date: <b>8/20</b>	/2024 10:38	3:00 AM	Prep Date:	8/19/2024
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	6RPD RPDLimit Qua
2-Chloronaphthalene	(	0.0334	0.00200	0.0400	0	83.6	60	120	
4-Chlorophenyl phenyl ether	(	0.0356	0.00200	0.0400	0	88.9	25	158	
Dibenz[a,h]anthracene	(	0.0393	0.00200	0.0400	0	98.2	10	125	
3,3´-Dichlorobenzidine	(	0.0340	0.00500	0.0400	0	85.1	10	262	
Diethyl phthalate	(	0.0389	0.00600	0.0400	0	97.2	10	120	
Dimethyl phthalate	(	0.0364	0.00600	0.0400	0	91.0	10	120	
Di-n-butyl phthalate	(	0.0407	0.00600	0.0400	0	102	10	120	
2,4-Dinitrotoluene	(	0.0371	0.00200	0.0400	0	92.8	39	139	
2,6-Dinitrotoluene	(	0.0366	0.00200	0.0400	0	91.4	50	158	
Di-n-octyl phthalate	(	0.0396	0.00600	0.0400	0	99.1	10	146	
1,2-Diphenylhydrazine	(	0.0338	0.00200	0.0400	0	84.5	40	140	
Fluoranthene	(	0.0376	0.00200	0.0400	0	94.0	26	137	
Fluorene	(	0.0370	0.00200	0.0400	0	92.6	59	121	
Hexachlorocyclopentadiene	(	0.0336	0.00200	0.0400	0	84.1	8	130	
Indeno[1,2,3-cd]pyrene	(	0.0380	0.00200	0.0400	0	95.1	10	171	
Isophorone	(	0.0328	0.00200	0.0400	0	82.1	21	196	
Naphthalene	(	0.0314	0.00200	0.0400	0	78.6	21	133	
N-Nitrosodimethylamine	(	0.0152	0.00200	0.0400	0	38.0	10	125	
N-Nitrosodi-n-propylamine		0.0336	0.00200	0.0400	0	84.0	10	230	
N-Nitrosodiphenylamine		0.0357	0.00200	0.0400	0	89.3	20	125	
Pyrene	(	0.0365	0.00200	0.0400	0	91.4	52	120	
1,2,4-Trichlorobenzene	(	0.0311	0.00200	0.0400	0	77.8	44	142	
Surr: 2,4,6-Tribromophenol		71.4		80.00		89.2	10	123	
Surr: 2-Fluorobiphenyl		58.8		80.00		73.5	43	116	
Surr: 2-Fluorophenol		44.2		80.00		55.2	21	100	
Surr: 4-Terphenyl-d14		65.8		80.00		82.2	33	141	
Surr: Nitrobenzene-d5		67.8		80.00		84.8	35	115	
Surr: Phenol-d5		26.4		80.00		33.0	10	94	
Sample ID: <b>MB-116798</b>	Batch ID:	116798		TestNo	: <b>E62</b> 5	5.1		Units:	mg/L
SampType: <b>MBLK</b>	Run ID:	GCMS9	_240820A	Analys	is Date: <b>8/20</b>	/2024 12:06	6:00 PM	Prep Date:	8/19/2024
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	6RPD RPDLimit Qua
Benzidine	<	0.00100	0.00400						
Benzo[a]anthracene	<	0.00100	0.00200						
Benzo[a]pyrene	<	0.00100	0.00200						
Chrysene	<	0.00100	0.00200						
2,4-Dimethylphenol	<	0.00100	0.00200						
4,6-Dinitro-o-cresol	<	0.00200	0.00400						
m,p-Cresols	<	0.00200	0.00400						
o-Cresol		0.00200	0.00400						

Qualifiers: B Analyte detected in the associated Method Blank

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

RL Reporting Limit

J Analyte detected between SDL and RL

DF Dilution Factor

MDL Method Detection Limit

R RPD outside accepted control limits

S Spike Recovery outside control limits

N Parameter not NELAP certified

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Cameron Permit

Work Order: 2408153

**Project:** 

ANALYTICAL QC SUMMARY REPORT

GCMS9\_240820A **RunID:** 

SampType: MBLK  Analyte  p-Chloro-m-Cresol Hexachlorobenzene Hexachlorobethane Hexachloroethane Nitrobenzene N-Nitrosodiethylamine N-Nitrosodi-n-butylamine Pentachlorobenzene Pentachlorophenol Phenanthrene Pyridine 1,2,4,5-Tetrachlorobenzene 2,4,5-Trichlorophenol 2-Chlorophenol 2,4-Dichlorophenol 2,4-Dichlorophenol	Run ID: GC  Resu  <0.002 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	00 0.00400 00 0.00200 00 0.00200 00 0.00200 00 0.00200 00 0.00400 00 0.00200 00 0.00200 00 0.00200 00 0.00200 00 0.00200 00 0.00200	Analys SPK value	Ref Val	%REC		Prep Date:	8/19/2024 6RPD RPDLimit Qua
p-Chloro-m-Cresol Hexachlorobenzene Hexachlorobetadiene Hexachloroethane Nitrobenzene N-Nitrosodiethylamine N-Nitrosodi-n-butylamine Pentachlorobenzene Pentachlorophenol Phenanthrene Pyridine 1,2,4,5-Tetrachlorobenzene 2,4,5-Trichlorophenol 2,4-Dichlorophenol	<0.002 <0.001 <0.001 <0.001 <0.002 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	00 0.00400 00 0.00200 00 0.00200 00 0.00200 00 0.00200 00 0.00400 00 0.00200 00 0.00200 00 0.00200 00 0.00200 00 0.00200 00 0.00200	SPK value	Ref Val	%REC	LowLim	it HighLimit %	6RPD RPDLimit Qua
Hexachlorobenzene Hexachlorobutadiene Hexachloroethane Nitrobenzene N-Nitrosodiethylamine N-Nitrosodi-n-butylamine Pentachlorobenzene Pentachlorophenol Phenanthrene Pyridine 1,2,4,5-Tetrachlorobenzene 2,4,5-Trichlorophenol 2-Chlorophenol	<0.001 <0.001 <0.001 <0.002 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	00 0.00200 00 0.00200 00 0.00200 00 0.00200 00 0.00400 00 0.00200 00 0.00200 00 0.00200 00 0.00200 00 0.00200 00 0.00200						
Hexachlorobutadiene Hexachloroethane Nitrobenzene N-Nitrosodiethylamine N-Nitrosodi-n-butylamine Pentachlorobenzene Pentachlorophenol Phenanthrene Pyridine 1,2,4,5-Tetrachlorobenzene 2,4,5-Trichlorophenol 2-Chlorophenol	<0.001 <0.001 <0.001 <0.002 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	00     0.00200       00     0.00200       00     0.00200       00     0.00400       00     0.00400       00     0.00200       00     0.00200       00     0.00200       00     0.00200       00     0.00200       00     0.00200       00     0.00200       00     0.00200       00     0.00200						
Hexachloroethane Nitrobenzene N-Nitrosodiethylamine N-Nitrosodi-n-butylamine Pentachlorobenzene Pentachlorophenol Phenanthrene Pyridine 1,2,4,5-Tetrachlorobenzene 2,4,5-Trichlorophenol 2-Chlorophenol	<0.001 <0.001 <0.002 <0.001 <0.001 <0.001 <0.001 <0.001	00 0.00200 00 0.00200 00 0.00400 00 0.00400 00 0.00200 00 0.00200 00 0.00200 00 0.00200						
Nitrobenzene N-Nitrosodiethylamine N-Nitrosodi-n-butylamine Pentachlorobenzene Pentachlorophenol Phenanthrene Pyridine 1,2,4,5-Tetrachlorobenzene 2,4,5-Trichlorophenol 2,4-Dichlorophenol	<0.001 <0.002 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	00 0.00200 00 0.00400 00 0.00200 00 0.00200 00 0.00200 00 0.00200 00 0.00200						
N-Nitrosodiethylamine N-Nitrosodi-n-butylamine Pentachlorobenzene Pentachlorophenol Phenanthrene Pyridine 1,2,4,5-Tetrachlorobenzene 2,4,5-Trichlorophenol 2-Chlorophenol	<0.002 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001	00     0.00400       00     0.00400       00     0.00200       00     0.00200       00     0.00200       00     0.00200       00     0.00200       00     0.00200       00     0.00200						
N-Nitrosodi-n-butylamine Pentachlorobenzene Pentachlorophenol Phenanthrene Pyridine 1,2,4,5-Tetrachlorobenzene 2,4,5-Trichlorophenol 2-Chlorophenol 2,4-Dichlorophenol	<0.001 <0.001 <0.001 <0.001 <0.001 <0.001	00 0.00400 00 0.00200 00 0.00200 00 0.00200 00 0.00200 00 0.00200						
Pentachlorobenzene Pentachlorophenol Phenanthrene Pyridine 1,2,4,5-Tetrachlorobenzene 2,4,5-Trichlorophenol 2-Chlorophenol 2,4-Dichlorophenol	<0.001 <0.001 <0.001 <0.001 <0.001	00 0.00200 00 0.00200 00 0.00200 00 0.00200 00 0.00200						
Pentachlorophenol Phenanthrene Pyridine 1,2,4,5-Tetrachlorobenzene 2,4,5-Trichlorophenol 2-Chlorophenol 2,4-Dichlorophenol	<0.001 <0.001 <0.001 <0.001	00 0.00200 00 0.00200 00 0.00200 00 0.00200						
Phenanthrene Pyridine 1,2,4,5-Tetrachlorobenzene 2,4,5-Trichlorophenol 2-Chlorophenol 2,4-Dichlorophenol	<0.001 <0.001 <0.001 <0.001	00 0.00200 00 0.00200 00 0.00200						
Pyridine 1,2,4,5-Tetrachlorobenzene 2,4,5-Trichlorophenol 2-Chlorophenol 2,4-Dichlorophenol	<0.001 <0.001 <0.001	00 0.00200 00 0.00200						
1,2,4,5-Tetrachlorobenzene 2,4,5-Trichlorophenol 2-Chlorophenol 2,4-Dichlorophenol	<0.001 <0.001	0.00200						
2,4,5-Trichlorophenol 2-Chlorophenol 2,4-Dichlorophenol	<0.001							
2-Chlorophenol 2,4-Dichlorophenol								
2,4-Dichlorophenol	< 0.001	0.00200						
·		0.00200						
2,4-Dinitrophenol	<0.001	0.00200						
	< 0.002	0.00400						
2-Nitrophenol	<0.001	0.00200						
4-Nitrophenol	<0.002	0.00400						
Phenol	<0.001	0.00200						
2,4,6-Trichlorophenol	<0.001	0.00200						
Acenaphthene	<0.001	0.00200						
Acenaphthylene	<0.001	0.00200						
Anthracene	<0.001	0.00200						
Benzo[b]fluoranthene	<0.001	0.00200						
Benzo[g,h,i]perylene	<0.001	0.00200						
Benzo[k]fluoranthene	<0.001	0.00200						
Bis(2-chloroethoxy)methane	<0.001	0.00200						
Bis(2-chloroethyl)ether	<0.001	0.00200						
Bis(2-chloroisopropyl)ether	<0.001	0.00200						
Bis(2-ethylhexyl)phthalate	< 0.003	0.00600						
4-Bromophenyl phenyl ether	<0.001	0.00200						
Butyl benzyl phthalate	< 0.003	0.00600						
2-Chloronaphthalene	<0.001	0.00200						
4-Chlorophenyl phenyl ether	<0.001							
Dibenz[a,h]anthracene	<0.001	0.00200						
3,3´-Dichlorobenzidine	<0.001	0.00500						
Diethyl phthalate	< 0.003							
Dimethyl phthalate	< 0.003							
Di-n-butyl phthalate	<0.003							
2,4-Dinitrotoluene	<0.001							
2,6-Dinitrotoluene	<0.001							

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

Reporting Limit

Analyte detected between SDL and RL

MDL Method Detection Limit

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R RPD outside accepted control limits

Spike Recovery outside control limits

Parameter not NELAP certified

Cameron Permit

**Work Order:** 2408153

**Project:** 

### ANALYTICAL QC SUMMARY REPORT

**RunID:** GCMS9\_240820A

Sample ID: <b>MB-116798</b>	Batch ID:	116798		TestNo	E62	5.1		Units:	mg/L	
SampType: <b>MBLK</b>	Run ID:	GCMS9	_240820A	Analys	is Date: <b>8/20</b>	/2024 12:06	6:00 PM	Prep Date:	8/19/2024	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit	%RPD RPDLim	it Qua
Di-n-octyl phthalate	<(	0.00300	0.00600							
1,2-Diphenylhydrazine	<(	0.00100	0.00200							
Fluoranthene	<(	0.00100	0.00200							
Fluorene	<(	0.00100	0.00200							
Hexachlorocyclopentadiene	<(	0.00100	0.00200							
Indeno[1,2,3-cd]pyrene	<(	0.00100	0.00200							
Isophorone	<(	0.00100	0.00200							
Naphthalene	<(	0.00100	0.00200							
N-Nitrosodimethylamine	<(	0.00100	0.00200							
N-Nitrosodi-n-propylamine	<(	0.00100	0.00200							
N-Nitrosodiphenylamine	<(	0.00100	0.00200							
Pyrene	<(	0.00100	0.00200							
1,2,4-Trichlorobenzene	<(	0.00100	0.00200							
Surr: 2,4,6-Tribromophenol		116		80.00		145	10	123		S
Surr: 2-Fluorobiphenyl		94.6		80.00		118	43	116		S
Surr: 2-Fluorophenol		60.4		80.00		75.5	21	100		
Surr: 4-Terphenyl-d14		98.8		80.00		124	33	141		
Surr: Nitrobenzene-d5		109		80.00		137	35	115		S
Surr: Phenol-d5		33.2		80.00		41.5	10	94		
Sample ID: <b>2408124-01AMS</b>	Batch ID:	116798		TestNo	): <b>E62</b> 5	5.1		Units:	mg/L	
SampType: <b>MS</b>	Run ID:	GCMS9	_240820A	Analys	is Date: <b>8/20</b>	/2024 4:56:	00 PM	Prep Date:	8/19/2024	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit	%RPD RPDLim	it Qua
Benzidine	<(	0.00936	0.0375	0.375	0	0	5	125		S
Benzo[a]anthracene		0.359	0.0187	0.375	0	96.0	33	143		
Benzo[a]pyrene		0.390	0.0187	0.375	0	104	17	163		
Chrysene		0.351	0.0187	0.375	0	93.8	17	168		
2,4-Dimethylphenol		0.336	0.0187	0.375	0	89.8	32	120		
4,6-Dinitro-o-cresol		0.392	0.0375	0.375	0	105	10	181		
m,p-Cresols		0.334	0.0375	0.375	0	89.3	10	125		
o-Cresol		0.325	0.0375	0.375	0	86.6	25	125		
p-Chloro-m-Cresol		0.351	0.0375	0.375	0	93.7	22	147		
Hexachlorobenzene		0.331	0.0187	0.375	0	88.2	10	152		
		0.310	0.0187	0.375	0	82.7	24	120		
Hexachlorobutadiene			0.0187	0.375	0	86.1	40	120		
Hexachlorobutadiene Hexachloroethane		0.322	0.0107							
		0.322 0.370	0.0187	0.375	0	98.8	35	180		
Hexachloroethane					0 0	98.8 91.8	35 20	180 125		
Hexachloroethane Nitrobenzene		0.370	0.0187	0.375						
Hexachloroethane Nitrobenzene N-Nitrosodiethylamine		0.370 0.344	0.0187 0.0375	0.375 0.375	0	91.8	20	125		

Qualifiers: B Analyte detected in the associated Method Blank

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

RL Reporting Limit

J Analyte detected between SDL and RL

DF Dilution Factor

MDL Method Detection Limit

R RPD outside accepted control limits

S Spike Recovery outside control limits

N Parameter not NELAP certified

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**Work Order:** 2408153

### ANALYTICAL QC SUMMARY REPORT

Project: Cameron Permit RunID: GCMS9\_240820A

Sample ID: <b>2408124-01AMS</b>	Batch ID: 116	798	TestN	o: <b>E62</b>	5.1		Units:	mg/L	
SampType: <b>MS</b>	Run ID: GC	MS9_240820A	Analys	sis Date: <b>8/20</b>	/2024 4:56:	00 PM	Prep Date:	8/19/2024	
Analyte	Resul	t RL	SPK value	Ref Val	%REC	LowLin	nit HighLimit %	6RPD RPDLimit Qu	ıal
Phenanthrene	0.325	0.0187	0.375	0	86.9	54	120		
Pyridine	0.290	0.0187	0.375	0	77.5	10	75	5	3
1,2,4,5-Tetrachlorobenzene	0.312	0.0187	0.375	0	83.2	30	140		
2,4,5-Trichlorophenol	0.370	0.0187	0.375	0	98.7	25	125		
2-Chlorophenol	0.330	0.0187	0.375	0	88.0	23	134		
2,4-Dichlorophenol	0.352	0.0187	0.375	0	93.9	39	135		
2,4-Dinitrophenol	0.372	0.0375	0.375	0	99.4	10	191		
2-Nitrophenol	0.368	0.0187	0.375	0	98.2	29	182		
4-Nitrophenol	0.382	0.0375	0.375	0	102	10	132		
Phenol	0.325	0.0187	0.375	0	86.9	5	120		
2,4,6-Trichlorophenol	0.370	0.0187	0.375	0	98.9	37	144		
Acenaphthene	0.336	0.0187	0.375	0	89.6	47	145		
Acenaphthylene	0.316	0.0187	0.375	0	84.2	33	145		
Anthracene	0.323	0.0187	0.375	0	86.4	27	133		
Benzo[b]fluoranthene	0.398	0.0187	0.375	0	106	24	159		
Benzo[g,h,i]perylene	0.405	0.0187	0.375	0	108	10	219		
Benzo[k]fluoranthene	0.357	0.0187	0.375	0	95.2	11	162		
Bis(2-chloroethoxy)methane	0.330	0.0187	0.375	0	88.2	33	184		
Bis(2-chloroethyl)ether	1.30	0.0187	0.375	0	348	12	158	5	3
Bis(2-chloroisopropyl)ether	0.308	0.0187	0.375	0	82.4	36	166		
Bis(2-ethylhexyl)phthalate	0.445	0.0562	0.375	0	119	10	158		
4-Bromophenyl phenyl ether	0.344	0.0187	0.375	0	91.8	53	127		
Butyl benzyl phthalate	0.411	0.0562	0.375	0	110	10	152		
2-Chloronaphthalene	0.338	0.0187	0.375	0	90.2	60	120		
4-Chlorophenyl phenyl ether	0.341	0.0187	0.375	0	91.0	25	158		
Dibenz[a,h]anthracene	0.400	0.0187	0.375	0	107	10	125		
3,3´-Dichlorobenzidine	0.127	0.0468	0.375	0	34.0	10	262		
Diethyl phthalate	0.358	0.0562	0.375	0	95.7	10	120		
Dimethyl phthalate	0.350	0.0562	0.375	0	93.4	10	120		
Di-n-butyl phthalate	0.396	0.0562	0.375	0	106	10	120		
2,4-Dinitrotoluene	0.345	0.0187	0.375	0	92.0	39	139		
2,6-Dinitrotoluene	0.354	0.0187	0.375	0	94.5	50	158		
Di-n-octyl phthalate	0.422	0.0562	0.375	0	113	10	146		
1,2-Diphenylhydrazine	0.331	0.0187	0.375	0	88.5	40	140		
Fluoranthene	0.383	0.0187	0.375	0	102	26	137		
Fluorene	0.354	0.0187	0.375	0	94.4	59	121		
Hexachlorocyclopentadiene	0.369	0.0187	0.375	0	98.4	8	130		
Indeno[1,2,3-cd]pyrene	0.390	0.0187	0.375	0	104	10	171		
Isophorone	0.336	0.0187	0.375	0	89.7	21	196		
Naphthalene	0.309	0.0187	0.375	0	82.5	21	133		
N-Nitrosodimethylamine	0.319	0.0187	0.375	0	85.0	10	125		
•									

Qualifiers:

B Analyte detected in the associated Method Blank

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

RL Reporting Limit

J Analyte detected between SDL and RL

DF Dilution Factor

MDL Method Detection Limit

R RPD outside accepted control limits

S Spike Recovery outside control limits

N Parameter not NELAP certified

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Work Order: 2408153

### ANALYTICAL QC SUMMARY REPORT

**RunID:** GCMS9\_240820A **Project:** Cameron Permit

Sample ID: <b>2408124-01AMS</b>	Batch ID: 1167	98	TestNo	o: <b>E62</b>	5.1		Units:	mg/L		
SampType: MS	Run ID: GCM	S9_240820A	Analys	sis Date: <b>8/20</b>	/2024 4:56:	00 PM	Prep Date:	8/19/	2024	
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLim	nit HighLimit %	6RPD	RPDLimi	it Qual
N-Nitrosodi-n-propylamine	0.350	0.0187	0.375	0	93.4	10	230			
N-Nitrosodiphenylamine	0.346	0.0187	0.375	0	92.5	20	125			
Pyrene	0.346	0.0187	0.375	0	92.5	52	120			
1,2,4-Trichlorobenzene	0.315	0.0187	0.375	0	84.0	44	142			
Surr: 2,4,6-Tribromophenol	704		749.1		94.0	10	123			
Surr: 2-Fluorobiphenyl	612		749.1		81.8	43	116			
Surr: 2-Fluorophenol	678		749.1		90.5	21	100			
Surr: 4-Terphenyl-d14	622		749.1		83.0	33	141			
Surr: Nitrobenzene-d5	682		749.1		91.0	35	115			
Surr: Phenol-d5	596		749.1		79.5	10	94			
Sample ID: <b>2408124-01AMSD</b>	Batch ID: 11679	98	TestNo	o: <b>E62</b>	5.1		Units:	mg/L	•	
SampType: <b>MSD</b>	Run ID: GCM	S9_240820A	Analys	sis Date: <b>8/20</b>	)/2024 5:18:	00 PM	Prep Date:	8/19/	2024	
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLim	nit HighLimit %	6RPD	RPDLimi	it Qual
Benzidine	<0.0100	0.0400	0.400	0	0	5	125	0	50	S
Benzo[a]anthracene	0.382	0.0200	0.400	0	95.4	33	143	6.05	50	
Benzo[a]pyrene	0.425	0.0200	0.400	0	106	17	163	8.57	50	
Chrysene	0.382	0.0200	0.400	0	95.6	17	168	8.53	50	
2,4-Dimethylphenol	0.360	0.0200	0.400	0	90.0	32	120	6.85	50	
4,6-Dinitro-o-cresol	0.420	0.0400	0.400	0	105	10	181	6.81	50	
m,p-Cresols	0.351	0.0400	0.400	0	87.8	10	125	5.00	50	
o-Cresol	0.345	0.0400	0.400	0	86.2	25	125	6.00	50	
p-Chloro-m-Cresol	0.370	0.0400	0.400	0	92.4	22	147	5.23	50	
Hexachlorobenzene	0.365	0.0200	0.400	0	91.2	10	152	9.80	50	
Hexachlorobutadiene	0.336	0.0200	0.400	0	83.9	24	120	8.02	50	
Hexachloroethane	0.350	0.0200	0.400	0	87.4	40	120	8.13	50	
Nitrobenzene	0.400	0.0200	0.400	0	100	35	180	7.88	50	
N-Nitrosodiethylamine	0.369	0.0400	0.400	0	92.2	20	125	7.01	50	
N-Nitrosodi-n-butylamine	0.392	0.0400	0.400	0	97.9	20	125	6.88	50	
Pentachlorobenzene	0.370	0.0200	0.400	0	92.6	40	140	8.98	50	
Pentachlorophenol	0.334	0.0200	0.400	0	83.5	14	176	5.56	50	
Phenanthrene	0.354	0.0200	0.400	0	88.4	54	120	8.29	39	
Pyridine	0.315	0.0200	0.400	0	78.7	10	75	8.11	50	S
1,2,4,5-Tetrachlorobenzene	0.336	0.0200	0.400	0	84.0	30	140	7.47	50	
2,4,5-Trichlorophenol	0.392	0.0200	0.400	0	97.9	25	125	5.76	50	
2-Chlorophenol	0.352	0.0200	0.400	0	88.0	23	134	6.63	50	
2,4-Dichlorophenol	0.377	0.0200	0.400	0	94.2	39	135	6.90	50	
2,4-Dinitrophenol	0.392	0.0400	0.400	0	98.0	10	191	5.06	50	
2-Nitrophenol	0.400	0.0200	0.400	0	100	29	182	8.39	50	
4-Nitrophenol	0.403	0.0400	0.400	0	101	10	132	5.34	50	

Qualifiers:

Analyte detected in the associated Method Blank

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

Reporting Limit

Analyte detected between SDL and RL

DF Dilution Factor

MDL Method Detection Limit

R RPD outside accepted control limits

Spike Recovery outside control limits

Parameter not NELAP certified

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Cameron Permit

**Work Order:** 2408153

**Project:** 

### ANALYTICAL QC SUMMARY REPORT

**RunID:** GCMS9\_240820A

Sample ID: <b>2408124-01AMSD</b>	Batch ID:	116798		TestNo	E62	5.1		Units:	mg/l	L	
SampType: <b>MSD</b>	Run ID:	GCMS9	_240820A	Analys	is Date: <b>8/20</b>	/2024 5:18:	00 PM	Prep Date	8/19	/2024	
Analyte	F	Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit	%RPD	RPDLimit	t Qual
Phenol		0.345	0.0200	0.400	0	86.3	5	120	5.83	50	
2,4,6-Trichlorophenol		0.397	0.0200	0.400	0	99.2	37	144	6.93	50	
Acenaphthene		0.363	0.0200	0.400	0	90.8	47	145	7.85	48	
Acenaphthylene		0.342	0.0200	0.400	0	85.4	33	145	7.93	50	
Anthracene		0.355	0.0200	0.400	0	88.8	27	133	9.37	50	
Benzo[b]fluoranthene		0.423	0.0200	0.400	0	106	24	159	6.20	50	
Benzo[g,h,i]perylene		0.446	0.0200	0.400	0	112	10	219	9.71	50	
Benzo[k]fluoranthene		0.394	0.0200	0.400	0	98.4	11	162	9.82	50	
Bis(2-chloroethoxy)methane		0.361	0.0200	0.400	0	90.2	33	184	8.82	50	
Bis(2-chloroethyl)ether		1.28	0.0200	0.400	0	320	12	158	1.90	50	S
Bis(2-chloroisopropyl)ether	C	0.0300	0.0200	0.400	0	7.50	36	166	165	50	SR
Bis(2-ethylhexyl)phthalate		0.480	0.0600	0.400	0	120	10	158	7.45	50	
4-Bromophenyl phenyl ether		0.378	0.0200	0.400	0	94.4	53	127	9.36	43	
Butyl benzyl phthalate		0.438	0.0600	0.400	0	110	10	152	6.44	50	
2-Chloronaphthalene		0.365	0.0200	0.400	0	91.3	60	120	7.84	24	
4-Chlorophenyl phenyl ether		0.366	0.0200	0.400	0	91.4	25	158	7.12	50	
Dibenz[a,h]anthracene		0.438	0.0200	0.400	0	110	10	125	9.21	50	
3,3´-Dichlorobenzidine		0.161	0.0500	0.400	0	40.4	10	262	23.6	50	
Diethyl phthalate		0.384	0.0600	0.400	0	95.9	10	120	6.84	50	
Dimethyl phthalate		0.375	0.0600	0.400	0	93.8	10	120	7.00	50	
Di-n-butyl phthalate		0.428	0.0600	0.400	0	107	10	120	7.75	47	
2,4-Dinitrotoluene		0.367	0.0200	0.400	0	91.7	39	139	6.25	42	
2,6-Dinitrotoluene		0.382	0.0200	0.400	0	95.5	50	158	7.63	48	
Di-n-octyl phthalate		0.455	0.0600	0.400	0	114	10	146	7.68	50	
1,2-Diphenylhydrazine		0.362	0.0200	0.400	0	90.6	40	140	8.92	50	
Fluoranthene		0.414	0.0200	0.400	0	103	26	137	7.60	50	
Fluorene		0.381	0.0200	0.400	0	95.4	59	121	7.58	38	
Hexachlorocyclopentadiene		0.431	0.0200	0.400	0	108	8	130	15.6	50	
Indeno[1,2,3-cd]pyrene		0.429	0.0200	0.400	0	107	10	171	9.46	50	
Isophorone		0.361	0.0200	0.400	0	90.2	21	196	7.19	50	
Naphthalene		0.335	0.0200	0.400	0	83.9	21	133	8.26	50	
N-Nitrosodimethylamine		0.350	0.0200	0.400	0	87.4	10	125	9.30	50	
N-Nitrosodi-n-propylamine		0.374	0.0200	0.400	0	93.4	10	230	6.63	50	
N-Nitrosodiphenylamine		0.378	0.0200	0.400	0	94.4	20	125	8.66	50	
Pyrene		0.370	0.0200	0.400	0	92.6	52	120	6.68	49	
1,2,4-Trichlorobenzene		0.340	0.0200	0.400	0	85.0	44	142	7.70	50	
Surr: 2,4,6-Tribromophenol		762		800.0		95.2	10	123	0	0	
Surr: 2-Fluorobiphenyl		672		800.0		84.0	43	116	0	0	
Surr: 2-Fluorophenol		732		800.0		91.5	21	100	0	0	
Surr: 4-Terphenyl-d14		658		800.0		82.2	33	141	0	0	
Surr: Nitrobenzene-d5		738		800.0		92.2	35	115	0	0	

Qualifiers:

B Analyte detected in the associated Method Blank

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

RL Reporting Limit

J Analyte detected between SDL and RL

DF Dilution Factor

MDL Method Detection Limit

R RPD outside accepted control limits

S Spike Recovery outside control limits

N Parameter not NELAP certified

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**Work Order:** 2408153

ANALYTICAL QC SUMMARY REPORT

Project: Cameron Permit RunID: GCMS9\_240820A

Sample ID: <b>2408124-01AMSD</b>	Batch ID:	116798		TestNo	: <b>E</b> (	625.1		Units:	mg/	L	
SampType: <b>MSD</b>	Run ID:	GCMS9_	240820A	Analys	is Date: 8/	20/2024 5:18:	00 PM	Prep Date	: 8/19	9/2024	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimi	t HighLimit	%RPD	RPDLimit	Qual
Surr: Phenol-d5		638		800.0		79.8	10	94	0	0	

Qualifiers:

B Analyte detected in the associated Method Blank

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

RL Reporting Limit

J Analyte detected between SDL and RL

DF Dilution Factor

MDL Method Detection Limit

R RPD outside accepted control limits

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S Spike Recovery outside control limits

N Parameter not NELAP certified

Tarameter not IVEEZ (I cer

**Work Order:** 2408153

### ANALYTICAL QC SUMMARY REPORT

Project: Cameron Permit RunID: GCMS9\_240820D

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The QC data in batch 116798 a	pplies to the	following s	samples: 240	8153-01E						
Sample ID: LCS-116798-NP	Batch ID:	116798		TestNo:	D7(	065-17		Units:	mg/L	
SampType: <b>LCS</b>	Run ID:	GCMS9	_240820D	Analysis	Date: 8/2	0/2024 11:22	:00 AM	Prep Date:	8/19/2024	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	t HighLimit %	%RPD RPDLimit	Qual
Nonylphenol		0.814	0.100	1.00	0	81.4	40	140		N
Sample ID: <b>MB-116798</b>	Batch ID:	116798		TestNo:	D7(	065-17		Units:	mg/L	
SampType: MBLK	Run ID:	GCMS9	_240820D	Analysis	Date: 8/2	0/2024 12:06	:00 PM	Prep Date:	8/19/2024	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	t HighLimit %	%RPD RPDLimit	Qual
Nonylphenol		<0.0700	0.100							N

Qualifiers:

B Analyte detected in the associated Method Blank

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

RL Reporting Limit

J Analyte detected between SDL and RL

DF Dilution Factor

MDL Method Detection Limit

R RPD outside accepted control limits

S Spike Recovery outside control limits

N Parameter not NELAP certified

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**Work Order:** 2408153

### ANALYTICAL QC SUMMARY REPORT

Project: Cameron Permit RunID: GCMS5\_240812B

The QC data in batch 116680 ap	oplies to the	following	samples: 240	8153-01A					
Sample ID: LCS-116680	Batch ID:	116680	)	TestNo	: <b>E62</b>	4.1		Units:	mg/L
SampType: <b>LCS</b>	Run ID:	GCMS	5_240812B	Analys	is Date: <b>8/12</b>	/2024 11:38	3:00 AM	Prep Date:	8/12/2024
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	RPD RPDLimit Qual
Benzene		0.0251	0.00100	0.0232	0	108	65	135	
Carbon tetrachloride		0.0238	0.00100	0.0232	0	103	70	130	
Chlorobenzene		0.0233	0.00100	0.0232	0	101	35	135	
Chloroform		0.0238	0.00100	0.0232	0	102	70	135	
Chlorodibromomethane		0.0238	0.00100	0.0232	0	103	70	135	
1,2-Dibromoethane		0.0231	0.00100	0.0232	0	99.4	60	140	
1,2-Dichloroethane		0.0231	0.00100	0.0232	0	99.5	70	130	
1,1-Dichloroethene		0.0242	0.00100	0.0232	0	104	50	150	
Methyl ethyl ketone		0.128	0.0150	0.116	0	111	60	140	
Tetrachloroethene		0.0246	0.00200	0.0232	0	106	70	130	
Trichloroethene		0.0247	0.00100	0.0232	0	107	65	135	
1,1,1-Trichloroethane		0.0232	0.00100	0.0232	0	99.8	70	130	
TTHM (Total Trihalomethanes)		0.0951	0.00100	0.0928	0	102	60	140	
Vinyl chloride		0.0265	0.00100	0.0232	0	114	5	195	
Acrolein		0.0449	0.0150	0.0580	0	77.3	60	140	
Acrylonitrile		0.0512	0.00300	0.0464	0	110	60	140	
1,1,2,2-Tetrachloroethane		0.0217	0.00100	0.0232	0	93.4	60	140	
Bromoform		0.0239	0.00100	0.0232	0	103	65	135	
Chloroethane		0.0229	0.00500	0.0232	0	98.9	40	160	
2-Chloroethylvinylether		0.0170	0.0100	0.0232	0	73.1	5	225	
Bromodichloromethane		0.0236	0.00100	0.0232	0	102	65	135	
1,1-Dichloroethane		0.0257	0.00100	0.0232	0	111	70	130	
1,2-Dichloropropane		0.0270	0.00100	0.0232	0	116	35	165	
1,3-Dichloropropene (cis)		0.0243	0.00100	0.0232	0	105	25	175	
1,3-Dichloropropene (trans)		0.0239	0.00100	0.0232	0	103	50	150	
Ethylbenzene		0.0232	0.00100	0.0232	0	100	60	140	
Methyl bromide		0.0195	0.00500	0.0232	0	84.0	15	185	
Methyl chloride		0.0319	0.00500	0.0232	0	138	5	205	
Methylene chloride (DCM)		0.0246	0.00500	0.0232	0	106	60	140	
Toluene		0.0240	0.00200	0.0232	0	104	70	130	
trans-1,2-Dichloroethylene		0.0249	0.00200	0.0232	0	107	70	130	
1,1,2-Trichloroethane		0.0243	0.00200	0.0232	0	104	70	130	
1,2-Dichlorobenzene		0.0241	0.00100	0.0232	0	97.1	65	135	
1,3-Dichlorobenzene		0.0223	0.00100	0.0232	0	95.7	70	130	
1,4-Dichlorobenzene		0.0222	0.00100	0.0232	0	95.7	65	135	
Surr: 1,2-Dichloroethane-d4		183	0.00100	200.0	J	91.3	72	119	
Surr: 4-Bromofluorobenzene		185		200.0		92.4	72 76	119	
Surr: Dibromofluoromethane		196		200.0		98.1	76 85	115	
Surr: Toluene-d8		195		200.0		97.3	81		
Suit. Toluetie-do		190		∠00.0		91.3	01	120	

Qualifiers:

B Analyte detected in the associated Method Blank

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

RL Reporting Limit

J Analyte detected between SDL and RL

DF Dilution Factor

MDL Method Detection Limit

R RPD outside accepted control limits

S Spike Recovery outside control limits

N Parameter not NELAP certified

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Cameron Permit

**Work Order:** 2408153

**Project:** 

### ANALYTICAL QC SUMMARY REPORT

**RunID:** GCMS5\_240812B

Sample ID: MB-116680	Batch ID: 116680	)	TestNo	E624	4.1		Units:	mg/L
SampType: <b>MBLK</b>	Run ID: GCMS	5_240812B	Analys	is Date: <b>8/12</b>	/2024 12:30	0:00 PM	Prep Date:	8/12/2024
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	6RPD RPDLimit Qual
Benzene	<0.000300	0.00100						
Carbon tetrachloride	< 0.000300	0.00100						
Chlorobenzene	<0.000300	0.00100						
Chloroform	<0.000300	0.00100						
Chlorodibromomethane	<0.000300	0.00100						
1,2-Dibromoethane	<0.000300	0.00100						
1,2-Dichloroethane	<0.000300	0.00100						
1,1-Dichloroethene	< 0.000300	0.00100						
Methyl ethyl ketone	< 0.00500	0.0150						
Tetrachloroethene	< 0.000600	0.00200						
Trichloroethene	< 0.000600	0.00100						
1,1,1-Trichloroethane	< 0.000300	0.00100						
TTHM (Total Trihalomethanes)	< 0.000300	0.00100						
Vinyl chloride	< 0.000300	0.00100						
Acrolein	< 0.00500	0.0150						
Acrylonitrile	<0.00100	0.00300						
1,1,2,2-Tetrachloroethane	< 0.000300	0.00100						
Bromoform	< 0.000300	0.00100						
Chloroethane	< 0.00100	0.00500						
2-Chloroethylvinylether	< 0.00600	0.0100						
Bromodichloromethane	< 0.000300	0.00100						
1,1-Dichloroethane	< 0.000300	0.00100						
1,2-Dichloropropane	< 0.000300	0.00100						
1,3-Dichloropropene (cis)	< 0.000300	0.00100						
1,3-Dichloropropene (trans)	< 0.000300	0.00100						
Ethylbenzene	< 0.000300	0.00100						
Methyl bromide	< 0.00100	0.00500						
Methyl chloride	< 0.00100	0.00500						
Methylene chloride (DCM)	< 0.00250	0.00500						
Toluene	<0.000600	0.00200						
trans-1,2-Dichloroethylene	< 0.000300	0.00200						
1,1,2-Trichloroethane	< 0.000300	0.00100						
1,2-Dichlorobenzene	< 0.000300	0.00100						
1,3-Dichlorobenzene	< 0.000300	0.00100						
1,4-Dichlorobenzene	< 0.000300	0.00100						
Surr: 1,2-Dichloroethane-d4	190		200.0		94.9	72	119	
Surr: 4-Bromofluorobenzene	202		200.0		101	76	119	
Surr: Dibromofluoromethane	204		200.0		102	85	115	
Surr: Toluene-d8	209		200.0		104	81	120	

Qualifiers: B Analyte detected in the associated Method Blank

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

RL Reporting Limit

J Analyte detected between SDL and RL

DF Dilution Factor

MDL Method Detection Limit

R RPD outside accepted control limits

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S Spike Recovery outside control limits

N Parameter not NELAP certified

Cameron Permit

**Work Order:** 2408153

**Project:** 

### ANALYTICAL QC SUMMARY REPORT

**RunID:** GCMS5\_240812B

Sample ID: <b>SB-240812</b>	Batch ID: 116680		TestNo	E624	4.1		Units:	mg/L	
SampType: <b>SBLK</b>	Run ID: GCMS5	_240812B	Analys	is Date: <b>8/12</b>	/2024 5:15:	00 PM	Prep Date	e:	
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLim	nit HighLimit	%RPD RF	PDLimit Qual
Benzene	<0.000300	0.00100	0						
Carbon tetrachloride	<0.000300	0.00100	0						
Chlorobenzene	<0.000300	0.00100	0						
Chloroform	<0.000300	0.00100	0						
Chlorodibromomethane	<0.000300	0.00100	0						
1,2-Dibromoethane	<0.000300	0.00100	0						
1,2-Dichloroethane	<0.000300	0.00100	0						
1,1-Dichloroethene	<0.000300	0.00100	0						
Methyl ethyl ketone	<0.00500	0.0150	0						
Tetrachloroethene	<0.000600	0.00200	0						
Trichloroethene	<0.000600	0.00100	0						
1,1,1-Trichloroethane	<0.000300	0.00100	0						
TTHM (Total Trihalomethanes)	<0.000300	0.00100	0						
Vinyl chloride	<0.000300	0.00100	0						
Acrolein	< 0.00500	0.0150	0						
Acrylonitrile	<0.00100	0.00300	0						
1,1,2,2-Tetrachloroethane	<0.000300	0.00100	0						
Bromoform	<0.000300	0.00100	0						
Chloroethane	< 0.00100	0.00500	0						
2-Chloroethylvinylether	<0.00600	0.0100	0						
Bromodichloromethane	<0.000300	0.00100	0						
1,1-Dichloroethane	<0.000300	0.00100	0						
1,2-Dichloropropane	<0.000300	0.00100	0						
1,3-Dichloropropene (cis)	<0.000300	0.00100	0						
1,3-Dichloropropene (trans)	< 0.000300	0.00100	0						
Ethylbenzene	< 0.000300	0.00100	0						
Methyl bromide	< 0.00100	0.00500	0						
Methyl chloride	< 0.00100	0.00500	0						
Methylene chloride (DCM)	< 0.00250	0.00500	0						
Toluene	<0.000600	0.00200	0						
trans-1,2-Dichloroethylene	<0.000300	0.00200	0						
1,1,2-Trichloroethane	<0.000300	0.00100	0						
1,2-Dichlorobenzene	<0.000300	0.00100	0						
1,3-Dichlorobenzene	<0.000300	0.00100	0						
1,4-Dichlorobenzene	<0.000300	0.00100	0						
Surr: 1,2-Dichloroethane-d4	194		0						
Surr: 4-Bromofluorobenzene	205		0						
Surr: Dibromofluoromethane	206		0						
Surr: Toluene-d8	209		0						

Qualifiers: B Analyte detected in the associated Method Blank

 $J \quad \ \ Analyte \ detected \ between \ MDL \ and \ RL$ 

ND Not Detected at the Method Detection Limit

RL Reporting Limit

J Analyte detected between SDL and RL

DF Dilution Factor

MDL Method Detection Limit

R RPD outside accepted control limits

S Spike Recovery outside control limits

N Parameter not NELAP certified

ka Pacovary outside control limits

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**CLIENT:** Kasberg, Patrick & Associates, LP

**Work Order:** 2408153

### ANALYTICAL QC SUMMARY REPORT

Project: Cameron Permit RunID: GCMS5\_240812B

Sample ID: <b>2408120-05AMS</b>	Batch ID: 116680		TestN	o: <b>E624</b>	l.1		Units:	mg/L
SampType: <b>MS</b>	Run ID: GCMS5	_240812B	Analys	sis Date: <b>8/13/</b>	2024 2:42:	00 AM	Prep Date:	8/12/2024
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLim	nit HighLimit %	%RPD RPDLimit Qual
Benzene	0.0264	0.00100	0.0232	0	114	37	151	
Carbon tetrachloride	0.0254	0.00100	0.0232	0	110	70	140	
Chlorobenzene	0.0243	0.00100	0.0232	0	105	37	160	
Chloroform	0.0254	0.00100	0.0232	0	110	51	138	
Chlorodibromomethane	0.0244	0.00100	0.0232	0	105	53	149	
1,2-Dibromoethane	0.0236	0.00100	0.0232	0	102	40	160	
1,2-Dichloroethane	0.0246	0.00100	0.0232	0	106	49	155	
1,1-Dichloroethene	0.0245	0.00100	0.0232	0	105	10	234	
Methyl ethyl ketone	0.127	0.0150	0.116	0	109	40	160	
Tetrachloroethene	0.0245	0.00200	0.0232	0	105	64	148	
Trichloroethene	0.0255	0.00100	0.0232	0	110	70	157	
1,1,1-Trichloroethane	0.0244	0.00100	0.0232	0	105	52	162	
TTHM (Total Trihalomethanes)	0.0985	0.00100	0.0928	0.000963	105	40	160	
Vinyl chloride	0.0252	0.00100	0.0232	0	108	10	251	
Acrolein	0.0357	0.0150	0.0580	0	61.5	40	160	
Acrylonitrile	0.0525	0.00300	0.0464	0	113	40	160	
1,1,2,2-Tetrachloroethane	0.0245	0.00100	0.0232	0	105	46	157	
Bromoform	0.0238	0.00100	0.0232	0	102	45	169	
Chloroethane	0.0232	0.00500	0.0232	0	99.8	14	230	
2-Chloroethylvinylether	<0.00600	0.0100	0.0232	0	0	5	273	S
Bromodichloromethane	0.0249	0.00100	0.0232	0.000963	103	35	155	
1,1-Dichloroethane	0.0269	0.00100	0.0232	0	116	59	155	
1,2-Dichloropropane	0.0284	0.00100	0.0232	0	122	10	210	
1,3-Dichloropropene (cis)	0.0227	0.00100	0.0232	0	97.8	10	227	
1,3-Dichloropropene (trans)	0.0226	0.00100	0.0232	0	97.6	17	183	
Ethylbenzene	0.0237	0.00100	0.0232	0	102	37	162	
Methyl bromide	0.0167	0.00500	0.0232	0	71.9	10	242	
Methyl chloride	0.0316	0.00500	0.0232	0	136	5	273	
Methylene chloride (DCM)	0.0264	0.00500	0.0232	0	114	10	221	
Toluene	0.0256	0.00200	0.0232	0	110	47	150	
trans-1,2-Dichloroethylene	0.0246	0.00200	0.0232	0	106	54	156	
1,1,2-Trichloroethane	0.0266	0.00100	0.0232	0	115	52	150	
1,2-Dichlorobenzene	0.0240	0.00100	0.0232	0	103	18	190	
1,3-Dichlorobenzene	0.0236	0.00100	0.0232	0	102	59	156	
1,4-Dichlorobenzene	0.0234	0.00100	0.0232	0	101	18	190	
Surr: 1,2-Dichloroethane-d4	198		200.0		99.2	72	119	
Surr: 4-Bromofluorobenzene	188		200.0		94.0	76	119	
Surr: Dibromofluoromethane	202		200.0		101	85	115	
Surr: Toluene-d8	192		200.0		95.8	81	120	
					_			

Qualifiers:

B Analyte detected in the associated Method Blank

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

RL Reporting Limit

J Analyte detected between SDL and RL

DF Dilution Factor

MDL Method Detection Limit

R RPD outside accepted control limits

S Spike Recovery outside control limits

N Parameter not NELAP certified

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**CLIENT:** Kasberg, Patrick & Associates, LP

**Work Order:** 2408153

### ANALYTICAL QC SUMMARY REPORT

Project: Cameron Permit RunID: GCMS5\_240812B

Sample ID: <b>2408120-05AMSD</b>	Batch ID: 116680		TestNo	o: <b>E624</b>	1		Units:	mg/l	<u> </u>
SampType: <b>MSD</b>	Run ID: GCMS5	_240812B	Analys	sis Date: <b>8/13/</b>	2024 3:07:	00 AM	Prep Date	e: <b>8/12</b>	/2024
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimi	t HighLimit	%RPD	RPDLimit Qual
Benzene	0.0259	0.00100	0.0232	0	112	37	151	1.80	40
Carbon tetrachloride	0.0251	0.00100	0.0232	0	108	70	140	1.27	40
Chlorobenzene	0.0242	0.00100	0.0232	0	104	37	160	0.577	40
Chloroform	0.0250	0.00100	0.0232	0	108	51	138	1.59	40
Chlorodibromomethane	0.0247	0.00100	0.0232	0	107	53	149	1.19	40
1,2-Dibromoethane	0.0241	0.00100	0.0232	0	104	40	160	2.27	40
1,2-Dichloroethane	0.0243	0.00100	0.0232	0	105	49	155	1.00	40
1,1-Dichloroethene	0.0244	0.00100	0.0232	0	105	10	234	0.307	32
Methyl ethyl ketone	0.138	0.0150	0.116	0	119	40	160	8.35	40
Tetrachloroethene	0.0238	0.00200	0.0232	0	102	64	148	2.91	39
Trichloroethene	0.0248	0.00100	0.0232	0	107	70	157	2.97	40
1,1,1-Trichloroethane	0.0238	0.00100	0.0232	0	103	52	162	2.51	36
TTHM (Total Trihalomethanes)	0.0997	0.00100	0.0928	0.000963	106	40	160	1.24	40
Vinyl chloride	0.0249	0.00100	0.0232	0	107	10	251	0.910	40
Acrolein	0.0369	0.0150	0.0580	0	63.6	40	160	3.29	40
Acrylonitrile	0.0530	0.00300	0.0464	0	114	40	160	0.961	40
1,1,2,2-Tetrachloroethane	0.0255	0.00100	0.0232	0	110	46	157	4.24	40
Bromoform	0.0240	0.00100	0.0232	0	104	45	169	1.04	40
Chloroethane	0.0226	0.00500	0.0232	0	97.6	14	230	2.24	40
2-Chloroethylvinylether	<0.00600	0.0100	0.0232	0	0	5	273	0	40 S
Bromodichloromethane	0.0259	0.00100	0.0232	0.000963	108	35	155	4.28	40
1,1-Dichloroethane	0.0270	0.00100	0.0232	0	116	59	155	0.361	40
1,2-Dichloropropane	0.0275	0.00100	0.0232	0	119	10	210	3.04	40
1,3-Dichloropropene (cis)	0.0227	0.00100	0.0232	0	98.0	10	227	0.224	40
1,3-Dichloropropene (trans)	0.0233	0.00100	0.0232	0	100	17	183	2.72	40
Ethylbenzene	0.0235	0.00100	0.0232	0	101	37	162	0.877	40
Methyl bromide	0.0175	0.00500	0.0232	0	75.5	10	242	4.98	40
Methyl chloride	0.0310	0.00500	0.0232	0	134	5	273	2.00	40
Methylene chloride (DCM)	0.0253	0.00500	0.0232	0	109	10	221	4.19	28
Toluene	0.0252	0.00200	0.0232	0	109	47	150	1.43	40
trans-1,2-Dichloroethylene	0.0248	0.00200	0.0232	0	107	54	156	0.668	
1,1,2-Trichloroethane	0.0260	0.00100	0.0232	0	112	52	150	2.25	40
1,2-Dichlorobenzene	0.0247	0.00100	0.0232	0	107	18	190	3.05	40
1,3-Dichlorobenzene	0.0242	0.00100	0.0232	0	104	59	156	2.66	40
1,4-Dichlorobenzene	0.0240	0.00100	0.0232	0	103	18	190	2.42	40
Surr: 1,2-Dichloroethane-d4	187		200.0		93.7	72	119	0	0
Surr: 4-Bromofluorobenzene	194		200.0		96.8	76	119	0	0
Surr: Dibromofluoromethane	200		200.0		99.8	85	115	0	0
Surr: Toluene-d8	195		200.0		97.3	81	120	0	0
23 0.00 00	100		_00.0		57.5	٠.		Ü	~

Qualifiers:

B Analyte detected in the associated Method Blank

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

RL Reporting Limit

J Analyte detected between SDL and RL

DF Dilution Factor

MDL Method Detection Limit

R RPD outside accepted control limits

S Spike Recovery outside control limits

N Parameter not NELAP certified

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**CLIENT:** Kasberg, Patrick & Associates, LP

Work Order: 2408153

### ANALYTICAL QC SUMMARY REPORT

**RunID:** IC2 240813B **Project:** Cameron Permit

Project: Cameron	Permit					Kullii	<i>)</i> ; 1	C2_24001	SD	
The QC data in batch 116715 ap	plies to the	following s	amples: 240	)8153-01D						
Sample ID: <b>MB-116715</b>	Batch ID:	116715		TestNo	: E300	)		Units:	mg/L	
SampType: <b>MBLK</b>	Run ID:	IC2_240	813B	Analys	s Date: <b>8/13</b>	/2024 3:37:	58 PM	Prep Date:	8/13/2	024
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit <sup>9</sup>	%RPD R	PDLimit Qua
Fluoride		<0.100	0.400							
Nitrate-N		<0.100	0.500							
Sample ID: <b>LCS-116715</b>	Batch ID:	116715		TestNo	: <b>E30</b> 0	)		Units:	mg/L	
SampType: LCS	Run ID:	IC2_240	813B	Analys	s Date: <b>8/13</b>	/2024 3:55:	58 PM	Prep Date:	8/13/2	024
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit S	%RPD R	PDLimit Qua
Fluoride		4.12	0.400	4.000	0	103	90	110		
Nitrate-N		4.95	0.500	5.000	0	99.1	90	110		
Sample ID: <b>2408158-01AMS</b>	Batch ID:	116715		TestNo	: <b>E30</b> 0	)		Units:	mg/L	
SampType: <b>MS</b>	Run ID:	IC2_240	813B	Analys	s Date: <b>8/14</b>	/2024 3:08:	25 AM	Prep Date:	8/13/2	024
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit <sup>9</sup>	%RPD R	PDLimit Qua
Fluoride		201	4.00	200.0	0	100	90	110		
Nitrate-N		54.9	5.00	45.16	10.20	98.9	90	110		
Sample ID: <b>2408158-01AMSD</b>	Batch ID:	116715		TestNo	: <b>E30</b> 0	)		Units:	mg/L	
SampType: <b>MSD</b>	Run ID:	IC2_240	813B	Analys	is Date: 8/14	/2024 3:26:	25 AM	Prep Date:	8/13/2	024
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit <sup>(</sup>	%RPD R	PDLimit Qua
Fluoride		201	4.00	200.0	0	100	90	110	0.085	20
Nitrate-N		54.8	5.00	45.16	10.20	98.8	90	110	0.088	20
Sample ID: <b>2408159-01EMS</b>	Batch ID:	116715		TestNo	: <b>E30</b> 0	)		Units:	mg/L	
SampType: <b>MS</b>	Run ID:	IC2_240	813B	Analys	is Date: <b>8/14</b>	/2024 4:02:	25 AM	Prep Date:	8/13/2	024
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit <sup>9</sup>	%RPD R	PDLimit Qua
Fluoride		209	4.00	200.0	0	104	90	110		
Nitrate-N		77.2	5.00	45.16	28.20	109	90	110		
Sample ID: <b>2408159-01EMSD</b>	Batch ID:	116715		TestNo	: <b>E30</b> 0	)		Units:	mg/L	
SampType: <b>MSD</b>	Run ID:	IC2_240	813B	Analys	s Date: <b>8/14</b>	/2024 4:20:	25 AM	Prep Date:	8/13/2	024
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit <sup>9</sup>	%RPD R	PDLimit Qua
Fluoride		210	4.00	200.0	0	105	90	110	0.606	20
Nitrate-N		77.5	5.00	45.16	28.20	109	90	110	0.394	20

Qualifiers: Analyte detected in the associated Method Blank

> J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

Analyte detected between SDL and RL

DF Dilution Factor

MDL Method Detection Limit

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R RPD outside accepted control limits

Spike Recovery outside control limits

Parameter not NELAP certified

**CLIENT:** Kasberg, Patrick & Associates, LP

**Work Order:** 2408153

ANALYTICAL QC SUMMARY REPORT

Project: Cameron Permit RunID: IC2\_240813B

Sample ID: LCSD-116715	Batch ID:	116715		TestNo	: <b>E3</b> 0	00		Units:	mg/l	-
SampType: <b>LCSD</b>	Run ID:	IC2_240	813B	Analys	is Date: <b>8/1</b>	4/2024 11:30	:23 AM	Prep Date	e: <b>8/13</b>	/2024
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimi	t HighLimit	%RPD	RPDLimit Qual
Fluoride		4.21	0.400	4.000	0	105	90	110	2.02	20
Nitrate-N		4.78	0.500	5.000	0	95.6	90	110	3.57	20

Qualifiers:

B Analyte detected in the associated Method Blank

J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

RL Reporting Limit

J Analyte detected between SDL and RL

DF Dilution Factor

MDL Method Detection Limit

R RPD outside accepted control limits

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S Spike Recovery outside control limits

N Parameter not NELAP certified

**CLIENT:** Kasberg, Patrick & Associates, LP

Work Order: 2408153

### ANALYTICAL QC SUMMARY REPORT

UV/VIS\_2\_240812C **RunID: Project:** Cameron Permit

•									
The QC data in batch 116690 ap	plies to the	following sa	mples: 2408	3153-01D					
Sample ID: MB-116690	Batch ID:	116690		TestNo:	M35	00-Cr B		Units:	mg/L
SampType: <b>MBLK</b>	Run ID:	UV/VIS_2	2_240812C	Analysis	S Date: <b>8/12</b>	/2024 7:27:	00 PM	Prep Date:	8/12/2024
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	6RPD RPDLimit Qu
Hexavalent Chromium	<	:0.00300	0.00300						
Sample ID: LCS-116690	Batch ID:	116690		TestNo:	M35	00-Cr B		Units:	mg/L
SampType: <b>LCS</b>	Run ID:	UV/VIS_2	2_240812C	Analysis	s Date: <b>8/12</b>	/2024 7:29:	00 PM	Prep Date:	8/12/2024
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	6RPD RPDLimit Qu
Hexavalent Chromium		0.0961	0.00300	0.100	0	96.1	85	115	
Sample ID: LCSD-116690	Batch ID:	116690		TestNo:	M35	00-Cr B		Units:	mg/L
SampType: <b>LCSD</b>	Run ID:	UV/VIS_2	2_240812C	Analysis	s Date: <b>8/12</b>	/2024 7:30:	00 PM	Prep Date:	8/12/2024
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	6RPD RPDLimit Qu
Hexavalent Chromium		0.0963	0.00300	0.100	0	96.3	85	115	0.197 15
Sample ID: 2408153-01DMS	Batch ID:	116690		TestNo:	M35	00-Cr B		Units:	mg/L
SampType: <b>MS</b>	Run ID:	UV/VIS_2	2_240812C	Analysis	S Date: <b>8/12</b>	/2024 7:38:	00 PM	Prep Date:	8/12/2024
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	6RPD RPDLimit Qu
Hexavalent Chromium		0.0935	0.00300	0.100	0	93.5	85	115	
Sample ID: 2408153-01DMSD	Batch ID:	116690		TestNo:	M35	00-Cr B		Units:	mg/L
SampType: <b>MSD</b>	Run ID:	UV/VIS_2	2_240812C	Analysis	s Date: <b>8/12</b>	/2024 7:40:	00 PM	Prep Date:	8/12/2024
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLim	it HighLimit %	6RPD RPDLimit Qu
Hexavalent Chromium		0.0824	0.00300	0.100	0	82.4	85	115	12.7 15

Qualifiers: Analyte detected in the associated Method Blank

> J Analyte detected between MDL and RL

ND Not Detected at the Method Detection Limit

Reporting Limit

Analyte detected between SDL and RL

DF Dilution Factor

MDL Method Detection Limit

R RPD outside accepted control limits

Spike Recovery outside control limits Parameter not NELAP certified

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**CLIENT:** Kasberg, Patrick & Associates, LP

**Work Order:** 2408153

### ANALYTICAL QC SUMMARY REPORT

Project: Cameron Permit RunID: UV/VIS\_2\_240815D

Fermit					KulliL	,	0 17 115_2_	240015	, D
plies to the	e following sa	amples: 2408	3153-01C						
Batch ID:	116745		TestNo:	M45	00-CN E		Units:	mg/L	
Run ID:	UV/VIS_2	2_240815D	Analysis	s Date: <b>8/15</b>	/2024 4:09:0	00 PM	Prep Date:	8/15/20	24
	Result	RL	SPK value	Ref Val	%REC	LowLim	nit HighLimit %	RPD RF	DLimit Qual
on	<0.0100 <0.0100	0.0200 0.0200							
Batch ID:	116745		TestNo:	M45	00-CN E		Units:	mg/L	
Run ID:	UV/VIS_2	2_240815D	Analysis	s Date: <b>8/15</b>	/2024 4:09:0	00 PM	Prep Date:	8/15/20	24
	Result	RL	SPK value	Ref Val	%REC	LowLim	nit HighLimit %	RPD RF	DLimit Qual
	0.185	0.0200	0.2000	0	92.5	85	115		
Batch ID:	116745		TestNo:	M45	00-CN E		Units:	mg/L	
Run ID:	UV/VIS_2	2_240815D	Analysis	s Date: <b>8/15</b>	/2024 4:10:0	00 PM	Prep Date:	8/15/20	24
	Result	RL	SPK value	Ref Val	%REC	LowLim	nit HighLimit %	RPD RF	DLimit Qual
	0.179	0.0200	0.2000	0	89.5	79	114		
Batch ID:	116745		TestNo:	M45	00-CN E		Units:	mg/L	
Run ID:	UV/VIS_2	2_240815D	Analysis	s Date: <b>8/15</b>	/2024 4:11:0	00 PM	Prep Date:	8/15/20	24
	Result	RL	SPK value	Ref Val	%REC	LowLim	nit HighLimit %	RPD RF	DLimit Qual
	0.171	0.0200	0.2000	0	85.5	79	114	4.57	20
	Batch ID Run ID:  Batch ID Run ID:  Batch ID Run ID:	Batch ID: 116745 Run ID: UV/VIS_2  Result  ion <0.0100 <0.0100  Batch ID: 116745 Run ID: UV/VIS_2  Result  0.185  Batch ID: 116745 Run ID: UV/VIS_2  Result  0.179  Batch ID: 116745 Run ID: UV/VIS_2  Result	Batch ID: 116745 Run ID: UV/VIS_2_240815D  Result RL  ion <0.0100 0.0200 <0.0100 0.0200  Batch ID: 116745 Run ID: UV/VIS_2_240815D  Result RL  0.185 0.0200  Batch ID: 116745 Run ID: UV/VIS_2_240815D  Result RL  0.179 0.0200  Batch ID: 116745 Run ID: UV/VIS_2_240815D  Result RL  0.179 0.0200  Batch ID: 116745 Run ID: UV/VIS_2_240815D  Result RL  0.179 0.0200  Batch ID: 116745 Run ID: UV/VIS_2_240815D  Result RL  0.179 0.0200	## Page 12	### Page 14 Page 14 Page 15 Page 14 Page 15 Pa	Batch ID: 116745 TestNo: M4500-CN E Run ID: UV/VIS_2_240815D Analysis Date: 8/15/2024 4:09:0  Result RL SPK value Ref Val %REC  ion <0.0100 0.0200 <0.0100 0.0200  Batch ID: 116745 TestNo: M4500-CN E Run ID: UV/VIS_2_240815D Analysis Date: 8/15/2024 4:09:0  Result RL SPK value Ref Val %REC  0.185 0.0200 0.2000 0 92.5  Batch ID: 116745 TestNo: M4500-CN E Run ID: UV/VIS_2_240815D Analysis Date: 8/15/2024 4:10:0  Result RL SPK value Ref Val %REC  0.179 0.0200 0.2000 0 89.5  Batch ID: 116745 TestNo: M4500-CN E Run ID: UV/VIS_2_240815D Analysis Date: 8/15/2024 4:10:0  Result RL SPK value Ref Val %REC  0.179 0.0200 0.2000 0 89.5  Batch ID: 116745 TestNo: M4500-CN E Run ID: UV/VIS_2_240815D Analysis Date: 8/15/2024 4:11:0  Result RL SPK value Ref Val %REC	Batch ID: 116745 TestNo: M4500-CN E Run ID: UV/VIS_2_240815D Analysis Date: 8/15/2024 4:09:00 PM  Result RL SPK value Ref Val %REC LowLim  ion <0.0100 0.0200 <0.0100 0.0200  Batch ID: 116745 TestNo: M4500-CN E Run ID: UV/VIS_2_240815D Analysis Date: 8/15/2024 4:09:00 PM  Result RL SPK value Ref Val %REC LowLim  0.185 0.0200 0.2000 0 92.5 85  Batch ID: 116745 TestNo: M4500-CN E Run ID: UV/VIS_2_240815D Analysis Date: 8/15/2024 4:10:00 PM  Result RL SPK value Ref Val %REC LowLim  0.185 0.0200 0.2000 0 92.5 85  Batch ID: 116745 TestNo: M4500-CN E Run ID: UV/VIS_2_240815D Analysis Date: 8/15/2024 4:10:00 PM  Result RL SPK value Ref Val %REC LowLim  0.179 0.0200 0.2000 0 89.5 79  Batch ID: 116745 TestNo: M4500-CN E Run ID: UV/VIS_2_240815D Analysis Date: 8/15/2024 4:11:00 PM  Result RL SPK value Ref Val %REC LowLim  0.179 0.0200 0.2000 0 89.5 79  Batch ID: 116745 TestNo: M4500-CN E  Run ID: UV/VIS_2_240815D Analysis Date: 8/15/2024 4:11:00 PM	Batch   ID:   116745   TestNo:   M4500-CN   E   Units:	### Deplies to the following samples: 2408153-01C    Batch ID:

Qualifiers: B Analyte detected in the associated Method Blank

 $J \quad \ \ Analyte \ detected \ between \ MDL \ and \ RL$ 

ND Not Detected at the Method Detection Limit

RL Reporting Limit

J Analyte detected between SDL and RL

DF Dilution Factor

MDL Method Detection Limit

R RPD outside accepted control limits

S Spike Recovery outside control limitsN Parameter not NELAP certified

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08/28/2024 7:18

### DHL1-C

DHL Analytical - SPL John Dupont 2300 Double Creek Dr Round Rock, TX 78664

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	Control TRRP-13 Check Lists 1133729_1133870	_
1114138_SETQA_1134073_1135392	SPL Kilgore Project P:1114138 C:DHL1 Project Quality	2
	Control TRRP-13 Check Lists 1134073_1135392	_
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	1133430 1133749	

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DHL1-C

DHL Analytical - SPL John Dupont 2300 Double Creek Dr Round Rock, TX 78664 Printed 08/28/2024 7:18

This report consists of this Table of Contents and the following pages:

	Total Pages:	29
	1134073_1135392	
_ `	Control TRRP-13 Check List Error Report	1
1114138 SETQA er 1134073 1135392	SPL Kilgore Project P:1114138 C:DHL1 Project Quality	1
	1133729 1133870	
	Control TRRP-13 Check List Error Report	-
1114138_SETQA_er_1133729_1133870	SPL Kilgore Project P:1114138 C:DHL1 Project Quality	1
Report Name	<u>Description</u>	<u>Pages</u>

Email: Kilgore.ProjectManagement@spllabs.com



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### LABORATORY DATA PACKAGE COVER PAGE



WW EFFLUENT

This data package consists of:

- This signature page, the laboratory review checklist, and the following reportable data:
- ☑ R1 Field chain-of-custody documentation;
- ☑ R2 Sample identification cross-reference;
- ☑ R3 Test reports (analytical data sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC 5.13 or ISO/IEC 17025 Section 5.10
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- ☑ R4 Surrogate recovery data including: (R4 R8: See QC Report)
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- ☑ R5 Test reports/summary forms for blank samples;
- ☑ R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - c) The laboratory's LCS QC limits.
- ☑ R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- ☑ R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- 🗹 R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix; See Results Summary
- ☑ R10 Other problems or anomalies.
- ☐ The Exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By me signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.



Bill Peery (WJP)

**VP Technical Services** 

8/28/2024

Date

Name Signature Official Title

TNI

Central TX Region: 8101 Cameron Rd - Ste 305 Austin TX 78754

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### SAMPLE CROSS REFERENCE



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8/28/2024

Page 1 of 1 www effluent

DHL Analytical - SPL John Dupont 2300 Double Creek Dr Round Rock, TX 78664

Sample	Sample ID	Taken	Time	Received
2324827	EFFLUENT Low Level Mercury	08/12/2024	11:05:00	08/13/2024

Bottle 01 Glass /clean metals w/HCl

Bottle 02 Prepared Bottle: Mercury Preparation for Metals (Batch 1133729) Volume: 50.00000 mL <= Derived from 01 (47 ml)

	Method EPA 245.7 2	Bottle 02	<b>PrepSet</b> 1133729	<b>Preparation</b> 08/16/2024	<b>QcGroup</b> 1133870	Analytical 08/16/2024
Sample	Sample ID	Taken	Time		Received	
2324832	Phenol EPA 420.4	08/12/2024	11:05:00		08/13/2024	

Bottle 01 Client supplied H2SO4 Amber Glass

Bottle 02 Prepared Bottle: Phenol TRAACS Autosampler Vial (Batch 1133430) Volume: 6.00000 mL <== Derived from 01 ( 6 ml ) Bottle 03 Prepared Bottle: Phenol TRAACS Autosampler Vial (Batch 1133430) Volume: 6.00000 mL <== Derived from 01 ( 6 ml ) Bottle 04 Prepared Bottle: Phenol TRAACS Autosampler Vial (Batch 1133430) Volume: 6.00000 mL <== Derived from 01 ( 6 ml )

	Method EPA 420.4 1	Bottle 02	<b>PrepSet</b> 1133430	<b>Preparation</b> 08/15/2024	<b>QcGroup</b> 1133749	<b>Analytical</b> 08/16/2024
Sample	Sample ID	Taken	Time		Received	
2324834	615 Herbicides	08/12/2024	11:05:00		08/13/2024	

Bottle 01 Client Supplied Amber Glass

Bottle 02 Client Supplied Amber Glass

Bottle 03 Prepared Bottle: 2 mL Autosampler Vial (Batch 1134073) Volume: 10.00000 mL <== Derived from 01 ( 1000 ml )

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 615	03	1134073	08/19/2024	1135392	08/23/2024

08/28/2024

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# 3

### SAMPLE PREPARATION

DHL Analytical - SPL John Dupont 2300 Double Creek Dr Round Rock, TX 78664 *Project* 1114138

Default

		Prep Set #	1133430	08/15/2024	
Analytical Set #	113374	9 EPA 420.4 1			08/16/2024
_	Sample	Sample ID			Bottle
	2324832	Phenol EPA 420.4			02

Analytical Set # 1133870 EPA 245.7 2 08/16/2024

Sample Sample ID Bottle
2324827 EFFLUENT Low Level Mercury 02

Prep Set # 1134073 08/19/2024

Analytical Set # 1135392 EPA 615 08/23/2024

Sample Sample ID Bottle
2324834 615 Herbicides 03



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*Project* 1114138

## **HOLDING TIME COMPLIANCE**

DHL Analytical - SPL John Dupont 2300 Double Creek Dr Round Rock, TX 78664

WW EFFLUENT

<u>Name</u>	<u>Method</u>	Taken:	Received Analyzed	<u>Hold</u> <u>Elapsed</u>
	2324827	8/12/24 11:05	08/13/2024	
Mercury, Total (low level)	EPA 245.7 2		8/16/24 12:19	90.00 4.00
Low Level Mercury Liquid Met	als EPA 245.7 2		8/16/24 9:00	90.00 3.00
	2324832	8/12/24 11:05	08/13/2024	
Phenol Distillation	EPA 420.4 1		8/15/24 8:12	28.00 2.00
Phenolics, Total Recoverable	EPA 420.4 1		8/16/24 9:29	28.00 3.00
	2324834	8/12/24 11:05	08/13/2024	
Herbicides by GC	EPA 615		8/23/24 14:41	45.00 11.00
Esterification of Sample	EPA 615		8/19/24 13:00	7.00 7.00



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Project 1114138

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### DHL1-C

DHL Analytical - SPL John Dupont 2300 Double Creek Dr Round Rock, TX 78664

#### **RESULTS**

				Sample	Res	ults						
2324827	EFFLUENT Lov	w Level I	Mercury							Received:	08/13	/2024
n-Potable Water	r	Collect Taken:	08/12/2024		-				PO:			
A 245.72			Prepared:	1133729	08/1	16/2024	09:00:00	Analyzed	1133870	08/16/2024	12:19:00	MP
Parameter			Results	Un	its	RL		Flag.	S	CAS		Bottle
Mercury, Total	l (low level)		2.50	ng/	L	5.32		J		7439-97-6		02
2324832	Phenol EPA 420	.4								Received:	08/13	/2024
n-Potable Water	r	Collect Taken:	oled by: Client 08/12/2024						PO:			
A <i>420.4 1</i>			Prepared:	1133430	08/1	15/2024	08:12:56	Analyzed	1133749	08/16/2024	09:29:00	AM
Parameter			Results	Un	its	RL		Flag	S	CAS		Bottle
Phenolics, Tota	al Recoverable		0.021	mg	/L	0.005		P				02
2324834	615 Herbicides									Received:	08/13	/2024
n-Potable Water	r	Collect Taken:	08/12/2024						PO:			
4 <i>615</i>			Prepared:	1134073	08/1	19/2024	13:00:00	Analyzed	1135392	08/23/2024	14:41:00	KA
Parameter			Results	Un	its	RL		Flag.	S	CAS		Bottle
2,4 Dichloroph	enoxyacetic acid		<0.500	ug/	L	0.500				94-75-7		03
	A 245.72  Parameter  Mercury, Total  2324832  n-Potable Water  A 420.41  Parameter  Phenolics, Total  2324834  n-Potable Water  4 615  Parameter	Parameter Mercury, Total (low level)  2324832 Phenol EPA 420 Phenolical Phenolical Recoverable  2324834 615 Herbicides Phenolical Recoverable	A 245.72  Parameter Mercury, Total (low level)  2324832 Phenol EPA 420.4  1-Potable Water Collect Taken:  A 420.4 1  Parameter Phenolics, Total Recoverable  2324834 615 Herbicides 1-Potable Water Collect Taken:	A 245.72 Prepared:  Parameter Results Mercury, Total (low level) 2.50  2324832 Phenol EPA 420.4  1-Potable Water Collected by: Client Taken: 08/12/2024  A 420.41 Prepared:  Parameter Results  Phenolics, Total Recoverable 0.021  2324834 615 Herbicides 1-Potable Water Collected by: Client Taken: 08/12/2024	### A 20.4 1	### A 20.4 1	Potable Water   Collected by: Client   DHL Analytical - SPL	### A 204 1   Prepared: 113473   08/15/2024   09:00:00    ##################################	2324827   EFFLUENT Low Level Mercury	### Potable Water   Collected by:   Client   DHL Analytical - SPL   PO:		2324827   EFFLUENT Low Level Mercury   Received:   08/13

**Sample Preparation** 



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Form rptPROJRESN Created 12/19/2019v1.2

3

Office: 903-984-0551 \* Fax: 903-984-5914



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Project 1114138

#### DHL1-C

DHL Analytical - SPL John Dupont 2300 Double Creek Dr

Round Rock, TX 78664

_							I	Printed:	08/2	28/2024	
	2324827	EFFLUENT Low Leve	el Mercury						Received:	08/13/	/2024
			08/12/2024								
			Prepared:		08/28/2024	07:09:00	Analyzed		08/28/2024	07:09:00	WJP
z 	Level IV Data	a Review	Completed								
I	EPA 245.72		Prepared:	1133729	08/16/2024	09:00:00	Analyzed 1	133729	08/16/2024	09:00:00	MP1
NELAC	Low Level M	ercury Liquid Metals	50/47	m	I						01
	2324832	Phenol EPA 420.4							Received:	08/13/	/2024
			08/12/2024								
1	EPA 420.4 1		Prepared:	1133430	08/15/2024	08:12:56	Analyzed 1	133430	08/15/2024	08:12:56	MEC
NELAC	Phenol Distill	ation	6/6	m	I						01
	2324834	615 Herbicides							Received:	08/13/	/2024
			08/12/2024								
			Prepared:		08/13/2024	15:23:19	Calculated		08/13/2024	15:23:19	CAL
Z	Environmenta	al Fee (per Project)	Verified								
1	EPA 615		Prepared:	1134073	08/19/2024	13:00:00	Analyzed 1	134073	08/19/2024	13:00:00	CRS



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Form rptPROJRESN Created 12/19/2019v1.2

ml

10/1000

NELAC

**Esterification of Sample** 

01



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*Project* 1114138

DHL1-C

DHL Analytical - SPL John Dupont 2300 Double Creek Dr Round Rock, TX 78664

Printed: 08/28/2024

**2324834 615 Herbicides** *Received:* 08/13/2024

08/12/2024

EPA 615 Prepared: 1134073 08/19/2024 13:00:00 Analyzed 1135392 08/23/2024 14:41:00 KAP

NELAC Herbicides by GC Entered 03

Qualifiers:

J - Analyte detected below quantitation limit

P - Spike recovery outside control limits due to matrix effects.

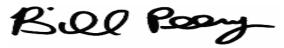
We report results on an As Received (or Wet) basis unless marked Dry Weight.

Unless otherwise noted, testing was performed at SPL, Inc.- Kilgore laboratory which holds International, Federal, and state accreditations. Please see our Websites for details.

(N)ELAC - Covered in our NELAC scope of accreditation z -- Not covered by our NELAC scope of accreditation

These analytical results relate to the sample tested. This report may NOT be reproduced EXCEPT in FULL without written approval of SPL Kilgore. Unless otherwise specified, these test results meet the requirements of NELAC.

RL is the Reporting Limit (sample specific quantitation limit) and is at or above the Method Detection Limit (MDL). CAS is Chemical Abstract Service number. RL is our Reporting Limit, or Minimum Quantitation Level. The RL takes into account the Instrument Detection Limit (IDL), Method Detection Limit (MDL), and Practical Quantitation Limit (PQL), and any dilutions and/or concentrations performed during sample preparation (EQL). Our analytical result must be above this RL before we report a value in the 'Results' column of our report (without a 'J' flag). Otherwise, we report ND (Not Detected above RL), because the result is "<" (less than) the number in the RL column. MAL is Minimum Analytical Level and is typically from regulatory agencies. Unless we report a result in the result column, or interferences prevent it, we work to have our RL at or below the MAL.



Bill Peery, MS, VP Technical Services



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### **RESULTS**

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Project

1114138

DHL1

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SDL is Sample Detection Limit and is the adjusted MDL (sample specific dilutions, dry weight)

MQLADJ is the Adjusted Method Quantitation Limit (dilutions, dry weight)

<u>CAS</u>	Param	eter		Results	MDL	SDL	MQL	MQLAdj	Flag	Units	Target	Bottle	Dilute
Non-Potable	Water		Distillations								EP	A 420.4 1	
2324832	Phenol I	EPA 420.4											
				Collection:	08/12/2	024	11:05:00	Client			Received:	08/13/2024	
P	Prepared:	1133430											
						Analyzed:		1133749	8	8/16/24	09:29:00		
	Pheno	lics, Total Recoverable		0.021	0.003	0.003	0.005	0.005	P	mg/L	0.005	02	1.00

MDL is Method Detection Limit (40 CFR 136 Appendix B)

 $\ensuremath{\mathsf{MQL}}$  is the Method Quantitation Limit and corresponds to a low standard

Qualifiers:

J - Analyte detected below quantitation limit P - Spike recovery outside control limits due to matrix effects.

We report results on an As Received (or Wet) basis unless marked Dry Weight.

Unless otherwise noted, testing was performed at SPL, Inc.- Kilgore laboratory which holds International, Federal, and state accreditations. Please see our Websites for details.

(N)ELAC - Covered in our NELAC scope of accreditation z -- Not covered by our NELAC scope of accreditation

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### **RESULTS**

#### DHL1

DHL Analytical - SPL John Dupont 2300 Double Creek Dr Round Rock, TX 78664





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### **RESULTS**

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Project

1114138

#### DHL1

Printed 08/28/2024 **WW EFFLUENT** 

SDL is Sample Detection Limit and is the adjusted MDL (sample specific dilutions, dry weight)

MQLADJ is the Adjusted Method Quantitation Limit (dilutions, dry weight)

DHL Analytical - SPL John Dupont 2300 Double Creek Dr Round Rock, TX 78664

<u>CAS</u>	Parameter		Results	MDL	SDL	MQL	MQLAdj	Flag	Units	Target	Bottle	Dilute
Non-Potable W	ater	Metals								EP	A 245.7 2	
2324827	EFFLUENT Low Level	Mercury										
			Collection:	08/12/20	024	11:05:00	Client			Received:	08/13/2024	
Prep	ared: 113372	9										
					Analyzed:		1133870	8	/16/24	12:19:00		
7439-97-6	Mercury, Total (low level	)	2.50	1.20	1.28	5.00	5.32	J	ng/L	5.00	02	1.06

MDL is Method Detection Limit (40 CFR 136 Appendix B)

MQL is the Method Quantitation Limit and corresponds to a low standard

Qualifiers:

J - Analyte detected below quantitation limit P - Spike recovery outside control limits due to matrix effects.

We report results on an As Received (or Wet) basis unless marked Dry Weight.

Unless otherwise noted, testing was performed at SPL, Inc.- Kilgore laboratory which holds International, Federal, and state accreditations. Please see our Websites for details.

(N)ELAC - Covered in our NELAC scope of accreditation z -- Not covered by our NELAC scope of accreditation

These analytical results relate to the sample tested. This report may NOT be reproduced EXCEPT in FULL without written approval of SPL Kilgore. Unless otherwise specified, these test results meet the requirements of NELAC.

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### **RESULTS**

#### DHL1

DHL Analytical - SPL John Dupont 2300 Double Creek Dr Round Rock, TX 78664





Bill Peery, MS, VP Technical Services



### **RESULTS**

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Printed 08/28/2024 **WW EFFLUENT** 

SDL is Sample Detection Limit and is the adjusted MDL (sample specific dilutions, dry weight)

MQLADJ is the Adjusted Method Quantitation Limit (dilutions, dry weight)

#### DHL1

DHL Analytical - SPL John Dupont 2300 Double Creek Dr Round Rock, TX 78664

<u>CAS</u>	Paran	eter		Results	MDL	SDL	MQL	MQLAdj	Flag	Units	Target	Bottle	Dilute
Non-Potab	le Water		Organics									EPA 615	
2324834	615 He	bicides											
				Collection:	08/12/20	024	11:05:00	Client			Received:	08/13/2024	
	Prepared:	1134073											
						Analyzed:		1135392	8/	/23/24	14:41:00		
94-75-7	2,4 D	ichlorophenoxyacetic acid		ND	0.159	0.159	0.500	0.500		ug/L	0.700	03	1.00
93-72-1	2,4,5-	TP (Silvex)		ND	0.0893	0.0893	0.300	0.300		ug/L	0.300	03	1.00

MDL is Method Detection Limit (40 CFR 136 Appendix B)

MQL is the Method Quantitation Limit and corresponds to a low standard

Qualifiers:

J - Analyte detected below quantitation limit

P - Spike recovery outside control limits due to matrix effects.

We report results on an As Received (or Wet) basis unless marked Dry Weight.

Unless otherwise noted, testing was performed at SPL, Inc. - Kilgore laboratory which holds International, Federal, and state accreditations. Please see our Websites for details.

(N)ELAC - Covered in our NELAC scope of accreditation

z -- Not covered by our NELAC scope of accreditation

These analytical results relate to the sample tested. This report may NOT be reproduced EXCEPT in FULL without written approval of SPL Kilgore. Unless otherwise specified, these test results meet the requirements of NELAC.

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### **RESULTS**

#### DHL1

DHL Analytical - SPL John Dupont 2300 Double Creek Dr Round Rock, TX 78664





Bill Peery, MS, VP Technical Services



**QC GROUPS** 98/28/2024 Page 1 of 1

Project 1114138 2

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DHL Analytical - SPL John Dupont 2300 Double Creek Dr Round Rock, TX 78664

	Test	<i>QCgroup</i>	Analyzed	
	PhDL	1,133,430	08/15/2024	
	2451	1,133,729	08/16/2024	
	ESRL	1,134,073	08/19/2024	
1545	HP 5890A - ECD5890 w/autosampler	HP		3336A57718
	!HER	1,135,392	08/23/2024	
6581	Astoria 2 Autoanalyzer	Astor	ia-Pacific	200343
	Phna	1,133,749	08/16/2024	
7472	Mercury analyzer (Low Level)	Teled	yne Leeman labs	US23192001
	*Hgl	1,133,870	08/16/2024	



Central TX Region: 8101 Cameron Rd - Ste 305 Austin TX 78754

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## **QUALITY CONTROL**



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DHL1-C

DHL Analytical - SPL John Dupont 2300 Double Creek Dr Round Rock, TX 78664 Page 1 of 3

Project

1114138

Printed 08/28/2024

Analytical Set	1133749									EPA	A 420.4 1
				ВІ	ank						
Parameter Parame	PrepSet	Reading	MDL	MQL	Units			File			
Phenolics, Total Recoverable	1133430	ND	0.003	0.005	mg/L			126666048			
				c	CV						
Parameter		Reading	Known	Units	Recover%	Limits%		File			
Phenolics, Total Recoverable		0.202	0.200	mg/L	101	90.0 - 110		126666047			
Phenolics, Total Recoverable		0.183	0.200	mg/L	91.5	90.0 - 110		126666056			
Phenolics, Total Recoverable		0.209	0.200	mg/L	104	90.0 - 110		126666062			
				Dup	licate						
Parameter	Sample		Result	Unknown	,		Unit		RPD		Limit%
Phenolics, Total Recoverable	2324832		0.019	0.021			mg/L		10.0		20.0
,					cv		J				
Parameter		Reading	Known	Units	Recover%	Limits%		File			
Phenolics, Total Recoverable		0.206	0.200	mg/L	103	90.0 - 110		126666046			
				•	5 Dup						
Daramatar	Pron Cat	LCS	LCSD		Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Parameter Phenolics, Total Recoverable	<i>PrepSet</i> 1133430	0.207	0.210		0.200	90.0 - 110	104	105	mg/L	1.44	20.0
menones, Total Recoverable	1133430	0.207	0.210	Mat		<del>90.0 -</del> 110	104	103	IIIg/L	1.44	20.0
					Spike						
<u>Parameter</u>	Sample	Spike	Unknown		Units	Recovery %		File			
Phenolics, Total Recoverable	2324832	0.177	0.021	0.200	mg/L	78.0	90.0 - 110	126666053		*	
Analytical Set	1133870									EPA	A 245.7 2
				****	" OO C						
				AWRL	/LOQ C						
<u>Parameter</u>		Reading	Known	Units	Recover%	Limits%		File			
		Reading 6.46	<i>Known</i> <b>5.00</b>			<i>Limits%</i> 70.0 - 130		File 126668565			
				Units ng/L	Recover%						
Mercury, Total (low level)	PrepSet			Units ng/L	Recover% 129						
Mercury, Total (low level)  Parameter	<i>PrepSet</i> 1133729	6.46	5.00	Units ng/L Bl	Recover% 129 ank			126668565			
Mercury, Total (low level)  Parameter		6.46  Reading	5.00 <i>MDL</i>	Units ng/L Bl MQL 5.00	Recover% 129 ank Units			126668565  File			
Mercury, Total (low level)  Parameter  Mercury, Total (low level)		6.46  Reading	5.00 <i>MDL</i>	Units ng/L Bl MQL 5.00	Recover% 129 ank Units ng/L			126668565  File			
Mercury, Total (low level)  Parameter  Mercury, Total (low level)  Parameter	1133729	6.46  Reading ND	5.00 <i>MDL</i> 1.20	Units ng/L Bl MQL 5.00	Recover% 129 ank Units ng/L			126668565 File 126668568			
Mercury, Total (low level)  Parameter  Mercury, Total (low level)  Parameter  Mercury, Total (low level)	1133729 <i>PrepSet</i>	6.46  Reading ND  Reading	5.00  MDL 1.20	Units ng/L Bl MQL 5.00 C MQL	Recover% 129 ank Units ng/L CCB Units			126668565  File 126668568  File			
Mercury, Total (low level)  Parameter  Mercury, Total (low level)  Parameter  Mercury, Total (low level)  Mercury, Total (low level)	1133729  PrepSet 1133729	6.46  Reading ND  Reading ND	5.00  MDL 1.20  MDL 1.20	Units ng/L Bl MQL 5.00 C MQL 5.00	Recover% 129 ank Units ng/L CCB Units ng/L			126668565  File 126668568  File 126668567			
Parameter Mercury, Total (low level)  Parameter Mercury, Total (low level)  Mercury, Total (low level)  Mercury, Total (low level)  Mercury, Total (low level)	PrepSet 1133729 1133729	Reading ND  Reading ND  ND  ND	5.00  MDL 1.20  MDL 1.20 1.20	Units ng/L Bl MQL 5.00 C MQL 5.00 5.00	Recover% 129 ank Units ng/L CCB Units ng/L ng/L			126668565  File 126668568  File 126668567 126668582			
Parameter Mercury, Total (low level)  Parameter Mercury, Total (low level)	PrepSet 1133729 1133729 1133729	Reading ND Reading ND ND ND 1.28	5.00  MDL 1.20  MDL 1.20 1.20 1.20	Units ng/L Bl MQL 5.00 C MQL 5.00 5.00 5.00	Recover% 129 ank Units ng/L CB Units ng/L ng/L ng/L			126668565  File 126668568  File 126668567 126668582 126668592			
Mercury, Total (low level)  Parameter  Mercury, Total (low level)  Parameter  Mercury, Total (low level)	PrepSet 1133729 1133729 1133729 1133729	Reading ND Reading ND ND ND 1.28 ND	5.00  MDL 1.20  1.20 1.20 1.20 1.20 1.20	Units ng/L BI MQL 5.00 CO MQL 5.00 5.00 5.00 5.00 5.00	Recover% 129 ank Units ng/L CB Units ng/L ng/L ng/L ng/L ng/L ng/L			126668565  File 126668568  File 126668567 126668582 126668592 126668598			
Parameter Mercury, Total (low level)  Parameter Mercury, Total (low level)	PrepSet 1133729 1133729 1133729 1133729	Reading ND Reading ND ND ND 1.28 ND	5.00  MDL 1.20  1.20 1.20 1.20 1.20 1.20	Units ng/L BI MQL 5.00 CO MQL 5.00 5.00 5.00 5.00 5.00	Recover% 129 ank Units ng/L CB Units ng/L ng/L ng/L ng/L ng/L ng/L			126668565  File 126668568  File 126668567 126668582 126668592 126668598			
Parameter Mercury, Total (low level)  Parameter Mercury, Total (low level)	PrepSet 1133729 1133729 1133729 1133729	Reading ND Reading ND ND 1.28 ND ND	5.00  MDL 1.20  1.20 1.20 1.20 1.20 1.20 1.20	Units ng/L Bl MQL 5.00 C MQL 5.00 5.00 5.00 5.00 6.00	Recover% 129 ank Units ng/L CB Units ng/L ng/L ng/L ng/L ng/L ng/L ng/L ng/L	70.0 - 130		126668565  File 126668568  File 126668567 126668582 126668592 126668598 126668604			
Parameter  Mercury, Total (low level)  Parameter  Mercury, Total (low level)  Parameter  Mercury, Total (low level)  Parameter  Mercury, Total (low level)  Mercury, Total (low level)	PrepSet 1133729 1133729 1133729 1133729	Reading ND Reading ND ND 1.28 ND ND ND Reading	5.00  MDL 1.20  1.20 1.20 1.20 1.20 1.20 1.20	Units ng/L Bl MQL 5.00 C MQL 5.00 5.00 5.00 5.00 5.00 C Units	Recover% 129 ank Units ng/L CB Units ng/L ng/L ng/L ng/L ng/L ng/L ng/L ng/L	70.0 - 130  Limits%		126668565  File 126668568  File 126668567 126668582 126668592 126668598 126668604			

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## **QUALITY CONTROL**



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*Project* 1114138

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#### DHL1-C

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								Printed	08/28/202	24	
				c	CCV						
Parameter  Mercury, Total (low level)  Mercury, Total (low level)		Reading 23.0 21.1	Known 25.0 25.0	Units ng/L ng/L	Recover% 92.0 84.4	Limits% 87.0 - 113 87.0 - 113	*	File 126668597 126668603			
<u>Parameter</u> Mercury, Total (low level)		Reading 47.8	<i>Known</i> <b>50.0</b>	Units ng/L	Recover% 95.6	<i>Limits%</i> 90.0 - 110		File 126668563			
<u>Parameter</u> Mercury, Total (low level)		Reading 24.2	Known 25.0	Units ng/L	Recover% 96.8	<i>Limits%</i> 90.0 - 110		<i>File</i> 126668564			
<u>Parameter</u> Mercury, Total (low level)	<i>PrepSet</i> 1133729	LCS 21.3	LCSD 21.3		5 Dup <i>Known</i> 25.0	<i>Limits%</i> 76.0 - 115	<i>LCS%</i> 85.2	<i>LCSD%</i> 85.2	<i>Units</i> ng/L	RPD 0	<i>Limit%</i> 50.0
Parameter  Mercury, Total (low level)  Mercury, Total (low level)	Sample 2323311 2323816	MS 20.4 13.9	MSD 23.6 13.6	<i>UNK</i> ND 1.78	Known 26.6 26.6	Limits 63.0 - 111 63.0 - 111	<i>MS%</i> 76.7 45.6 *	<i>MSD%</i> 88.7 44.4 *	Units ng/L ng/L	RPD 14.5 2.51	Limit% 18.0 18.0
Analytical Set	1135392										EPA 615
Parameter 2,4 Dichlorophenoxyacetic acid 2,4,5-TP (Silvex)	PrepSet 1134073 1134073	Reading ND 0.0962	MDL 0.159 0.0893	MQL 0.500 0.300	lank  Units  ug/L  ug/L  CCV			File 126704291 126704291			
Parameter  2,4 Dichlorophenoxyacetic acid  2,4 Dichlorophenoxyacetic acid  2,4,5-TP (Silvex)  2,4,5-TP (Silvex)		Reading 156 156 162 162	Known 150 150 150 150	Units ug/L ug/L ug/L ug/L	Recover% 104 104 108 108	Limits% 80.0 - 115 80.0 - 115 80.0 - 115 80.0 - 115		File 126704290 126704297 126704290 126704297			
				LCS	5 Dup						
Parameter 2,4 Dichlorophenoxyacetic acid 2,4,5-TP (Silvex)	PrepSet 1134073 1134073	LCS 0.444 0.541	0.538 0.671		Known 1.00 1.00	Limits% 0.100 - 319 0.100 - 244	<i>LCS%</i> 44.4 54.1	LCSD% 53.8 67.1	Units ug/L ug/L	19.1 21.5	Limit% 30.0 30.0
				Suri	rogate						
Parameter  2,4-Dichlorophenylacetic Acid  2,4-Dichlorophenylacetic Acid  2,4-Dichlorophenylacetic Acid  2,4-Dichlorophenylacetic Acid  2,4-Dichlorophenylacetic Acid  2,4-Dichlorophenylacetic Acid	1134073 1134073 1134073 2324834	CCV CCV Blank LCS LCS Dup Unknown	Reading 174 180 97.3 86.2 102 1.44	200 200 200 200 200 200 200 2.00	Units ug/L ug/L ug/L ug/L ug/L ug/L ug/L	Recover% 87.0 90.0 48.6 43.1 51.0 72.0	Limits% 0.100 - 313 0.100 - 313 0.100 - 313 0.100 - 313 0.100 - 313	File 126704290 126704297 126704291 126704292 126704293 126704294			

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## **QUALITY CONTROL**



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DHL1-C

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\* Out RPD is Relative Percent Difference:  $abs(r_1-r_2) / mean(r_1,r_2) * 100\%$ 

Recover% is Recovery Percent: result / known \* 100%

Blank - Method Blank (reagent water or other blank matrices that contains all reagents except standard(s) and is processed simultaneously with and under the same conditions as samples; carried through preparation and analytical procedures exactly like a sample; monitors); CCV - Continuing Calibration Verification used to prepare the curve; typically a mid-range concentration; verifies the continued validity of the calibration curve); ICV - Initial Calibration Verification; LCS Dup - Laboratory Control Sample Duplicate (replicate LCS; analyzed when there is insufficient sample for duplicate or MSD; quantifies accuracy and precision.); CCB - Continuing Calibration Blank; MSD - Matrix Spike Duplicate (replicate of the matrix spike; same solution and amount of target analyte added to the MS is added to a third aliquot of sample; quantifies matrix bias and precision.); AWRL/LOQ C - Ambient Water Reporting Limit/LOQ Check Std; Surrogate - Surrogate (mimics the analyte of interest but

is unlikely to be found in environmental samples; added to analytical samples for QC purposes. \*\*ANSI/ASQC E4 1994 Ref #4 TRADE QA Resources Guide.)

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#### 1114138 CoC Print Group 001 of 001

DHL Analytical, Inc.					1	CUAIL	1_NE_P	USTOI	IV BEC	ARN .	Page 1 o
2300 Double Creek Drive Round Rock, TX 78664					,	VIIAIN	I-VI-U	OOIUL	) i iiLU	THD	
TEL: (512) 388-8222	FAX:										
Work Order: 2408153 Subcontractor:						t	Date Temp:	Time	Tech		
SPL Laboratory Kilgore 2600 Dudley Rd Kilgore, TX 75662			TEL: FAX: Acct #:	(903) 984-0551			Therm#: 6	444 Corr Fa	ct: -0.7 C		12-Aug-2
								Requ	ested Tests		
Sample ID	Matrix	DHL#	Date	Collected	Bottle Type	Hg-LoLeve	PHENOL	. Herb_W		1	
eNan						E245.7	E420.4	E615			
827 Effluent	Aqueous	011	08/12	2/24 11:05 AM	500GHCL	1					
832 Effluent	Aqueous	01J	08/12	2/24 11:05 AM	250GAM-H2SO4		1	<del></del>		1	i
\$24 Effluent	Aqueous	01K	08/12	2/24 11:05 AM	500AMGU			2			į

General Comments:	Quality Control Package Need	s with a Standard Turnaround Time. ded: Standard - SEND PDF & Excel El lanalytical.com & dupont@dhlanalytica questions.	DD Please I.com		
	<i>S</i> '	Date/Time		Λζ	Date/Time
Relinquished by:		8/12/24 1700	Received by:	ביקט בי	
Relinquished by:	UPS	8/13/24 1030	Received by:	Andy Owens - SPL, Inc.	Coll 8/13/14/1032

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#### 1114138 CoC Print Group 001 of 001

#### SEL List for E615

Rpt	T	. Analyte	Synonym	MDL	PQL
~	Α	2, <b>4-</b> D		0.01	0.3
7	A	2,4,5-TP (Silvex)		0.01	0.3

- 0 8 4 5 9 N 8 0



Project Review	t Nai		LRC Date: 08/28/2024	1114120				
Review			Laboratory Job (Project) Number:	1114120				
# 1	wer		Project Name: Default Laboratory Job (Project) Number: 1114					
		Name: Bill Peery (WJP)	PrepSet: 1133430 QCgroup: 11337	49				
R01 (	A	Description				NA	NR	ER#
	OI	OI Chain-of-Custody (C-O-C)						
	- 1	Did samples meet the laboratory's standard conditions of sample acceptability	y upon receipt?				X	1
1 1		Were all departures from standard conditions described in the exception repo	rt?	X				
R02 (	OI	Sample and Quality Control (QC) Identification						
	ı	Are all field sample ID numbers cross referenced to the laboratory ID number	rs?	X				
	ı	Are all laboratory ID numbers cross-referenced to the corresponding QC data	a?	X				
R03 (	OI	Test Reports						
	ı	Were all samples prepared and analyzed within holding times?		X				
	ı	Other than those results < MQL, were all other raw values bracketed by calib	oration standards?	X				
	ŀ	Were calculations checked by a peer or supervisor?		X				
	ŀ	Were all analyte identifications checked by a peer or supervisor?		X				
	ı	Were sample quantitation limits reported for all analytes not detected?		X				
	ŀ	Were all results for soil and sediment samples reported on a dry weight basis	?			X		
	ŀ	Were % moisture (or solids) reported for all soil and sediment samples?				X		
	ŀ	If required for the project, tentatively identified compounds reported?				X		
R04 (	0	Surrogate Recovery Data						
	H	Were surrogates added prior to extraction?			П	X		
	ŀ	Were surrogate percent recoveries in all samples within the laboratory QC lir	mits?	_		X		
R05 (	OI	Test Reports/Summary Forms for Blank Samples						
	H	Were appropriate type(s) of blanks analyzed?		X				
	ŀ	Were blanks analyzed at the appropriate frequency?						
	ŀ	Were blank concentrations < MQL?						
	H	Were method blanks taken through the entire analytical process, including pr	reparation and, if applicable, cleanup	X				
		procedures?	7 11 7 1	X				
R06 (	OI	Laboratory Control Samples (LCS)						
		Were all chemicals of concern included in the LCS?				X		
		Was each LCS taken though the entire analytical procedure, including prep a	nd cleanup steps?			X		
		Were LCSs analyzed at the required frequency?				X		
		Were LCS (and LCS duplicate, if applicable) %Rs within the laboratory QC		X				
		Does the detectability data document the laboratory's capability to detect the	chemicals of concern at the MDL used to	X				
	-	calculate the SQLs? Was the LCS duplicate relative percent difference within QC limits?		X				
R07	+	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) data						
["]	- }	Were the project/method specified analytes included in the MS and MSD?		X				
	-	Were MS/MSD analyzed at the appropriate frequency?		X			-	
	-	Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		-	2
	-	Were MS/MSD RPDs within laboratory QC limits?		+		X		
R08 (	OI	Analytical Duplicate Data						
[ ]		Were appropriate analytical duplicates analyzed for each matrix?		X				
	- }	Were analytical duplicates analyzed at the appropriate frequency?		X			_	
	-	Were RPDs or relative standard deviations within the laboratory QC limits?		X			-	
R09 (	OI			- 11				
(	~	Method Quantitation Limits (MQLs)  Are the MQLs for each method analyte included in the laboratory data package?  X						
	-	Do the MQLs correspond to the concentration of the lowest non-zero calibrate		X	-			
	-	Are unadjusted MQLs included in the laboratory data package?	non standard:	X	-			
D10 /	OT	Other Problems/Anomalies		Λ				
R10 (	OI	Are all known problems/anomalies/special condition noted in this LRC and E	ZD9	X				
	-	• • • • • • • • • • • • • • • • • • • •	2K;		<b>—</b>			
	-	Were all necessary corrective actions preformed for the reported data?  Was applicable and available technology used to lower the SQL and minimiz	ze the metric interference offers on the country	X				
		results?	the manny interference effects on the sample	X				

App	Appendix A: Laboratory Review Checklist: Reportable Data							
Lab	Laboratory Name: SPL Kilgore LRC Date: 08/28/2024							$\neg$
Proj	Project Name: Default Laboratory Job (Project) Number: 1114138							
Rev	Reviewer Name: Bill Peery (WJP) PrepSet: 1133430 QCgroup: 1133749							
#	A	Description Yes No NA NR ER#						ER#
S01	OI	Initial Calibration (ICAL)						
		Were response factors and/or relative response factors for each analyte within	n QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?		X				
		Was the number of standards recommended in the method used for all analyst	tes?	X				
		Were all points generated between the lowest and highest standard used to ca	alculate the curve?	X				
		Are ICAL data available for all instruments used?		X				
		Has the initial calibration curve been verified using an appropriate second so	urce standard?	X				
S02	OI	Initial and Continuing Calibration Verification (ICCV and CCV) and Contin	uing Calibration					
		Was the CCV analyzed at the method-required frequency?		X				
		Were percent differences for each analyte within the method-required QC lir	nits?	X				$\neg$
		Was the ICAL curve verified for each analyte?		X				$\neg$
		Was the absolute value of the analyte concentration in the inorganic CCB < 1	MQL?			X		$\neg$
S03	0	Mass Spectral Tuning						
		Was the appropriate compound for the method used for tuning?				X		
		Were ion abundance data within the method-required QC limits?				X		
S04	0	Internal Standards (IS)						
		Were IS area counts and retention times within the method-required QC limit	ts?			X		
S05	OI	Raw Data (NELAC section 1 appendix A glossary, and section 5.12 or ISO/	IEC 17025 section)					
İ		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?						
		Were data associated with manual integrations flagged on the raw data?		X				
S06	0	Dual Column Confirmation						
		Did dual column confirmation results meet the method-required QC?				X		
S07	0	Tentatively Identified Compounds (TICs)						
		If TICs were requested, were the mass spectra and TIC data subject to appropriate the spectra and TIC data subject to approximate the spectra and the spectra	priate checks?			X		
S08	I	Interference Check Sample (ICS) Results						
		Were precent recoveries within method QC limits?				X		
S09	I	Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions						
		Were percent differences, recoveries, and the linearity within the QC limits s	specified in the method?			X		
210	OT	Mathed Detection Limit (MDL) Studies				Λ		
S10	OI	Method Detection Limit (MDL) Studies		V				
		Was a MDL study performed for each reported analyte?  Is the MDL either adjusted or suppported by the analysis of detectability che	al. aanumlaa9	X				
011	OT	111 1	ck samples?	Λ				
S11	OI	Proficiency Test Reports  Was the laboratory's performance acceptable on the applicable proficiency to	acts or avaluation studies?					
		Was the laboratory's performance acceptable on the applicable proficiency to	ests of evaluation studies?	X				
S12	OI	Standards Documentation						
		Are all standards used in the analyses NIST-traceable or obtained from other apropriate sources?						
S13	Ю	Compound/Analyte Identification Procedures						
		Are the procedures for compound/analyte identification documented?		X				
S14	OI	Demonstration of Analyst Compentency (DOC)						
		Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC Section	on 4?	X				
1		Is documentation of the analyst's competency up-to-date and on file?		X			$\vdash$	
S15	OI	Verification/Validation Documentation Methods (NELAC Chapter 5 or ISO	/IEC Section 5)					
		Are all the methods used to generate the data documented, verified and valid		X				
S16								
		Are laboratory SOPs current and on file for each method performed?		X				
		1						

- 1. Items identified by the letter "R" must be included on the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention
- 2. O = organic analyses; I = ionorganic analyses (and general chemistry, when applicable);
- 3. N/A = Not applicable;
- 4. NR = Not reviewed
- 5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

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App	endiz	A: Laboratory Review Ch	ecklist: Reportable Data					
Laboratory Name: SPL Kilgore LRC Date: 08/28/2024								
Proj	Project Name: Default Laboratory Job (Project) Number: 1114							
Rev	iewer	Name: Bill Peery (WJP)	PrepSet: 1133729 QCgroup: 1133870					
#	Α	Description				NA	NR	ER#
R01	OI	Chain-of-Custody (C-O-C)						
	Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?						X	1
		Were all departures from standard conditions described in the exception repo	rt?	X				
R02	OI	Sample and Quality Control (QC) Identification						
		Are all field sample ID numbers cross referenced to the laboratory ID number	rs?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data	n?	X				
R03	OI	Test Reports						
		Were all samples prepared and analyzed within holding times?		X				
		Other than those results < MQL, were all other raw values bracketed by calib	oration standards?	X				
		Were calculations checked by a peer or supervisor?		X				
		Were all analyte identifications checked by a peer or supervisor?		X				
		Were sample quantitation limits reported for all analytes not detected?		X				
		Were all results for soil and sediment samples reported on a dry weight basis	?			X		
		Were % moisture (or solids) reported for all soil and sediment samples?				X		
		If required for the project, tentatively identified compounds reported?				X		
R04	0	Surrogate Recovery Data						
		Were surrogates added prior to extraction?				X		
		Were surrogate percent recoveries in all samples within the laboratory QC lin	nits?			X		
R05	OI	Test Reports/Summary Forms for Blank Samples						
		Were appropriate type(s) of blanks analyzed?		X				
		Were blanks analyzed at the appropriate frequency?		X				
		Were blank concentrations < MQL?		X				
		Were method blanks taken through the entire analytical process, including pr	reparation and, if applicable, cleanup	W				
006	OT	procedures?		X				
R06	OI	Laboratory Control Samples (LCS)				N/		
		Were all chemicals of concern included in the LCS?				X		
		Was each LCS taken though the entire analytical procedure, including prep a	nd cleanup steps?			X		
		Were LCSs analyzed at the required frequency?  Were LCS (and LCS duplicate, if applicable) %Rs within the laboratory QC	Limite 9	V		X		
		Does the detectability data document the laboratory's capability to detect the		X				
		calculate the SOLs?	chemicals of concern at the MDL used to	X				
		Was the LCS duplicate relative percent difference within QC limits?		X				
R07		Matrix Spike (MS) and Matrix Spike Duplicate (MSD) data						
		Were the project/method specified analytes included in the MS and MSD?				X		
		Were MS/MSD analyzed at the appropriate frequency?				X		
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X			2
		Were MS/MSD RPDs within laboratory QC limits?		X				
R08	OI	Analytical Duplicate Data						
		Were appropriate analytical duplicates analyzed for each matrix?				X		
		Were analytical duplicates analyzed at the appropriate frequency?				X		
		Were RPDs or relative standard deviations within the laboratory QC limits?				X		
R09	OI	Method Quantitation Limits (MQLs)						
		Are the MQLs for each method analyte included in the laboratory data packa	ge?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibrate	tion standard?	X				
		Are unadjusted MQLs included in the laboratory data package?		X				
R10	OI	Other Problems/Anomalies						
		Are all known problems/anomalies/special condition noted in this LRC and I	ER?	X				
		Were all necessary corrective actions preformed for the reported data?		X				
		Was applicable and available technology used to lower the SQL and minimiz	ze the matrix interference effects on the sample	Х				
		results?		Λ				

App	Appendix A: Laboratory Review Checklist: Reportable Data							
Lab	Laboratory Name: SPL Kilgore LRC Date: 08/28/2024							$\neg$
Proj	Project Name: Default Laboratory Job (Project) Number: 1114138							
Rev	Reviewer Name: Bill Peery (WJP) PrepSet: 1133729 QCgroup: 1133870							
#	A	Description		Yes	No	NA	NR	ER#
S01	OI	Initial Calibration (ICAL)						
		Were response factors and/or relative response factors for each analyte within	n QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?		X				
		Was the number of standards recommended in the method used for all analyst	tes?	X				
		Were all points generated between the lowest and highest standard used to ca	alculate the curve?	X				
		Are ICAL data available for all instruments used?		X				
		Has the initial calibration curve been verified using an appropriate second so	ource standard?	X				
S02	OI	Initial and Continuing Calibration Verification (ICCV and CCV) and Contin	uing Calibration					
		Was the CCV analyzed at the method-required frequency?		X				
		Were percent differences for each analyte within the method-required QC lir	mits?		X			3
		Was the ICAL curve verified for each analyte?		X				
		Was the absolute value of the analyte concentration in the inorganic CCB < 1	MQL?	X				
S03	0	Mass Spectral Tuning						
		Was the appropriate compound for the method used for tuning?				X		
		Were ion abundance data within the method-required QC limits?				X		
S04	0	Internal Standards (IS)						
		Were IS area counts and retention times within the method-required QC limit	its?			X		
S05	OI	Raw Data (NELAC section 1 appendix A glossary, and section 5.12 or ISO/	IEC 17025 section)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by	an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?		X				
S06	0	Dual Column Confirmation						
		Did dual column confirmation results meet the method-required QC?				X		
S07	0	Tentatively Identified Compounds (TICs)						
		If TICs were requested, were the mass spectra and TIC data subject to appropriate the mass spectra and TIC data subject to appropriate the mass spectra and TIC data subject to appropriate the mass spectra and TIC data subject to appropriate the mass spectra and TIC data subject to appropriate the mass spectra and TIC data subject to appropriate the mass spectra and TIC data subject to appropriate the mass spectra and TIC data subject to appropriate the mass spectra and TIC data subject to appropriate the mass spectra and TIC data subject to appropriate the mass spectra and TIC data subject to appropriate the mass spectra and TIC data subject to appropriate the mass spectra and TIC data subject to appropriate the mass spectra and TIC data subject to appropriate the mass spectra and TIC data subject to appropriate the mass spectra and TIC data subject to appropriate the mass spectra and TIC data subject to approximate the mass spectra and TIC data subject to approximate the mass spectra and TIC data subject to approximate the mass spectra and TIC data subject to approximate the mass spectra and the mass spe	priate checks?			X		
S08	I	Interference Check Sample (ICS) Results						
		Were precent recoveries within method QC limits?		X				
S09	I	Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions						
		Were percent differences, recoveries, and the linearity within the QC limits s	specified in the method?			Х		
S10	OT	Method Detection Limit (MDL) Studies				Λ		
510	OI	Was a MDL study performed for each reported analyte?		X				
		Is the MDL either adjusted or suppported by the analysis of detectability che	ok comples?	X				
S11	OI	Proficiency Test Reports	ck samples:	Λ				
511		Was the laboratory's performance acceptable on the applicable proficiency to	acte or avaluation etudiae?		Г			
		was the laboratory's performance acceptable on the applicable proficiency is	ests of evaluation studies:	X				
S12	OI	Standards Documentation						
		Are all standards used in the analyses NIST-traceable or obtained from other apropriate sources?					$\neg$	
S13	Ю	Compound/Analyte Identification Procedures						
		Are the procedures for compound/analyte identification documented?		X				
S14	OI	Demonstration of Analyst Compentency (DOC)						
1		Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC Section	on 4?	X				
		Is documentation of the analyst's competency up-to-date and on file?		X				$\overline{}$
S15	OI	Verification/Validation Documentation Methods (NELAC Chapter 5 or ISO	/IEC Section 5)					
		Are all the methods used to generate the data documented, verified and valid	ated, where applicable?	X				
S16	OI	Laboratory Standard Operating Procedures (SOPs)						
		Are laboratory SOPs current and on file for each method performed?		X				
		<u> </u>						

- 1. Items identified by the letter "R" must be included on the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention
- 2. O = organic analyses; I = ionorganic analyses (and general chemistry, when applicable);
- 3. N/A = Not applicable;
- 4. NR = Not reviewed
- $5. \ \ ER\# = Exception \ Report \ identification \ number \ (an \ Exception \ Report \ should \ be \ completed \ for \ an \ item \ if \ "NR" \ or \ "No" \ is \ checked).$

Report Page 26 of 31

Project Name: Default   Laboratory Job (Project) Number: 1114138		rtable Data						
Reviewer Name: Bill Peery (WIP)   PrepSiet 1134073 QC group: 1184392   Yes   No   7	Laboratory Name: SPL Kilgore LRC Date: 08/28/2024							
RO   O   Chain-of-Cuastody (C-O-C)								
Octamin-of-Coatroly (CO-CC)   Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?		.34073 QCgroup: 1135392	2					
Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?  Were all departures from standard conditions described in the exception report?  X   X   X   X   X   X   X   X   X   X	*				No.	NA	NR	ER#
Were all departures from sanafard conditions described in the exception report?   X								
Sample and Quality Control (QC) Identification   Are all Tield sample ID numbers cross-referenced to the laboratory ID numbers?   X				$\Box$			X	1
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Are unadjusted MQLs included in the laboratory data package?  R10 OI Other Problems/Anomalies				$\perp$				
R10 OI Other Problems/Anomalies				$\perp$				
	ito		X	$\perp$				
Are all known problems/anomalies/special condition noted in this LRC and ER?								
				上				
Were all necessary corrective actions preformed for the reported data?			X	丄				
Was applicable and available technology used to lower the SQL and minimize the matrix interference effects on the sample results?	ed	erference effects on the sample	X					

App	Appendix A: Laboratory Review Checklist: Reportable Data							
Lab	Laboratory Name: SPL Kilgore LRC Date: 08/28/2024							
Proj	Project Name: Default Laboratory Job (Project) Number: 1114138							
Rev	Reviewer Name: Bill Peery (WJP) PrepSet: 1134073 QCgroup: 1135392							
#	A	Description		Yes	No	NA	NR	ER#
S01	OI	Initial Calibration (ICAL)						
		Were response factors and/or relative response factors for each analyte within	n QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?		X				
		Was the number of standards recommended in the method used for all analyst	tes?	X				
		Were all points generated between the lowest and highest standard used to ca	alculate the curve?	X				
		Are ICAL data available for all instruments used?		X				
		Has the initial calibration curve been verified using an appropriate second so	urce standard?	X				
S02	OI	Initial and Continuing Calibration Verification (ICCV and CCV) and Contin	uing Calibration					
		Was the CCV analyzed at the method-required frequency?		X				
		Were percent differences for each analyte within the method-required QC lir	nits?	X				
		Was the ICAL curve verified for each analyte?		X				
		Was the absolute value of the analyte concentration in the inorganic CCB < 1	MQL?			X		
S03	0	Mass Spectral Tuning						
		Was the appropriate compound for the method used for tuning?				X		
		Were ion abundance data within the method-required QC limits?				X		
S04	0	Internal Standards (IS)						
		Were IS area counts and retention times within the method-required QC limit	ts?			X		
S05	OI	Raw Data (NELAC section 1 appendix A glossary, and section 5.12 or ISO/	IEC 17025 section)					
İ		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?						
		Were data associated with manual integrations flagged on the raw data?		X				
S06	0	Dual Column Confirmation						
		Did dual column confirmation results meet the method-required QC?						
S07	0	Tentatively Identified Compounds (TICs)						
		If TICs were requested, were the mass spectra and TIC data subject to appropriate the spectra and TIC data subject to appropriate the spectra and TIC data subject to appropriate the spectra and TIC data subject to appropriate the spectra and TIC data subject to appropriate the spectra and TIC data subject to appropriate the spectra and TIC data subject to appropriate the spectra and TIC data subject to appropriate the spectra and TIC data subject to appropriate the spectra and TIC data subject to appropriate the spectra and TIC data subject to appropriate the spectra and TIC data subject to appropriate the spectra and TIC data subject to appropriate the spectra and TIC data subject to appropriate the spectra and TIC data subject to appropriate the spectra and TIC data subject to appropriate the spectra and the spectra	priate checks?			X		
S08	I	Interference Check Sample (ICS) Results						
		Were precent recoveries within method QC limits?				X		
S09	I	Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions						
		Were percent differences, recoveries, and the linearity within the QC limits s	specified in the method?			X		
210	OT	Mathed Detection Limit (MDL) Studies				Λ		
S10	OI	Method Detection Limit (MDL) Studies		V				
		Was a MDL study performed for each reported analyte?  Is the MDL either adjusted or suppported by the analysis of detectability che	ale complete	X			$\square$	
011	OT	111 1	ck samples?	Λ				
S11	OI	Proficiency Test Reports  Was the laboratory's performance acceptable on the applicable proficiency to	ests or evaluation studies?					
		was the faooratory's performance acceptable of the applicable proficiency to	ests of evaluation studies?	X				
S12	OI	Standards Documentation						
		Are all standards used in the analyses NIST-traceable or obtained from other apropriate sources?						
S13	Ю	Compound/Analyte Identification Procedures						
		Are the procedures for compound/analyte identification documented?		X				
S14	OI	Demonstration of Analyst Compentency (DOC)						
		Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC Section	on 4?	X				
		Is documentation of the analyst's competency up-to-date and on file?		X			$\square$	$\neg \neg$
S15	OI	Verification/Validation Documentation Methods (NELAC Chapter 5 or ISO	/IEC Section 5)					
		Are all the methods used to generate the data documented, verified and valid	ated, where applicable?	X				
S16	OI	Laboratory Standard Operating Procedures (SOPs)						
		Are laboratory SOPs current and on file for each method performed?		X				

- 1. Items identified by the letter "R" must be included on the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention
- 2. O = organic analyses; I = ionorganic analyses (and general chemistry, when applicable);
- 3. N/A = Not applicable;
- 4. NR = Not reviewed
- $5. \ \ ER\# = Exception \ Report \ identification \ number \ (an \ Exception \ Report \ should \ be \ completed \ for \ an \ item \ if \ "NR" \ or \ "No" \ is \ checked).$

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Appendi	Appendix A: (cont'd): Laboratory Review Checklist: Exception Reports					
Laboratory	y Name: SPL Kilgore	LRC Date: 08/28/2024				
Project Na	Project Name: Default Laboratory Job (Project) Number: 1114138					
Reviewer	Reviewer Name: Bill Peery (WJP) PrepSet: 1133430 QCgroup: 1133749					
ER#	Description					
1	Bottles were reviewed at login. Please see the chain of custod	y record for sample receipt details.				
2	The following MS/MSD constituents have recoveries outside of laboratory QC limits: (MS) Phenolics, Total					
	Recoverable					

<sup>1</sup> ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Appendi	Appendix A: (cont'd): Laboratory Review Checklist: Exception Reports					
Laboratory	Name: SPL Kilgore	LRC Date: 08/28/2024				
Project Na	me: Default	Laboratory Job (Project) Number: 1114138				
Reviewer	Name: Bill Peery (WJP)	PrepSet: 1133729 QCgroup: 1133870				
ER#	Description					
1	Bottles were reviewed at login. Please see the chain of custod	y record for sample receipt details.				
2	The following MS/MSD constituents have recoveries outside of laboratory QC limits: (MSD) Mercury, Total (low					
	level)					
3	The following CCV constituents have recoveries outside of laboratory QC limits: Mercury, Total (low level)					

<sup>1</sup> ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Appendix	Appendix A: (cont'd): Laboratory Review Checklist: Exception Reports						
Laboratory	Name: SPL Kilgore	LRC Date: 08/28/2024					
Project Na	Project Name: Default Laboratory Job (Project) Number: 1114138						
Reviewer	Name: Bill Peery (WJP)	PrepSet: 1134073 QCgroup: 1135392					
ER#	R# Description						
1	Bottles were reviewed at login. Please see the chain of custody record for sample receipt details.						

<sup>1</sup> ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

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