

February 13, 2024

Weslaco City Hall Office of Public Works 255 South Kansas Avenue, Weslaco, TX 78596

Re: City of Weslaco – Wastewater Renewal Application, Draft Permit, and Facts Sheet for Permit No. WQ0010619003

Dear Lucy,

RSB has contacted Weslaco City Hall on February 13, 2024, regarding placing the document in this package for 40 days open for public comments and review.

We would appreciate your assistance in doing so.

If you have any questions or comments, please do not hesitate to contact us at (832) 291-3473.

Thank you,

Hani Said

Environmental Scientist
RSB Environmental
Corporate Office: 6001 Savoy Dr., Ste. 110

Houston, Texas 77036 Office: 832.291.3473

RECEIVED FEB 2 2 2024

DY:

WASTEWATER PERMIT RENEWAL APPLICATION, DRAFT PERMIT, AND TECHNICAL SUMMARY

TO THE

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

FOR

City of Weslaco

WQ0010919003

August 2023

Prepared for: City of Weslaco 255 S Kansas Avenue Weslaco, TX 78596 Phone: (956) 968-3181

Prepared By:



6001 Savoy Drive, Suite # 110 Houston, Texas 77036 Phone: (830) 291-3473 www.rsbenv.com

TCFO

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT: CITY OF Westac	PLICANT: <u>City of Wesl</u>	acc
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PERMIT NUMBER: <u>WQ0010619003</u>

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

	Y	N		Y	N
Administrative Report 1.0	\boxtimes	THE STATE OF THE S	Original USGS Map	\boxtimes	
Administrative Report 1.1	\boxtimes		Affected Landowners Map		×
SPIF	\boxtimes		Landowner Disk or Labels		\boxtimes
Core Data Form			Buffer Zone Map		\boxtimes
Public Involvement Plan Form			Flow Diagram	\boxtimes	
Technical Report 1.0	\boxtimes		Site Drawing	\boxtimes	
Technical Report 1.1	\boxtimes	20110 5 E3 Screen	Original Photographs	\boxtimes	
Worksheet 2.0	\boxtimes	\$2,865 Edition 1	Design Calculations	E STATE OF THE STA	\boxtimes
Worksheet 2.1	\boxtimes		Solids Management Plan		×
Worksheet 3.0		\boxtimes	Water Balance	\boxtimes	\boxtimes
Worksheet 3.1		\boxtimes			
Worksheet 3.2		\boxtimes			
Worksheet 3.3					
Worksheet 4.0	\boxtimes				
Worksheet 5.0	\boxtimes				
Worksheet 6.0	\boxtimes				
Worksheet 7.0					
For TCEQ Use Only					
Segment Number Expiration Date Permit Number			County Region		



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

APPLICATION FOR A DOMESTIC WASTEWATER PERMIT ADMINISTRATIVE REPORT 1.0

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

Section 1. Application Fees (Instructions Page 29)

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

Indicate	the amou	nt submitted f	or the applicati	ion fe	ee (check only one).
Flow			New/Major Am	ıendı	ment Renewal
<0.05 1	MGD		\$350.00 □		\$315.00 □
≥0.05 but <0.10 MGD			\$550.00 □		\$515.00 🗆
	out <0.25 M		\$850.00 □		\$815.00 □
	out <0.50 M		\$1,250.00 □		\$1,215.00 □
	out <1.0 MG		\$1,650.00 □		\$1,615.00
≥1.0 M	GD		\$2,050.00 □		\$2,015.00
Minor A	mendment	(for any flow)	\$150.00 □		
Paymer	ıt Informati	ion:			
N	ſailed	Check/Money	Order Number	:	
		Check/Money	Order Amount		
		Name Printed			
Т	D 4 37				
E	PAY	Voucher Num	iber:		
C	Copy of Payr	ment Voucher	enclosed?		Yes □
Sectio	n 2. Type	e of Applica	ation (Instru	ıctic	ons Page 29)
□ Nev	v TPDES				New TLAP
□ Maj	or Amendn	nent <u>with</u> Rene	wal		Minor Amendment with Renewal
□ Maj	or Amendn	nent <u>without</u> R	enewal		Minor Amendment without Renewal
⊠ Rei	newal witho	ut changes			Minor Modification of permit
For ame	ndments or	r modifications	s, describe the p	oropo	osed changes:
For exis	sting permi	ts:			
Permit l	Number: WO	Q00 <u>001061900</u>	<u>3</u>		
			_		



EPA I.D. (TPDES only): TX<u>0052787</u>

Expiration Date: <u>11/06/2023</u>

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

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

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

City of Weslaco

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

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

CN: 600520969

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

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

First and Last Name: David Suarez

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

Title: Mayor

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

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

N/A

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

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

CN:

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

Prefix (Mr., Ms., Miss):

First and Last Name:

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

Title:

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

C. Core Data Form

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

Attachment: A

Section 4. Application Contact Information (Instructions Page 30)

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

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

First and Last Name: Hani Said

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

Title: Environmental Scientist

Organization Name: <u>RSB Environmental</u>
Mailing Address: <u>6001 Savoy Dr. #110</u>
City, State, Zip Code: Houston, TX 77036

Phone No.: 832-291-3473 Ext.: Fax No.:

E-mail Address: hani@rsbenv.com

Check one or both: Administrative Contact Technical Contact

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

First and Last Name: <u>Hani Said</u> Credential (P.E, P.G., Ph.D., etc.): Title: Environmental Scientist

Organization Name: <u>RSB Environmental</u> Mailing Address: <u>6001 Savoy Dr. #110</u> City, State, Zip Code: <u>Houston, TX 77036</u>

Phone No.: 832-291-3473 Ext.: Fax No.:

E-mail Address: hani@rsbenv.com

Check one or both:

Administrative Contact

Technical Contact

Section 5. Permit Contact Information (Instructions Page 30)

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

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

First and Last Name: David Arce

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

Title: Public Utilities Director

Organization Name: City of Weslaco

Mailing Address: <u>1912 Joe Stephens Ave</u>, City, State, Zip Code: <u>Weslaco</u>, TX 78596

Phone No.: <u>956-973-3146</u> Ext.: Fax No.:

E-mail Address: <u>Darce@weslacotx.gov</u>

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

First and Last Name: George Quilantan

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

Title: Project Manager

Organization Name: <u>Inframark Water& infrastructure Services</u>

Mailing Address: <u>2500 N. Texas Blvd.</u>

City, State, Zip Code: Weslaco, TX 78599

Phone No.: <u>956.968.2833</u> Ext.: Fax No.:

E-mail Address: george.quilantan@inframark.com

Section 6. Billing Information (Instructions Page 30)

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

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

First and Last Name: David Arce

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

Title: Public Utilities Director

Organization Name: City of Weslaco

Mailing Address: <u>1912 Joe Stephens Ave</u>, City, State, Zip Code: <u>Weslaco</u>, TX 78596

Phone No.: <u>956-973-3146</u> Ext.: Fax No.:

E-mail Address: <u>Darce@weslacotx.gov</u>

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

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

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

First and Last Name: George Quilantan

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

Title: Project Manager

Organization Name: <u>Inframark Water& infrastructure Services</u>

Mailing Address: <u>2500 N. Texas Blvd.</u> City, State, Zip Code: <u>Weslaco</u>, TX 78599

Phone No.: <u>956.968.2833</u> Ext.: Fax No.:

E-mail Address: george.quilantan@inframark.com

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

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

Section 8. Public Notice Information (Instructions Page 31)

A. Individual Publishing the Notices

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

First and Last Name: Hani Said

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

Title: Environmental Scientist

Organization Name: RSB Environmental

Mailing Address: 6001 Savoy Dr.#110

City, State, Zip Code: Houston, TX 77036

Phone No.: <u>832-291-3473</u> Ext.: Fax No.:

E-mail Address: hani@rsbenv.com

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

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

□ Fax

□ Regular Mail

C. Contact person to be listed in the Notices

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

First and Last Name: David Arce

	Credential (P.	E, P.G., Ph.D.,	, etc.):	
	Title: <u>Public U</u>	<u> Itilities Direct</u>	<u>etor</u>	
	Organization	Name: City o	of Weslaco	
	Phone No.: 95	<u>6-973-3146</u> F	Ext.:	
	E-mail:			
D.	Public Viewi	ng Informatio	on	
	If the facility county must l		ocated in more than one county, a public viewing place for each	1
	Public buildin	ig name: <u>City</u>	<u>' Hall</u>	
	Location with	in the buildir	ng: <u>Reception</u>	
	Physical Addr	ess of Buildir	ing: <u>255 S. Kansas Ave</u>	
	City: <u>Weslaco</u>		County: <u>Hidalgo</u>	
	Contact Name	: :		
	Phone No.:		Ext.:	
E.	Bilingual Not	ice Requirem	nents:	
		-	ed for new, major amendment, minor amendment or nd renewal applications.	
		omplete instri	ation is only used to determine if alternative language notices ructions on publishing the alternative language notices will be e.	
	Please call the			
			SL coordinator at the nearest elementary and middle schools a mation to determine whether an alternative language notices a	
	obtain the fol required. 1. Is a biling	lowing infornual education	SL coordinator at the nearest elementary and middle schools a	
	obtain the fol required. 1. Is a biling	lowing informual education y or middle s	SL coordinator at the nearest elementary and middle schools a mation to determine whether an alternative language notices an appropriate required by the Texas Education Code at the	
	obtain the fol required. 1. Is a biling elementar Ye	lowing informual education y or middle sees	SL coordinator at the nearest elementary and middle schools a mation to determine whether an alternative language notices an appropriate program required by the Texas Education Code at the school nearest to the facility or proposed facility?	
	obtain the fol required. 1. Is a biling elementar Ye If no, publibelow. 2. Are the stu	lowing informual education y or middle sees	SL coordinator at the nearest elementary and middle schools a mation to determine whether an alternative language notices an appropriate required by the Texas Education Code at the school nearest to the facility or proposed facility? No	re
	obtain the fol required. 1. Is a biling elementar Ye If no, publibelow. 2. Are the stu	lowing informual education y or middle seles	SL coordinator at the nearest elementary and middle schools a mation to determine whether an alternative language notices an program required by the Texas Education Code at the school nearest to the facility or proposed facility? No had alternative language notice is not required; skip to Section 9 ttend either the elementary school or the middle school enrolle.	re
	obtain the fol required. 1. Is a biling elementar Ye If no, publibelow. 2. Are the stua bilingual Ye	lowing informual education y or middle sets lication of an adents who at education press	SL coordinator at the nearest elementary and middle schools a mation to determine whether an alternative language notices an appropriate program required by the Texas Education Code at the school nearest to the facility or proposed facility? No alternative language notice is not required; skip to Section 9 ttend either the elementary school or the middle school enrolle rogram at that school?	re
	obtain the fol required. 1. Is a biling elementar Yell If no, publication. 2. Are the stua bilingual Yell 3. Do the stu	lowing informual education y or middle sets and lication of an education property.	SL coordinator at the nearest elementary and middle schools a mation to determine whether an alternative language notices an program required by the Texas Education Code at the school nearest to the facility or proposed facility? No alternative language notice is not required; skip to Section 9 ttend either the elementary school or the middle school enrolle rogram at that school? No	re

	4.	Would has wa	the schoo uved out o	l be rec f this r	juired to equirem	provide ent unde	e a bilingua er 19 TAC	al educ §89.12	ation pi !05(g)?	rogram	but the school
		NAME OF THE PERSON	Yes	\boxtimes	No						
	5.		answer is y ed. Which l								tive language are
F.	Pu	blic Inv	volvement	Plan F	orm						
			the Public iit or majo								oplication for a
	At	tachme	ent:								
Se	cti	on 9. Page		ed En	tity an	d Peri	nitted S	ite In	forma	ation (Instructions
Α.			is currentl e. RN 10160		ated by 1	ГСЕО, р	rovide the	Regula	ated Ent	ity Nun	ıber (RN) issued
			e TCEQ's Co currently i				<u>//www15.t</u>	ceq.tex	kas.gov/	<u>/crpub/</u>	to determine if
В.	Na	me of p	project or s	ite (the	name k	nown by	the comn	nunity	where l	ocated):	:
	<u>W</u> €	slaco P	<u>lant</u>								
C.	Ow	mer of	treatment	facility	City of	<u>Weslaco</u>					
	Ow	mership	of Facility	y: ⊠	Public		Private		Both		Federal
D.	Ow	mer of	land where	treatn	nent faci	lity is or	will be:				
	Pre	efix (Mr.	., Ms., Miss):							
	Fir	st and I	Last Name:	City of	f Weslaco	<u>)</u>					
	Ma	iling Ad	ddress: <u>255</u>	s Kan	sas Ave.						
	Cit	y, State	, Zip Code:	<u>Wesla</u>	<u>co, TX 78</u>	<u> 8599</u>					
	Ph	one No.	: <u>956.968.3</u>	<u> 8181</u>		E-mail	Address:				
	If t	he land eement	lowner is n t or deed r	ot the a	same pei d easeme	cson as ent. See	the facility instructior	ownei is.	or co-a	applican	it, attach a lease
		Attach	ment:								
E.	Ow	ner of	effluent di	sposal	site:						
	Pre	efix (Mr.	, Ms., Miss): <u>N/A</u>							
	Fir	st and I	Last Name:								
	Ma	iling Ac	ddress:								
	Cit	y, State	, Zip Code:								

	Phone No.: E-mail Address:
	If the landowner is not the same person as the facility owner or co-applicant, attach a lease agreement or deed recorded easement. See instructions.
	Attachment:
F.	Owner of sewage sludge disposal site (if authorization is requested for sludge disposal on property owned or controlled by the applicant):
	Prefix (Mr., Ms., Miss): N/A
	First and Last Name:
	Mailing Address:
	City, State, Zip Code:
	Phone No.: E-mail Address:
	If the landowner is not the same person as the facility owner or co-applicant, attach a lease agreement or deed recorded easement. See instructions.
	Attachment:
Se	ection 10. TPDES Discharge Information (Instructions Page 34)
	Is the wastewater treatment facility location in the existing permit accurate?
	⊠ Yes □ No
	If no , or a new permit application , please give an accurate description:
	, , , , , , , , , , , , , , , , , , , ,
В.	Are the point(s) of discharge and the discharge route(s) in the existing permit correct?
	⊠ Yes □ No
	If no, or a new or amendment permit application, provide an accurate description of the
	point of discharge and the discharge route to the nearest classified segment as defined in 30 TAC Chapter 307:
	City nearest the outfall(s): Weslaco
	County in which the outfalls(s) is/are located: <u>Hidalgo</u>
	Outfall Latitude: <u>26.184877</u> Longitude: <u>-97.971014</u>
۲.	Is or will the treated wastewater discharge to a city, county, or state highway right-of-way,

	Yes No
	If yes , indicate by a check mark if:
	Authorization granted Authorization pending
	For new and amendment applications, provide copies of letters that show proof of contact and the approval letter upon receipt.
	Attachment:
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.
	Hidalgo, Cameron
C	
Se	ction 11. TLAP Disposal Information (Instructions Page 36)
A.	For TLAPs, is the location of the effluent disposal site in the existing permit accurate?
	□ Yes □ No
	If no, or a new or amendment permit application , provide an accurate description of the disposal site location:
	N/A
B.	City nearest the disposal site:
C.	County in which the disposal site is located:
D.	Disposal Site Latitude: Longitude:
E.	For TLAPs , describe the routing of effluent from the treatment facility to the disposal site:
F.	For TLAPs , please identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained:

Section 12. Miscellaneous Information (Instructions Page 37)

A. 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.
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:
D.	Do you owe any fees to the TCEQ?
	□ Yes ⊠ No
	If yes , provide the following information:
	Account number: Amount past due:
E.	Do you owe any penalties to the TCEQ?
	Yes 🖾 No
	If yes , please provide the following information:
	Enforcement order number: Amount past due:
Se	ection 13. Attachments (Instructions Page 38)
	Indicate which attachments are included with the Administrative Report. Check all that apply:
	Lease agreement or deed recorded easement, if the land where the treatment facility is located or the effluent disposal site are not owned by the applicant or co-applicant. Original full-size USGS Topographic Map with the following information: • Applicant's property boundary

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

	Attachment 1 for Individuals as co-applicants	
4576; -46	Other Attachments, Please specify:	

Section 14. Signature Page (Instructions Page 39)

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

Permit Number: <u>WQ0010619003</u>

Applicant: City of Weslaco

Certification:

County, Texas ()

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

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

Signatory name (typed or printed): <u>David Suarez</u>
Signatory title: Mayor Signature: Date: 4/0/123
(Use blue ink)
Subscribed and Sworn to before me by the said David Suarez on this subscribed and Sworn to before me by the said David Suarez on this day of grade , 20 23. My commission expires on the 3 h day of April , 20 25.
Notary Public Wally Walley JUANITA M. VALLEJO SEAL Notary Public, State of Texas Comm. Expires 04-03-2025 Netary ID 124139672

Section 15. Plain Language Summary (Instructions Page 40)

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

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

DOMESTIC WASTEWATER

The following summary is provided for this pending water quality permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 Texas Administrative Code Chapter 39. The information provided in this summary may change during the technical review of the application and are not federal enforceable representations of the permit application. City of Weslaco (CN600520969) operates Weslaco plant RN101607943. an Activated sludge process plant operated in extended aeration mode. The facility is located Northeast of the City of Weslaco approximately 4000 feet east of State Highway 88 and approximately 4000 feet North of Pike Boulevard, in Weslaco, Hidalgo County, Texas 78599.

This application is for renewal to discharge a volume not to exceed a daily average flow of 0.49 MGD of treated domestic wastewater via outfall.

Discharges from the facility are expected to containfive-day carbonaceous biochemical oxygen demand (CBOD₅) total suspended solids (TSS), ammonia nitrogen (NH₃-N), Zinc and Escherichia coli. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Domestic wastewater is treated by Activated sludge process plant operated in extended aeration mode, Treatment units include a lift station, bar screen, grit removal, oxidation ditches, secondary clarifiers, sludge belt press, chlorine contact chamber and dichlorination facilities.

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

AGUAS RESIDUALES DOMÉSTICAS

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

1. Introduzca el nombre del solicitante aquí. (2. Introduzca el número de cliente aquí (es decir, CN6 #########).) 3. Elija del menú desplegable. 4. Introduzca el nombre de la instalación aquí. 5. Introduzca el número de entidad regulada aquí (es decir, RN1 #######). 6. Elija del menú desplegable. 7. Introduzca la descripción de la instalación aquí. . La instalación 8. Elija del menú desplegable. ubicado 9. Introduzca la ubicación aquí. , en 10. Introduzca el nombre de la ciudad aquí. , Condado de 11. Introduzca el nombre del condado aquí. , Texas 12. Introduzca el código postal aquí. . 13. Introduzca el resumen de la solicitud de solicitud aquí. < Para las aplicaciones de TLAP incluya la siguiente oración, de lo contrario, elimine: >> Este permiso no autorizará una descarga de contaminantes en el agua en el estado.

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

La ciudad de Weslaco (CN600520969) opera la planta de Weslaco RN101607943. una planta de proceso de lodos activados operada en modo de aireación extendida. La instalación está ubicada al noreste de la ciudad de Weslaco, aproximadamente a 4000 pies al este de la carretera estatal 88 y aproximadamente a 4000 pies al norte de Pike Boulevard, en Weslaco, condado de Hidalgo, Texas 78599.

Esta solicitud es para la renovación para descargar un volumen que no exceda un flujo promedio diario de 0.49 MGD de aguas residuales domésticas tratadas a través de un emisario.

Se espera que las descargas de la instalación contengan demanda bioquímica de oxígeno carbonoso (CBOD5) de cinco días, sólidos suspendidos totales (TSS), nitrógeno amoniacal (NH3-N), zinc y Escherichia coli. Los contaminantes potenciales adicionales se incluyen en el Informe técnico doméstico 1.0, Sección 7. Las aguas residuales domésticas son tratadas por una planta de proceso de lodos activados operada en modo de aireación extendida. prensa de banda, cámara de contacto de cloro e instalaciones de dicloración.

DOMESTIC ADMINISTRATIVE REPORT 1.1

The following information is required for new and amendment applications.

Section 1. Affected Landowner Information (Instructions Page 41)

Α.		icate by a check mark that the landowners map or drawing, with scale, includes the owing information, as applicable:
		The applicant's property boundaries
		The facility site boundaries within the applicant's property boundaries
		The distance the buffer zone falls into adjacent properties and the property boundaries of the landowners located within the buffer zone
		The property boundaries of all landowners surrounding the applicant's property (Note: if the application is a major amendment for a lignite mine, the map must include the property boundaries of all landowners adjacent to the new facility (ponds).)
		The point(s) of discharge and highlighted discharge route(s) clearly shown for one mile downstream
		The property boundaries of the landowners located on both sides of the discharge route for one full stream mile downstream of the point of discharge
		The property boundaries of the landowners along the watercourse for a one-half mile radius from the point of discharge if the point of discharge is into a lake, bay, estuary, or affected by tides
		The boundaries of the effluent disposal site (for example, irrigation area or subsurface drainfield site) and all evaporation/holding ponds within the applicant's property
		The property boundaries of all landowners surrounding the effluent disposal site
		The boundaries of the sludge land application site (for land application of sewage sludge for beneficial use) and the property boundaries of landowners surrounding the applicant's property boundaries where the sewage sludge land application site is located
		The property boundaries of landowners within one-half mile in all directions from the applicant's property boundaries where the sewage sludge disposal site (for example, sludge surface disposal site or sludge monofill) is located
В.		Indicate by a check mark that a separate list with the landowners' names and mailing resses cross-referenced to the landowner's map has been provided.
C.	Indi	icate by a check mark in which format the landowners list is submitted:
	[□ USB Drive □ Four sets of labels
D.	Prov	vide the source of the landowners' names and mailing addresses:
E.		required by $Texas\ Water\ Code\ \S\ 5.115$, is any permanent school fund land affected by this lication?
	(□ Yes □ No

		(s):
		on 2. Original Photographs (Instructions Page 44)
		original ground level photographs. Indicate with checkmarks that the following tion is provided.
		At least one original photograph of the new or expanded treatment unit location
		At least two photographs of the existing/proposed point of discharge and as much area downstream (photo 1) and upstream (photo 2) as can be captured. If the discharge is to an open water body (e.g., lake, bay), the point of discharge should be in the right or left edge of each photograph showing the open water and with as much area on each respective side of the discharge as can be captured.
		At least one photograph of the existing/proposed effluent disposal site
		A plot plan or map showing the location and direction of each photograph
Se	ectio	on 3. Buffer Zone Map (Instructions Page 44)
Α.	infor	er zone map. Provide a buffer zone map on 8.5×11 -inch paper with all of the following mation. The applicant's property line and the buffer zone line may be distinguished by g dashes or symbols and appropriate labels.
	•	The applicant's property boundary; The required buffer zone; and Each treatment unit; and The distance from each treatment unit to the property boundaries.
В.		er zone compliance method. Indicate how the buffer zone requirements will be met. k all that apply.
	Ē	Ownership
	223 256	Restrictive easement
		Nuisance odor control
		l Variance
C.		uitable site characteristics. Does the facility comply with the requirements regarding itable site characteristic found in 30 TAC § 309.13(a) through (d)?

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

FOR AGENCIES REVIEWING DOMESTIC TPDES WASTEWATER PERMIT APPLICATIONS

TCEQ USE ONLY:	
Application type:RenewalMajor A	
County:	Segment Number:
Admin Complete Date:	
Agency Receiving SPIF:	
Texas Historical Commission	U.S. Fish and Wildlife
Texas Parks and Wildlife Department	U.S. Army Corps of Engineers
This form applies to TPDES permit applicatio	ns only. (Instructions, Page 53)
each agency as required by the TCEQ agreemer	ument. The TCEQ will mail a copy of the SPIF to nt with EPA. If any of the items are not completely ou will be contacted to provide the information completely addressed.
be provided with this form separately from the	permit application form. Each attachment must administrative report of the application. The ly complete without this form being completed in
The following applies to all applications:	
1. Permittee: <u>City of Weslaco</u>	
Permit No. WQ00 <u>1061903</u>	EPA ID No. TX <u>0052787</u>
and county):	ption that includes street/highway, city/vicinity,
Northeast of the City of Weslaco approximately 4000 feet North of Pike Bou	

		e the name, address, phone and fax number of an individual that can be contacted to r specific questions about the property.
	Prefix	(Mr., Ms., Miss):
	First a	nd Last Name: <u>David Arce</u>
	Creder	ntial (P.E, P.G., Ph.D., etc.):
	Title: <u>F</u>	Public Utilities Director
	Mailing	g Address: <u>1912 Joe Stephens Ave</u>
	City, St	tate, Zip Code: <u>Weslaco, TX 78596</u>
	Phone	No.: <u>956.973.3146</u> Ext.: Fax No.:
	E-mail	Address: <u>Darce@weslacotx.gov</u>
2.	List the	e county in which the facility is located: <u>Hidalgo</u>
3.		property is publicly owned and the owner is different than the permittee/applicant,
	N/A	list the owner of the property.
4.		e a description of the effluent discharge route. The discharge route must follow the flow
		ent from the point of discharge to the nearest major watercourse (from the point of rge to a classified segment as defined in 30 TAC Chapter 307). If known, please identify
		ssified segment number.
		named drainage ditch; thence to North Floodway; thence to Laguna Madre in Segment
	No. 24	491 of the Bays and Estuaries
5.	plotted route f	provide a separate 7.5-minute USGS quadrangle map with the project boundaries d and a general location map showing the project area. Please highlight the discharge from the point of discharge for a distance of one mile downstream. (This map is sed in addition to the map in the administrative report).
	Provid	e original photographs of any structures 50 years or older on the property.
	Does y	our 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
		Vilantino effects desired and the state of t
		Vibration effects during construction or as a result of project design
		Additional phases of development that are planned for the future

	Disturbance of vegetation or wetlands
6.	List proposed construction impact (surface acres to be impacted, depth of excavation, sealin of caves, or other karst features):
7.	Describe existing disturbances, vegetation, and land use:
AN	HE FOLLOWING ITEMS APPLY ONLY TO APPLICATIONS FOR NEW TPDES PERMITS AND MAJOR MENDMENTS TO TPDES PERMITS List construction dates of all buildings and structures on the property:
9.	Provide a brief history of the property, and name of the architect/builder, if known.
	。 《《《《·································

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ATTACHMENT 1

INDIVIDUAL INFORMATION

Section 1. Individual Information (Instructions Page 50)

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

	Prefix (Mr., Ms., Miss):
	Full legal name (first, middle, last):
	Driver's License or State Identification Number:
	Date of Birth:
	Mailing Address:
	City, State, and Zip Code:
	Phone Number: Fax Number:
	E-mail Address:
	CN: Assistant in item and the contraction of the co
F	For Commission Use Only:
C	ustomer Number:
R	egulated Entity Number:
P	ermit Number:

CHECKLIST OF COMMON DEFICIENCIES

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

Core Data Form (TCEQ Form No. 10400) (Required for all applications types. Must be completed in its entirety and s Note: Form may be signed by applicant representative.)	rigned.			Yes
Correct and Current Industrial Wastewater Permit Application Forms (TCEQ Form Nos. 10053 and 10054. Version dated 6/25/2018 or later.)				Yes
Water Quality Permit Payment Submittal Form (Page 19) (Original payment sent to TCEQ Revenue Section. See instructions for mail	ing ad	ldress.)		Yes
7.5 Minute USGS Quadrangle Topographic Map Attached (Full-size map if seeking "New" permit. 8 ½ x 11 acceptable for Renewals and Amendments)			\boxtimes	Yes
Current/Non-Expired, Executed Lease Agreement or Easement Attached	\boxtimes	N/A		Yes
Landowners Map (See instructions for landowner requirements)		N/A	emilion Transport	Yes
 Things to Know: All the items shown on the map must be labeled. The applicant's complete property boundaries must be delineat boundaries of contiguous property owned by the applicant. The applicant cannot be its own adjacent landowner. You must landowners immediately adjacent to their property, regardless from the actual facility. If the applicant's property is adjacent to a road, creek, or streat the opposite side must be identified. Although the properties a applicant's property boundary, they are considered potentially the adjacent road is a divided highway as identified on the USG applicant does not have to identify the landowners on the opposition. 	identi of hov n, the re not affecto S topo	ify the v far th landov adjace ed land ographi	ey ar vners nt to lowne c maj	e on ers. If
Landowners Cross Reference List (See instructions for landowner requirements)	\boxtimes	N/A		Yes
Landowners Labels or USB Drive attached (See instructions for landowner requirements)		N/A		Yes
Original signature per 30 TAC § 305.44 – Blue Ink Preferred (If signature page is not signed by an elected official or principle executive a copy of signature authority/delegation letter must be attached)	office	r,	\boxtimes	Yes



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

DOMESTIC TECHNICAL REPORT 1.0

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

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

A. Existing/Interim I Phase

Design Flow (MGD):

2-Hr Peak Flow (MGD):

Estimated construction start date:

Estimated waste disposal start date:

B. Interim II Phase

Design Flow (MGD):

2-Hr Peak Flow (MGD):

Estimated construction start date:

Estimated waste disposal start date:

C. Final Phase

Design Flow (MGD): 4.9

2-Hr Peak Flow (MGD):

Estimated construction start date: N/A

Estimated waste disposal start date: N/A

D. Current operating phase: Final

Provide the startup date of the facility: 1/1/2005

Section 2. Treatment Process (Instructions Page 51)

A. Treatment process description

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

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

Activated sludge process plant operated in extended aeration mode, Treatment units include a lift station, bar screen, grit removal, oxidation ditches, secondary clarifiers, sludge belt press, chlorine contact chamber and dichlorination facilities.

Port or pipe diameter at the discharge point, in inches: 24

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	Dimensions (L x W x D)
	Units	
Bar Screen	1	Flow channel: 4'(w) x 4.5'(Depth)
Oxidation Ditch	1	410' x 45' x 18'
Aeration Basin	1	165' x 45' x 18'
Final Clarifier	2	Dia 66' x 10'
	1	Dia 104' x 15'
Chlorine Contact	1	40' x 10'
Chamber	1	60' x 10'
Belt Filter Press	1	Solid Loading rate: 972lb/hr
		Hydraulic Loading rate: 194 gpm
		Solid throughput: 16% -18%
Aerobic Digester	1	232' x 20' x 8'

C. Process flow diagrams

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

Attachment: D

Section 3. Site Drawing (Instructions Page 52)

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

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

At	tachment:	E

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

City of Weslaco		

Section 4. Unbuilt Phases (Instructions Page 52)

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

Yes	П	No	\square
163		110	\triangle

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

Yes	No	

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

	사용성 활출했다.

Section 5. Clos	ure Plans (Instructions Page 53)
Have any treatme	nt units been taken out of service permanently, or will any t of service in the next five years? No 🗵
If yes, was a closi	ure plan submitted to the TCEQ?
Yes 🗆	No 🗆
If yes , provide a l	orief description of the closure and the date of plan approval.

Section 6. Permit Specific Requirements (Instructions Page 53)

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

A. Summary transmittal

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

Yes ⊠ No □

If yes, provide the date(s) of approval for each phase: March 6, 2009, and July 2, 2009

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

B. Buffer zones
Have the buffer zone requirements been met? Yes \boxtimes No \square
Provide information below, including dates, on any actions taken to meet the conditions of the buffer zone. If available, provide any new documentation relevant to maintaining the buffer zones.
C. Other actions required by the current permit
Does the <i>Other Requirements</i> or <i>Special Provisions</i> section in the existing permit require submission of any other information or other required actions? Examples include Notification of Completion, progress reports, soil monitoring data, etc. Yes \square No \boxtimes
If yes, provide information below on the status of any actions taken to meet the conditions of an <i>Other Requirement</i> or <i>Special Provision</i> .
D. Grit and grease treatment
1. Acceptance of grit and grease waste
Does the facility have a grit and/or grease processing facility onsite that treats and decants or accepts transported loads of grit and grease waste that are discharged directly to the wastewater treatment plant prior to any treatment?
Yes □ No ⊠



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

2. Grit and grease processing							
Describe below how the grit and grease waste is treated at the facility. In your description, include how and where the grit and grease is introduced to the treatment works and how it is separated or processed. Provide a flow diagram showing how grit and grease is processed at the facility.							
3. Grit disposal							
Does the facility have a Municipal Solid Waste (MSW) registration or permit for grit disposal? Yes No							
If No, contact the TCEQ Municipal Solid Waste team at 512-239-0000. Note: A registration or permit is required for grit disposal. Grit shall not be combined with treatment plant sludge. See the instruction booklet for additional information on grit disposal requirements and restrictions. Describe the method of grit disposal.							
Describe the inchiou of gift disposal.							
4. Grease and decanted liquid disposal							
Note: A registration or permit is required for grease disposal. Grease shall not be combined with treatment plant sludge. For more information, contact the TCEQ Municipal Solid Waste team at 512-239-0000.							
Describe how the decant and grease are treated and disposed of after grit separation.							

E. Stormwater management 1. Applicability Does the facility have a design flow of 1.0 MGD or greater in any phase? Yes 🛛 No □ Does the facility have an approved pretreatment program, under 40 CFR Part 403? Yes 🗆 No 🗵 **If no to both of the above**, then skip to Subsection F, Other Wastes Received. 2. MSGP coverage Is the stormwater runoff from the WWTP and dedicated lands for sewage disposal currently permitted under the TPDES Multi-Sector General Permit (MSGP), TXR050000? Yes □ No ⊠ If yes, please provide MSGP Authorization Number and skip to Subsection F, Other Wastes Received: **TXR05** or TXRNE **If no**, do you intend to seek coverage under TXR050000? Yes □ No 🖂 3. Conditional exclusion Alternatively, do you intend to apply for a conditional exclusion from permitting based TXR050000 (Multi Sector General Permit) Part II B.2 or TXR050000 (Multi Sector General Permit) Part V, Sector T 3(b)? Yes 🗆 No \boxtimes If yes, please explain below then proceed to Subsection F. Other Wastes Received:

4. Existing coverage in individual permit



Is your stormwater discharge currently permitted through this individual TPDES or TLAP permit? Yes No No
If yes , provide a description of stormwater runoff management practices at the site that are authorized in the wastewater permit then skip to Subsection F, Other Wastes Received.
5. Zero stormwater discharge
Do you intend to have no discharge of stormwater via use of evaporation or other means? Yes \square No \square
If yes, explain below then skip to Subsection F. Other Wastes Received.
Note: If there is a potential to discharge any stormwater to surface water in the state as the result of any storm event, then permit coverage is required under the MSGP or an individual discharge permit. This requirement applies to all areas of facilities with treatment plants or systems that treat, store, recycle, or reclaim domestic sewage, wastewater or sewage sludge (including dedicated lands for sewage sludge disposal located within the onsite property boundaries) that meet the applicability criteria of above. You have the option of obtaining coverage under the MSGP for direct discharges, (recommended), or obtaining coverage under this individual permit.
6. Request for coverage in individual permit
Are you requesting coverage of stormwater discharges associated with your treatment plant under this individual permit? Yes No No
If yes, provide a description of stormwater runoff management practices at the site for which you are requesting authorization in this individual wastewater permit and describe whether you intend to comingle this discharge with your treated effluent or discharge it via a separate dedicated stormwater outfall. Please also indicate if you intend to divert stormwater to

the treatment plant headworks and indirectly discharge it to water in the state.
Note: Direct stormwater discharges to waters in the state authorized through this individual permit will require the development and implementation of a stormwater pollution prevention plan (SWPPP) and will be subject to additional monitoring and reporting requirements. Indirect discharges of stormwater via headworks recycling will require compliance with all individual permit requirements including 2-hour peak flow limitations. All stormwater discharge authorization requests will require additional information during the technical review of your application.
F. Discharges to the Lake Houston Watershed
Does the facility discharge in the Lake Houston watershed? Yes \square No \square
If yes, a Sewage Sludge Solids Management Plan is required. See Example 5 in the instructions.
G. Other wastes received including sludge from other WWTPs and septic waste
1. Acceptance of sludge from other WWTPs
Does the facility accept or will it accept sludge from other treatment plants at the facility site? Yes \square No \boxtimes
If yes, attach sewage sludge solids management plan. See Example 5 of the instructions.
In addition, provide the date that the plant started accepting sludge or is anticipated to start accepting sludge, an estimate of monthly sludge acceptance (gallons or millions of gallons), an estimate of the 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.

	that accept sludge from other wastewater treatment plants ed to have influent flow and organic loading monitoring.
2. Acceptar	ice of septic waste
Is the facility	accepting or will it accept septic waste?
Yes □	No ⊠
	he facility have a Type V processing unit?
Yes 🗓	PATHONE TO THE PATHON
	he unit have a Municipal Solid Waste permit?
Yes 🗆	No 🔳
accepting ser estimate of n an estimate of BOD ₅ concen	of the above, provide a the date that the plant started offic waste, or is anticipated to start accepting septic waste, an nonthly septic waste acceptance (gallons or millions of gallons), of the BOD ₅ concentration of the septic waste, and the design tration of the influent from the collection system. Also note if ion has or has not changed since the last permit action.
	that accept sludge from other wastewater treatment plants red to have influent flow and organic loading monitoring.
-	nce of other wastes (not including septic, grease, grit, . CERCLA or as discharged by IUs listed in et 6)
-	accepting or will it accept wastes that are not domestic in ing the categories listed above? No 🗵
	e the date that the plant started accepting the waste, an much waste is accepted on a monthly basis (gallons or millions

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 ha	s or has n	ot chang	ed since the	e last perr	nit action.
Section 7. Pollutant Anal Page 58) Is the facility in operation?	ysis of T	reated	Effluent (Instruct	ions
Yes ⊠ No □					
If no , this section is not appli	cable. Prod	ceed to S	ection 8.		
If yes , provide effluent analys treatment facilities complete discharging filter backwash w	Table 1.00	(2). Wate	r treatmen		
Note: The sample date must b	e within 1	year of	application	submissi	on.
Table 1.0(2) - Pollutan	t Analysis	for Was	tewater Tre	eatment I	Facilities
Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
CBOD ₅ , mg/l				-	
Total Suspended Solids, mg/l					
Ammonia Nitrogen, mg/l					
Ammonia Nitrogen, mg/l Nitrate Nitrogen, mg/l					
Nitrate Nitrogen, mg/l					
<i> </i>					
Nitrate Nitrogen, mg/l Total Kjeldahl Nitrogen, mg/l					
Nitrate Nitrogen, mg/l Total Kjeldahl Nitrogen, mg/l Sulfate, mg/l Chloride, mg/l					
Nitrate Nitrogen, mg/l Total Kjeldahl Nitrogen, mg/l Sulfate, mg/l					
Nitrate Nitrogen, mg/l Total Kjeldahl Nitrogen, mg/l Sulfate, mg/l Chloride, mg/l Total Phosphorus, mg/l					

E.coli (CFU/100ml) freshwater

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
Entercocci (CFU/100ml) saltwater					
Total Dissolved Solids, mg/l					
Electrical Conductivity, µmohs/cm, †					
Oil & Grease, mg/l					
Alkalinity (CaCO₃)*, mg/l					

^{*}TPDES permits only

†TLAP permits only

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

Pollutant	Average	Max	No. of	Sample	Sample
ronutant	Conc.	Conc.	Samples	Type	Date/Time
Total Suspended Solids, mg/l					
Total Dissolved Solids, mg/l					
pH, standard units					
Fluoride, mg/l					
Aluminum, mg/l					
Alkalinity (CaCO ₃), mg/l					

Section 8. Facility Operator (Instructions Page 60)

Facility Operator Name: Paul M. Kiffe

Facility Operator's License Classification and Level: $\underline{\text{Wastewater } A}$

Facility Operator's License Number: <u>WW047172</u>

Section 9. Sewage Sludge Management and Disposal (Instructions

Page 60)

A. Sludge disposal method

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

\boxtimes	Permitted landfill
	Permitted or Registered land application site for beneficial use
\boxtimes	Land application for beneficial use authorized in the wastewater permit
Epople)	Permitted sludge processing facility
	Marketing and distribution as authorized in the wastewater permit
	Composting as authorized in the wastewater permit
	Permitted surface disposal site (sludge monofill)
	Surface disposal site (sludge monofill) authorized in the wastewater permit
	Transported to another permitted wastewater treatment plant or permitted sludge processing facility. If you selected this method, a written statement or contractual agreement from the wastewater treatment plant or permitted sludge processing facility accepting the sludge must be included with this application.
	Other:

B. Sludge disposal site

Disposal site name: Denali Water Solution, LLC

TCEQ permit or registration number: <u>Multiple sites</u>

County where disposal site is located: <u>Hidalgo</u>

C. Sludge transportation method

Method of transportation (truck, train, pipe, other): <u>Truck</u>

Name of the hauler: Denali Water Solutions, LLC

Hauler registration number: <u>24979</u>



Sludge is transporte	d as a:		
Liquid 🗓	semi-liquid 🔲	semi-solid	solid 🗵
Section 10. P		tion for Sewage S	ludge Disposal
A. Beneficial use	authorization		
Does the existing per sludge for beneficial Yes □ No ☒		rization for land appl	ication of sewage
If yes, are you requestly sludge for beneficial Yes □ No □	_	nis authorization to la	and apply sewage
	EQ Form No. 10451	r Permit for Benefici a) attached to this per	
B. Sludge proces	ssing authorization		
Does the existing perprocessing, storage		rization for any of the	e following sludge
Sludge Compost		Yes 🖺	No ⊠
Marketing and D	istribution of sludg	ge Yes □	No ⊠
Sludge Surface I	Disposal or Sludge M	Ionofill Yes 🗆	No ⊠
Temporary stora	age in sludge lagoon	s Yes 🗉	No ⊠
continue this author Application: Sewage attached to this per Yes No	rization, is the comp e Sludge Technical mit application?	is and the applicant in pleted Domestic Was Report (TCEQ Form)	tewater Permit No. 10056)
		goons (Instruction	ns Page 61)
Yes No	vinclude sewage slu	iuge iagoons?	
CONTRACTS CARPORTERS	the remainder of th	is section. If no, proc	eed to Section 12.

A. Location information

The following maps are required to be submitted as part of the application. For
each map, provide the Attachment Number.
Original General Highway (County) Map:

- 011	gillar delicrar ingilway (county) Map.
Att	achment:
• USI	DA Natural Resources Conservation Service Soil Map:
Att	achment:
• Fed	leral Emergency Management Map:
Att	achment:
• Site	e map:
Att	achment:
Discuss ii	n a description if any of the following exist within the lagoon area.
Check all	that apply.
□ O [,]	verlap a designated 100-year frequency flood plain
□ Sc	oils with flooding classification
	verlap an unstable area
\square W	etlands
	ocated less than 60 meters from a fault
	one of the above
Attachme	ent:
plain, pro	on of the lagoon(s) is located within the 100-year frequency flood evide the protective measures to be utilized including type and size of estructures:

B. Temporary storage information

Provide the results for the pollutant screening of sludge lagoons. These results are in addition to pollutant results in Section 7 of Technical Report 1.0. Nitrate Nitrogen, mg/kg:

Total Kjeldahl Nitrogen, mg/kg:
Total Nitrogen (=nitrate nitrogen + TKN), mg/kg:
Phosphorus, mg/kg:
Potassium, mg/kg:
pH, standard units:
Ammonia Nitrogen mg/kg:
Arsenic:
Cadmium:
Chromium:
Copper:
Lead:
Mercury:
Molybdenum:
Nickel:
Selenium:
Zinc:
Total PCBs:
Provide the following information: Volume and frequency of sludge to the lagoon(s):
Total dry tons stored in the lagoons(s) per 365-day period:
Total dry tons stored in the lagoons(s) over the life of the unit:
C. Liner information
Does the active/proposed sludge lagoon(s) have a liner with a maximum hydraulic conductivity of $1x10^{-7}$ cm/sec? Yes \square No \square
If yes, describe the liner below. Please note that a liner is required.

D. Site development plan
Provide a detailed description of the methods used to deposit sludge in the
lagoon(s):
Attach the following documents to the application.
 Plan view and cross-section of the sludge lagoon(s)
Attachment:
Copy of the closure plan
Attachment:
 Copy of deed recordation for the site
Attachment:
 Size of the sludge lagoon(s) in surface acres and capacity in cubic feet and gallons
Attachment:
 Description of the method of controlling infiltration of groundwater and surface water from entering the site
Attachment:
 Procedures to prevent the occurrence of nuisance conditions
Attachment:
E. Groundwater monitoring
Is groundwater monitoring currently conducted at this site, or are any wells available for groundwater monitoring, or are groundwater monitoring data otherwise available for the sludge lagoon(s)? Yes \square No \square
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.

TCEQ-10054 (06/01/2017) Domestic Wastewater Permit Application, Technical Reports Attachment:

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

A. Additional authorizations Does the permittee have additional authorizations for this facility, such as reuse authorization, sludge permit, etc? Yes \square No \boxtimes
If yes , provide the TCEQ authorization number and description of the authorization:
B. Permittee enforcement status
Is the permittee currently under enforcement for this facility? Yes \square No \boxtimes
Is the permittee required to meet an implementation schedule for compliance or enforcement? Yes \square No \boxtimes
If yes to either question, provide a brief summary of the enforcement, the implementation schedule, and the current status:
Section 13. RCRA/CERCLA Wastes (Instructions Page 63)

A. RCRA hazardous wastes

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

Yes □ 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.

A tto olores crets	
Attaciment:	

Section 14. Laboratory Accreditation (Instructions Page 64)

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

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

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

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

CERTIFICATION:

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

Printed Name: <u>Lucio Garza</u>
Title: <u>Operations Supervisor</u>

Signature:

Date:

DOMESTIC TECHNICAL REPORT 1.1

The following is required for new and amendment applications

Section 1. Justification for Permit (Instructions Page 66)

A. Justification of permit need Provide a detailed discussion regarding the need for any phase(s) not currently permitted. Failure to provide sufficient justification may result in the Executiv Director recommending denial of the proposed phase(s) or permit.
B. Regionalization of facilities
Provide the following information concerning the potential for regionalization of domestic wastewater treatment facilities:
1. Municipally incorporated areas
If the applicant is a city, then Item 1 is not applicable. Proceed to Item 2 Utility CCN areas.
Is any portion of the proposed service area located in an incorporated city?
Yes □ No □ Not Applicable □
If yes, within the city limits of:
If yes, attach correspondence from the city.
Attachment:
If consent to provide service is available from the city, attach a

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

Attachment:

2. Utility CCN areas

Is any portion of the proposed service area located inside another utility's CCN area?
Yes No 🗵
If yes, attach a justification for the proposed facility and a cost analysis of expenditures that includes the cost of connecting to the CCN facilities versus the cost of the proposed facility or expansion.
Attachment:
3. Nearby WWTPs or collection systems
Are there any domestic permitted wastewater treatment facilities or collection systems located within a three-mile radius of the proposed facility? Yes \square No \square
If yes, attach a list of these facilities that includes the permittee's name and permit number, and an area map showing the location of these facilities.
Attachment:
If yes, attach copies of your certified letters to these facilities and their response letters concerning connection with their system.
Attachment:
Does a permitted domestic wastewater treatment facility or a collection system located within three (3) miles of the proposed facility currently have the capacity to accept or is willing to expand to accept the volume of wastewater proposed in this application? Yes No
If yes, attach an analysis of expenditures required to connect to a permitted wastewater treatment facility or collection system located within 3 miles versus the cost of the proposed facility or expansion.
Attachment:
Section 2. Organic Loading (Instructions Page 67)
Is this facility in operation?
Yes 🗵 No 🗓

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

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

A. Current organic loading Facility Design Flow (flow being requested in application):

Average Influent Organic Strength or BOD₅ Concentration in mg/l:

2

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

Provide the source of the average organic strength or BOD ₅ concentration
--

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 BOD ₅ Concentration (mg/l)
Municipality		
Subdivision		
Trailer park – transient		
Mobile home park		
School with cafeteria and showers		
School with cafeteria,		

Source	Total Average Flow (MGD)	Influent BOD ₅ Concentration (mg/l)
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 BOD₅ from all sources		

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

A. Existing/Interim I Phase Design Effluent Quality Biochemical Oxygen Demand (5-day), mg/l: Total Suspended Solids, mg/l: Ammonia Nitrogen, mg/l: Total Phosphorus, mg/l:

Dissolved Oxygen, mg/l:

Other:	
B. Int	erim II Phase Design Effluent Quality
Biochemi	cal Oxygen Demand (5-day), mg/l:
Total Sus	pended Solids, mg/l:
Ammonia	a Nitrogen, mg/l:
Total Pho	sphorus, mg/l:
Dissolved	l Oxygen, mg/l:
Other:	
C. Fin	al Phase Design Effluent Quality
Biochemi	cal Oxygen Demand (5-day), mg/l:
Total Sus	pended Solids, mg/l:
Ammonia	Nitrogen, mg/l:
	sphorus, mg/l: [1.5] [1.
Dissolved	l Oxygen, mg/l:
Other:	
D. Di	sinfection Method
Identi	fy the proposed method of disinfection.
	Chlorine: 1.0 mg/l after 20 minutes detention time at peak flow
	Dechlorination process: <u>Sodium Thiosulfate</u>
	lltraviolet Light: seconds contact time at peak flow
	Other:

Section 4. Design Calculations (Instructions Page 68)

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

Attachment:

Section 5. Facility Site (Instructions Page 68)

A. 100-year floodplain
Will the proposed facilities be located <u>above</u> the 100-year frequency flood level?
Yes No No
If no , describe measures used to protect the facility during a flood event. Include a site map showing the location of the treatment plant within the 100-year frequency flood level. If applicable, provide the size and types of protective structures.
Provide the source(s) used to determine 100-year frequency flood plain.
For a new or expansion of a facility, will a wetland or part of a wetland be filled?
Yes No 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:
If no, provide the approximate date you anticipate submitting your application to the Corps:
B. Wind rose
Attach a wind rose Attachment: F

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

A. Beneficial use authorization

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

Yes	No	\boxtimes
168	NO	

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

Attachment:

B. Sludge processing authorization

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

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

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

Attachment:

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

Attach a solids management plan to the application.

Attachment:

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

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

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

DOMESTIC TECHNICAL REPORT WORKSHEET 2.0

RECEIVING WATERS

The following is required for all TPDES permit applications

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

Is there a surface water intake for domestic drinking water supply located within 5 miles downstream from the point or proposed point of discharge? Yes No
If yes , provide the following: Owner of the drinking water supply:
Distance and direction to the intake:
Attach a USGS map that identifies the location of the intake.
Attachment:
Section 2. Discharge into Tidally Affected Waters (Instructions Page 73)
Does the facility discharge into tidally affected waters?
Yes \square No \boxtimes If yes, complete the remainder of this section. If no, proceed to Section 3.
A. Receiving water outfall Width of the receiving water at the outfall, in feet:
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).

C. S	Sea grasses
Are	e there any sea grasses within the vicinity of the point of discharge?
	Yes No 🗀
If y	es, provide the distance and direction from the outfall(s).
	on 3. Classified Segments (Instructions Page 73)
is the t	lischarge directly into (or within 300 feet of) a classified segment? Yes No No
If ~~~	
	this Worksheet is complete.
II no, c	omplete Sections 4 and 5 of this Worksheet.
Sectio	n 4. Description of Immediate Receiving Waters
	Instructions Page 75)
Nar	ne of the immediate receiving waters:
A. F	Receiving water type
	ntify the appropriate description of the receiving waters.
	Stream
	Engelsynator Cryanan on March
	Freshwater Swamp or Marsh
	Lake or Pond
	Surface area, in acres:
	Average depth of the entire water body, in feet:
	2 7, = =
	Average depth of water body within a 500-foot radius of discharge
	point, in feet:
\boxtimes	Man-made Channel or Ditch

	Open Bay
20 G 16 22 1944 (20	Tidal Stream, Bayou, or Marsh
2000 4000 4000	Other, specify:
B. F.	low characteristics
followir charact	eam, man-made channel or ditch was checked above, provide the fig. For existing discharges, check one of the following that best erizes the area <i>upstream</i> of the discharge. For new discharges, erize the area <i>downstream</i> of the discharge (check one). Intermittent - dry for at least one week during most years
SCHARITY	Intermittent with Perennial Pools - enduring pools with sufficient habitat to maintain significant aquatic life uses
	Perennial - normally flowing
	he method used to characterize the area upstream (or downstream for chargers). USGS flow records
	Historical observation by adjacent landowners
	Personal observation
	Other, specify:
C. D	ownstream perennial confluences
	names of all perennial streams that join the receiving water within iles downstream of the discharge point.
D. D	ownstream characteristics
	receiving water characteristics change within three miles downstream of harge (e.g., natural or man-made dams, ponds, reservoirs, etc.)? Yes 🔲 No 🗵
If yes, o	discuss how.

E. N	Jormal dry weather characte	eristi	CS
Provide	general observations of the		r body during normal dry weather
conditi Flowin			
Date ar	nd time of observation:	Vacus, tea.	
Was the	e water body influenced by s	torm	water runoff during observations?
	Yes □ No ⊠		
· · · · ·		.	
	n 5. General Characteris Page 74)	suics	of the Waterbody (Instructions
A. U	Jpstream influences		
			m of the discharge or proposed ollowing? Check all that apply.
	Oil field activities	\boxtimes	Urban runoff
\boxtimes	Upstream discharges		Agricultural runoff
12/2 (C-201-)	Septic tanks		Other(s), specify
B. Waterbody uses			
Observ	ed or evidences of the follow	ing u	ses. Check all that apply.
	Livestock watering		Contact recreation
	Irrigation withdrawal		Non-contact recreation
	Fishing		Navigation

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	Domestic water supply		Industrial water supply		
	Park activities	O	Other(s), specify		
alle de la constante de la con					
c. v	Vaterbody aesthetics				
Check one of the following that best describes the aesthetics of the receiving water and the surrounding area.					
	Wilderness: outstanding nat area; water clarity exception		beauty; usually wooded or unpastured		
	Natural Area: trees and/or native vegetation; some development evident (from fields, pastures, dwellings); water clarity discolored				
	Common Setting: not offende be colored or turbid	sive;	developed but uncluttered; water may		
	Offensive: stream does not developed; dumping areas;		ance aesthetics; cluttered; highly er discolored		

DOMESTIC WORKSHEET 2.1

STREAM PHYSICAL CHARACTERISTICS

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

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

Section 1. Gener	ral Information (Instructions Page 75)
Date of study:	Time of study:
Stream name:	
Location:	
Type of stream upstream discharge (check one). Perennia	of existing discharge or downstream of proposed
Section 2. Data Collection	ction (Instructions Page 75)
Number of stream bends	that are well defined:
Number of stream bends	that are moderately defined:
Number of stream bends	that are poorly defined:
Number of riffles:	
Evidence of flow fluctuat	ions (check one):
□ Minor	□ moderate □ severe
Indicate the observed struction/n	eam uses and if there is evidence of flow fluctuations nodification.
Stream transects	

Stream transects

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

Table 2.1(1) - Stream Transect Records

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

Section 3. Summarize Measurements (Instructions Page 76)

Streambed slope of entire reach, from USGS map in feet/feet:

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

Length of stream evaluated, in feet:

Number of lateral transects made:

Average stream width, in feet:

Average stream depth, in feet:

Average stream velocity, in feet/second:

Instantaneous stream flow, in cubic feet/second:

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

Size of pools (large, small, moderate, none):

Maximum pool depth, in feet:

DOMESTIC WORKSHEET 3.0

LAND DISPOSAL OF EFFLUENT

The following is required for all permit applications Renewal, New, and Amendments

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

ident	ify the method of land dispos	sal:			
	Surface application		Subsurface application		
	Irrigation		Subsurface soils absorption		
	Drip irrigation system		Subsurface area drip dispersal system		
	Evaporation				
	Evapotranspiration beds				
	Other (describe in detail):				
	NOTE: All applicants without authorization or proposing new/amended subsurface disposal MUST complete and submit Worksheet 7.0.				
For existing authorizations, provide Registration Number:					

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

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

Table 3.0(1) - Land Application Site Crops

Irrigation	Effluent	Public
Area	Application	Access?
(acres)	(GPD)	Y/N
	Area	Area Application

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

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

Table 3.0(2) - Storage and Evaporation Ponds

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

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

Attachment:

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

Is the land application site within the 100-year frequency flood level?	
Yes □ No □	
If yes, describe how the site will be protected from inundation.	

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



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

Section 5. Annual Cropping Plan (Instructions Page 77)

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

Attachment:

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

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

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

Attachment:

- The boundaries of the land application site(s)
- Waste disposal or treatment facility site(s)

- On-site buildings
- Buffer zones
- Effluent storage and tailwater control facilities
- All water wells within 1 mile of the disposal site or property boundaries
- All springs and seeps onsite and within 500 feet of the property boundaries
- All surface waters in the state onsite and within 500 feet of the property boundaries
- All faults and sinkholes onsite and within 500 feet of the property

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

Table 3.0(3) - Water Well Data

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

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

Attachment:

Section 7. Groundwater Quality (Instructions Page 79)

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



Indicate by a check mark that this report is provided.
Attachment:
Are groundwater monitoring wells available onsite? Yes \square No \square
Do you plan to install ground water monitoring wells or lysimeters around the land application site? Yes \square No \square
If yes , then provide the proposed location of the monitoring wells or lysimeters on a site map.
Attachment:
Section 8. Soil Map and Soil Analyses (Instructions Page 79)
A. Soil map
Attach a USDA Soil Survey map that shows the area to be used for effluent disposal.
Attachment:
B. Soil analyses
Attach the laboratory results sheets from the soil analyses. Note : for renewal applications, the current annual soil analyses required by the permit are acceptable as long as the test date is less than one year prior to the submission of the application.
Attachment:
List all USDA designated soil series on the proposed land application site. Attach additional pages as necessary.

Table 3.0(4) - Soil Data

Soil Series	Depth from Surface	Permeability	Available Water Capacity	Curve Number

	Depth		Available	Curve
Soil Series	from	Permeability	Water	Number
	Surface		Capacity	

Section 9. Effluent Monitoring Data (Instructions Page 80)

Is	the	facility	in	operation?
		Yes □		No 🗆

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

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

Table 3.0(5) - Effluent Monitoring Data

Date	30 Day Avg Flow MGD	BOD ₅	TSS mg/l	рН	Chlorine Residual mg/l	Acres irrigated

Date	30 Day Avg Flow MGD	BOD ₅ mg/l	TSS mg/l	рН	Chlorine Residual mg/l	Acres irrigated
				·		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
				·		

	C	11•	h h		_1	rmitted limits ar

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

DOMESTIC WORKSHEET 3.1

SURFACE LAND DISPOSAL OF EFFLUENT

The following is required for new and major amendment applications.

Renewal and minor amendments applicants may be asked for the worksheet on a case by case basis.

Section 1. Surface Disposal (Instructions Page 81)

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

A. Irrigation				
Area under irrigation, in acres:				
Design application frequency:				
hours/day And days/week				
Thurst week and the second of				
Land grade (slope):				
average percent (%):				
maximum percent (%):				
Design application rate in acre-feet/acre/year:				
Design total nitrogen loading rate, in lbs N/acre/year:				
Soil conductivity (mmhos/cm):				
Method of application:				
Attach a separate engineering report with the water balance and storage volume calculations, method of application, irrigation efficiency, and				

Attachment:

B. Evaporation ponds

nitrogen balance.

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

volume calculations.			
Attachment:			
C. Evapotranspiration beds			
Number of beds:			
Area of bed(s), in acres:			
Depth of bed(s), in feet:			
Void ratio of soil in the beds:			
Storage volume within the beds, in acre-feet:			
Attach a separate engineering report with the water balance and storage volume calculations, and a description of the lining. Attachment:			
D. Overland flow			
Area used for application, in acres:			
Slopes for application area, percent (%):			
Design application rate, in gpm/foot of slope width:			
Slope length, in feet:			
Design BOD ₅ loading rate, in lbs BOD ₅ /acre/day:			
Design application frequency:			
hours/day: And days/week:			
Attach a separate engineering report with the method of application and design requirements according to <i>30 TAC Chapter 217</i> . Attachment:			
ection 2. Edwards Aquifer (Instructions Page 82)			
Is the facility subject to <i>30 TAC Chapter 213</i> , Edwards Aquifer Rules? Yes No			

If yes, attach a report concerning the recharge zone.

Attachment:

DOMESTIC WORKSHEET 3.2

SUBSURFACE LAND DISPOSAL OF EFFLUENT

The following is required for new and major amendment applications.

Renewal and minor amendments may require the worksheet on a case by case basis.

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

Section 1. Subsurface Application (Instructions Page 83)

Identify the type of system:				
Conventional Gravity Drainfield, Beds, or Trenches (new systems				
must be less than 5,000 GPD)				
☐ Low Pressure Dosing				
□ Other, specify:				
Application area, in acres:				
Area of drainfield, in square feet:				
Application rate, in gal/square foot/day:				
Depth to groundwater, in feet:				
Area of trench, in square feet:				
Dosing duration per area, in hours:				
Number of beds:				
Dosing amount per area, in inches/day:				
Infiltration rate, in inches/hour:				
Storage volume, in gallons:				
Area of bed(s), in square feet:				

Soil Classification:

Attach a separate engineering report with the information required in *30*TAC § 309.20, excluding the requirements of § 309.20 b(3)(A) and (B) design

TAC § 309.20, excluding the requirements of § 309.20 b(3)(A) and (B) design analysis which may be asked for on a case by case basis. Include a description of the schedule of dosing basin rotation.

Attachment:	n en

Section 2. Edwards Aquifer (Instructions Page 83)

Is the subsurface sy	stem located on the Edwards Aquifer Recharge Zone as
mapped by the TCE	
Yes 🗆	No E
mapped by the TCF	
Yes 🗀	No 🗆

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

DOMESTIC WORKSHEET 3.3

SUBSURFACE AREA DRIP DISPERSAL SYSTEM (SADDS) LAND DISPOSAL **OF EFFLUENT**

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

NOTE: All applicants proposing new or amended subsurface disposal

	MUST complete and submit Worksheet 7.0. This worksheet applies to any subsurface disposal system that meets the definition of a subsurface area drip dispersal system as defined in 30 TAC Chapter 222, Subsurface Area Drip Dispersal System.
Se	ction 1. Administrative Information (Instructions Page 84)
Α.	Provide the legal name of all corporations or other business entities managed, owned, or otherwise closely related to the owner of the treatment facility.
В.	Is the owner of the land where the treatment facility is located the same as the owner of the treatment facility? Yes \square No \square
	If no , provide the legal name of all corporations or other business entities managed, owned, or otherwise closely related to the owner of the land where the treatment facility is located.
C.	Owner of the subsurface area drip dispersal system:
D.	Is the owner of the subsurface area drip dispersal system the same as the owner of the wastewater treatment facility or the site where the wastewater treatment facility is located? Yes \square No \square
	If no , identify the names of all corporations or other business entities managed, owned, or otherwise closely related to the entity identified in Item 1.C.

E.	Owner of the land where the subsurface area drip dispersal system is located:
F.	Is the owner of the land where the subsurface area drip dispersal system is located the same as owner of the wastewater treatment facility, the site where the wastewater treatment facility is located, or the owner of the subsurface area drip dispersal system?
	Yes 🔲 No 🗆
	If no , identify the name of all corporations or other business entities managed, owned, or otherwise closely related to the entity identified in item 1.E.
Se	ction 2. Subsurface Area Drip Dispersal System (Instructions Page 84)
	A. Type of system
	☐ Subsurface Drip Irrigation
	□ Surface Drip Irrigation
	□ Other, specify:
	B. Irrigation operations
	Application area, in acres:
	Infiltration Rate, in inches/hour:
	Average slope of the application area, percent (%):
	Maximum slope of the application area, percent (%):
	Storage volume, in gallons:
	Major soil series:
	Depth to groundwater, in feet:
	C. Application rate
	Is the facility located west of the boundary shown in <i>30 TAC § 222.83</i> and also using a vegetative cover of non-native grasses over seeded with cool

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season grasses during the winter months (October-March)? Yes \square No \square
If yes, then the facility may propose a hydraulic application rate not to exceed $0.1~{\rm gal/square~foot/day}$.
Is the facility located east of the boundary shown in <i>30 TAC § 222.83</i> or in any part of the state when the vegetative cover is any crop other than non-native grasses?
Yes No No
If yes , the facility must use the formula in <i>30 TAC §222.83</i> to calculate the maximum hydraulic application rate.
Do you plan to submit an alternative method to calculate the hydraulic application rate for approval by the executive director? Yes No No
Hydraulic application rate, in gal/square foot/day:
Nitrogen application rate, in lbs/gal/day:
D. Dosing information
Number of doses per day:
Dosing duration per area, in hours:
Rest period between doses, in hours:
Dosing amount per area, in inches/day:
Number of zones:
Does the proposed subsurface drip irrigation system use tree vegetative cover as a crop?
Yes 🖸 No 🗓
If yes , provide a vegetation survey by a certified arborist. Please call the Water Quality Assessment Team at (512) 239-4671 to schedule a preapplication meeting.
Attachment:

Section 3. Required Plans (Instructions Page 84)

A. Recharge feature plan

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

Attachment:

B. Soil evaluation

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

Attachment:

C. Site preparation plan

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

Attachment:

D. Soil sampling/testing

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

Attachment:

Section 4. Floodway Designation (Instructions Page 85)

A. Site location

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

Yes □ No □

B. Flood map

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

Attachment:

Section 5. Surface Waters in the State (Instructions Page 85)

A. Buffer Map

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

	Attachment:
	B. Buffer variance request
	Do you plan to request a buffer variance from water wells or waters in the
	state?
	Yes No D
	If yes, then attach the additional information required in 30 TAC § 222.81(c).
	Attachment:
Se	ection 6. Edwards Aquifer (Instructions Page 85)
Α.	Is the SADDS located on the Edwards Aquifer Recharge Zone as mapped by the TCEQ?
	Yes No D
В.	Is the SADDS located on the Edwards Aquifer Transition Zone as mapped by the TCEQ?
	Yes No I
	If yes to either question, then the SADDS may be prohibited by <i>30 TAC §213.8</i> . Please call the Municipal Permits Team at 512-239-4671 to schedule a pre-application meeting.

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DOMESTIC WORKSHEET 4.0

POLLUTANT ANALYSES REQUIREMENTS*

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

This worksheet is not required for minor amendments without renewal

Section 1. Toxic Pollutants (Instructions Page 87)

For pollutants iden	tified in Table $4.0(1)$, indicate the type of sample.
Grab ⊠	Composite □
Date and time sam	ole(s) collected:

Table 4.0(1) - Toxics Analysis

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

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (μg/l)	Number of Samples	MAL (μg/l)
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
Chloroform				10
Chlorpyrifos				0.05
Chromium (Total)				3
Chromium (Tri) (*1)				N/A
Chromium (Hex)				3
Copper				2
Chrysene				5
p-Chloro-m-Cresol				10
4,6-Dinitro-o-Cresol				50
p-Cresol				10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (μg/l)	Number of Samples	MAL (μg/l)
Cyanide (*2)				10
4,4'- DDD				0.1
4,4'- DDE				0.1
4,4'- DDT				0.02
2,4-D				0.7
Demeton (O and S)				0.20
Diazinon		APRIL 1970, A.		0.5/0.1
1,2-Dibromoethane				10
m-Dichlorobenzene				10
o-Dichlorobenzene				10
p-Dichlorobenzene				10
3,3'-Dichlorobenzidine				5
1,2-Dichloroethane				10
1,1-Dichloroethylene				10
Dichloromethane				20
1,2-Dichloropropane				10
1,3-Dichloropropene				10
Dicofol				1
Dieldrin				0.02
2,4-Dimethylphenol				10
Di-n-Butyl Phthalate				10

	AVG	MAX	Number	
Pallintant	Effluent	Effluent		MAL
Pollutant	Conc.	Conc.	of	(μg/l)
	(μg/l)	(μg/l)	Samples	
Diuron				0.09
Endosulfan I (alpha)				0.01
Endosulfan II (beta)				0.02
Endosulfan Sulfate				0.1
Endrin				0.02
Ethylbenzene				10
Fluoride				500
Guthion			:	0.1
Heptachlor				0.01
Heptachlor Epoxide				0.01
Hexachlorobenzene				5
Hexachlorobutadiene				10
Hexachlorocyclohexane (alpha)				0.05
Hexachlorocyclohexane (beta)				0.05
gamma-Hexachlorocyclohexane		***************************************		0.05
(Lindane)				
Hexachlorocyclopentadiene				10
Hexachloroethane				20
Hexachlorophene				10
Lead				0.5
Malathion				0.1

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (μg/l)
Mercury				0.005
Methoxychlor				2
Methyl Ethyl Ketone				50
Mirex				0.02
Nickel				2
Nitrate-Nitrogen	:			100
Nitrobenzene				10
N-Nitrosodiethylamine				20
N-Nitroso-di-n-Butylamine				20
Nonylphenol				333
Parathion (ethyl)				0.1
Pentachlorobenzene				20
Pentachlorophenol				5
Phenanthrene				10
Polychlorinated Biphenyls (PCB's) (*3)				0.2
Pyridine				20
Selenium				5
Silver				0.5
1,2,4,5-Tetrachlorobenzene				20
1,1,2,2-Tetrachloroethane				10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (μg/l)	Number of Samples	MAL (μg/l)
Tetrachloroethylene				10
Thallium				0.5
Toluene				10
Toxaphene				0.3
2,4,5-TP (Silvex)				0.3
Tributyltin (see instructions for explanation)				0.01
1,1,1-Trichloroethane				10
1,1,2-Trichloroethane				10
Trichloroethylene				10
2,4,5-Trichlorophenol				50
TTHM (Total Trihalomethanes)				10
Vinyl Chloride				10
Zinc				5

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

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

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

Section 2. Priority Pollutants

For pollutants identi	fied in Tables	4.0(2)A-E, indicate type of sample	. •
Grab 🗆	Composite \Box		
Date and time sampl	e(s) collected:		

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

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (μg/l)
Antimony				5
Arsenic				0.5
Beryllium				0.5
Cadmium				1
Chromium (Total)				3
Chromium (Hex)				3
Chromium (Tri) (*1)				N/A
Copper				2
Lead				0.5
Mercury				0.005
Nickel		- 1-77 Survival Country of Country State Coun		2
Selenium				5
Silver				0.5
Thallium				0.5
Zinc			VALUE AND	5
Cyanide (*2)				10
Phenols, Total				10

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

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

Table 4.0(2)B - Volatile Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (μg/l)
Acrolein		The state of the s		50
Acrylonitrile				50
Benzene				10
Bromoform				10
Carbon Tetrachloride				2
Chlorobenzene				10
Chlorodibromomethane				10
Chloroethane				50
2-Chloroethylvinyl Ether				10
Chloroform				10
Dichlorobromomethane				
[Bromodichloromethane]				10
1,1-Dichloroethane				10
1,2-Dichloroethane				10
1,1-Dichloroethylene				10
1,2-Dichloropropane				10
1,3-Dichloropropylene				
[1,3-Dichloropropene]				10
1,2-Trans-Dichloroethylene				10
Ethylbenzene				10
Methyl Bromide				50
Methyl Chloride				50
Methylene Chloride				20
1,1,2,2-Tetrachloroethane				10
Tetrachloroethylene				10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Toluene				10
1,1,1-Trichloroethane				10
1,1,2-Trichloroethane				10
Trichloroethylene	***************************************			10
Vinyl Chloride				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				10
2,4-Dichlorophenol				10
2,4-Dimethylphenol				10
4,6-Dinitro-o-Cresol				50
2,4-Dinitrophenol				50
2-Nitrophenol				20
4-Nitrophenol				50
P-Chloro-m-Cresol				10
Pentalchlorophenol				5
Phenol				10
2,4,6-Trichlorophenol				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				10
Acenaphthylene				10
Anthracene				10
Benzidine				50
Benzo(a)Anthracene				5
Benzo(a)Pyrene				5
3,4-Benzofluoranthene				10
Benzo(ghi)Perylene				20
Benzo(k)Fluoranthene				5
Bis(2-Chloroethoxy)Methane				10
Bis(2-Chloroethyl)Ether				10
Bis(2-Chloroisopropyl)Ether				10
Bis(2-Ethylhexyl)Phthalate				10
4-Bromophenyl Phenyl Ether		The state of the s		10
Butyl benzyl Phthalate				10
2-Chloronaphthalene				10
4-Chlorophenyl phenyl ether				10
Chrysene				5
Dibenzo(a,h)Anthracene				5
1,2-(o)Dichlorobenzene				10
1,3-(m)Dichlorobenzene				10
1,4-(p)Dichlorobenzene				10
3,3-Dichlorobenzidine				5
Diethyl Phthalate				10
Dimethyl Phthalate				10

Pollutant	AVG Effluent Conc.	MAX Effluent Conc.	Number of	MAL (µg/l)
	(μg/l)	(μg/l)	Samples	(F6/ ² /
Di-n-Butyl Phthalate				10
2,4-Dinitrotoluene				10
2,6-Dinitrotoluene				10
Di-n-Octyl Phthalate				10
1,2-Diphenylhydrazine (as Azo-				
benzene)				20
Fluoranthene				10
Fluorene				10
Hexachlorobenzene				5
Hexachlorobutadiene				10
Hexachlorocyclo-pentadiene				10
Hexachloroethane				20
Indeno(1,2,3-cd)pyrene				5
Isophorone		11 1		10
Naphthalene				10
Nitrobenzene				10
N-Nitrosodimethylamine				50
N-Nitrosodi-n-Propylamine				20
N-Nitrosodiphenylamine				20
Phenanthrene				10
Pyrene				10
1,2,4-Trichlorobenzene				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
alpha-BHC				
(Hexachlorocyclohexane)				0.05
beta-BHC				
(Hexachlorocyclohexane)				0.05
gamma-BHC				
(Hexachlorocyclohexane)				0.05
delta-BHC				WIN
(Hexachlorocyclohexane)				0.05
Chlordane				0.2
4,4-DDT				0.02
4,4-DDE				0.1
4,4,-DDD				0.1
Dieldrin				0.02
Endosulfan I (alpha)				0.01
Endosulfan II (beta)				0.02
Endosulfan Sulfate				0.1
Endrin				0.02
Endrin Aldehyde				0.1
Heptachlor				0.01
Heptachlor Epoxide				0.01
PCB-1242				0.2
PCB-1254				0.2
PCB-1221		<u> </u>		0.2
PCB-1232				0.2

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
PCB-1248				0.2
PCB-1260				0.2
PCB-1016			4	0.2
Toxaphene				0.3

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

Section 3. Dioxin/Furan Compounds

Indicate which of the following compounds from may be present in the influent from a contributing industrial user or significant industrial user. Check all that apply.
2,4,5-trichlorophenoxy acetic acid Common Name 2,4,5-T, CASRN 93-76-5
2-(2,4,5-trichlorophenoxy) propanoic acid Common Name Silvex or 2,4,5-TP, CASRN 93-72-1
2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate Common Name Erbon, CASRN 136-25-4
0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate Common Name Ronnel, CASRN 299-84-3
2,4,5-trichlorophenol Common Name TCP, CASRN 95-95-4
hexachlorophene Common Name HCP, CASRN 70-30-4
For each compound identified, provide a brief description of the conditions of its/their presence at the facility.

B. Do you know or have any reason to believe that 2,3,7,8 Tetrachlorodibenzo-P-Dioxin (TCDD) or any congeners of TCDD may be present in your effluent?						
Yes 🗆 No 🗆						
If yes , provide a brief description of the conditions for its presence.						
If any of the compounds in Subsection A or B are present, complete Table $4.0(2)$ F.						
For pollutants identified in Table 4.0(2)F, indicate the type of sample.						
Grab Composite C						
Date and time sample(s) collected:						

TABLE 4.0(2)F - DIOXIN/FURAN COMPOUNDS

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

Compound	Toxic Equivalency Factors	Wastewater Concentration (ppq)	Wastewater Equivalents (ppq)	Sludge Concentration (ppt)	Sludge Equivalents (ppt)	MAL (ppq)
PCB 126	0.1					0.5
PCB 169	0.03					0.5
Total						

DOMESTIC WORKSHEET 5.0

TOXICITY TESTING REQUIREMENTS

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

Section 1. Required Tests (Instructions Page 97)

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

7-day Chronic:
48-hour Acute:
Section 2. Toxicity Reduction Evaluations (TREs)
Has this facility completed a TRE in the past four and a half years? Or is the facility currently performing a TRE?
Yes 🗆 No 🗆
If yes, describe the progress to date, if applicable, in identifying and confirming the toxicant.

Section 3. Summary of WET Tests

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

Table 5.0(1) - Summary of WET Tests

Tost Date	Test Cassins	NOTE C	NOEC Sub-
Test Date	Test Species	NOEC Survival	lethal
		-	
	:		

DOMESTIC WORKSHEET 6.0

INDUSTRIAL WASTE CONTRIBUTION

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

Section 1. All POTWs (Instructions Page 99)

A. Industrial users

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

If there are no users, enter 0 (zero).
Categorical IUs:
Number of IUs: <u>0</u>
Average Daily Flows, in MGD:
Significant IUs – non-categorical:
Number of IUs: <u>0</u>
Average Daily Flows, in MGD:
Other IUs:
Number of IUs: <u>0</u>
Average Daily Flows, in MGD:
B. Treatment plant interference In the past three years, has your POTW experienced treatment plant interference (see instructions)? Yes No No If yes, identify the dates, duration, description of interference, and probable cause(s) and possible source(s) of each interference event. Include the names of the IUs that may have caused the interference.

C. Treatment plant pass through
In the past three years, has your POTW experienced pass through (see instructions)?
Yes 🗓 No 🗓
If yes, identify the dates, duration, a description of the pollutants passing through the treatment plant, and probable cause(s) and possible source(s) of each pass through event. Include the names of the IUs that may have caused pass through.
D. Pretreatment program
Does your POTW have an approved pretreatment program? Yes \square No \boxtimes
If yes, complete Section 2 only of this Worksheet.
Is your POTW required to develop an approved pretreatment program? Yes \square No \square
If yes, complete Section 2.c. and 2.d. only, and skip Section 3.
If no to either question above , skip Section 2 and complete Section 3 for each significant industrial user and categorical industrial user.
Section 2. POTWs with Approved Programs or Those Required to Develop a Program (Instructions Page 100)
A. Substantial modifications
Have there been any substantial modifications to the approved pretreatment program that have not been submitted to the TCEQ for approval according to 40 CFR §403.18?
Yes □ No □
If yes, identify the modifications that have not been submitted to TCEQ, including the purpose of the modification.

B. Non-substantial modifications
Have there been any non-substantial modifications to the approved pretreatment program that have not been submitted to TCEQ for review and acceptance?
Yes 🗆 No 🗉
If yes, identify all non-substantial modifications that have not been submitted to TCEQ, including the purpose of the modification.
C. Effluent parameters above the MAL
In Table 6.0(1), list all parameters measured above the MAL in the POTW's

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

Table 6.0(1) - Parameters Above the MAL

Pollutant	Concentration	MAL	Units	Date

D. Industrial us	er interruptions
- · · · · · · · · · · · · · · · · · · ·	r other IU caused or contributed to any problems (excluding ss throughs) at your POTW in the past three years?
Yes 🗆	No lineage
	industry, describe each episode, including dates, duration, problems, and probable pollutants.
	icant Industrial User (SIU) Information and l Industrial User (CIU) (Instructions Page 100)
Help of Machine and Help representation of the Control of the Cont	
A. General info	rmation - https://www.communicality.com/
Company Name:	
Telephone number:	Fax number:
Contact name:	
City, State, and Zip	Code:
B. Process info	rmation
	trial processes or other activities that affect or contribute to discharge (i.e., process and non-process wastewater).

C. Product and service information

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

D. Flow rate information	
ee the Instructions for definitions of "process" and "non-process wastewate	er."
rocess Wastewater:	
Discharge, in gallons/day:	
Discharge Type: \square Continuous \square Batch \square Intermitte	nt
Ion-Process Wastewater:	
Discharge, in gallons/day:	
Discharge Type: Continuous Batch Intermitte	nt
E. Pretreatment standards	
s the SIU or CIU subject to technically based local limits as defined in the astructions?	
Yes No 🖺	
is the SIU or CIU subject to categorical pretreatment standards found in $40\mathrm{G}$	CFR
Yes 🗆 No 🗖	
f subject to categorical pretreatment standards , indicate the applicable ategory and subcategory for each categorical process.	
Category: Subcategories:	
Category: Subcategories:	
Category: Subcategories:	
Category: Subcategories:	
Category: Subcategories:	

F. Industrial user interruptions Has the SIU or CIU caused or contributed to any problems (e.g., interferences, pass through, odors, corrosion, blockages) at your POTW in the past three years? Yes \square No \square

Yes No II

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

WORKSHEET 7.0

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY CLASS V INJECTION WELL INVENTORY/AUTHORIZATION FORM

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

For TCEQ Us	e Only
Reg. No	
Date Received	1
Date Authoriz	zed

Section 1. General Information (Instructions Page 102)

1.	TCEQ Program Area
	Program Area (PST, VCP, IHW, etc.):
	Program ID:
	Contact Name:
	Phone Number:
2.	Agent/Consultant Contact Information
	Contact Name:
	Address:
	City, State, and Zip Code:
	Phone Number:
3.	Owner/Operator Contact Information
	Owner Operator
	Owner/Operator Name:
	Contact Name:
	Address:
	City, State, and Zip Code:
	Phone Number:
4.	Facility Contact Information
	Facility Name:

	Address:		
	City, S	tate, and Zip Code:	
	Location	on description (if no address is available):	
	Facility Contact Person:		
	Phone	Number:	
5.	Latitud	de and Longitude, in degrees-minutes-seconds	
	Latitud	le: Longitude:	
	Metho	d of determination (GPS, TOPO, etc.):	
	Attach	topographic quadrangle map as attachment A.	
6.	Well In	iformation	
	Type o	of Well Construction, select one:	
	7 x x 3/2 A	Vertical Injection	
		Subsurface Fluid Distribution System	
		Infiltration Gallery	
		Temporary Injection Points	
		Other, Specify:	
	Numbe	er of Injection Wells:	
7.	7. Purpose		
Detailed Description regarding purpose of Injection System:			
	Attach	a Site Map as Attachment B (Attach the Approved Remediation Plan,	
		ropriate.)	
8.	Water	Well Driller/Installer	
Water Well Driller/Installer Name: City, State, and Zip Code:			

License Number:	

Section 2. Proposed Down Hole Design

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

Table 7.0(1) -Down Hole Design Table

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

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

Attach a diagram signed and sealed by a licensed engineer as Attachment D. System(s) Dimensions:	
System(s) Construction:	

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Se	ection 4. Site Hydrogeological and Injection Zone Data
1.	Name of Contaminated Aquifer:
2.	Receiving Formation Name of Injection Zone:
3.	Well/Trench Total Depth:
4.	Surface Elevation:
5.	Depth to Ground Water:
6.	Injection Zone Depth:
7.	Injection Zone vertically isolated geologically? Yes \square No \square
	Impervious Strata between Injection Zone and nearest Underground
	Source of Drinking Water:
	Name:
	Thickness:

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

Attach as Attachment E.

- **9.** Horizontal and Vertical extent of contamination and injection plume Attach as Attachment F.
- 10. Formation (Injection Zone) Water Chemistry (Background levels) TDS, etc.
 Attach as Attachment G.
- 11. Injection Fluid Chemistry in PPM at point of injection Attach as Attachment H.
- 12. Lowest Known Depth of Ground Water with < 10,000 PPM TDS:
- 13. Maximum injection Rate/Volume/Pressure:
- **14.** Water wells within 1/4 mile radius (attach map as Attachment I):
- **15.** Injection wells within 1/4 mile radius (attach map as Attachment J):
- **16.** Monitor wells within 1/4 mile radius (attach drillers logs and map as Attachment K):
- 17. Sampling frequency:
- 18. Known hazardous components in injection fluid:

Section 5. Site History

- **1.** Type of Facility:
- 2. Contamination Dates:
- 3. Original Contamination (VOCs, TPH, BTEX, etc.) and Concentrations (attach as Attachment L):
- 4. Previous Remediation:

Attach results of any previous remediation as attachment M

NOTE: Authorization Form should be completed in detail and authorization given by the TCEQ before construction, operation, and/or conversion can

begin. Attach additional pages as necessary.

Class V Injection Well Designations

5A07	Heat Pump/AC return (IW used for groundwater to heat and/or cool buildings)
5A19	Industrial Cooling Water Return Flow (IW used to cool industrial process
JAIJ	equipment)
5B22	Salt Water Intrusion Barrier (IW used to inject fluids to prevent the intrusion
<i>J</i> J J L L	of salt water into an aquifer)
5D02	Storm Water Drainage (IW designed for the disposal of rain water)
5D02	Industrial Stormwater Drainage Wells (IW designed for the disposal of rain
3501	water associated with industrial facilities)
5F01	Agricultural Drainage (IW that receive agricultural runoff)
5R21	Aquifer Recharge (IW used to inject fluids to recharge an aquifer)
5S23	Subsidence Control Wells (IW used to control land subsidence caused by
00-0	ground water withdrawal)
5W09	Untreated Sewage
5W10	Large Capacity Cesspools (Cesspools that are designed for 5,000 gpd or
	greater)
5W11	Large Capacity Septic systems (Septic systems designed for 5,000 gpd or
	greater)
5W12	WTTP disposal
5W20	Industrial Process Waste Disposal Wells
5W31	Septic System (Well Disposal method)
5W32	Septic System Drainfield Disposal
5X13	Mine Backfill (IW used to control subsidence, dispose of mining byproducts,
	and/or fill sections of a mine)
5X25	Experimental Wells (Pilot Test) (IW used to test new technologies or tracer
	dye studies)
5X26	Aquifer Remediation (IW used to clean up, treat, or prevent contamination of
	a USDW)
5X27	Other Wells
5X28	Motor Vehicle Waste Disposal Wells (IW used to dispose of waste from a
	motor vehicle site - These are currently banned)
5X29	Abandoned Drinking Water Wells (waste disposal)
-	

Attachment A: Core Data Form

Attachment B: Site Drawing

Attachment C: Flow Diagram

Attachment D: Original USGS Map

Attachment E: Copy of the Check

Attachment F: Lab Reports

Attachment A

Core Data Form



TCEQ Core Data Form

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

SECTION I: General Information

-		ation or Authorization			**************************************	with the pi	-	application.)				
	(Core Data	Form should be subm.	itted with the re	newal form,)		Other					
2. Customer Reference Number (if issued)				Follow this link to searc								
CN 6005209	969				Registry**		RN 101607943					
ECTIO	N II:	Customer	Inform	<u>natior</u>	1	1						
1. General C	ustomer l	nformation	5. Effective	Date for C	ustomer	Informatio	n Upd	ates (mm/dd/	уууу)			
New Custo	mer		I Ipdate to Custor	mer Informa	ation	c	nange in	Regulated En	tity Own	ership		
Change in L	egal Name	(Verifiable with the Te	xas Secretary of	State or Tex	xas Compt	roller of Pul	olic Acco	ounts)				
		ubmitted here may oller of Public Accor		ıtomatica	lly based	on what i	curre	nt and active	with ti	he Texas Sec	cretary of State	
5. Customer	Legal Nan	ne (If an individual, pr	int last name firs	st: eg: Doe,	John)		<u>If n</u>	ew Customer,	enter pro	evious Custon	ner below:	
City of Weslace)			дей (жейницион тайтаа жейн төрүүчүлүү) жүүлгү								
7. TX SOS/CP	A Filing N	umber	8. TX State 1	8. TX State Tax ID (11 digits)				9. Federal Tax ID 10. DUNS Number (if				
nîlan a			17460025442				(9 ((9 digits)				
080071	01288						7	74-1002544				
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.2. Number	of Employ	ees	menen menemental et er eilet verveld eilden vir herrich verbehende menemen.	***************************************			13.	Independer	itly Ow	ned and Op	erated?	
⊠ 0-20 □:	21-100 [] 101-250 251-	500 🗌 501 a	and higher				Yes	⊠ No			
L4. Customer	Role (Pro	posed or Actual) – as i	t relates to the F	Regulated E	ntity listed	on this for	n. Pleas	e check one of	the follo	owing	A STATE OF THE STA	
Owner Occupation	al Licensee	Operator Responsible Pa		ner & Opera CP/BSA App		e. Juj., noje doblovištivoj viloje vilo dos dos adele		Other:				
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										has not engineering on the same engineering season		
18. Telephone Number 19. Extension o				on or Coc	20. Fax Number (if applicable)							

SECTION III: Regulated Entity Information

21. General Regulated Er	ntity Informa	ation (If 'New Reg	ulated Entity" is se	lected, a nev	permit applica	tion is also i	required.)		
New Regulated Entity	Update to	Regulated Entity I	Name 🔲 Updat	e to Regulate	ed Entity Inform	ation			
The Regulated Entity Nat as Inc, LP, or LLC).	me submitte	ed may be updat	ted, in order to m	neet TCEQ (Core Data Star	ndards (rei	noval of org	ganization	nal endings such
22. Regulated Entity Nan	ne (Enter nam	ne of the site where	e the regulated act	ion is taking	place.)				12010-0444410-044400-04440-0444
Weslaco North WWTP				······································					
23. Street Address of the Regulated Entity:	907 N. Airp	ort Dr.							
(No PO Boxes)		-	<u>1</u>			· · · · · · · · · · · · · · · · · · ·			T
(NO TO DONES)	City	Weslaco	State	TX	ZIP	78599		ZIP + 4	
24. County	Hidalgo								
		If no Stree	et Address is prov	vided, field	s 25-28 are re	quired.			
25. Description to	NI h	£ +		1000	C4-4- 11:-1	00		20 f N	
Physical Location:	Northeast o	i the city of westa	aco approximately a	tood east of	State Highway 8	se and appro	oximately 400	oo reet Nort	th of Pike Boulevard
26. Nearest City State Nearest ZIP Code									
Weslaco	***************************************					TX		7859	99
								İ	
Latitude/Longitude are r used to supply coordinat	-	-	-			ırds. (Geoc	oding of the	e Physical	Address may be
	es where no	-	-	n accuracy				e Physical	-
used to supply coordinat	es where no	26.184877	-	n accuracy,		V) In Decin		·	-
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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

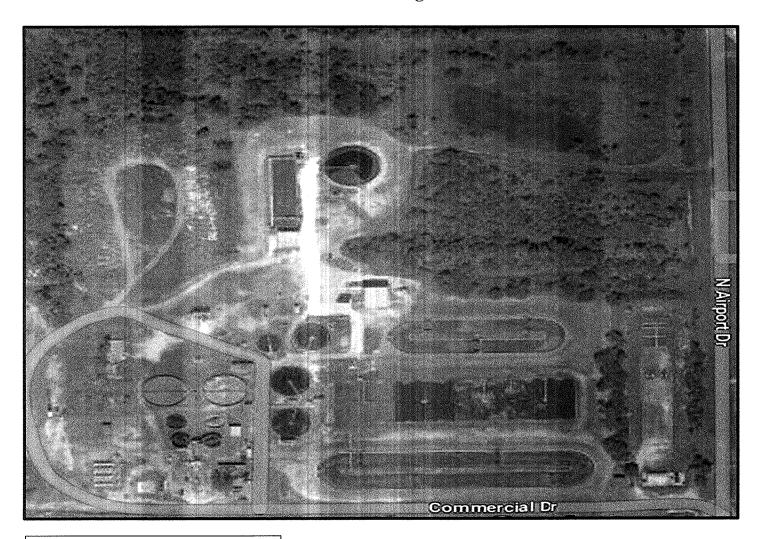
Dam Safety Districts		Districts	Edwards Aquifer		Emissions Inventory Air	☐ Industrial Hazardous Wast
Municipal Sol	id Waste	New Source Review Air	OSSF		Petroleum Storage Tank	PWS
Słudge		Storm Water	☐ Title V Air] Tires	Used Oil
☐ Voluntary Cleanup		⊠ Wastewater	☐ Wastewater Agric	ulture C] Water Rights	Other:
ECTION	IV: Pr	eparer Inf	<u>ormation</u>			
O. Name:	łani Said			41. Title:	Environmental Scientist	
2. Telephone N	umber	43. Ext./Code	44. Fax Number	45. E-Mail	Address	
	umber	43. Ext./Code	44. Fax Number	45. E-Mail Hani@rsbe		
2. Telephone N 832 } 291-3473 ECTION		43. Ext./Code thorized S	() -			
832) 291-3473 ECTION By my signature	V: Au	thorized S	() - ignature wledge, that the informat	Hani@rsber	nv.com	
ECTION By my signature ubmit this form of	V: Au	thorized S ,, to the best of my knor e entity specified in Sec	() - ignature wledge, that the informat	Hani@rsber	nv.com	
832 } 291-3473 ECTION By my signature	V: Au below, I certify on behalf of the	thorized S y, to the best of my knore entity specified in Sec	() - ignature wledge, that the informat	Hani@rsber ion provided in tequired for the u	nv.com this form is true and comple updates to the ID numbers ic	e, and that I have signature authorit entified in field 39.

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

Attachment B

Site Drawing

Site Drawing

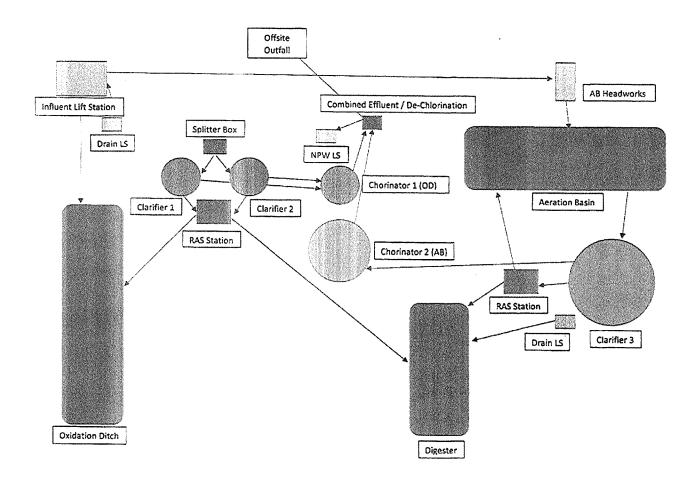


Wastewater permit renewal Permit No. WQ0010619003 City of Weslaco



Attachment C Flow Diagram

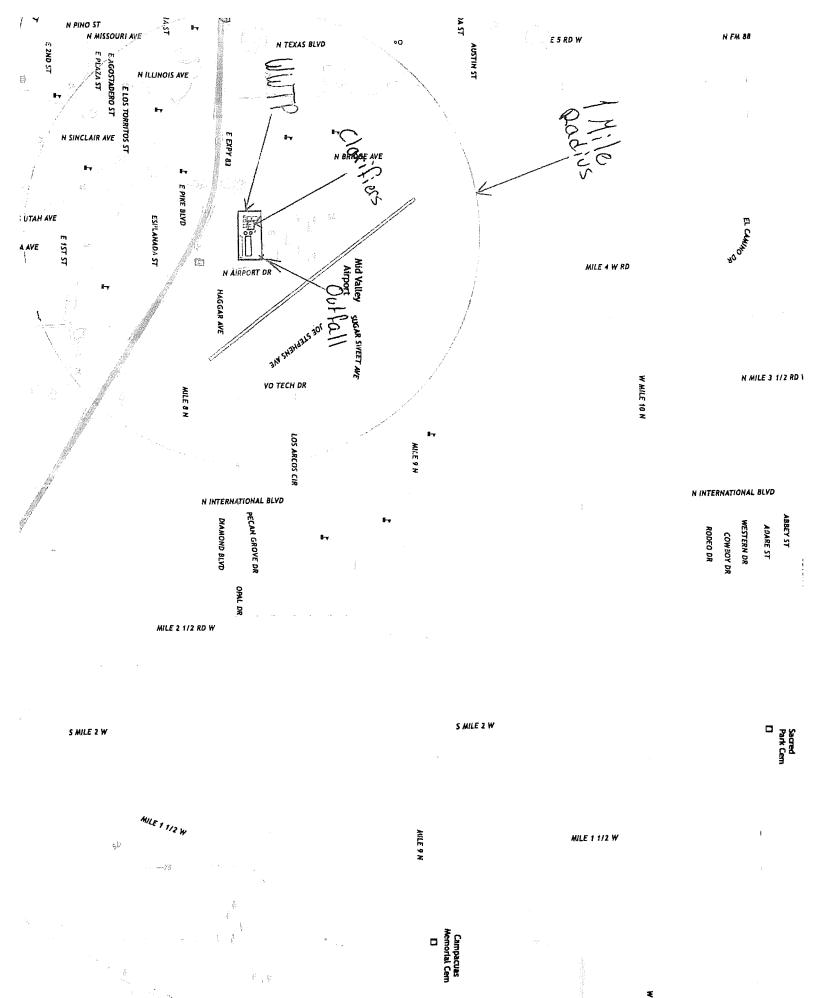
Process Flow Diagram



Wastewater permit renewal
Permit No. WQ0010619003
City of Weslaco

RSB
ENVIRONMENTAL

Attachment D
Original USGS Map



W MILE 10 N

Attachment F
Laboratory Report

POLLUTION CONTROL SERVICES



Report of Sample Analysis

Client Information	Sample Information	Laboratory Information				
Lucio Garza Inframark (Weslaco N) 2500 North Texas Blvd Weslaco, TX 78596	Project Name: Sample ID: Effluent Matrix: Non-Potable Water Date/Time Taken: 04/26/2023 0950	PCS Sample #: 718195 Page 1 of 1 Date/Time Received: 04/27/2023 10:10 Report Date: 05/03/2023 Approved by: Chuck Wallgren, President				

st Description	Result	Units	RL	Analysis Date/Time	Method	Analyst
Ammonia-N (ISE)	0.2	mg/L	0.1	04/28/2023 10:00	SM 4500-NH3 D	CRM
CBOD5	5	mg/L	2	04/27/2023 14:18	SM 5210 B	GTG/CMP
Total Suspended Solids	2	mg/L	1	04/27/2023 16:20	SM 2540 D	PML

	-	urance Summ	nary NAC	MCD	TICT	TOO	T CC T imit	Blank
ecision	Limit	<u> </u>	IVIS	MISD	UUL	<u>LUS</u>	TC2 CIMIT	DIALIK
<1	10	87	105	105	110	100	85 - 115	
10	23	N/A	N/A	N/A	N/A	193	167 - 228	
<1	10	N/A			N/A			
	ecision <1 10 <1	ecision Limít <1	ecision Limít LCL <1	<1 10 87 105 10 23 N/A N/A	ecision Limít LCL MS MSD <1	ecision Limít LCL MS MSD UCL <1	ecision Limít LCL MS MSD UCL LCS <1	ecision Limít LCL MS MSD UCL LCS LCS Limit <1

Quality Statement: All supporting quality data adhered to data quality objectives and test results meet the requirements of NELAC unless otherwise noted as flagged exceptions or in a case narrative attachment. Reports with full quality data deliverables are abailable on request.

These analytical results relate only to the sample tested.

All data is reported on an 'As Is' basis unless designated as 'Dry Wt'.

RL = Reporting Limits

QC Data Reported in %, Except BOD in mg/L

Web Site: www.pcslab.net eMail: chuck@pcslab.net

Toll Free 800-880-4616

1532 Universal City Blvd, Suite 100

210-340-0343

FAX # 210-658-7903

SERVICES CONTROL POLLUTION



Report of Sample Analysis

Client Information	Sample Information	Laboratory Information
Lucio Garza Inframark (Weslaco N) 2500 North Texas Blvd Weslaco, TX 78596	Project Name: Sample ID: Influent Matrix: Non-Potable Water Date/Time Taken: 04/25/2023 1500	PCS Sample #: 718196 Page 1 of 1 Date/Time Received: 04/27/2023 10:10 Report Date: 05/03/2023 Approved by:

Test Description	Result	Units	RL	Analy	sis Date/	Time	Metho	Analysis Date/Time Method	Analyst	A second
Ammonia-N (ISE)	51.0	mg/L	0.1	04/28	8/2023 10	:00	SM 4500	-NH3 D	CRM	
CBODS	302	mg/L	7	04/2	7/2023 14	:08	SM 5210	В	GTG/CMP	
Total Suspended Solids	246	mg/L	-	04/2	7/2023 16	:20	SM 2540	D	PML	

		0	uality Assurance Summary	ıary						
West Description	Precision	٦	CCL	MS	MSD	CC	CCS	UCL LCS LCS Limit	Blank	
Ammonia-N (ISE)	\	10	87	105	105	110	100	85 - 115		
CBODS	10	23	N/A	N/A	N/A	N/A	193	167 - 228		
Total Suspended Solids	⊽	10	N/A			N/A				

Quality Statement: All supporting quality data adhered to data quality objectives and test results meet the requirements of NELAC unless otherwise noted as flagged exceptions or in a case narrative attachment. Reports with full quality data deliverables are abailable on request.

These analytical results relate only to the sample tested. All data is reported on an 'As Is' basis unless designated as 'Dry Wt'. RL = Reporting Limits QC Data Reported in %, Except BOD in mg/L	
-	

Web Site: www.pcslab.net eMail: chuck@pcslab.net

Toll Free 800-880-4616

210-3

210-340-0343

FAX # 210-658-7903

1532 Universal City Blvd, Suite 100

POLLUTION CONTROL SERVICES

Chain of Custody Number
7 1 8 1 9 5

MULTIPLE SAMPL	E ANALY	SIS REQ	UES'	TAI	ND CHAIN	OF	CU	STODY FORM					Si	tamp I st	sami	ole and COC	as same num	nber
CUSTOMER INFORMA	ATION				REPORT	'INI	OR	MATION										
Name: Inframark, Weslaco	North WWI	P			Attention	; Luci	o Ga	rza		Pho	ne: (9	56) 96	3-3951		Fax	(\$		
SAMPLE INFORMATIO	N								Req	ueste	d Ans	lysis						
Project Information:			Collec	ted By	" Pablo Gonz	plc.	ſ									Instructions	Comments:	
					Matrix			Container]		8							
Report "Soils"	Vt.		lorine mg/L	b	DW-Drinking Water; NPW-Non-				88	ا ن	2/0	1.89C						
	Colle	cted	Chlorine ual mg/L	osite	potable water;	Туре	Number	Preservative] ;	8	125	1.8						,
Client / Field Sample ID	Date	Time	Field Chil Residual	Composite or Grab	WW-Wastewater; LW-Liquid Waste	T.	Nu		CBOD 1.89C	TSS 1.89C	NH3N 250/500	ZINC				PCS Sa	umple Num	ıber
No. art	Start: 4-25-23	Startion	,	⊠C	DW MNPW WW Soil	⊡ P □G		☐ H ₂ SO ₄ ☐ HNO ₃ D C ☐ H ₃ FO ₄ ☐ NaOH ☐ ICE ☐			0.0						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1
EFFLUENT	Equ: 24-23	Epdi DAM	NA	□G	☐ Sludge ☐ LW☐ Other	ОО	1				X					> □ B □ N □		
EFFLUENT	\$tart:25-73	198835 av	1	EC	DW INPW	□ P		H ₂ SO ₄ HNO ₃ O V H ₃ PO ₄ NaOH EICE C	00	00						17 1	8 1 9 5	7
EFFLUENI		EASTO AM	NA	D G	☐ Sludge ☐ LW ☐ Other	□ 0	1	1	X	X						OS OB ON C		
	\$4.22-73	Stattio an		СС	DW DNPW WW Soil	oil 🗖 G		☐ H₂SO₄ ☐ HNO₃ & U	1		XX					17:18	196	
INFLUENT	End: 25-23		N/A	23 G	☐ Sludge ☐ LW ☐ Other	D o	1	☐ H₃PO₄☐ NaOH ☐ ICE ☐ ☐ H•O	X	*	*					20 5 CIB CIN C	HEM Other:	
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	End:	End:		□ G	☐ Sludge ☐ LW☐ Other	□ 0		DICE D									HEM Other:	
	Start:	Start:		ロС	DW NPW	□P □G		☐ H ₂ SO ₄ ☐ HNO ₃ ☐ H ₃ PO ₄ ☐ NaOH										
	End:	End:	1	□ G	☐ Sludge ☐ LW ☐ Other	0		DICE D									IHEM Other:	
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	End:	End:	1	□G	Sludge LW	0		DICE D								OS OB ON C]HEM Other:	
	Start:	Start:	1	□С	DW NPW Soil	□P □G		☐ H ₂ SO ₄ ☐ HNO ₃ ☐ H ₃ PO ₄ ☐ NaOH										
	End:	End:		□G	☐ Sludge ☐ LW ☐ Other			ICE I				,				□S □B □N E	lHEM Other:	
Required Turnaround:	Routine (6-10 day	ys) <i>EXPEDI</i>	TE: (S	ee Sur	charge Schedule)	□・	< 8 H	rs. 🔲 < 16 Hrs. 🔲 < 24 Hr	rs. 🗆 5	days	Oth	<u> </u>	Rush	Charges .	Autho	rized by:		
Sample Archive/Disposal: [J. Laboratory Sta	andard 🗆 Hold	1 for cli	ent pic	k up C	ontai	ner I	ype: P = Plastic, G = Glass	,/0=	Other		/	Was Indiana		Ca	rrier ID:		
Relinquished By: PMW	Durales		Dat	e: 4	-26-23 Time	<u>1</u>		Received By:	r_		1/-	Af	/	Date	: 4	.26.23	Time: 11.72	234-
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Dan Malifata Paranta graph antecess:								1		-		- / \			-	_		

1532 Universal City Blvd., Ste. 100, Universal City, Texas 78148 P (210) 340-0343 or (800) 880-4616 - F (210) 658-7903

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Login at www.pcslab.net

TCEQ NELAP T104704361-TX



1. Select the 'Print' button to print 1 copy of each label.

2. The Return Shipment instructions, which provide your recipient with information on the returns process, will be printed with the label(s).

3. After printing, select your next step by clicking one of the displayed buttons.

Note: To review or print individual labels, select the Label button under each label image above.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx Service Guide apply. Your right to recover from FedEx Service Guide apply. Your right to recover declared value, Recovery cannot exceed actual documented direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$500, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

Pollution Control Services

Sample Log-In Checklist

718195

PCS Sample No(s) 7 1 8 1 9 5 7 1 8 1 9 6 COC No.
Client/Company Name: Weslaco North Checklist Completed by: LMW
Sample Delivery to Lab Via: Client Drop Off Commercial Carrier: Bus UPS Lone Star FedEx USPS PCS Field Services: Collection/Pick Up Other:
Sample Kit/Coolers Sample Kit/Coolers Sample Kit/Cooler: Not Present If Present, Intact Broken Sample Containers Intact; Unbroken and Not Leaking? Yes No Custody Seals on Sample Bottles: Not Present If Present, Intact Broken COC Present with Shipment or Delivery or Completed at Drop Off? Yes No Has COC sample date/time and other pertinent information been provided by client/sampler? Yes: No: Has COC been properly Signed when Received/Relinquished? Yes No Does COC agree with Sample Bottle Information, Bottle Types, Preservation, etc.? Yes No All Samples Received before Hold Time Expiration? Yes No Sufficient Sample Volumes for Analysis Requested? Yes No Zero Headspace in VOA Vial? Yes No Sample Preservation: * Cooling: Not Required or Required or Required or Required or Sample Stit/Cooler? Yes No Samples received same day as collected? oc Yes No Samples received same day as collected? Yes No Samples received same day as collected? Yes Lab Thermometer Make and Serial Number: Vaughan 1807009583 Other: Oc Oc Collected Yes No Collected? Yes No Collected? Yes No Collected Yes No Samples received same day as collected? Yes No Samples received same day as collected? Yes No
Acid Preserved Sample - If present, is pH <2? Yes No ** H ₂ SO ₄ HNO ₃ H ₃ PO ₄ Base Preserved Sample - If present, is pH >12? Yes No NaOH Other Preservation: If Present, Meets Requirements? Yes No Sample Preservations Checked by: Date 137 Time 137 pH paper used to check sample preservation (PCS log #): (HEM pH checked at analysis). Samples Preserved/Adjusted by Lab: Lab # Parameters Preserved Preservative Used Log #
Adjusted by Tech/Analyst: Date : Time:
Client Notification/ Documentation for "No" Responses Above/ Discrepancies/ Revision Comments Person Notified: Notified Date: Time: Method of Contact: At Drop Off: Unable to Contact Authorized Laboratory to Proceed: Regarding / Comments:
Actions taken to correct problems/discrepancies:
Receiving qualifier needed (requires client notification above) Temp Holding Time Initails: Receiving qualifier entered into LIMS at login



TPDES PERMIT NO. WQ0010619003 [For TCEQ office use only - EPA I.D. No. TX0052787]

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY P.O. Box 13087 Austin, Texas 78711-3087

This is a renewal that replaces TPDES Permit No. WQ0010619003 issued on November 6, 2018.

PERMIT TO DISCHARGE WASTES

under provisions of Section 402 of the Clean Water Act and Chapter 26 of the Texas Water Code

City of Weslaco

whose mailing address is

1912 Joe Stephens Avenue Weslaco, Texas 78599

is authorized to treat and discharge wastes from the Weslaco North Wastewater Treatment Facility, SIC Code 4952

located at 907 North Airport Drive, Weslaco, in Hidalgo County, Texas 78599

to an unnamed drainage ditch, thence to North Floodway, thence to Laguna Madre in Segment No. 2491 of the Bays and Estuaries

only according to effluent limitations, monitoring requirements, and other conditions set forth in this permit, as well as the rules of the Texas Commission on Environmental Quality (TCEQ), the laws of the State of Texas, and other orders of the TCEQ. The issuance of this permit does not grant to the permittee the right to use private or public property for conveyance of wastewater along the discharge route described in this permit. This includes, but is not limited to, property belonging to any individual, partnership, corporation, or other entity. Neither does this permit authorize any invasion of personal rights nor any violation of federal, state, or local laws or regulations. It is the responsibility of the permittee to acquire property rights as may be necessary to use the discharge route.

This permit shall expire at midnight, five years from the date of issuance.

ISSUED DATE:	
	For the Commission

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Outfall Number 001

1. During the period beginning upon the date of issuance and lasting through the date of expiration, the permittee is authorized to discharge subject to the following effluent limitations:

The annual average flow of effluent shall not exceed 4.9 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 12,260 gallons per minute (gpm).

Effluent Characteristic		Discharg	e Limitations		Min. Self-Monitoring Requirements			
	Daily Avg	7-day Avg	Daily Max	Single Grab	Report Daily Avg. 8	Daily Max.		
	mg/l (lbs/day)	mg/l	mg/l	mg/l	Measurement Frequency	Sample Type		
Flow, MGD	Report	N/A	Report	N/A	Continuous	Totalizing Meter		
Carbonaceous Biochemical Oxygen Demand (5-day)	10 (409)	15	25	35	Two/week	Composite		
Total Suspended Solids	15 (613)	25	40	60	Two/week	Composite		
Ammonia Nitrogen	3 (123)	6	10	15	Two/week	Composite		
Total Zinc	0.53 (22)	N/A	1.12	1.59	One/quarter	_		
E. coliï, colony-forming units or most probable number per 100 ml	126	N/A	399	N/A	One/week	Composite Grab		

- 2. The effluent shall contain a total chlorine residual of at least 1.0 mg/l after a detention time of at least 20 minutes (based on peak flow) and shall be monitored daily by grab sample. The permittee shall dechlorinate the chlorinated effluent to less than 0.1 mg/l total chlorine residual and shall monitor total chlorine residual daily by grab sample after the dechlorination process. An equivalent method of disinfection may be substituted only with prior approval of the Executive Director.
- 3. The pH shall not be less than 6.0 standard units (SU) nor greater than 9.0 SU and shall be monitored once per week by grab sample.
- 4. There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.
- 5. Effluent monitoring samples shall be taken at the following location(s): Following the final treatment unit.
- 6. The effluent shall contain a minimum dissolved oxygen of 4.0 mg/l and shall be monitored twice per week by grab sample.
- 7. The annual average flow and maximum 2-hour peak flow shall be reported monthly.

DEFINITIONS AND STANDARD PERMIT CONDITIONS

As required by Title 30 Texas Administrative Code (TAC) Chapter 305, certain regulations appear as standard conditions in waste discharge permits. 30 TAC § 305.121 - 305.129 (relating to Permit Characteristics and Conditions) as promulgated under the Texas Water Code (TWC) §§ 5.103 and 5.105, and the Texas Health and Safety Code (THSC) §§ 361.017 and 361.024(a), establish the characteristics and standards for waste discharge permits, including sewage sludge, and those sections of 40 Code of Federal Regulations (CFR) Part 122 adopted by reference by the Commission. The following text includes these conditions and incorporates them into this permit. All definitions in TWC § 26.001 and 30 TAC Chapter 305 shall apply to this permit and are incorporated by reference. Some specific definitions of words or phrases used in this permit are as follows:

1. Flow Measurements

- a. Annual average flow the arithmetic average of all daily flow determinations taken within the preceding 12 consecutive calendar months. The annual average flow determination shall consist of daily flow volume determinations made by a totalizing meter, charted on a chart recorder and limited to major domestic wastewater discharge facilities with one million gallons per day or greater permitted flow.
- b. Daily average flow the arithmetic average of all determinations of the daily flow within a period of one calendar month. The daily average flow determination shall consist of determinations made on at least four separate days. If instantaneous measurements are used to determine the daily flow, the determination shall be the arithmetic average of all instantaneous measurements taken during that month. Daily average flow determination for intermittent discharges shall consist of a minimum of three flow determinations on days of discharge.
- c. Daily maximum flow the highest total flow for any 24-hour period in a calendar month.
- d. Instantaneous flow the measured flow during the minimum time required to interpret the flow measuring device.
- e. 2-hour peak flow (domestic wastewater treatment plants) the maximum flow sustained for a two-hour period during the period of daily discharge. The average of multiple measurements of instantaneous maximum flow within a two-hour period may be used to calculate the 2-hour peak flow.
- f. Maximum 2-hour peak flow (domestic wastewater treatment plants) the highest 2-hour peak flow for any 24-hour period in a calendar month.

2. Concentration Measurements

- a. Daily average concentration the arithmetic average of all effluent samples, composite or grab as required by this permit, within a period of one calendar month, consisting of at least four separate representative measurements.
 - i. For domestic wastewater treatment plants When four samples are not available in a calendar month, the arithmetic average (weighted by flow) of all values in the previous four consecutive month period consisting of at least four measurements shall be utilized as the daily average concentration.

- ii. For all other wastewater treatment plants When four samples are not available in a calendar month, the arithmetic average (weighted by flow) of all values taken during the month shall be utilized as the daily average concentration.
- b. 7-day average concentration the arithmetic average of all effluent samples, composite or grab as required by this permit, within a period of one calendar week, Sunday through Saturday.
- c. Daily maximum concentration the maximum concentration measured on a single day, by the sample type specified in the permit, within a period of one calendar month.
- d. Daily discharge the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in terms of mass, the daily discharge is calculated as the total mass of the pollutant discharged over the sampling day. For pollutants with limitations expressed in other units of measurement, the daily discharge is calculated as the average measurement of the pollutant over the sampling day.
 - The daily discharge determination of concentration made using a composite sample shall be the concentration of the composite sample. When grab samples are used, the daily discharge determination of concentration shall be the arithmetic average (weighted by flow value) of all samples collected during that day.
- e. Bacteria concentration (E. coli or Enterococci) Colony Forming Units (CFU) or Most Probable Number (MPN) of bacteria per 100 milliliters effluent. The daily average bacteria concentration is a geometric mean of the values for the effluent samples collected in a calendar month. The geometric mean shall be determined by calculating the nth root of the product of all measurements made in a calendar month, where n equals the number of measurements made; or, computed as the antilogarithm of the arithmetic mean of the logarithms of all measurements made in a calendar month. For any measurement of bacteria equaling zero, a substituted value of one shall be made for input into either computation method. If specified, the 7-day average for bacteria is the geometric mean of the values for all effluent samples collected during a calendar week.
- f. Daily average loading (lbs/day) the arithmetic average of all daily discharge loading calculations during a period of one calendar month. These calculations must be made for each day of the month that a parameter is analyzed. The daily discharge, in terms of mass (lbs/day), is calculated as (Flow, MGD x Concentration, mg/l x 8.34).
- g. Daily maximum loading (lbs/day) the highest daily discharge, in terms of mass (lbs/day), within a period of one calendar month.

3. Sample Type

a. Composite sample - For domestic wastewater, a composite sample is a sample made up of a minimum of three effluent portions collected in a continuous 24-hour period or during the period of daily discharge if less than 24 hours, and combined in volumes proportional to flow, and collected at the intervals required by 30 TAC § 319.9 (a). For industrial wastewater, a composite sample is a sample made up of a minimum of three effluent portions collected in a continuous 24-hour period or during the period of daily discharge if less than 24 hours, and combined in volumes proportional to flow, and collected at the intervals required by 30 TAC § 319.9 (b).

- b. Grab sample an individual sample collected in less than 15 minutes.
- 4. Treatment Facility (facility) wastewater facilities used in the conveyance, storage, treatment, recycling, reclamation and/or disposal of domestic sewage, industrial wastes, agricultural wastes, recreational wastes, or other wastes including sludge handling or disposal facilities under the jurisdiction of the Commission.
- 5. The term "sewage sludge" is defined as solid, semi-solid, or liquid residue generated during the treatment of domestic sewage in 30 TAC Chapter 312. This includes the solids that have not been classified as hazardous waste separated from wastewater by unit processes.
- 6. The term "biosolids" is defined as sewage sludge that has been tested or processed to meet Class A, Class AB, or Class B pathogen standards in 30 TAC Chapter 312 for beneficial use.
- 7. Bypass the intentional diversion of a waste stream from any portion of a treatment facility.

MONITORING AND REPORTING REQUIREMENTS

1. Self-Reporting

Monitoring results shall be provided at the intervals specified in the permit. Unless otherwise specified in this permit or otherwise ordered by the Commission, the permittee shall conduct effluent sampling and reporting in accordance with 30 TAC §§ 319.4 - 319.12. Unless otherwise specified, effluent monitoring data shall be submitted each month, to the Compliance Monitoring Team of the Enforcement Division (MC 224), by the 20th day of the following month for each discharge which is described by this permit whether or not a discharge is made for that month. Monitoring results must be submitted online using the NetDMR reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver. Monitoring results must be signed and certified as required by Monitoring and Reporting Requirements No. 10.

As provided by state law, the permittee is subject to administrative, civil and criminal penalties, as applicable, for negligently or knowingly violating the Clean Water Act (CWA); TWC §§ 26, 27, and 28; and THSC § 361, including but not limited to knowingly making any false statement, representation, or certification on any report, record, or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance, or falsifying, tampering with or knowingly rendering inaccurate any monitoring device or method required by this permit or violating any other requirement imposed by state or federal regulations.

2. Test Procedures

- a. Unless otherwise specified in this permit, test procedures for the analysis of pollutants shall comply with procedures specified in 30 TAC §§ 319.11 319.12. Measurements, tests, and calculations shall be accurately accomplished in a representative manner.
- b. All laboratory tests submitted to demonstrate compliance with this permit must meet the requirements of 30 TAC § 25, Environmental Testing Laboratory Accreditation and Certification.

3. Records of Results

a. Monitoring samples and measurements shall be taken at times and in a manner so as to be representative of the monitored activity.

- b. Except for records of monitoring information required by this permit related to the permittee's sewage sludge or biosolids use and disposal activities, which shall be retained for a period of at least five years (or longer as required by 40 CFR Part 503), monitoring and reporting records, including strip charts and records of calibration and maintenance, copies of all records required by this permit, records of all data used to complete the application for this permit, and the certification required by 40 CFR § 264.73(b)(9) shall be retained at the facility site, or shall be readily available for review by a TCEQ representative for a period of three years from the date of the record or sample, measurement, report, application or certification. This period shall be extended at the request of the Executive Director.
- c. Records of monitoring activities shall include the following:
 - i. date, time and place of sample or measurement;
 - ii. identity of individual who collected the sample or made the measurement.
 - iii. date and time of analysis;
 - iv. identity of the individual and laboratory who performed the analysis;
 - v. the technique or method of analysis; and
 - vi. the results of the analysis or measurement and quality assurance/quality control records.

The period during which records are required to be kept shall be automatically extended to the date of the final disposition of any administrative or judicial enforcement action that may be instituted against the permittee.

4. Additional Monitoring by Permittee

If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit using approved analytical methods as specified above, all results of such monitoring shall be included in the calculation and reporting of the values submitted on the approved self-report form. Increased frequency of sampling shall be indicated on the self-report form.

5. Calibration of Instruments

All automatic flow measuring or recording devices and all totalizing meters for measuring flows shall be accurately calibrated by a trained person at plant start-up and as often thereafter as necessary to ensure accuracy, but not less often than annually unless authorized by the Executive Director for a longer period. Such person shall verify in writing that the device is operating properly and giving accurate results. Copies of the verification shall be retained at the facility site and/or shall be readily available for review by a TCEQ representative for a period of three years.

6. Compliance Schedule Reports

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of the permit shall be submitted no later than 14 days following each schedule date to the Regional Office and the Compliance Monitoring Team of the Enforcement Division (MC 224).

7. Noncompliance Notification

- a. In accordance with 30 TAC § 305.125(9) any noncompliance which may endanger human health or safety, or the environment shall be reported by the permittee to the TCEQ. Except as allowed by 30 TAC § 305.132, report of such information shall be provided orally or by facsimile transmission (FAX) to the Regional Office within 24 hours of becoming aware of the noncompliance. A written submission of such information shall also be provided by the permittee to the Regional Office and the Compliance Monitoring Team of the Enforcement Division (MC 224) within five working days of becoming aware of the noncompliance. For Publicly Owned Treatment Works (POTWs), effective December 21, 2025, the permittee must submit the written report for unauthorized discharges and unanticipated bypasses that exceed any effluent limit in the permit using the online electronic reporting system available through the TCEO website unless the permittee requests and obtains an electronic reporting waiver. The written submission shall contain a description of the noncompliance and its cause; the potential danger to human health or safety, or the environment; the period of noncompliance. including exact dates and times; if the noncompliance has not been corrected, the time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance, and to mitigate its adverse effects.
- b. The following violations shall be reported under Monitoring and Reporting Requirement 7.a.:
 - i. Unauthorized discharges as defined in Permit Condition 2(g).
 - ii. Any unanticipated bypass that exceeds any effluent limitation in the permit.
 - iii. Violation of a permitted maximum daily discharge limitation for pollutants listed specifically in the Other Requirements section of an Industrial TPDES permit.
- c. In addition to the above, any effluent violation which deviates from the permitted effluent limitation by more than 40% shall be reported by the permittee in writing to the Regional Office and the Compliance Monitoring Team of the Enforcement Division (MC 224) within 5 working days of becoming aware of the noncompliance.
- d. Any noncompliance other than that specified in this section, or any required information not submitted or submitted incorrectly, shall be reported to the Compliance Monitoring Team of the Enforcement Division (MC 224) as promptly as possible. For effluent limitation violations, noncompliances shall be reported on the approved self-report form.
- 8. In accordance with the procedures described in 30 TAC §§ 35.301 35.303 (relating to Water Quality Emergency and Temporary Orders) if the permittee knows in advance of the need for a bypass, it shall submit prior notice by applying for such authorization.

9. Changes in Discharges of Toxic Substances

All existing manufacturing, commercial, mining, and silvicultural permittees shall notify the Regional Office, orally or by facsimile transmission within 24 hours, and both the Regional Office and the Compliance Monitoring Team of the Enforcement Division (MC 224) in writing within five (5) working days, after becoming aware of or having reason to believe:

- a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant listed at 40 CFR Part 122, Appendix D, Tables II and III (excluding Total Phenols) which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
 - i. One hundred micrograms per liter (100 μg/L);
 - ii. Two hundred micrograms per liter (200 μ g/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 μ g/L) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
 - iii. Five (5) times the maximum concentration value reported for that pollutant in the permit application; or
 - iv. The level established by the TCEQ.
- b. That any activity has occurred or will occur which would result in any discharge, on a nonroutine or infrequent basis, of a toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
 - i. Five hundred micrograms per liter (500 μg/L);
 - ii. One milligram per liter (1 mg/L) for antimony;
 - iii. Ten (10) times the maximum concentration value reported for that pollutant in the permit application; or
 - iv. The level established by the TCEQ.

10. Signatories to Reports

All reports and other information requested by the Executive Director shall be signed by the person and in the manner required by 30 TAC § 305.128 (relating to Signatories to Reports).

- 11. All POTWs must provide adequate notice to the Executive Director of the following:
 - a. Any new introduction of pollutants into the POTW from an indirect discharger which would be subject to CWA § 301 or § 306 if it were directly discharging those pollutants;
 - b. Any substantial change in the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of issuance of the permit; and

- c. For the purpose of this paragraph, adequate notice shall include information on:
 - i. The quality and quantity of effluent introduced into the POTW; and
 - ii. Any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW.

PERMIT CONDITIONS

1. General

- a. When the permittee becomes aware that it failed to submit any relevant facts in a permit application or submitted incorrect information in an application or in any report to the Executive Director, it shall promptly submit such facts or information.
- b. This permit is granted on the basis of the information supplied and representations made by the permittee during action on an application and relying upon the accuracy and completeness of that information and those representations. After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked, in whole or in part, in accordance with 30 TAC Chapter 305, Subchapter D, during its term for good cause including, but not limited to, the following:
 - i. Violation of any terms or conditions of this permit;
 - ii. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or
 - iii. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.
- c. The permittee shall furnish to the Executive Director, upon request and within a reasonable time, any information to determine whether cause exists for amending, revoking, suspending or terminating the permit. The permittee shall also furnish to the Executive Director, upon request, copies of records required to be kept by the permit.

2. Compliance

- a. Acceptance of the permit by the person to whom it is issued constitutes acknowledgment and agreement that such person will comply with all the terms and conditions embodied in the permit, and the rules and other orders of the Commission.
- b. The permittee has a duty to comply with all conditions of the permit. Failure to comply with any permit condition constitutes a violation of the permit and the Texas Water Code or the Texas Health and Safety Code, and is grounds for enforcement action, for permit amendment, revocation, or suspension, or for denial of a permit renewal application or an application for a permit for another facility.
- c. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit.

- d. The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal or other permit violation that has a reasonable likelihood of adversely affecting human health or the environment.
- e. Authorization from the Commission is required before beginning any change in the permitted facility or activity that may result in noncompliance with any permit requirements.
- f. A permit may be amended, suspended and reissued, or revoked for cause in accordance with 30 TAC §§ 305.62 and 305.66 and TWC§ 7.302. The filing of a request by the permittee for a permit amendment, suspension and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.
- g. There shall be no unauthorized discharge of wastewater or any other waste. For the purpose of this permit, an unauthorized discharge is considered to be any discharge of wastewater into or adjacent to water in the state at any location not permitted as an outfall or otherwise defined in the Other Requirements section of this permit.
- h. In accordance with 30 TAC § 305.535(a), the permittee may allow any bypass to occur from a TPDES permitted facility which does not cause permitted effluent limitations to be exceeded or an unauthorized discharge to occur, but only if the bypass is also for essential maintenance to assure efficient operation.
- i. The permittee is subject to administrative, civil, and criminal penalties, as applicable, under TWC §§ 7.051 7.075 (relating to Administrative Penalties), 7.101 7.111 (relating to Civil Penalties), and 7.141 7.202 (relating to Criminal Offenses and Penalties) for violations including, but not limited to, negligently or knowingly violating the federal CWA §§ 301, 302, 306, 307, 308, 318, or 405, or any condition or limitation implementing any sections in a permit issued under the CWA § 402, or any requirement imposed in a pretreatment program approved under the CWA §§ 402 (a)(3) or 402 (b)(8).

3. Inspections and Entry

- a. Inspection and entry shall be allowed as prescribed in the TWC Chapters 26, 27, and 28, and THSC § 361.
- b. The members of the Commission and employees and agents of the Commission are entitled to enter any public or private property at any reasonable time for the purpose of inspecting and investigating conditions relating to the quality of water in the state or the compliance with any rule, regulation, permit or other order of the Commission. Members, employees, or agents of the Commission and Commission contractors are entitled to enter public or private property at any reasonable time to investigate or monitor or, if the responsible party is not responsive or there is an immediate danger to public health or the environment, to remove or remediate a condition related to the quality of water in the state. Members, employees, Commission contractors, or agents acting under this authority who enter private property shall observe the establishment's rules and regulations concerning safety, internal security, and fire protection, and if the property has management in residence, shall notify management or the person then in charge of his presence and shall exhibit proper credentials. If any member, employee, Commission contractor, or agent is refused the right to enter in or on public or private

property under this authority, the Executive Director may invoke the remedies authorized in TWC § 7.002. The statement above, that Commission entry shall occur in accordance with an establishment's rules and regulations concerning safety, internal security, and fire protection, is not grounds for denial or restriction of entry to any part of the facility, but merely describes the Commission's duty to observe appropriate rules and regulations during an inspection.

4. Permit Amendment and/or Renewal

- a. The permittee shall give notice to the Executive Director as soon as possible of any planned physical alterations or additions to the permitted facility if such alterations or additions would require a permit amendment or result in a violation of permit requirements. Notice shall also be required under this paragraph when:
 - The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in accordance with 30 TAC § 305.534 (relating to New Sources and New Dischargers); or
 - ii. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants that are subject neither to effluent limitations in the permit, nor to notification requirements in Monitoring and Reporting Requirements No. 9; or
 - iii. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.
- b. Prior to any facility modifications, additions, or expansions that will increase the plant capacity beyond the permitted flow, the permittee must apply for and obtain proper authorization from the Commission before commencing construction.
- c. The permittee must apply for an amendment or renewal at least 180 days prior to expiration of the existing permit in order to continue a permitted activity after the expiration date of the permit. If an application is submitted prior to the expiration date of the permit, the existing permit shall remain in effect until the application is approved, denied, or returned. If the application is returned or denied, authorization to continue such activity shall terminate upon the effective date of the action. If an application is not submitted prior to the expiration date of the permit, the permit shall expire and authorization to continue such activity shall terminate.
- d. Prior to accepting or generating wastes which are not described in the permit application, or which would result in a significant change in the quantity or quality of the existing discharge, the permittee must report the proposed changes to the Commission. The permittee must apply for a permit amendment reflecting any necessary changes in permit conditions, including effluent limitations for pollutants not identified and limited by this permit.

- e. In accordance with the TWC § 26.029(b), after a public hearing, notice of which shall be given to the permittee, the Commission may require the permittee, from time to time, for good cause, in accordance with applicable laws, to conform to new or additional conditions.
- f. If any toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is promulgated under CWA § 307(a) for a toxic pollutant which is present in the discharge and that standard or prohibition is more stringent than any limitation on the pollutant in this permit, this permit shall be modified or revoked and reissued to conform to the toxic effluent standard or prohibition. The permittee shall comply with effluent standards or prohibitions established under CWA § 307(a) for toxic pollutants within the time provided in the regulations that established those standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.

5. Permit Transfer

- a. Prior to any transfer of this permit, Commission approval must be obtained. The Commission shall be notified in writing of any change in control or ownership of facilities authorized by this permit. Such notification should be sent to the Applications Review and Processing Team (MC 148) of the Water Quality Division.
- b. A permit may be transferred only according to the provisions of 30 TAC § 305.64 (relating to Transfer of Permits) and 30 TAC § 50.133 (relating to Executive Director Action on Application or WQMP update).
- 6. Relationship to Hazardous Waste Activities

This permit does not authorize any activity of hazardous waste storage, processing, or disposal that requires a permit or other authorization pursuant to the Texas Health and Safety Code.

7. Relationship to Water Rights

Disposal of treated effluent by any means other than discharge directly to water in the state must be specifically authorized in this permit and may require a permit pursuant to TWC Chapter 11.

8. Property Rights

A permit does not convey any property rights of any sort, or any exclusive privilege.

9. Permit Enforceability

The conditions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstances, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

10. Relationship to Permit Application

The application pursuant to which the permit has been issued is incorporated herein; provided, however, that in the event of a conflict between the provisions of this permit and the application, the provisions of the permit shall control.

11. Notice of Bankruptcy

- a. Each permittee shall notify the Executive Director, in writing, immediately following the filing of a voluntary or involuntary petition for bankruptcy under any chapter of Title 11 (Bankruptcy) of the United States Code (11 USC) by or against:
 - i. the permittee;
 - ii. an entity (as that term is defined in 11 USC, § 101(14)) controlling the permittee or listing the permit or permittee as property of the estate; or
 - iii. an affiliate (as that term is defined in 11 USC, § 101(2)) of the permittee.
- b. This notification must indicate:
 - i. the name of the permittee;
 - ii. the permit number(s);
 - iii. the bankruptcy court in which the petition for bankruptcy was filed; and
 - iv. the date of filing of the petition.

OPERATIONAL REQUIREMENTS

- 1. The permittee shall at all times ensure that the facility and all of its systems of collection, treatment, and disposal are properly operated and maintained. This includes, but is not limited to, the regular, periodic examination of wastewater solids within the treatment plant by the operator in order to maintain an appropriate quantity and quality of solids inventory as described in the various operator training manuals and according to accepted industry standards for process control. Process control, maintenance, and operations records shall be retained at the facility site, or shall be readily available for review by a TCEQ representative, for a period of three years.
- 2. Upon request by the Executive Director, the permittee shall take appropriate samples and provide proper analysis in order to demonstrate compliance with Commission rules. Unless otherwise specified in this permit or otherwise ordered by the Commission, the permittee shall comply with all applicable provisions of 30 TAC Chapter 312 concerning sewage sludge or biosolids use and disposal and 30 TAC §§ 319.21 319.29 concerning the discharge of certain hazardous metals.
- 3. Domestic wastewater treatment facilities shall comply with the following provisions:
 - a. The permittee shall notify the Municipal Permits Team, Wastewater Permitting Section (MC 148) of the Water Quality Division, in writing, of any facility expansion at least 90 days prior to conducting such activity.
 - b. The permittee shall submit a closure plan for review and approval to the Municipal Permits Team, Wastewater Permitting Section (MC 148) of the Water Quality Division, for any closure activity at least 90 days prior to conducting such activity. Closure is the act of permanently taking a waste management unit or treatment facility out of service and includes the permanent removal from service of any pit, tank, pond, lagoon, surface impoundment and/or other treatment unit regulated by this permit.

- 4. The permittee is responsible for installing prior to plant start-up, and subsequently maintaining, adequate safeguards to prevent the discharge of untreated or inadequately treated wastes during electrical power failures by means of alternate power sources, standby generators, and/or retention of inadequately treated wastewater.
- 5. Unless otherwise specified, the permittee shall provide a readily accessible sampling point and, where applicable, an effluent flow measuring device or other acceptable means by which effluent flow may be determined.
- 6. The permittee shall remit an annual water quality fee to the Commission as required by 30 TAC Chapter 21. Failure to pay the fee may result in revocation of this permit under TWC § 7.302(b)(6).

7. Documentation

For all written notifications to the Commission required of the permittee by this permit, the permittee shall keep and make available a copy of each such notification under the same conditions as self-monitoring data are required to be kept and made available. Except for information required for TPDES permit applications, effluent data, including effluent data in permits, draft permits and permit applications, and other information specified as not confidential in 30 TAC §§ 1.5(d), any information submitted pursuant to this permit may be claimed as confidential by the submitter. Any such claim must be asserted in the manner prescribed in the application form or by stamping the words confidential business information on each page containing such information. If no claim is made at the time of submission, information may be made available to the public without further notice. If the Commission or Executive Director agrees with the designation of confidentiality, the TCEQ will not provide the information for public inspection unless required by the Texas Attorney General or a court pursuant to an open records request. If the Executive Director does not agree with the designation of confidentiality, the person submitting the information will be notified.

- 8. Facilities that generate domestic wastewater shall comply with the following provisions; domestic wastewater treatment facilities at permitted industrial sites are excluded.
 - a. Whenever flow measurements for any domestic sewage treatment facility reach 75% of the permitted daily average or annual average flow for three consecutive months, the permittee must initiate engineering and financial planning for expansion and/or upgrading of the domestic wastewater treatment and/or collection facilities. Whenever the flow reaches 90% of the permitted daily average or annual average flow for three consecutive months, the permittee shall obtain necessary authorization from the Commission to commence construction of the necessary additional treatment and/or collection facilities. In the case of a domestic wastewater treatment facility which reaches 75% of the permitted daily average or annual average flow for three consecutive months, and the planned population to be served or the quantity of waste produced is not expected to exceed the design limitations of the treatment facility, the permittee shall submit an engineering report supporting this claim to the Executive Director of the Commission.

If in the judgment of the Executive Director the population to be served will not cause permit noncompliance, then the requirement of this section may be waived. To be

effective, any waiver must be in writing and signed by the Director of the Enforcement Division (MC 219) of the Commission, and such waiver of these requirements will be reviewed upon expiration of the existing permit; however, any such waiver shall not be interpreted as condoning or excusing any violation of any permit parameter.

- b. The plans and specifications for domestic sewage collection and treatment works associated with any domestic permit must be approved by the Commission and failure to secure approval before commencing construction of such works or making a discharge is a violation of this permit and each day is an additional violation until approval has been secured.
- c. Permits for domestic wastewater treatment plants are granted subject to the policy of the Commission to encourage the development of area-wide waste collection, treatment, and disposal systems. The Commission reserves the right to amend any domestic wastewater permit in accordance with applicable procedural requirements to require the system covered by this permit to be integrated into an area-wide system, should such be developed; to require the delivery of the wastes authorized to be collected in, treated by or discharged from said system, to such area-wide system; or to amend this permit in any other particular to effectuate the Commission's policy. Such amendments may be made when the changes required are advisable for water quality control purposes and are feasible on the basis of waste treatment technology, engineering, financial, and related considerations existing at the time the changes are required, exclusive of the loss of investment in or revenues from any then existing or proposed waste collection, treatment or disposal system.
- Domestic wastewater treatment plants shall be operated and maintained by sewage plant
 operators holding a valid certificate of competency at the required level as defined in 30 TAC
 Chapter 30.
- 10. For Publicly Owned Treatment Works (POTWs), the 30-day average (or monthly average) percent removal for BOD and TSS shall not be less than 85%, unless otherwise authorized by this permit.
- 11. Facilities that generate industrial solid waste as defined in 30 TAC § 335.1 shall comply with these provisions:
 - a. Any solid waste, as defined in 30 TAC § 335.1 (including but not limited to such wastes as garbage, refuse, sludge from a waste treatment, water supply treatment plant or air pollution control facility, discarded materials, discarded materials to be recycled, whether the waste is solid, liquid, or semisolid), generated by the permittee during the management and treatment of wastewater, must be managed in accordance with all applicable provisions of 30 TAC Chapter 335, relating to Industrial Solid Waste Management.
 - b. Industrial wastewater that is being collected, accumulated, stored, or processed before discharge through any final discharge outfall, specified by this permit, is considered to be industrial solid waste until the wastewater passes through the actual point source discharge and must be managed in accordance with all applicable provisions of 30 TAC Chapter 335.
 - c. The permittee shall provide written notification, pursuant to the requirements of 30 TAC § 335.8(b)(1), to the Corrective Action Section (MC 127) of the Remediation Division

informing the Commission of any closure activity involving an Industrial Solid Waste Management Unit, at least 90 days prior to conducting such an activity.

- d. Construction of any industrial solid waste management unit requires the prior written notification of the proposed activity to the Registration and Reporting Section (MC 129) of the Permitting and Registration Support Division. No person shall dispose of industrial solid waste, including sludge or other solids from wastewater treatment processes, prior to fulfilling the deed recordation requirements of 30 TAC § 335-5.
- e. The term "industrial solid waste management unit" means a landfill, surface impoundment, waste-pile, industrial furnace, incinerator, cement kiln, injection well, container, drum, salt dome waste containment cavern, or any other structure vessel, appurtenance, or other improvement on land used to manage industrial solid waste.
- f. The permittee shall keep management records for all sludge (or other waste) removed from any wastewater treatment process. These records shall fulfill all applicable requirements of 30 TAC § 335 and must include the following, as it pertains to wastewater treatment and discharge:
 - Volume of waste and date(s) generated from treatment process;
 - ii. Volume of waste disposed of on-site or shipped off-site;
 - iii. Date(s) of disposal;
 - iv. Identity of hauler or transporter;
 - v. Location of disposal site; and
 - vi. Method of final disposal.

The above records shall be maintained on a monthly basis. The records shall be retained at the facility site or shall be readily available for review by authorized representatives of the TCEQ for at least five years.

12. For industrial facilities to which the requirements of 30 TAC § 335 do not apply, sludge and solid wastes, including tank cleaning and contaminated solids for disposal, shall be disposed of in accordance with THSC § 361.

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SLUDGE PROVISIONS

The permittee is authorized to dispose of sludge only at a Texas Commission on Environmental Quality (TCEQ) authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge. The disposal of sludge or biosolids by land application on property owned, leased or under the direct control of the permittee is a violation of the permit unless the site is authorized with the TCEQ. This provision does not authorize Distribution and Marketing of Class A or Class AB Biosolids. This provision does not authorize the permittee to land apply biosolids on property owned, leased or under the direct control of the permittee.

SECTION I. REQUIREMENTS APPLYING TO ALL SEWAGE SLUDGE OR BIOSOLIDS LAND APPLICATION

A. General Requirements

- 1. The permittee shall handle and dispose of sewage sludge or biosolids in accordance with 30 TAC § 312 and all other applicable state and federal regulations in a manner that protects public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants that may be present in the sludge or biosolids.
- 2. In all cases, if the person (permit holder) who prepares the sewage sludge supplies the sewage sludge to another person for land application use or to the owner or lease holder of the land, the permit holder shall provide necessary information to the parties who receive the sludge to assure compliance with these regulations.
- 3. The land application of processed or unprocessed chemical toilet waste, grease trap waste, grit trap waste, milk solids, or similar non-hazardous municipal or industrial solid wastes, or any of the wastes listed in this provision combined with biosolids, WTP residuals or domestic septage is prohibited unless the grease trap waste is added at a fats, oil and grease (FOG) receiving facility as part of an anaerobic digestion process.

B. Testing Requirements

1. Sewage sludge or biosolids shall be tested annually in accordance with the method specified in both 40 CFR Part 261, Appendix II and 40 CFR Part 268, Appendix I [Toxicity Characteristic Leaching Procedure (TCLP)] or other method that receives the prior approval of the TCEQ for the contaminants listed in 40 CFR Part 261.24, Table 1. Sewage sludge or biosolids failing this test shall be managed according to RCRA standards for generators of hazardous waste, and the waste's disposition must be in accordance with all applicable requirements for hazardous waste processing, storage, or disposal. Following failure of any TCLP test, the management or disposal of sewage sludge or biosolids at a facility other than an authorized hazardous waste processing, storage, or disposal facility shall be prohibited until such time as the permittee can demonstrate the sewage sludge or biosolids no longer exhibits the hazardous waste toxicity characteristics (as demonstrated by the results of the TCLP tests). A written report shall be provided to both the TCEQ Registration and Reporting Section (MC 129) of the Permitting and Registration Support Division and the Regional Director (MC Region 15) within seven (7) days after failing the TCLP Test.

The report shall contain test results, certification that unauthorized waste management has stopped, and a summary of alternative disposal plans that comply with RCRA standards for the management of hazardous waste. The report shall be addressed to: Director, Permitting and Registration Support Division (MC 129), Texas Commission on Environmental Quality, P.O. Box 13087, Austin, Texas 78711-3087. In addition, the permittee shall prepare an annual report on the results of all sludge toxicity testing. This annual report shall be submitted to the TCEQ Regional Office (MC Region 15) and the Compliance Monitoring Team (MC 224) of the Enforcement Division by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver.

2. Biosolids shall not be applied to the land if the concentration of the pollutants exceeds the pollutant concentration criteria in Table 1. The frequency of testing for pollutants in Table 1 is found in Section I.C. of this permit.

TABLE 1

<u>Pollutant</u>	Ceiling Concentration
	(Milligrams per kilogram)*
Arsenic	75
Cadmium	85
Chromium	3000
Copper	4300
Lead	840
Mercury	57
Molybdenum	75
Nickel	420
PCBs	49
Selenium	100
Zinc	7500

^{*} Dry weight basis

Pathogen Control

All sewage sludge that is applied to agricultural land, forest, a public contact site, or a reclamation site must be treated by one of the following methods to ensure that the sludge meets either the Class A, Class AB or Class B biosolids pathogen requirements.

a. For sewage sludge to be classified as Class A biosolids with respect to pathogens, the density of fecal coliform in the sewage sludge must be less than 1,000 most probable number (MPN) per gram of total solids (dry weight basis), or the density of Salmonella sp. bacteria in the sewage sludge must be less than three MPN per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed. In addition, one of the alternatives listed below must be met:

Alternative 1 - The temperature of the sewage sludge that is used or disposed shall be maintained at or above a specific value for a period of time. See 30 TAC § 312.82(a)(2)(A) for specific information;

Alternative 5 (PFRP) - Sewage sludge that is used or disposed of must be treated in one of the Processes to Further Reduce Pathogens (PFRP) described in 40 CFR Part 503, Appendix B. PFRP include composting, heat drying, heat treatment, and thermophilic aerobic digestion; or

Alternative 6 (PFRP Equivalent) - Sewage sludge that is used or disposed of must be treated in a process that has been approved by the U. S. Environmental Protection Agency as being equivalent to those in Alternative 5.

b. For sewage sludge to be classified as Class AB biosolids with respect to pathogens, the density of fecal coliform in the sewage sludge must be less than 1,000 MPN per gram of total solids (dry weight basis), or the density of Salmonella sp. bacteria in the sewage sludge be less than three MPN per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed. In addition, one of the alternatives listed below must be met:

Alternative 2 - The pH of the sewage sludge that is used or disposed shall be raised to above 12 std. units and shall remain above 12 std. units for 72 hours.

The temperature of the sewage sludge shall be above 52° Celsius for 12 hours or longer during the period that the pH of the sewage sludge is above 12 std. units.

At the end of the 72-hour period during which the pH of the sewage sludge is above 12 std. units, the sewage sludge shall be air dried to achieve a percent solids in the sewage sludge greater than 50%; or

Alternative 3 - The sewage sludge shall be analyzed for enteric viruses prior to pathogen treatment. The limit for enteric viruses is less than one Plaque-forming Unit per four grams of total solids (dry weight basis) either before or following pathogen treatment. See 30 TAC § 312.82(a)(2)(C)(i-iii) for specific information. The sewage sludge shall be analyzed for viable helminth ova prior to pathogen treatment. The limit for viable helminth ova is less than one per four grams of total solids (dry weight basis) either before or following pathogen treatment. See 30 TAC § 312.82(a)(2)(C)(iv-vi) for specific information; or

Alternative 4 - The density of enteric viruses in the sewage sludge shall be less than one Plaque-forming Unit per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed. The density of viable helminth ova in the sewage sludge shall be less than one per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed.

- c. Sewage sludge that meets the requirements of Class AB biosolids may be classified a Class A biosolids if a variance request is submitted in writing that is supported by substantial documentation demonstrating equivalent methods for reducing odors and written approval is granted by the executive director. The executive director may deny the variance request or revoke that approved variance if it is determined that the variance may potentially endanger human health or the environment or create nuisance odor conditions.
- d. Three alternatives are available to demonstrate compliance with Class B biosolids criteria.

Alternative 1

- i. A minimum of seven random samples of the sewage sludge shall be collected within 48 hours of the time the sewage sludge is used or disposed of during each monitoring episode for the sewage sludge.
- ii. The geometric mean of the density of fecal coliform in the samples collected shall be less than either 2,000,000 MPN per gram of total solids (dry weight basis) or 2,000,000 Colony Forming Units per gram of total solids (dry weight basis).

Alternative 2 - Sewage sludge that is used or disposed of shall be treated in one of the Processes to Significantly Reduce Pathogens (PSRP) described in 40 CFR Part 503, Appendix B, so long as all of the following requirements are met by the generator of the sewage sludge.

- i. Prior to use or disposal, all the sewage sludge must have been generated from a single location, except as provided in paragraph v. below;
- ii. An independent Texas Licensed Professional Engineer must make a certification to the generator of a sewage sludge that the wastewater treatment facility generating the sewage sludge is designed to achieve one of the PSRP at the permitted design loading of the facility. The certification need only be repeated if the design loading of the facility is increased. The certification shall include a statement indicating the design meets all the applicable standards specified in Appendix B of 40 CFR Part 503;
- iii. Prior to any off-site transportation or on-site use or disposal of any sewage sludge generated at a wastewater treatment facility, the chief certified operator of the wastewater treatment facility or other responsible official who manages the processes to significantly reduce pathogens at the wastewater treatment facility for the permittee, shall certify that the sewage sludge underwent at least the minimum operational requirements necessary in order to meet one of the PSRP. The acceptable processes and the minimum operational and record keeping requirements shall be in accordance with established U.S. Environmental Protection Agency final guidance;
- iv. All certification records and operational records describing how the requirements of this paragraph were met shall be kept by the generator for a minimum of three years and be available for inspection by commission staff for review; and
- v. If the sewage sludge is generated from a mixture of sources, resulting from a person who prepares sewage sludge from more than one wastewater treatment facility, the resulting derived product shall meet one of the PSRP, and shall meet the certification, operation, and record keeping requirements of this paragraph.

<u>Alternative 3</u> - Sewage sludge shall be treated in an equivalent process that has been approved by the U.S. Environmental Protection Agency, so long as all of the following requirements are met by the generator of the sewage sludge.

i. Prior to use or disposal, all the sewage sludge must have been generated from a single location, except as provided in paragraph v. below;

- ii. Prior to any off-site transportation or on-site use or disposal of any sewage sludge generated at a wastewater treatment facility, the chief certified operator of the wastewater treatment facility or other responsible official who manages the processes to significantly reduce pathogens at the wastewater treatment facility for the permittee, shall certify that the sewage sludge underwent at least the minimum operational requirements necessary in order to meet one of the PSRP. The acceptable processes and the minimum operational and record keeping requirements shall be in accordance with established U.S. Environmental Protection Agency final guidance;
- iii. All certification records and operational records describing how the requirements of this paragraph were met shall be kept by the generator for a minimum of three years and be available for inspection by commission staff for review;
- iv. The Executive Director will accept from the U.S. Environmental Protection Agency a finding of equivalency to the defined PSRP; and
- v. If the sewage sludge is generated from a mixture of sources resulting from a person who prepares sewage sludge from more than one wastewater treatment facility, the resulting derived product shall meet one of the Processes to Significantly Reduce Pathogens, and shall meet the certification, operation, and record keeping requirements of this paragraph.

In addition to the Alternatives 1-3, the following site restrictions must be met if Class B biosolids are land applied:

- i. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after application of biosolids.
- ii. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after application of biosolids when the biosolids remain on the land surface for 4 months or longer prior to incorporation into the soil.
- iii. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months after application of biosolids when the biosolids remain on the land surface for less than 4 months prior to incorporation into the soil.
- iv. Food crops, feed crops, and fiber crops shall not be harvested for 30 days after application of biosolids.
- v. Domestic livestock shall not be allowed to graze on the land for 30 days after application of biosolids.
- vi. Turf grown on land where biosolids are applied shall not be harvested for 1 year after application of the biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn.
- vii. Public access to land with a high potential for public exposure shall be restricted for 1 year after application of biosolids.

- viii. Public access to land with a low potential for public exposure shall be restricted for 30 days after application of biosolids.
- ix. Land application of biosolids shall be in accordance with the buffer zone requirements found in 30 TAC § 312.44.
- 4. Vector Attraction Reduction Requirements

All bulk sewage sludge that is applied to agricultural land, forest, a public contact site, or a reclamation site shall be treated by one of the following Alternatives 1 through 10 for vector attraction reduction.

- <u>Alternative 1</u> The mass of volatile solids in the sewage sludge shall be reduced by a minimum of 38%.
- Alternative 2 If Alternative 1 cannot be met for an anaerobically digested sludge, demonstration can be made by digesting a portion of the previously digested sludge anaerobically in the laboratory in a bench-scale unit for 40 additional days at a temperature between 30° and 37° Celsius. Volatile solids must be reduced by less than 17% to demonstrate compliance.
- Alternative 3 If Alternative 1 cannot be met for an aerobically digested sludge, demonstration can be made by digesting a portion of the previously digested sludge with percent solids of two percent or less aerobically in the laboratory in a bench-scale unit for 30 additional days at 20° Celsius. Volatile solids must be reduced by less than 15% to demonstrate compliance.
- Alternative 4 The specific oxygen uptake rate (SOUR) for sewage sludge treated in an aerobic process shall be equal to or less than 1.5 milligrams of oxygen per hour per gram of total solids (dry weight basis) at a temperature of 20° Celsius.
- Alternative 5 Sewage sludge shall be treated in an aerobic process for 14 days or longer. During that time, the temperature of the sewage sludge shall be higher than 40° Celsius and the average temperature of the sewage sludge shall be higher than 45° Celsius.
- Alternative 6 The pH of sewage sludge shall be raised to 12 or higher by alkali addition and, without the addition of more alkali shall remain at 12 or higher for two hours and then remain at a pH of 11.5 or higher for an additional 22 hours at the time the sewage sludge is prepared for sale or given away in a bag or other container.
- Alternative 7 The percent solids of sewage sludge that does not contain unstabilized solids generated in a primary wastewater treatment process shall be equal to or greater than 75% based on the moisture content and total solids prior to mixing with other materials. Unstabilized solids are defined as organic materials in sewage sludge that have not been treated in either an aerobic or anaerobic treatment process.

Alternative 8 -

The percent solids of sewage sludge that contains unstabilized solids generated in a primary wastewater treatment process shall be equal to or greater than 90% based on the moisture content and total solids prior to mixing with other materials at the time the sludge is used. Unstabilized solids are defined as organic materials in sewage sludge that have not been treated in either an aerobic or anaerobic treatment process.

Alternative 9 -

- i. Biosolids shall be injected below the surface of the land.
- ii. No significant amount of the biosolids shall be present on the land surface within one hour after the biosolids are injected.
- iii. When sewage sludge that is injected below the surface of the land is Class A or Class AB with respect to pathogens, the biosolids shall be injected below the land surface within eight hours after being discharged from the pathogen treatment process.

Alternative 10-

- i. Biosolids applied to the land surface or placed on a surface disposal site shall be incorporated into the soil within six hours after application to or placement on the land.
- ii. When biosolids that are incorporated into the soil is Class A or Class AB with respect to pathogens, the biosolids shall be applied to or placed on the land within eight hours after being discharged from the pathogen treatment process.

C. Monitoring Requirements

Toxicity Characteristic Leaching Procedure - annually (TCLP) Test
PCBs - annually

All metal constituents and fecal coliform or Salmonella sp. bacteria shall be monitored at the appropriate frequency shown below, pursuant to 30 TAC § 312.46(a)(1):

Amount of biosolids (*)

metric tons per 365-day period Monitoring Frequency

o to less than 290 Once/Year

290 to less than 1,500 Once/Quarter

1,500 to less than 15,000 Once/Two Months

15,000 or greater Once/Month

(*) The amount of bulk biosolids applied to the land (dry wt. basis).

Representative samples of sewage sludge shall be collected and analyzed in accordance with the methods referenced in 30 TAC § 312.7.

Identify each of the analytic methods used by the facility to analyze enteric viruses, fecal coliforms, helminth ova, *Salmonella* sp., and other regulated parameters.

Identify in the following categories (as applicable) the sewage sludge or biosolids treatment process or processes at the facility: preliminary operations (e.g., sludge or biosolids grinding and degritting), thickening (concentration), stabilization, anaerobic digestion, aerobic digestion, composting, conditioning, disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization), dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons), heat drying, thermal reduction, and methane or biogas capture and recovery.

Identify the nature of material generated by the facility (such as a biosolid for beneficial use or land-farming, or sewage sludge or biosolids for disposal at a monofill) and whether the material is ultimately conveyed off-site in bulk or in bags.

SECTION II. REQUIREMENTS SPECIFIC TO BULK SEWAGE SLUDGE OR BIOSOLIDS FOR APPLICATION TO THE LAND MEETING CLASS A, CLASS AB or B PATHOGEN REDUCTION AND THE CUMULATIVE LOADING RATES IN TABLE 2, OR CLASS B PATHOGEN REDUCTION AND THE POLLUTANT CONCENTRATIONS IN TABLE 3

For those permittees meeting Class A, Class AB or B pathogen reduction requirements and that meet the cumulative loading rates in Table 2 below, or the Class B pathogen reduction requirements and contain concentrations of pollutants below listed in Table 3, the following conditions apply:

A. Pollutant Limits

Table 2

	Cumulative Pollutant Loading Rate
<u>Pollutant</u>	(pounds per acre)*
Arsenic	36
Cadmium	35
Chromium	2677
Copper	1339
Lead	268
Mercury	15
Molybdenum	Report Only
Nickel	375
Selenium	89
Zinc	2500

Table 3

	Monthly Average
	Concentration
<u>Pollutant</u>	(milligrams per kilogram)
Arsenic	41
Cadmium	39
Chromium	1200
Copper	1500
Lead	300
Mercury	17
Molybdenum	Report Only
Nickel	420
Selenium	36
Zinc	2800
	*Dry weight basis

B. Pathogen Control

All bulk sewage sludge that is applied to agricultural land, forest, a public contact site, a reclamation site, shall be treated by either Class A, Class AB or Class B biosolids pathogen reduction requirements as defined above in Section I.B.3.

C. Management Practices

- Bulk biosolids shall not be applied to agricultural land, forest, a public contact site, or a reclamation site that is flooded, frozen, or snow-covered so that the bulk sewage sludge enters a wetland or other waters in the State.
- 2. Bulk biosolids not meeting Class A requirements shall be land applied in a manner which complies with Applicability in accordance with 30 TAC §312.41 and the Management Requirements in accordance with 30 TAC § 312.44.
- 3. Bulk biosolids shall be applied at or below the agronomic rate of the cover crop.
- 4. An information sheet shall be provided to the person who receives bulk Class A or AB biosolids sold or given away. The information sheet shall contain the following information:
 - a. The name and address of the person who prepared the Class A or AB biosolids that are sold or given away in a bag or other container for application to the land.
 - b. A statement that application of the biosolids to the land is prohibited except in accordance with the instruction on the label or information sheet.
 - c. The annual whole sludge application rate for the biosolids application rate for the biosolids that does not cause any of the cumulative pollutant loading rates in Table 2 above to be exceeded, unless the pollutant concentrations in Table 3 found in Section II above are met.

D. Notification Requirements

- 1. If bulk biosolids are applied to land in a State other than Texas, written notice shall be provided prior to the initial land application to the permitting authority for the State in which the bulk biosolids are proposed to be applied. The notice shall include:
 - a. The location, by street address, and specific latitude and longitude, of each land application site.
 - b. The approximate time period bulk biosolids will be applied to the site.
 - c. The name, address, telephone number, and National Pollutant Discharge Elimination System permit number (if appropriate) for the person who will apply the bulk biosolids.
- 2. The permittee shall give 180 days prior notice to the Executive Director in care of the Wastewater Permitting Section (MC 148) of the Water Quality Division of any change planned in the biosolids disposal practice.

E. Record Keeping Requirements

The documents will be retained at the facility site and/or shall be readily available for review by a TCEQ representative. The person who prepares bulk sewage sludge or a biosolids material shall develop the following information and shall retain the information at the facility site and/or shall be readily available for review by a TCEQ representative for a

period of <u>five years</u>. If the permittee supplies the sludge to another person who land applies the sludge, the permittee shall notify the land applier of the requirements for record keeping found in 30 TAC § 312.47 for persons who land apply.

- The concentration (mg/kg) in the sludge of each pollutant listed in Table 3 above and the
 applicable pollutant concentration criteria (mg/kg), or the applicable cumulative
 pollutant loading rate and the applicable cumulative pollutant loading rate limit (lbs/ac)
 listed in Table 2 above.
- 2. A description of how the pathogen reduction requirements are met (including site restrictions for Class AB and Class B biosolids, if applicable).
- 3. A description of how the vector attraction reduction requirements are met.
- 4. A description of how the management practices listed above in Section II.C are being met.
- 5. The following certification statement:

"I certify, under penalty of law, that the applicable pathogen requirements in 30 TAC § 312.82(a) or (b) and the vector attraction reduction requirements in 30 TAC § 312.83(b) have been met for each site on which bulk biosolids are applied. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the management practices have been met. I am aware that there are significant penalties for false certification including fine and imprisonment."

- 6. The recommended agronomic loading rate from the references listed in Section II.C.3. above, as well as the actual agronomic loading rate shall be retained. The person who applies bulk biosolids shall develop the following information and shall retain the information at the facility site and/or shall be readily available for review by a TCEQ representative <u>indefinitely</u>. If the permittee supplies the sludge to another person who land applies the sludge, the permittee shall notify the land applier of the requirements for record keeping found in 30 TAC § 312.47 for persons who land apply:
 - a. A certification statement that all applicable requirements (specifically listed) have been met, and that the permittee understands that there are significant penalties for false certification including fine and imprisonment. See 30 TAC § 312.47(a)(4)(A)(ii) or 30 TAC § 312.47(a)(5)(A)(ii), as applicable, and to the permittee's specific sludge treatment activities.
 - b. The location, by street address, and specific latitude and longitude, of each site on which biosolids are applied.
 - c. The number of acres in each site on which bulk biosolids are applied.
 - d. The date and time biosolids are applied to each site.
 - e. The cumulative amount of each pollutant in pounds/acre listed in Table 2 applied to each site.
 - f. The total amount of biosolids applied to each site in dry tons.

The above records shall be maintained on-site on a monthly basis and shall be made available to the Texas Commission on Environmental Quality upon request.

F. Reporting Requirements

The permittee shall report annually to the TCEQ Regional Office (MC Region 15) and Compliance Monitoring Team (MC 224) of the Enforcement Division, by September 30th of each year the following information. The permittee must submit this annual report using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver.

- 1. Identify in the following categories (as applicable) the sewage sludge or biosolids treatment process or processes at the facility: preliminary operations (e.g., sludge or biosolids grinding and degritting), thickening (concentration), stabilization, anaerobic digestion, aerobic digestion, composting, conditioning, disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization), dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons), heat drying, thermal reduction, and methane or biogas capture and recovery.
- 2. Identify the nature of material generated by the facility (such as a biosolid for beneficial use or land-farming, or sewage sludge for disposal at a monofill) and whether the material is ultimately conveyed off-site in bulk or in bags.
- 3. Results of tests performed for pollutants found in either Table 2 or 3 as appropriate for the permittee's land application practices.
- 4. The frequency of monitoring listed in Section I.C. that applies to the permittee.
- 5. Toxicity Characteristic Leaching Procedure (TCLP) results.
- 6. PCB concentration in sludge or biosolids in mg/kg.
- 7. Identity of hauler(s) and TCEQ transporter number.
- 8. Date(s) of transport.
- 9. Texas Commission on Environmental Quality registration number, if applicable.
- 10. Amount of sludge or biosolids disposal dry weight (lbs/acre) at each disposal site.
- 11. The concentration (mg/kg) in the sludge of each pollutant listed in Table 1 (defined as a monthly average) as well as the applicable pollutant concentration criteria (mg/kg) listed in Table 3 above, or the applicable pollutant loading rate limit (lbs/acre) listed in Table 2 above if it exceeds 90% of the limit.
- 12. Level of pathogen reduction achieved (Class A, Class AB or Class B).
- 13. Alternative used as listed in Section I.B.3.(a. or b.). Alternatives describe how the pathogen reduction requirements are met. If Class B biosolids, include information on how site restrictions were met.
- 14. Identify each of the analytic methods used by the facility to analyze enteric viruses, fecal coliforms, helminth ova, *Salmonella* sp., and other regulated parameters.
- 15. Vector attraction reduction alternative used as listed in Section I.B.4.

- 16. Amount of sludge or biosolids transported in dry tons/year.
- 17. The certification statement listed in either 30 TAC § 312.47(a)(4)(A)(ii) or 30 TAC § 312.47(a)(5)(A)(ii) as applicable to the permittee's sludge or biosolids treatment activities, shall be attached to the annual reporting form.
- 18. When the amount of any pollutant applied to the land exceeds 90% of the cumulative pollutant loading rate for that pollutant, as described in Table 2, the permittee shall report the following information as an attachment to the annual reporting form.
 - a. The location, by street address, and specific latitude and longitude.
 - b. The number of acres in each site on which bulk biosolids are applied.
 - c. The date and time bulk biosolids are applied to each site.
 - d. The cumulative amount of each pollutant (i.e., pounds/acre) listed in Table 2 in the bulk biosolids applied to each site.
 - e. The amount of biosolids (i.e., dry tons) applied to each site.

The above records shall be maintained on a monthly basis and shall be made available to the Texas Commission on Environmental Quality upon request.

SECTION III. REQUIREMENTS APPLYING TO ALL SEWAGE SLUDGE OR BIOSOLIDS DISPOSED IN A MUNICIPAL SOLID WASTE LANDFILL

- A. The permittee shall handle and dispose of sewage sludge or biosolids in accordance with 30 TAC § 330 and all other applicable state and federal regulations to protect public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants that may be present. The permittee shall ensure that the sewage sludge meets the requirements in 30 TAC § 330 concerning the quality of the sludge or biosolids disposed in a municipal solid waste landfill.
- B. If the permittee generates sewage sludge and supplies that sewage sludge or biosolids to the owner or operator of a municipal solid waste landfill (MSWLF) for disposal, the permittee shall provide to the owner or operator of the MSWLF appropriate information needed to be in compliance with the provisions of this permit.
- C. The permittee shall give 180 days prior notice to the Executive Director in care of the Wastewater Permitting Section (MC 148) of the Water Quality Division of any change planned in the sewage sludge or biosolids disposal practice.
- D. Sewage sludge or biosolids shall be tested annually in accordance with the method specified in both 40 CFR Part 261, Appendix II and 40 CFR Part 268, Appendix I (Toxicity Characteristic Leaching Procedure) or other method, which receives the prior approval of the TCEQ for contaminants listed in Table 1 of 40 CFR § 261.24. Sewage sludge or biosolids failing this test shall be managed according to RCRA standards for generators of hazardous waste, and the waste's disposition must be in accordance with all applicable requirements for hazardous waste processing, storage, or disposal.

Following failure of any TCLP test, the management or disposal of sewage sludge or biosolids at a facility other than an authorized hazardous waste processing, storage, or disposal facility shall be prohibited until such time as the permittee can demonstrate the sewage sludge or biosolids no longer exhibits the hazardous waste toxicity characteristics (as demonstrated by the results of the TCLP tests). A written report shall be provided to both the TCEQ Registration and Reporting Section (MC 129) of the Permitting and Registration Support Division and the Regional Director (MC Region 15) of the appropriate TCEQ field office within 7 days after failing the TCLP Test.

The report shall contain test results, certification that unauthorized waste management has stopped, and a summary of alternative disposal plans that comply with RCRA standards for the management of hazardous waste. The report shall be addressed to: Director, Permitting and Registration Support Division (MC 129), Texas Commission on Environmental Quality, P. O. Box 13087, Austin, Texas 78711-3087. In addition, the permittee shall prepare an annual report on the results of all sludge toxicity testing. This annual report shall be submitted to the TCEQ Regional Office (MC Region 15) and the Compliance Monitoring Team (MC 224) of the Enforcement Division by September 30 of each year.

- E. Sewage sludge or biosolids shall be tested as needed, in accordance with the requirements of 30 TAC Chapter 330.
- F. Record Keeping Requirements

The permittee shall develop the following information and shall retain the information for five years.

- 1. The description (including procedures followed and the results) of all liquid Paint Filter Tests performed.
- 2. The description (including procedures followed and results) of all TCLP tests performed.

The above records shall be maintained on-site on a monthly basis and shall be made available to the Texas Commission on Environmental Quality upon request.

G. Reporting Requirements

The permittee shall report annually to the TCEQ Regional Office (MC Region 15) and Compliance Monitoring Team (MC 224) of the Enforcement Division by September 30th of each year the following information. The permittee must submit this annual report using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver.

- Identify in the following categories (as applicable) the sewage sludge or biosolids
 treatment process or processes at the facility: preliminary operations (e.g., sludge or
 biosolids grinding and degritting), thickening (concentration), stabilization, anaerobic
 digestion, aerobic digestion, composting, conditioning, disinfection (e.g., beta ray
 irradiation, gamma ray irradiation, pasteurization), dewatering (e.g., centrifugation,
 sludge drying beds, sludge lagoons), heat drying, thermal reduction, and methane or
 biogas capture and recovery.
- 2. Toxicity Characteristic Leaching Procedure (TCLP) results.
- 3. Annual sludge or biosolids production in dry tons/year.
- 4. Amount of sludge or biosolids disposed in a municipal solid waste landfill in dry tons/year.
- 5. Amount of sludge or biosolids transported interstate in dry tons/year.
- 6. A certification that the sewage sludge or biosolids meets the requirements of 30 TAC § 330 concerning the quality of the sludge disposed in a municipal solid waste landfill.
- 7. Identity of hauler(s) and transporter registration number.
- 8. Owner of disposal site(s).
- 9. Location of disposal site(s).
- 10. Date(s) of disposal.

The above records shall be maintained on-site on a monthly basis and shall be made available to the Texas Commission on Environmental Quality upon request.

SECTION IV. REQUIREMENTS APPLYING TO SLUDGE OR BIOSOLIDS TRANSPORTED TO ANOTHER FACILITY FOR FURTHER PROCESSING

These provisions apply to sludge or biosolids that is transported to another wastewater treatment facility or facility that further processes sludge or biosolids. These provisions are intended to allow transport of sludge or biosolids to facilities that have been authorized to accept sludge or biosolids. These provisions do not limit the ability of the receiving facility to determine whether to accept the sludge or biosolids, nor do they limit the ability of the receiving facility to request additional testing or documentation.

A. General Requirements

- 1. The permittee shall handle and dispose of sewage sludge or biosolids in accordance with 30 TAC Chapter 312 and all other applicable state and federal regulations in a manner that protects public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants that may be present in the sludge.
- 2. Sludge or biosolids may only be transported using a registered transporter or using an approved pipeline.

B. Record Keeping Requirements

- 1. For sludge transported by an approved pipeline, the permittee must maintain records of the following:
 - a. the amount of sludge or biosolids transported;
 - b. the date of transport;
 - c. the name and TCEQ permit number of the receiving facility or facilities;
 - d. the location of the receiving facility or facilities;
 - e. the name and TCEQ permit number of the facility that generated the waste; and
 - f. copy of the written agreement between the permittee and the receiving facility to accept sludge or biosolids.
- 2. For sludge or biosolids transported by a registered transporter, the permittee must maintain records of the completed trip tickets in accordance with 30 TAC § 312.145(a)(1)-(7) and amount of sludge or biosolids transported.
- The above records shall be maintained on-site on a monthly basis and shall be made available to the TCEQ upon request. These records shall be retained for at least five years.

C. Reporting Requirements

The permittee shall report the following information annually to the TCEQ Regional Office (MC Region 15) and Compliance Monitoring Team (MC 224) of the Enforcement Division, by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver.

- 1. Identify in the following categories (as applicable) the sewage sludge or biosolids treatment process or processes at the facility: preliminary operations (e.g., sludge or biosolids grinding and degritting), thickening (concentration), stabilization, anaerobic digestion, aerobic digestion, composting, conditioning, disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization), dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons), heat drying, thermal reduction, and methane or biogas capture and recovery.
- 2. the annual sludge or biosolids production;
- 3. the amount of sludge or biosolids transported;
- 4. the owner of each receiving facility;
- the location of each receiving facility; and
- 6. the date(s) of disposal at each receiving facility.

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OTHER REQUIREMENTS

The permittee shall employ or contract with one or more licensed wastewater treatment
facility operators or wastewater system operations companies holding a valid license or
registration according to the requirements of 30 TAC Chapter 30, Occupational Licenses and
Registrations, and in particular 30 TAC Chapter 30, Subchapter J, Wastewater Operators
and Operations Companies.

This Category B facility must be operated by a chief operator or an operator holding a Class B license or higher. The facility must be operated a minimum of five days per week by the licensed chief operator or an operator holding the required level of license or higher. The licensed chief operator or operator holding the required level of license or higher must be available by telephone or pager seven days per week. Where shift operation of the wastewater treatment facility is necessary, each shift that does not have the on-site supervision of the licensed chief operator must be supervised by an operator in charge who is licensed not less than one level below the category for the facility.

- 2. The facility is not located in the Coastal Management Program boundary.
- Chronic toxic criteria apply at the edge of the chronic aquatic life mixing zone. The chronic aquatic life mixing zone is defined as 300 feet downstream and 100 feet upstream from the point of discharge.
- 4. The permittee shall comply with the requirements of 30 TAC § 309.13(a) through (d). In addition, by ownership of the required buffer zone area, the permittee shall comply with the requirements of 30 TAC § 309.13(e).
- 5. The permittee shall provide facilities for the protection of its wastewater treatment facility from a 100-year flood.
- 6. In accordance with 30 TAC § 319.9, a permittee that has at least twelve months of uninterrupted compliance with its bacteria limit may notify the commission in writing of its compliance and request a less frequent measurement schedule. To request a less frequent schedule, the permittee shall submit a written request to the TCEQ Wastewater Permitting Section (MC 148) for each phase that includes a different monitoring frequency. The request must contain all of the reported bacteria values (Daily Avg. and Daily Max/Single Grab) for the twelve consecutive months immediately prior to the request. If the Executive Director finds that a less frequent measurement schedule is protective of human health and the environment, the permittee may be given a less frequent measurement schedule. For this permit, 1/week may be reduced to 2/month. A violation of any bacteria limit by a facility that has been granted a less frequent measurement schedule will require the permittee to return to the standard frequency schedule and submit written notice to the TCEQ Wastewater Permitting Section (MC 148). The permittee may not apply for another reduction in measurement frequency for at least 24 months from the date of the last violation. The Executive Director may establish a more frequent measurement schedule if necessary to protect human health or the environment.
- 7. Within 120 days from permit issuance, the permittee shall submit to the TCEQ Wastewater Permitting Section (MC 148) a summary transmittal letter in accordance with the requirements in 30 TAC § 217.6(d). If requested by the Wastewater Permitting Section, the permittee shall submit plans, specifications, and a final engineering design report which

comply with 30 TAC Chapter 217, Design Criteria for Domestic Wastewater Systems. The permittee shall clearly show how the treatment system will meet the effluent limitations required on Page 2 of this permit. A copy of the summary transmittal letter shall be available at the plant site for inspection by authorized representatives of the TCEQ. This provision is continued from the permits issued on January 26, 2015 and November 6, 2018, which has not been complied with to date.

- 8. A certified operator shall inspect the facility five times per week and maintain at the plant site a record of these inspections. These records shall be available at the plant site for inspection by authorized representatives of the commission for at least three years.
- 9. Violations of daily maximum limitations for the following pollutants shall be reported orally or by facsimile to TCEQ Region 15 within 24 hours from the time the permittee becomes aware of the violation followed by a written report within five working days to TCEQ Region 15 and the Enforcement Division (MC 224).

POLLUTANT MAL (mg/l)
Total Zinc 0.005

Test methods utilized shall be sensitive enough to demonstrate compliance with the permit effluent limitations. Permit compliance/noncompliance determinations will be based on the effluent limitations contained in this permit with consideration given to the minimum analytical level (MAL) for the parameters specified above.

When an analysis of an effluent sample for any of the parameters listed above indicates no detectable levels above the MAL and the test method detection level is as sensitive as the specified MAL, a value of zero (o) shall be used for that measurement when making calculations for the self-reporting form. This applies to determinations of daily maximum concentration, calculations of loading and daily averages, and other reportable results.

When a reported value is zero (0) based on this MAL provision, the permittee shall submit the following statement with the self-reporting form either as a separate attachment to the form or as a statement in the comments section of the form.

"The reported value(s) of zero (o) for <u>[list parameter(s)]</u> on the self-reporting form for <u>[monitoring period date range]</u> is based on the following conditions: 1) the analytical method used had a method detection level as sensitive as the MAL specified in the permit, and 2) the analytical results contained no detectable levels above the specified MAL."

When an analysis of an effluent sample for a parameter indicates no detectable levels and the test method detection level is not as sensitive as the MAL specified in the permit, or an MAL is not specified in the permit for that parameter, the level of detection achieved shall be used for that measurement when making calculations for the self-reporting form. A zero (0) may not be used.

10. The permittee shall monitor the influent BOD₅ in mg/l, once per week by composite sample. If the 30-day average influent BOD₅ concentration exceeds 200 mg/l, the permittee shall obtain necessary authorization from the Commission to commence construction of the necessary additional treatment and/or collection facilities. The permittee shall maintain records of the influent BOD₅ concentration in mg/l, influent flow in MGD and the computed influent loading in BOD₅ pounds per day. The permittee shall submit the tabulated records

- and monthly averages to the TCEQ Wastewater Permitting Section (MC 148) of the Water Quality Division by September 1 of each year.
- 11. Within 90 days from the issuance of this permit, the permittee shall complete Attachment A with the analytical results for Outfall 001. The completed tables with the results of these analysis and laboratory reports shall be submitted to the Municipal Permits Team, Wastewater Permitting Section MC 148, TCEQ Water Quality Division. Based on a technical review of the submitted analytical results, an amendment may be initiated by TCEQ staff to include additional effluent limitations and/or monitoring requirements. Test methods utilized to complete the tables shall be according to the test procedures specified in the Definitions and Standard Permit Conditions section of this permit and sensitive enough to detect the parameters listed in Attachment A at the minimum analytical level (MAL).

CONTRIBUTING INDUSTRIES AND PRETREATMENT REQUIREMENTS

- 1. The following pollutants may not be introduced into the treatment facility:
 - a. Pollutants which create a fire or explosion hazard in the publicly owned treatment works (POTW), including, but not limited to, waste streams with a closed-cup flash point of less than 140° Fahrenheit (60° Celsius) using the test methods specified in 40 CFR § 261.21;
 - b. Pollutants which will cause corrosive structural damage to the POTW, but in no case shall there be discharges with a pH lower than 5.0 standard units, unless the works are specifically designed to accommodate such discharges;
 - c. Solid or viscous pollutants in amounts which will cause obstruction to the flow in the POTW, resulting in Interference;
 - d. Any pollutant, including oxygen-demanding pollutants (e.g., biochemical oxygen demand), released in a discharge at a flow rate and/or pollutant concentration which will cause Interference with the POTW;
 - e. Heat in amounts which will inhibit biological activity in the POTW, resulting in Interference, but in no case shall there be heat in such quantities that the temperature at the POTW treatment plant exceeds 104° Fahrenheit (40° Celsius) unless the Executive Director, upon request of the POTW, approves alternate temperature limits;
 - f. Petroleum oil, nonbiodegradable cutting oil, or products of mineral oil origin in amounts that will cause Interference or Pass Through;
 - g. Pollutants which result in the presence of toxic gases, vapors, or fumes within the POTW in a quantity that may cause acute worker health and safety problems; and
 - h. Any trucked or hauled pollutants except at discharge points designated by the POTW.
- 2. The permittee shall require any indirect discharger to the treatment works to comply with the reporting requirements of Sections 204(b), 307, and 308 of the Clean Water Act, including any requirements established under 40 CFR Part 403 [rev. Federal Register/Vol. 70/No. 198/Friday, October 14, 2005/Rules and Regulations, pages 60134-60798].
- 3. The permittee shall provide adequate notification to the Executive Director, care of the Wastewater Permitting Section (MC 148) of the Water Quality Division, within 30 days subsequent to the permittee's knowledge of either of the following:
 - Any new introduction of pollutants into the treatment works from an indirect discharger which would be subject to Sections 301 and 306 of the Clean Water Act if it were directly discharging those pollutants; and
 - b. Any substantial change in the volume or character of pollutants being introduced into the treatment works by a source introducing pollutants into the treatment works at the time of issuance of the permit.

Any notice shall include information on the quality and quantity of effluent to be introduced into the treatment works and any anticipated impact of the change on the quality or quantity of effluent to be discharged from the POTW.

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BIOMONITORING REQUIREMENTS

CHRONIC BIOMONITORING REQUIREMENTS: FRESHWATER

The provisions of this section apply to Outfall 001 for whole effluent toxicity (WET) testing.

- 1. Scope, Frequency, and Methodology
 - a. The permittee shall test the effluent for toxicity in accordance with the provisions below. Such testing will determine if an appropriately dilute effluent sample adversely affects the survival, reproduction, or growth of the test organisms.
 - b. The permittee shall conduct the following toxicity tests using the test organisms, procedures, and quality assurance requirements specified in this part of this permit and in accordance with "Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms," fourth edition (EPA-821-R-02-013) or its most recent update:
 - 1) Chronic static renewal survival and reproduction test using the water flea (Ceriodaphnia dubia) (Method 1002.0). This test should be terminated when 60% of the surviving adults in the control produce three broods or at the end of eight days, whichever occurs first. This test shall be conducted once per quarter.
 - 2) Chronic static renewal 7-day larval survival and growth test using the fathead minnow (*Pimephales promelas*) (Method 1000.0). A minimum of five replicates with eight organisms per replicate shall be used in the control and in each dilution. This test shall be conducted once per quarter.

The permittee must perform and report a valid test for each test species during the prescribed reporting period. An invalid test must be repeated during the same reporting period. An invalid test is defined as any test failing to satisfy the test acceptability criteria, procedures, and quality assurance requirements specified in the test methods and permit.

- c. The permittee shall use five effluent dilution concentrations and a control in each toxicity test. These effluent dilution concentrations are 32%, 42%, 56%, 75%, and 100% effluent. The critical dilution, defined as 100% effluent, is the effluent concentration representative of the proportion of effluent in the receiving water during critical low flow or critical mixing conditions.
- d. This permit may be amended to require a WET limit, a chemical-specific effluent limit, a best management practice, or other appropriate actions to address toxicity. The permittee may be required to conduct a toxicity reduction evaluation (TRE) after multiple toxic events.
- e. Testing Frequency Reduction
 - If none of the first four consecutive quarterly tests demonstrates significant toxicity, the permittee may submit this information in writing

- and, upon approval, reduce the testing frequency to once per six months for the invertebrate test species and once per year for the vertebrate test species.
- 2) If one or more of the first four consecutive quarterly tests demonstrates significant toxicity, the permittee shall continue quarterly testing for that species until this permit is reissued. If a testing frequency reduction had been previously granted and a subsequent test demonstrates significant toxicity, the permittee shall resume a quarterly testing frequency for that species until this permit is reissued.

2. Required Toxicity Testing Conditions

- a. Test Acceptance The permittee shall repeat any toxicity test, including the control and all effluent dilutions, which fail to meet the following criteria:
 - 1) a control mean survival of 80% or greater;
 - 2) a control mean number of water flea neonates per surviving adult of 15 or greater;
 - a control mean dry weight of surviving fathead minnow larvae of 0.25 mg or greater;
 - a control coefficient of variation percent (CV%) of 40 or less in between replicates for the young of surviving females in the water flea test; and the growth and survival endpoints in the fathead minnow test;
 - 5) a critical dilution CV% of 40 or less for the young of surviving females in the water flea test; and the growth and survival endpoints for the fathead minnow test. However, if statistically significant lethal or nonlethal effects are exhibited at the critical dilution, a CV% greater than 40 shall not invalidate the test;
 - 6) a percent minimum significant difference of 47 or less for water flea reproduction; and
 - 7) a percent minimum significant difference of 30 or less for fathead minnow growth.

b. Statistical Interpretation

- 1) For the water flea survival test, the statistical analyses used to determine if there is a significant difference between the control and an effluent dilution shall be the Fisher's exact test as described in the manual referenced in in Part 1.b.
- 2) For the water flea reproduction test and the fathead minnow larval survival and growth tests, the statistical analyses used to determine if there is a significant difference between the control and an effluent dilution shall be in accordance with the manual referenced in Part 1.b.

- The permittee is responsible for reviewing test concentration-response relationships to ensure that calculated test-results are interpreted and reported correctly. The document entitled "Method Guidance and Recommendation for Whole Effluent Toxicity (WET) Testing (40 CFR Part 136)" (EPA 821-B-00-004) provides guidance on determining the validity of test results.
- 4) If significant lethality is demonstrated (that is, there is a statistically significant difference in survival at the critical dilution when compared to the survival in the control), the conditions of test acceptability are met, and the survival of the test organisms are equal to or greater than 80% in the critical dilution and all dilutions below that, then the permittee shall report a survival No Observed Effect Concentration (NOEC) of not less than the critical dilution for the reporting requirements.
- 5) The NOEC is defined as the greatest effluent dilution at which no significant effect is demonstrated. The Lowest Observed Effect Concentration (LOEC) is defined as the lowest effluent dilution at which a significant effect is demonstrated. A significant effect is defined as a statistically significant difference between the survival, reproduction, or growth of the test organism in a specified effluent dilution when compared to the survival, reproduction, or growth of the test organism in the control (0% effluent).
- The use of NOECs and LOECs assumes either a monotonic (continuous) concentration-response relationship or a threshold model of the concentration-response relationship. For any test result that demonstrates a non-monotonic (non-continuous) response, the NOEC should be determined based on the guidance manual referenced in Item 3.
- 7) Pursuant to the responsibility assigned to the permittee in Part 2.b.3), test results that demonstrate a non-monotonic (non-continuous) concentration-response relationship may be submitted, prior to the due date, for technical review. The guidance manual referenced in Item 3 will be used when making a determination of test acceptability.
- 8) TCEQ staff will review test results for consistency with rules, procedures, and permit requirements.

c. Dilution Water

Dilution water used in the toxicity tests must be the receiving water collected at a point upstream of the discharge point as close as possible to the discharge point but unaffected by the discharge. Where the toxicity tests are conducted on effluent discharges to receiving waters that are classified as intermittent streams, or where the toxicity tests are conducted on effluent discharges where no receiving water is available due to zero flow conditions, the permittee shall:

- a) substitute a synthetic dilution water that has a pH, hardness, and alkalinity similar to that of the closest downstream perennial water unaffected by the discharge; or
- b) use the closest downstream perennial water unaffected by the discharge.
- 2) Where the receiving water proves unsatisfactory as a result of pre-existing instream toxicity (i.e., fails to fulfill the test acceptance criteria of Part 2.a.), the permittee may substitute synthetic dilution water for the receiving water in all subsequent tests provided the unacceptable receiving water test met the following stipulations:
 - a) a synthetic lab water control was performed (in addition to the receiving water control) which fulfilled the test acceptance requirements of Part 2.a;
 - b) the test indicating receiving water toxicity was carried out to completion (i.e., 7 days); and
 - c) the permittee submitted all test results indicating receiving water toxicity with the reports and information required in Part 3.
- 3) The synthetic dilution water shall consist of standard, moderately hard, reconstituted water. Upon approval, the permittee may substitute other appropriate dilution water with chemical and physical characteristics similar to that of the receiving water.

d. Samples and Composites

- 1) The permittee shall collect a minimum of three composite samples from Outfall 001. The second and third composite samples will be used for the renewal of the dilution concentrations for each toxicity test.
- 2) The permittee shall collect the composite samples such that the samples are representative of any periodic episode of chlorination, biocide usage, or other potentially toxic substance being discharged on an intermittent basis.
- 3) The permittee shall initiate the toxicity tests within 36 hours after collection of the last portion of the first composite sample. The holding time for any subsequent composite sample shall not exceed 72 hours. Samples shall be maintained at a temperature of 0-6 degrees Centigrade during collection, shipping, and storage.
- 4) If Outfall 001 ceases discharging during the collection of effluent samples, the requirements for the minimum number of effluent samples, the minimum number of effluent portions, and the sample holding time are waived during that sampling period. However, the permittee must have collected an effluent composite sample volume sufficient to complete the required toxicity tests with renewal of the effluent. When possible, the

effluent samples used for the toxicity tests shall be collected on separate days if the discharge occurs over multiple days. The sample collection duration and the static renewal protocol associated with the abbreviated sample collection must be documented in the full report.

5) The effluent samples shall not be dechlorinated after sample collection.

3. Reporting

All reports, tables, plans, summaries, and related correspondence required in this section shall be submitted to the attention of the Standards Implementation Team (MC 150) of the Water Quality Division.

- a. The permittee shall prepare a full report of the results of all tests conducted in accordance with the manual referenced in Part 1.b. for every valid and invalid toxicity test initiated whether carried to completion or not.
- b. The permittee shall routinely report the results of each biomonitoring test on the Table 1 forms provided with this permit.
 - 1) Annual biomonitoring test results are due on or before January 20th for biomonitoring conducted during the previous 12-month period.
 - 2) Semiannual biomonitoring test results are due on or before July 20th and January 20th for biomonitoring conducted during the previous 6-month period.
 - Quarterly biomonitoring test results are due on or before April 20th, July 20th, October 20th, and January 20th for biomonitoring conducted during the previous calendar quarter.
 - 4) Monthly biomonitoring test results are due on or before the 20th day of the month following sampling.
- c. Enter the following codes for the appropriate parameters for valid tests only:
 - 1) For the water flea, Parameter TLP3B, enter a "1" if the NOEC for survival is less than the critical dilution; otherwise, enter a "0."
 - 2) For the water flea, Parameter TOP3B, report the NOEC for survival.
 - 3) For the water flea, Parameter TXP3B, report the LOEC for survival.
 - 4) For the water flea, Parameter TWP3B, enter a "1" if the NOEC for reproduction is less than the critical dilution; otherwise, enter a "o."
 - 5) For the water flea, Parameter TPP3B, report the NOEC for reproduction.
 - 6) For the water flea, Parameter TYP3B, report the LOEC for reproduction.

- 7) For the fathead minnow, Parameter TLP6C, enter a "1" if the NOEC for survival is less than the critical dilution; otherwise, enter a "0."
- 8) For the fathead minnow, Parameter TOP6C, report the NOEC for survival.
- 9) For the fathead minnow, Parameter TXP6C, report the LOEC for survival.
- For the fathead minnow, Parameter TWP6C, enter a "1" if the NOEC for growth is less than the critical dilution; otherwise, enter a "0."
- 11) For the fathead minnow, Parameter TPP6C, report the NOEC for growth.
- 12) For the fathead minnow, Parameter TYP6C, report the LOEC for growth.
- d. Enter the following codes for retests only:
 - 1) For retest number 1, Parameter 22415, enter a "1" if the NOEC for survival is less than the critical dilution; otherwise, enter a "0."
 - 2) For retest number 2, Parameter 22416, enter a "1" if the NOEC for survival is less than the critical dilution; otherwise, enter a "0."

4. Persistent Toxicity

The requirements of this Part apply only when a test demonstrates a significant effect at the critical dilution. Significant lethality and significant effect were defined in Part 2.b. Significant sublethality is defined as a statistically significant difference in growth/reproduction at the critical dilution when compared to the growth/reproduction in the control.

- a. The permittee shall conduct a total of 2 additional tests (retests) for any species that demonstrates a significant effect (lethal or sublethal) at the critical dilution. The two retests shall be conducted monthly during the next two consecutive months. The permittee shall not substitute either of the two retests in lieu of routine toxicity testing. All reports shall be submitted within 20 days of test completion. Test completion is defined as the last day of the test.
- b. If the retests are performed due to a demonstration of significant lethality, and one or both of the two retests specified in Part 4.a. demonstrates significant lethality, the permittee shall initiate the TRE requirements as specified in Part 5. The provisions of Part 4.a. are suspended upon completion of the two retests and submittal of the TRE action plan and schedule defined in Part 5.
 - If neither test demonstrates significant lethality and the permittee is testing under the reduced testing frequency provision of Part 1.e., the permittee shall return to a quarterly testing frequency for that species.
- c. If the two retests are performed due to a demonstration of significant sublethality, and one or both of the two retests specified in Part 4.a. demonstrates significant lethality, the permittee shall again perform two retests as stipulated in Part 4.a.

- d. If the two retests are performed due to a demonstration of significant sublethality, and neither test demonstrates significant lethality, the permittee shall continue testing at the quarterly frequency.
- e. Regardless of whether retesting for lethal or sublethal effects, or a combination of the two, no more than one retest per month is required for a species.

5. Toxicity Reduction Evaluation

- a. Within 45 days of the retest that demonstrates significant lethality, or within 45 days of being so instructed due to multiple toxic events, the permittee shall submit a general outline for initiating a TRE. The outline shall include, but not be limited to, a description of project personnel, a schedule for obtaining consultants (if needed), a discussion of influent and effluent data available for review, a sampling and analytical schedule, and a proposed TRE initiation date.
- b. Within 90 days of the retest that demonstrates significant lethality, or within 90 days of being so instructed due to multiple toxic events, the permittee shall submit a TRE action plan and schedule for conducting a TRE. The plan shall specify the approach and methodology to be used in performing the TRE. A TRE is a step-wise investigation combining toxicity testing with physical and chemical analyses to determine actions necessary to eliminate or reduce effluent toxicity to a level not effecting significant lethality at the critical dilution. The TRE action plan shall describe an approach for the reduction or elimination of lethality for both test species defined in Part 1.b. At a minimum, the TRE action plan shall include the following:
 - 1) Specific Activities - The TRE action plan shall specify the approach the permittee intends to utilize in conducting the TRE, including toxicity characterizations, identifications, confirmations, source evaluations, treatability studies, and alternative approaches. When conducting characterization analyses, the permittee shall perform multiple characterizations and follow the procedures specified in the document entitled "Toxicity Identification Evaluation: Characterization of Chronically Toxic Effluents, Phase I" (EPA/600/6-91/005F) or alternate procedures. The permittee shall perform multiple identifications and follow the methods specified in the documents entitled "Methods for Aquatic Toxicity Identification Evaluations, Phase II Toxicity Identification Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/080) and "Methods for Aquatic Toxicity Identification Evaluations: Phase III Toxicity Confirmation Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/081). All characterization, identification, and confirmation tests shall be conducted in an orderly and logical progression;
 - 2) Sampling Plan The TRE action plan should describe sampling locations, methods, holding times, chain of custody, and preservation techniques. The effluent sample volume collected for all tests shall be adequate to perform the toxicity characterization/identification/confirmation procedures and chemical-specific analyses when the toxicity tests show significant lethality. Where the permittee has identified or suspects a

- specific pollutant and source of effluent toxicity, the permittee shall conduct, concurrent with toxicity testing, chemical-specific analyses for the identified and suspected pollutant and source of effluent toxicity;
- Quality Assurance Plan The TRE action plan should address record keeping and data evaluation, calibration and standardization, baseline tests, system blanks, controls, duplicates, spikes, toxicity persistence in the samples, randomization, reference toxicant control charts, and mechanisms to detect artifactual toxicity; and
- 4) Project Organization The TRE action plan should describe the project staff, project manager, consulting engineering services (where applicable), consulting analytical and toxicological services, etc.
- c. Within 30 days of submittal of the TRE action plan and schedule, the permittee shall implement the TRE.
- d. The permittee shall submit quarterly TRE activities reports concerning the progress of the TRE. The quarterly reports are due on or before April 20th, July 20th, October 20th, and January 20th. The report shall detail information regarding the TRE activities including:
 - results and interpretation of any chemical-specific analyses for the identified and suspected pollutant performed during the quarter;
 - 2) results and interpretation of any characterization, identification, and confirmation tests performed during the quarter;
 - any data and substantiating documentation which identifies the pollutant(s) and source of effluent toxicity;
 - 4) results of any studies/evaluations concerning the treatability of the facility's effluent toxicity;
 - any data that identifies effluent toxicity control mechanisms that will reduce effluent toxicity to the level necessary to meet no significant lethality at the critical dilution; and
 - 6) any changes to the initial TRE plan and schedule that are believed necessary as a result of the TRE findings.
- e. During the TRE, the permittee shall perform, at a minimum, quarterly testing using the more sensitive species. Testing for the less sensitive species shall continue at the frequency specified in Part 1.b.
- f. If the effluent ceases to effect significant lethality, i.e., there is a cessation of lethality, the permittee may end the TRE. A cessation of lethality is defined as no significant lethality for a period of 12 consecutive months with at least monthly testing. At the end of the 12 months, the permittee shall submit a statement of intent to cease the TRE and may then resume the testing frequency specified in Part 1.b.

This provision accommodates situations where operational errors and upsets, spills, or sampling errors triggered the TRE, in contrast to a situation where a single toxicant or group of toxicants cause lethality. This provision does not apply as a result of corrective actions taken by the permittee. Corrective actions are defined as proactive efforts that eliminate or reduce effluent toxicity. These include, but are not limited to, source reduction or elimination, improved housekeeping, changes in chemical usage, and modifications of influent streams and effluent treatment.

The permittee may only apply this cessation of lethality provision once. If the effluent again demonstrates significant lethality to the same species, the permit will be amended to add a WET limit with a compliance period, if appropriate. However, prior to the effective date of the WET limit, the permittee may apply for a permit amendment removing and replacing the WET limit with an alternate toxicity control measure by identifying and confirming the toxicant and an appropriate control measure.

- g. The permittee shall complete the TRE and submit a final report on the TRE activities no later than 28 months from the last test day of the retest that confirmed significant lethal effects at the critical dilution. The permittee may petition the Executive Director (in writing) for an extension of the 28-month limit. However, to warrant an extension the permittee must have demonstrated due diligence in its pursuit of the toxicity identification evaluation/TRE and must prove that circumstances beyond its control stalled the toxicity identification evaluation/TRE. The report shall provide information pertaining to the specific control mechanism selected that will, when implemented, result in the reduction of effluent toxicity to no significant lethality at the critical dilution. The report shall also provide a specific corrective action schedule for implementing the selected control mechanism.
- h. Based on the results of the TRE and proposed corrective actions, this permit may be amended to modify the biomonitoring requirements, where necessary, require a compliance schedule for implementation of corrective actions, specify a WET limit, specify a best management practice, and specify a chemical-specific limit.
- i. Copies of any and all required TRE plans and reports shall also be submitted to the U.S. EPA Region 6 office, 6WQ-PO.

Time

Date

Dates and Times Composites

TABLE 1 (SHEET 1 OF 4)

BIOMONITORING REPORTING

CERIODAPHNIA DUBIA SURVIVAL AND REPRODUCTION

Time

No. 1 FROM: ______ TO: _____

Date

Collected	No. 2	FROM: _		TO: _	ennyadiri hilya (isyid siy aa saada iso ahaada ay aa gigaa haadaa haa a shida da aashiddi isaab	
	No. 3	FROM: _		TO:		
Test initiated		and an analysis of the second	am/	pm		date
Dilutio	on water used:	ORNOTON OF Representation of the State of State	_ Receiving wat	er	Synthetic I	ilution water
	NUMBER	OF YOUN	G PRODUCED 1	PER ADULT A	AT END OF TI	EST
			Percent	effluent		
REP	0%	32%	42%	56%	75%	100%
A						
В						
С				•		
D						
E						
F						
G						
Н						
I						
J						
Survival Mean						
Total Mean						
CV%*						
PMSD						

Designate males (M), and dead females (D), along with number of neonates (x) released prior to death.

^{*}Coefficient of Variation = standard deviation x 100/mean (calculation based on young of the surviving adults)

TABLE 1 (SHEET 2 OF 4)

CERIODAPHNIA DUBIA SURVIVAL AND REPRODUCTION TEST

Dunnett's Procedure or Steel's Many-One Rank Test or Wilcoxon Rank Sum Test (with Bonferroni adjustment) or t-test (with Bonferroni adjustment) as appropriate:

Is the mean number of young produced per adult significantly less than the number of young per adult in the control for the % effluent corresponding to significant nonlethal effects?

CRITICAL DILUTION	(100%):	YES	NO
	(100/0).		110

PERCENT SURVIVAL

		Percent effluent				
Time of Reading	0%	32%	42%	56%	75%	100%
24h						
48h						
End of Test						

2. Fisher's Exact Test:

Is the mean survival at test end significantly less than the control survival for the % effluent corresponding to lethality?

CRITICAL.	DILUTION (100%): YES	NO

- 3. Enter percent effluent corresponding to each NOEC\LOEC below:
 - a.) NOEC survival = ______% effluent
 - b.) LOEC survival = _____% effluent
 - c.) NOEC reproduction = _____ % effluent
 - d.) LOEC reproduction = ______% effluent

Time

Date

TABLE 1 (SHEET 3 OF 4)

BIOMONITORING REPORTING

FATHEAD MINNOW LARVAE GROWTH AND SURVIVAL

Date Time

Dates and Times	No. 1 FR	OM:	Date Tim	e 		ate Time	
Composite Collected							
	No. 3 FR	OM:			_ TO: _		
Test initiated: _		obsidence to the second se		am/pm			date
Dilution wat							
]	FATHEAI	OMINMO	w GROW	TH DATA		
Effluent	Averag	ge Dry We	eight in rep	licate cha	mbers	Mean Dry	CV%*
Concentration	A	В	С	D	Е	Weight	
0%							
32%							
42%							
56%							
75%							
100%							
PMSD							
* Coefficient of Varia 1. Dunnett's Pro Bonferroni ac Is the mean of (growth) for	ocedure or Si djustment) o Irv weight (g	teel's Man r t-test (w rowth) at t correspo	ny-One Rar rith Bonfer 7 days sign onding to s	nk Test or roni adjus nificantly l significant	ess than to nonletha	s appropriate the control's l effects?	e:

TABLE 1 (SHEET 4 OF 4)

BIOMONITORING REPORTING

FATHEAD MINNOW GROWTH AND SURVIVAL TEST

FATHEAD MINNOW SURVIVAL DATA

Effluent Concentration	Percent Survival in replicate chambers				Mean percent survival		CV%*		
	A	В	С	D	Е	24h	48h	7 day	0170
0%									
32%									
42%	-								
56%									
75%									
100%									

^{*} Coefficient of Variation = standard deviation x 100/mean

2.	Dunnett's Procedure or Steel's Many-One Rank Test or Wilcoxon Rank Sum Test (with Bonferroni adjustment) or t-test (with Bonferroni adjustment) as appropriate:
	Is the mean survival at 7 days significantly less than the control survival for the % effluent corresponding to lethality?
	CRITICAL DILUTION (100%): YES NO
3.	Enter percent effluent corresponding to each NOEC\LOEC below:
	a.) NOEC survival =% effluent
	b.) LOEC survival =% effluent
	c.) NOEC growth =% effluent
	d.) LOEC growth =% effluent

24-HOUR ACUTE BIOMONITORING REQUIREMENTS: FRESHWATER

The provisions of this section apply to Outfall 001 for whole effluent toxicity (WET) testing.

1. Scope, Frequency, and Methodology

- a. The permittee shall test the effluent for lethality in accordance with the provisions in this section. Such testing will determine compliance with Texas Surface Water Quality Standard 30 TAC § 307.6(e)(2)(B), which requires greater than 50% survival of the appropriate test organisms in 100% effluent for a 24-hour period.
- b. The toxicity tests specified shall be conducted once per six months. The permittee shall conduct the following toxicity tests using the test organisms, procedures, and quality assurance requirements specified in this section of the permit and in accordance with "Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms," fifth edition (EPA-821-R-02-012) or its most recent update:
 - 1) Acute 24-hour static toxicity test using the water flea (*Daphnia pulex* or *Ceriodaphnia dubia*). A minimum of five replicates with eight organisms per replicate shall be used in the control and each dilution.
 - 2) Acute 24-hour static toxicity test using the fathead minnow (*Pimephales promelas*). A minimum of five replicates with eight organisms per replicate shall be used in the control and each dilution.

A valid test result must be submitted for each reporting period. The permittee must report, and then repeat, an invalid test during the same reporting period. The repeat test shall include the control and the 100% effluent dilution and use the appropriate number of organisms and replicates, as specified above. An invalid test is defined as any test failing to satisfy the test acceptability criteria, procedures, and quality assurance requirements specified in the test methods and permit.

- c. In addition to an appropriate control, a 100% effluent concentration shall be used in the toxicity tests. The control and dilution water shall consist of standard, synthetic, moderately hard, reconstituted water.
- d. This permit may be amended to require a WET limit, a best management practice, a chemical-specific limit, or other appropriate actions to address toxicity. The permittee may be required to conduct a toxicity reduction evaluation (TRE) after multiple toxic events.
- e. As the dilution series specified in the Chronic Biomonitoring Requirements includes a 100% effluent concentration, the results from those tests may fulfill the requirements of this Section; any tests performed in the proper time interval may be substituted. Compliance will be evaluated as specified in item a. The 50% survival in 100% effluent for a 24-hour period standard applies to all tests utilizing a 100% effluent dilution, regardless of whether the results are submitted to comply with the minimum testing frequency defined in item b.

2. Required Toxicity Testing Conditions

- a. Test Acceptance The permittee shall repeat any toxicity test, including the control, if the control fails to meet a mean survival equal to or greater than 90%.
- Dilution Water In accordance with Part 1.c., the control and dilution water shall consist of standard, synthetic, moderately hard, reconstituted water.
- c. Samples and Composites
 - 1) The permittee shall collect one composite sample from Outfall 001.
 - The permittee shall collect the composite sample such that the sample is representative of any periodic episode of chlorination, biocide usage, or other potentially toxic substance being discharged.
 - 3) The permittee shall initiate the toxicity tests within 36 hours after collection of the last portion of the composite sample. The sample shall be maintained at a temperature of o-6 degrees Centigrade during collection, shipping, and storage.
 - 4) If Outfall 001 ceases discharging during the collection of the effluent composite sample, the requirements for the minimum number of effluent portions are waived. However, the permittee must have collected a composite sample volume sufficient for completion of the required test. The abbreviated sample collection, duration, and methodology must be documented in the full report.
 - 5) The effluent sample shall not be dechlorinated after sample collection.

3. Reporting

All reports, tables, plans, summaries, and related correspondence required in this section shall be submitted to the attention of the Standards Implementation Team (MC 150) of the Water Quality Division.

- a. The permittee shall prepare a full report of the results of all tests conducted in accordance with the manual referenced in Part 1.b. for every valid and invalid toxicity test initiated.
- b. The permittee shall routinely report the results of each biomonitoring test on the Table 2 forms provided with this permit.
 - Semiannual biomonitoring test results are due on or before July 20th and January 20th for biomonitoring conducted during the previous 6-month period.
 - Quarterly biomonitoring test results are due on or before April 20th, July 20th, and October 20th, and January 20th for biomonitoring conducted during the previous calendar quarter.

- c. Enter the following codes for the appropriate parameters for valid tests only:
 - 1) For the water flea, Parameter TIE3D, enter a "0" if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter a "1."
 - 2) For the fathead minnow, Parameter TIE6C, enter a "0" if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter a "1."
- d. Enter the following codes for retests only:
 - For retest number 1, Parameter 22415, enter a "0" if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter a "1."
 - 2) For retest number 2, Parameter 22416, enter a "0" if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter a "1."

4. Persistent Mortality

The requirements of this part apply when a toxicity test demonstrates significant lethality, which is defined as a mean mortality of 50% or greater of organisms exposed to the 100% effluent concentration for 24 hours.

- a. The permittee shall conduct 2 additional tests (retests) for each species that demonstrates significant lethality. The two retests shall be conducted once per week for 2 weeks. Five effluent dilution concentrations in addition to an appropriate control shall be used in the retests. These effluent concentrations are 6%, 13%, 25%, 50% and 100% effluent. The first retest shall be conducted within 15 days of the laboratory determination of significant lethality. All test results shall be submitted within 20 days of test completion of the second retest. Test completion is defined as the 24th hour.
- b. If one or both of the two retests specified in Part 4.a. demonstrates significant lethality, the permittee shall initiate the TRE requirements as specified in Part 5.

5. <u>Toxicity Reduction Evaluation</u>

- a. Within 45 days of the retest that demonstrates significant lethality, the permittee shall submit a general outline for initiating a TRE. The outline shall include, but not be limited to, a description of project personnel, a schedule for obtaining consultants (if needed), a discussion of influent and effluent data available for review, a sampling and analytical schedule, and a proposed TRE initiation date.
- b. Within 90 days of the retest that demonstrates significant lethality, the permittee shall submit a TRE action plan and schedule for conducting a TRE. The plan shall specify the approach and methodology to be used in performing the TRE. A TRE is a step-wise investigation combining toxicity testing with physical and chemical

analyses to determine actions necessary to eliminate or reduce effluent toxicity to a level not effecting significant lethality at the critical dilution. The TRE action plan shall lead to the successful elimination of significant lethality for both test species defined in Part 1.b. At a minimum, the TRE action plan shall include the following:

- 1) Specific Activities - The TRE action plan shall specify the approach the permittee intends to utilize in conducting the TRE, including toxicity characterizations, identifications, confirmations, source evaluations, treatability studies, and alternative approaches. When conducting characterization analyses, the permittee shall perform multiple characterizations and follow the procedures specified in the document entitled "Methods for Aquatic Toxicity Identification Evaluations: Phase I Toxicity Characterization Procedures" (EPA/600/6-91/003) or alternate procedures. The permittee shall perform multiple identifications and follow the methods specified in the documents entitled "Methods for Aquatic Toxicity Identification Evaluations: Phase II Toxicity Identification Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/080) and "Methods for Aquatic Toxicity Identification Evaluations: Phase III Toxicity Confirmation Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/081). All characterization, identification, and confirmation tests shall be conducted in an orderly and logical progression;
- Sampling Plan The TRE action plan should describe sampling locations, methods, holding times, chain of custody, and preservation techniques. The effluent sample volume collected for all tests shall be adequate to perform the toxicity characterization/identification/confirmation procedures and chemical-specific analyses when the toxicity tests show significant lethality. Where the permittee has identified or suspects specific pollutant and source of effluent toxicity, the permittee shall conduct, concurrent with toxicity testing, chemical-specific analyses for the identified and suspected pollutant and source of effluent toxicity;
- Quality Assurance Plan The TRE action plan should address record keeping and data evaluation, calibration and standardization, baseline tests, system blanks, controls, duplicates, spikes, toxicity persistence in the samples, randomization, reference toxicant control charts, and mechanisms to detect artifactual toxicity; and
- 4) Project Organization The TRE Action Plan should describe the project staff, project manager, consulting engineering services (where applicable), consulting analytical and toxicological services, etc.
- c. Within 30 days of submittal of the TRE action plan and schedule, the permittee shall implement the TRE.
- d. The permittee shall submit quarterly TRE activities reports concerning the progress of the TRE. The quarterly TRE activities reports are due on or before April 20th, July 20th, October 20th, and January 20th. The report shall detail information regarding the TRE activities including:

- results and interpretation of any chemical-specific analyses for the identified and suspected pollutant performed during the quarter;
- results and interpretation of any characterization, identification, and confirmation tests performed during the quarter;
- any data and substantiating documentation that identifies the pollutant and source of effluent toxicity;
- 4) results of any studies/evaluations concerning the treatability of the facility's effluent toxicity;
- any data that identifies effluent toxicity control mechanisms that will reduce effluent toxicity to the level necessary to eliminate significant lethality; and
- 6) any changes to the initial TRE plan and schedule that are believed necessary as a result of the TRE findings.
- e. During the TRE, the permittee shall perform, at a minimum, quarterly testing using the more sensitive species. Testing for the less sensitive species shall continue at the frequency specified in Part 1.b.
- f. If the effluent ceases to effect significant lethality, i.e., there is a cessation of lethality, the permittee may end the TRE. A cessation of lethality is defined as no significant lethality for a period of 12 consecutive weeks with at least weekly testing. At the end of the 12 weeks, the permittee shall submit a statement of intent to cease the TRE and may then resume the testing frequency specified in Part 1.b.

This provision accommodates situations where operational errors and upsets, spills, or sampling errors triggered the TRE, in contrast to a situation where a single toxicant or group of toxicants cause lethality. This provision does not apply as a result of corrective actions taken by the permittee. Corrective actions are defined as proactive efforts that eliminate or reduce effluent toxicity. These include, but are not limited to, source reduction or elimination, improved housekeeping, changes in chemical usage, and modifications of influent streams and effluent treatment.

The permittee may only apply this cessation of lethality provision once. If the effluent again demonstrates significant lethality to the same species, the permit will be amended to add a WET limit with a compliance period, if appropriate. However, prior to the effective date of the WET limit, the permittee may apply for a permit amendment removing and replacing the WET limit with an alternate toxicity control measure by identifying and confirming the toxicant and an appropriate control measure.

g. The permittee shall complete the TRE and submit a final report on the TRE activities no later than 18 months from the last test day of the retest that demonstrates significant lethality. The permittee may petition the Executive

Director (in writing) for an extension of the 18-month limit. However, to warrant an extension the permittee must have demonstrated due diligence in its pursuit of the toxicity identification evaluation/TRE and must prove that circumstances beyond its control stalled the toxicity identification evaluation/TRE. The report shall specify the control mechanism that will, when implemented, reduce effluent toxicity as specified in Part 5.h. The report shall also specify a corrective action schedule for implementing the selected control mechanism. A copy of the TRE final report shall also be submitted to the U.S. EPA Region 6 office.

h. Within 3 years of the last day of the test confirming toxicity, the permittee shall comply with 30 TAC § 307.6(e)(2)(B), which requires greater than 50% survival of the test organism in 100% effluent at the end of 24-hours. The permittee may petition the Executive Director (in writing) for an extension of the 3-year limit. However, to warrant an extension the permittee must have demonstrated due diligence in its pursuit of the toxicity identification evaluation/TRE and must prove that circumstances beyond its control stalled the toxicity identification evaluation/TRE.

The permittee may be exempted from complying with 30 TAC § 307.6(e)(2)(B) upon proving that toxicity is caused by an excess, imbalance, or deficiency of dissolved salts. This exemption excludes instances where individually toxic components (e.g., metals) form a salt compound. Following the exemption, this permit may be amended to include an ion-adjustment protocol, alternate species testing, or single species testing.

- i. Based upon the results of the TRE and proposed corrective actions, this permit may be amended to modify the biomonitoring requirements where necessary, require a compliance schedule for implementation of corrective actions, specify a WET limit, specify a best management practice, and specify a chemical-specific limit.
- j. Copies of any and all required TRE plans and reports shall also be submitted to the U.S. EPA Region 6 office, 6WQ-PO.

TABLE 2 (SHEET 1 OF 2)

WATER FLEA SURVIVAL

GENERAL INFORMATION

	Time	Date
Composite Sample Collected		
Test Initiated		

PERCENT SURVIVAL

m.	В	Percent effluent						
Time	Rep	0%	6%	13%	25%	50%	100%	
24h	A							
	В							
	С							
	D							
	E							
	MEAN							

	Enter	percent effluent	corresponding to	o the	LC50	below:
--	-------	------------------	------------------	-------	------	--------

24-hour LC50 = _____% effluent

TABLE 2 (SHEET 2 OF 2)

FATHEAD MINNOW SURVIVAL

GENERAL INFORMATION

	Time	Date
Composite Sample Collected		
Test Initiated		

PERCENT SURVIVAL

Time	Rep	Percent effluent					
		о%	6%	13%	25%	50%	100%
24h	A						
	В						
	C						
	D						
	Е						
	MEAN						

24-hour LC50 = _____% effluent

DOMESTIC TECHNICAL REPORT 1.0

POLLUTANT ANALYSES REQUIREMENTS

Section 7. Pollutant Analysis of Treated Effluent

For pollutants identified in Table 1.0(2), indicate type of sample of Grab or Composite.

Date and time sample(s) collected:

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

Table 1.0(2) — Pollutant Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (μg/l)	Number of Samples	Sample Type	MAL (μg/l)
CBOD ₅ , mg/l		-			50
Total Suspended Solids (TSS), mg/l			(-144		0.01
Ammonia Nitrogen (NH3-N), mg/l					2.5
Nitrate Nitrogen, mg/l			N. 13 - pp. 6 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		10
Total Kjeldahl Nitrogen (TKN), mg/l					5
Sulfate, mg/l					0.5
Chloride, mg/l					3
Total Phosphorus, mg/l					10
pH, standard units (SU)		***************************************			50
Dissolved Oxygen (DO), mg/l					5
Chlorine Residual, mg/l			- U		5
E.coli (CFU or MPN/100 ml)					10
Total Dissolved Solids, mg/l					10
Oil & Grease, mg/l					10
Alkalinity (CaCO ₃), mg/l					10

DOMESTIC WORKSHEET 4.0

POLLUTANT ANALYSES REQUIREMENTS*

Section	1.	Toxic	Pol	lutan	ts

For pollutants	identified i	n Table 4.0(1),	indicate type	of sample.
	Grab 🗆	Compo	site 🗆	•

Date and time sample(s) collected:

Table 4.0(1) - Toxics Analysis

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (μg/l)	Number of Samples	MAL (μg/l)
Acrylonitrile		SI 0/1-7	*	50
Aldrin				0.01
Aluminum	No. 1			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

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (μg/l)	Number of Samples	MAL (μg/l)
Chlorobenzene			// 2002-00-00-00-00-00-00-00-00-00-00-00-00	10
Chlorodibromomethane		The state of the s		10
Chloroform				10
Chlorpyrifos				0.05
Chromium (Total)		300 A 100 A		3
Chromium (Tri) (*1)	***************************************			N/A
Chromium (Hex)				3
Copper			•	2
Chrysene				5
p-Chloro-m-Cresol				10
4,6-Dinitro-o-Cresol				50
p-Cresol				10
Cyanide (*2)		***************************************		10
4,4'- DDD				0.1
4,4'- DDE				0.1
4,4'- DDT				0.02
2,4-D		***************************************		0.7
Demeton (O and S)				0.20
Diazinon				0.5/0.1
1,2-Dibromoethane				10
m-Dichlorobenzene				10
o-Dichlorobenzene				10
p-Dichlorobenzene				10
3,3'-Dichlorobenzidine				5
,2-Dichloroethane				10
,1-Dichloroethylene				10

Pollutant	AVG Effluent Conc. (μg/l)	MAX Effluent Conc. (μg/l)	Number of Samples	MAL (μg/l)
Dichloromethane				20
1,2-Dichloropropane				10
1,3-Dichloropropene				10
Dicofol				1
Dieldrin				0.02
2,4-Dimethylphenol				10
Di-n-Butyl Phthalate				10
Diuron				0.09
Endosulfan I (alpha)				0.01
Endosulfan II (beta)				0.02
Endosulfan Sulfate				0.1
Endrin				0.02
Ethylbenzene				10
Fluoride				500
Guthion				0.1
Heptachlor				0.01
Heptachlor Epoxide				0.01
Hexachlorobenzene				5
Hexachlorobutadiene				10
Hexachlorocyclohexane (alpha)				0.05
Hexachlorocyclohexane (beta)				0.05
gamma-Hexachlorocyclohexane				0.05
(Lindane)				
Hexachlorocyclopentadiene				10
Hexachloroethane				20
Hexachlorophene		-	•	10

AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (μg/l)	Number of Samples	MAL (μg/l)
			0.6
			0.1
			0.005
		P	2
			50
			0.02
-			2
			100
			10
		The state of the s	20
			20
			333
			0.1
	***************************************		20
			5
			10
			0.2
			20
		***************************************	5
			0.5
			20
			10
			10
	**************************************		0.5
			10
			0.3
	Effluent Conc. (μg/l)	Effluent Conc. (μg/l) Conc. (μg/l) Effluent Conc. (μg/l)	Effluent Conc. (μg/l) Samples Number of Samples

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (μg/l)	Number of Samples	MAL (μg/l)
2,4,5-TP (Silvex)				0.3
Tributyltin (see instructions for explanation)				0.01
1,1,1-Trichloroethane				10
1,1,2-Trichloroethane				10
Trichloroethylene				10
2,4,5-Trichlorophenol				50
TTHM (Total Trihalomethanes)				10
Vinyl Chloride	•			10
Zinc				5

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

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

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

Section 2. Priority Pollutants

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

Grab 🗆

Composite □

Date and time sample(s) collected:

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

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (μg/l)	Number of Samples	MAL (μg/l)
Antimony				5
Arsenic				0.5
Beryllium				0.5
Cadmium				1
Chromium (Total)				3
Chromium (Hex)				3
Chromium (Tri) (*1)				N/A
Copper				2
Lead				0.5
Mercury				0.005
Nickel				2
Selenium				5
Silver				0.5
Thallium				0.5
Zinc				5
Cyanide (*2)				10
Phenois, Total				10

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

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

Table 4.0(2)B – Volatile Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (μg/l)	Number of Samples	MAL (μg/l)
Acrolein				50
Acrylonitrile				50
Benzene				10
Bromoform				10
Carbon Tetrachloride				2
Chlorobenzene				10
Chlorodibromomethane				10
Chloroethane				50
2-Chloroethylvinyl Ether				10
Chloroform Dichlorobromomethane				10 10
[Bromodichloromethane]				10
1,1-Dichloroethane 1,2-Dichloroethane				10
1,1-Dichloroethylene				10
1,2-Dichloropropane				10
1,3-Dichloropropylene [1,3-Dichloropropene]				10
1,2-Trans-Dichloroethylene				10
Ethylbenzene				10
Methyl Bromide				50
Methyl Chloride				50
Methylene Chloride				20
1,1,2,2-Tetrachloroethane				10
Tetrachloroethylene				10
Toluene				10
1,1,1-Trichloroethane				10
1,1,2-Trichloroethane				10
Trichloroethylene				10
Vinyl Chloride				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				10
2,4-Dichlorophenol				10
2,4-Dimethylphenol				10
4,6-Dinitro-o-Cresol				50
2,4-Dinitrophenol				50
2-Nitrophenol			<u></u>	20
4-Nitrophenol				50
P-Chloro-m-Cresol				10
Pentalchlorophenol				5
Phenol				10
2,4,6-Trichlorophenol				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				10
Acenaphthylene				10
Anthracene				10
Benzidine				50
Benzo(a)Anthracene				5
Benzo(a)Pyrene				5
3,4-Benzofluoranthene				- 10
Benzo(ghi)Perylene				20
Benzo(k)Fluoranthene				5
Bis(2-Chloroethoxy)Methane				10
Bis(2-Chloroethyl)Ether				10
Bis(2-Chloroisopropyl)Ether				10
Bis(2-Ethylhexyl)Phthalate				10
4-Bromophenyl Phenyl Ether				10
Butyl benzyl Phthalate				10
2-Chloronaphthalene				10
4-Chlorophenyl phenyl ether				10
Chrysene				5
Dibenzo(a,h)Anthracene				5
1,2-(o)Dichlorobenzene				10
1,3-(m)Dichlorobenzene				10
1,4-(p)Dichlorobenzene				10
3,3-Dichlorobenzidine				5
Diethyl Phthalate				10
Dimethyl Phthalate				10
Di-n-Butyl Phthalate				10
2,4-Dinitrotoluene				10
2,6-Dinitrotoluene				10
Di-n-Octyl Phthalate				10
1,2-Diphenylhydrazine (as Azo-benzene)				20
Fluoranthene				10
Fluorene				10
Hexachlorobenzene				5
Hexachlorobutadiene				10

Pollutant	AVG Effluent Conc. (μg/l)	MAX Effluent Conc. (μg/l)	Number of Samples	MAL (μg/l)
Hexachlorocyclo-pentadiene				10
Hexachloroethane				10
Indeno(1,2,3-cd)pyrene				20
Isophorone				5
Naphthalene				10
Nitrobenzene				10
N-Nitrosodimethylamine				10
N-Nitrosodi-n-Propylamine				50
N-Nitrosodiphenylamine	-			20
Phenanthrene				20
Pyrene				10
1,2,4-Trichlorobenzene				10
1,2,1 IIIOHOIODOHZEHE			07/bid	10

Table 4.0(2)E - Pesticides

ruote 4.0(2)D 7 cottes						
Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (μg/l)		
Aldrin				0.01		
alpha-BHC (Hexachlorocyclohexane)				0.05		
beta-BHC (Hexachlorocyclohexane)				0.05		
gamma-BHC (Hexachlorocyclohexane)				0.05		
delta-BHC (Hexachlorocyclohexane)				0.05		
Chlordane				0.2		
				0.02		
4,4-DDT				0.1		
4,4-DDE				0.1		
4,4,-DDD				0.02		
Dieldrin 7. (((0.01		
Endosulfan I (alpha)				0.02		
Endosulfan II (beta)				0.1		
Endosulfan Sulfate				0.02		
Endrin				0.1		
Endrin Aldehyde				0.01		
Heptachlor				0.01		
Heptachlor Epoxide				0.2		
PCB-1242				0.2		
PCB-1254				0.2		
PCB-1221				0.2		
PCB-1232				0.2		
PCB-1248				0.2		
PCB-1260				0.2		
PCB-1016				0.3		
Toxaphene				1		

Section 3. Dioxin/Furan Compounds

A	A. Are any of the following compounds used by a contributing industrial user or significant industrial user that is part of the collection system for the facility that you have reason to believe are present in the influent to the wastewater treatment plant?
	Yes \square No \square If yes , identify which compound(s) are potentially sent to the facility.
	2,4,5-trichlorophenoxy acetic acid Common Name 2,4,5-T, CASRN 93-76-5
	2-(2,4,5-trichlorophenoxy) propanoic acid Common Name Silvex or 2,4,5-TP, CASRN 93-72-1
Ö	2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate Common Name Erbon, CASRN 136-25-4
	0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate Common Name Ronnel, CASRN 299-84-3
Ö	2,4,5-trichlorophenol Common Name TCP, CASRN 95-95-4
	hexachlorophene Common Name HCP, CASRN 70-30-4
	For each compound identified, provide a brief description of the conditions of its/their presence at the facility.
(Do you know or have any reason to believe that 2,3,7,8 Tetrachlorodibenzo-P-Dioxin (TCDD) or any congeners of TCDD may be present in your effluent? Yes No
If yes, pr	ovide a brief description of the conditions for its presence.
If yo	ou responded yes to either Subsection A or B, complete Table 4.0(2)F.
For pollut	ants identified in Table 4.0(2)F, indicate type of sample. Grab □ Composite □ ime sample(s) collected:
ΓCEQ-10 Domestic	054 (6/1/2017) Wastewater Permit Application, Technical Reports Page 13

TABLE 4.0(2)F - DIOXIN/FURAN COMPOUNDS

Compound	Toxic Equivalency	BLE 4.0(2)F - D Wastewater Concentration	Wastewater Equivalents	Sludge Concentration (ppt)	Sludge Equivalents (ppt)	MAL (ppq)
Compound	Factors	(ppq)	(ppq)	(1/1/1/)		10
3,7,8 TCDD	1					
2,3,7,8 PeCDD	0.5					50
3,7,8 HxCDDs	0.1					
2,3,4,6,7,8 pCDD	0.01					50
3,7,8 TCDF	0.1					50
2,3,7,8 PeCDF	0.05					50
,3,4,7,8 PeCDF	0.5					50
,3,7,8 HxCDFs	0.1					-
,3,4,7,8 HpCDFs	0.01					50
OCDD	0.0003					100
CDF	0.0003					0.5
CB 77	0.0001					0.5
'CB 81	0.0003					0.5
CB 126	0.1					0.5
°CB 169	0.03					1 0.3
[otal						

^{*}For PCBs, if all are non-detects, enter the highest non-detect preceded by a "<".

FACT SHEET AND EXECUTIVE DIRECTOR'S PRELIMINARY DECISION

For draft Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010619003, EPA I.D. No. TX0052787, to discharge to water in the state.

Issuing Office:

Texas Commission on Environmental Quality

P.O. Box 13087

Austin, Texas 78711-3087

Applicant:

City of Weslaco

1912 Joe Stephens Avenue Weslaco, Texas 78599

Prepared By:

Melinda Luxemburg, P.E. Municipal Permits Team

Wastewater Permitting Section (MC 148)

Water Quality Division

(512) 239-4541

Date:

December 21, 2023

Permit Action:

Renewal

1. EXECUTIVE DIRECTOR RECOMMENDATION

The Executive Director has made a preliminary decision that this permit, if issued, meets all statutory and regulatory requirements. The draft permit includes an expiration date of **five years from the date of issuance**.

2. APPLICANT ACTIVITY

The applicant has applied to the Texas Commission on Environmental Quality (TCEQ) for a renewal of the existing permit that authorizes the discharge of treated domestic wastewater at an annual average flow not to exceed 4.9 MGD. The existing wastewater treatment facility serves the City of Weslaco.

3. FACILITY AND DISCHARGE LOCATION

The plant site is located at 907 North Airport Drive, Weslaco, in Hidalgo County, Texas 78599.

Outfall Location:

Outfall Number	Latitude	Longitude	
001	26.184877 N	97.971014 W	

The treated effluent is discharged to an unnamed drainage ditch, thence to North Floodway, thence to Laguna Madre in Segment No. 2491 of the Bays and Estuaries. The unclassified receiving water use is limited aquatic life use for the unnamed drainage ditch. The designated uses for Segment No. 2491 are primary contact recreation, exceptional aquatic life use, and oyster waters.

4. TREATMENT PROCESS DESCRIPTION AND SEWAGE SLUDGE DISPOSAL

The Weslaco North Wastewater Treatment Facility (WWTF) is an activated sludge process plant operated in the extended aeration mode. Treatment units include a lift station, bar screen/grit remova, one aeration basin, one oxidation ditch, three final clarifiers, one aerobic sludge digester, one belt filter press, two chlorine contact chambers, and a dechlorination chamber. The facility is in operation.

Sludge generated from the treatment facility is hauled by a registered transporter (Denali Water Solutions; Hauler Registration No. 24979) to various TCEQ-authorized beneficial land application sites operated by Denali Water Solutions, LLC in Hidalgo County and/or to a permitted landfill. The draft permit also authorizes the disposal of sludge at a TCEQ-authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge.

5. INDUSTRIAL WASTE CONTRIBUTION

The draft permit includes pretreatment requirements that are appropriate for a facility of this size and complexity. The facility does not appear to receive significant industrial wastewater contributions.

6. SUMMARY OF SELF-REPORTED EFFLUENT ANALYSES

The following is a summary of the applicant's effluent monitoring data for the period June 2021 through May 2023. The average of Daily Average value is computed by the averaging of all 30-day average values for the reporting period for each parameter: flow, five-day carbonaceous biochemical oxygen demand (CBOD₅), total suspended solids (TSS), ammonia-nitrogen (NH₃-N), and total zinc (TZ). The average of Daily Average value for Escherichia coli (E. coli) in colony-forming units (CFU) or most probable number (MPN) per 100 ml is calculated via geometric mean. Mass-based limits are expressed as pounds per day (lbs/day). Concentration-based limits are expressed as milligrams per liter (mg/l).

Average of Daily Average
2.52
4.87
2.77
0.88
0.08
2.0

7. DRAFT PERMIT CONDITIONS AND MONITORING REQUIREMENTS

The effluent limitations and monitoring requirements for those parameters that are limited in the draft permit are as follows:

A. EFFLUENT LIMITATIONS & MONITORING REQUIREMENTS

The annual average flow of effluent shall not exceed 4.9 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 12,260 gpm.

<u>Parameter</u>	30-Da	y Average	7-Day Average	Daily Maximum
	mg/l	lbs/day	mg/l	mg/l
CBOD ₅	10	409	15	25
TSS	15	613	25	40
NH ₃ -N	3	123	6	10
TZ	0.53	22	N/A	1.12
Dissolved Oxygen (DO), min.	4.0	N/A	N/A	N/A
E. coli, CFU or MPN per 100 ml	126	N/A	N/A	399

The pH shall not be less than 6.0 standard units (SU) nor greater than 9.0 SU and shall be monitored once per week by grab sample. There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.

The effluent shall contain a total chlorine residual of at least 1.0 mg/l after a detention time of at least 20 minutes (based on peak flow) and shall be monitored daily by grab sample. The permittee shall dechlorinate the chlorinated effluent to less than 0.1 mg/l total chlorine residual and shall monitor total chlorine residual daily by grab sample after the dechlorination process. An equivalent method of disinfection may be substituted only with prior approval of the Executive Director.

<u>Parameter</u>	Monitoring Requirement
Flow, MGD	Continuous
CBOD ₅	Two/week
TSS	Two/week
NH ₃ -N	Two/week
TZ	One/quarter
DO	Two/week
E. coli, CFU or MPN per 100 ml	One/week

B. SEWAGE SLUDGE REQUIREMENTS

The draft permit includes Sludge Provisions according to the requirements of 30 TAC Chapter 312, Sludge Use, Disposal, and Transportation. Sludge generated from the treatment facility is hauled by a registered transporter Denali Water Solutions; Hauler Registration No. 24979) to various TCEQ-authorized beneficial land application sites operated by Denali Water Solutions, LLC in Hidalgo County and/or to a permitted landfill. The draft permit also authorizes the disposal of sludge at a TCEQ-authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge.

C. PRETREATMENT REQUIREMENTS

Permit requirements for pretreatment are based on TPDES regulations contained in 30 TAC Chapter 305, which references 40 Code of Federal Regulations (CFR) Part 403, "General Pretreatment Regulations for Existing and New Sources of Pollution" [rev. Federal Register/Vol. 70/No. 198/Friday, October 14, 2005/Rules and Regulations, pages 60134-60798]. The permit includes specific requirements that establish responsibilities of local government, industry, and the public to implement

the standards to control pollutants which pass through or interfere with treatment processes in publicly owned treatment works or which may contaminate the sewage sludge. This permit has appropriate pretreatment language for a facility of this size and complexity.

D. WHOLE EFFLUENT TOXICITY (BIOMONITORING) REQUIREMENTS

- (1) The draft permit includes chronic freshwater biomonitoring requirements as follows. The permit requires five dilutions in addition to the control (0% effluent) to be used in the toxicity tests. These additional effluent concentrations shall be 32%, 42%, 56%, 75%, and 100%. The low-flow effluent concentration (critical dilution) is defined as 100% effluent. The critical dilution is in accordance with the "Aquatic Life Criteria" section of the "Water Quality Based Effluent Limitations/Conditions" section.
 - (a) Chronic static renewal survival and reproduction test using the water flea (*Ceriodaphnia dubia*). The frequency of the testing is once per quarter for at least the first year of testing, after which the permittee may apply for a testing frequency reduction.
 - (b) Chronic static renewal 7-day larval survival and growth test using the fathead minnow (*Pimephales promelas*). The frequency of the testing is once per quarter for at least the first year of testing, after which the permittee may apply for a testing frequency reduction.
- (2) The draft permit includes the following minimum 24-hour acute freshwater biomonitoring requirements at a frequency of once per six months:
 - (a) Acute 24-hour static toxicity test using the water flea (*Daphnia pulex* or *Ceriodaphnia dubia*).
 - (b) Acute 24-hour static toxicity test using the fathead minnow (*Pimephales promelas*).

E. SUMMARY OF CHANGES FROM APPLICATION

None.

F. SUMMARY OF CHANGES FROM EXISTING PERMIT

The Standard Permit Conditions, Sludge Provisions, Other Requirements, and Biomonitoring sections of the draft permit have been updated. Pretreatment requirements have been continued in the draft permit.

The permittee's facility mailing address has been updated according to the information provided in the application.

Added effluent testing at new Other Requirement No. 11 because the required application effluent data was not included with the application. Upon review of the effluent data, the permit may be reopened to include additional monitoring requirements or effluent limitations, as needed.

The draft permit continues to authorize an annual average flow of 4.9 MGD. The draft permit continues the existing effluent limitations, based on a 30-day average, of 10 mg/l CBOD₅, 15 mg/l TSS, 3 mg/l NH₃-N, 0.53 TZ, 126 CFU or MPN of *E. col*i per 100 ml, and 4.0 mg/l minimum DO. The effluent shall contain a total chlorine residual of at least 1.0 mg/l after a detention time of at least 20 minutes based on peak flow and shall be dechlorinated to less than 0.1 mg/l total chlorine residual.

For Publicly Owned Treatment Works (POTWs), effective December 21, 2025, the permittee must submit the written report for unauthorized discharges and unanticipated bypasses that exceed any effluent limit in the permit using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver.

Certain accidental discharges or spills of treated or untreated wastewater from wastewater treatment facilities or collection systems owned or operated by a local government may be reported on a monthly basis in accordance with 30 TAC § 305.132.

The draft permit includes all updates based on the 30 TAC § 312 rule change effective April 23, 2020.

8. DRAFT PERMIT RATIONALE

A. TECHNOLOGY-BASED EFFLUENT LIMITATIONS/CONDITIONS

Regulations promulgated in Title 40 of the CFR require that technology-based limitations be placed in wastewater discharge permits based on effluent limitations guidelines, where applicable, or on best professional judgment (BPJ) in the absence of guidelines.

Effluent limitations for maximum and minimum pH are in accordance with 40 CFR § 133.102(c) and 30 TAC § 309.1(b).

Consistent with the procedures for pH screening that were submitted to the U.S. Environmental Protection Agency (EPA) with a letter dated May 28, 2014, and approved by EPA in a letter dated June 2, 2014, requiring a discharge to an unclassified water body to meet pH limits of 6.0 – 9.0 standard units (SU) reasonably ensures instream compliance with *Texas Surface Water Quality Standards* (TSWQS) pH criteria. Therefore, the technology-based pH limitations of 6.0 to 9.0 SU will reasonably ensure compliance with the TSWQS.

B. WATER QUALITY SUMMARY AND COASTAL MANAGEMENT PLAN

(1) WATER QUALITY SUMMARY

The treated effluent is discharged to an unnamed drainage ditch, thence to North Floodway, thence to Laguna Madre in Segment No. 2491 of the Bays and Estuaries. The unclassified receiving water use is limited aquatic life use for the unnamed drainage ditch. The designated uses for Segment No. 2491 are primary contact recreation, exceptional aquatic life use, and oyster

waters. The effluent limitations in the draft permit will maintain and protect the existing instream uses. All determinations are preliminary and subject to additional review and/or revisions.

A watershed of high priority has been identified in Segment No. 2491. The piping plover, Charadrius melodus Ord, a threatened aquatic-dependent species, is found in the watershed of Segment No. 2491; however, the facility is located in Hidalgo County and is not a petroleum facility, therefore, its discharge is not expected to have an effect on the piping plover. This determination is based on the United States Fish and Wildlife Service's (USFWS's) biological opinion on the State of Texas authorization of the TPDES (September 14, 1998, October 21, 1998, update). To make this determination for TPDES permits, TCEQ and EPA only considered aquatic or aquatic-dependent species occurring in watersheds of critical concern or high priority as listed in Appendix A of the USFWS biological opinion. The determination is subject to reevaluation due to subsequent updates or amendments to the biological opinion. The permit does not require EPA review with respect to the presence of endangered or threatened species.

Segment No. 2491 is currently listed on the State's inventory of impaired and threatened waters, the 2022 Clean Water Act Section 303(d) list. The listings are for elevated bacteriain the area adjacent to the Arroyo Colorado confluence (AU 2491_02). Depressed dissolved oxygen is listed in the upper portion of the bay north of the Arroyo Colorado confluence (AU 2491_01) and in the area adjacent to the Arroyo Colorado confluence (AU 2491_02). There is also a listing for bacteria (oyster waters) in the area adjacent to the Arroyo Colorado confluence (AU 24910W_02). This application is for renewal of an existing authorization and does not represent an increase in the permitted levels of oxygen demanding constituents to the watershed of Segment No. 2491. In addition, this facility is designed to provide adequate disinfection and, when operated properly, should not add to the bacterial impairment of the segment.

The effluent limitations and conditions in the draft permit comply with EPA-approved portions of the 2018 Texas Surface Water Quality Standards (TSWQS), 30 TAC §§ 307.1 - 307.10, effective March 1, 2018; 2014 TSWQS, effective March 6, 2014; 2010 TSWQS, effective July 22, 2010; and 2000 TSWQS, effective July 26, 2000.

(2) CONVENTIONAL PARAMETERS

Effluent limitations for the conventional effluent parameters (i.e., Five-Day Biochemical Oxygen Demand or Five-Day Carbonaceous Biochemical Oxygen Demand, Ammonia Nitrogen, etc.) are based on stream standards and waste load allocations for water quality-limited streams as established in the TSWQS and the State of Texas Water Quality Management Plan (WQMP).

The effluent limitations in the draft permit have been reviewed for consistency with the WQMP. The existing effluent limitations are contained in the approved WQMP.

The effluent limitations in the draft permit meet the requirements for secondary treatment and the requirements for disinfection according to 30 TAC Chapter 309, Subchapter A: Effluent Limitations.

(3) COASTAL MANAGEMENT PLAN

The facility is not located in the Coastal Management Program boundary.

C. WATER QUALITY-BASED EFFLUENT LIMITATIONS/CONDITIONS

(1) GENERAL COMMENTS

The Texas Surface Water Quality Standards (30 TAC Chapter 307) state that surface waters will not be toxic to man, or to terrestrial or aquatic life. The methodology outlined in the "Procedures to Implement the Texas Surface Water Quality Standards, June 2010" is designed to ensure compliance with 30 TAC Chapter 307. Specifically, the methodology is designed to ensure that no source will be allowed to discharge any wastewater that: (1) results in instream aquatic toxicity; (2) causes a violation of an applicable narrative or numerical state water quality standard; (3) results in the endangerment of a drinking water supply; or (4) results in aquatic bioaccumulation that threatens human health.

(2) AQUATIC LIFE CRITERIA

(a) SCREENING

Discharge is to an unnamed drainage ditch, which is a perennial freshwater (FW) ditch, stream, or river. Water quality-based effluent limitations are calculated from freshwater aquatic life criteria found in Table 1 of the Texas Surface Water Quality Standards (30 TAC Chapter 307).

Acute freshwater criteria are applied at the edge of the zone of initial dilution (ZID), and chronic freshwater criteria are applied at the edge of the aquatic life mixing zone. The ZID for this discharge is defined as 20 feet upstream and 60 feet downstream from the point where the discharge enters the unnamed drainage ditch. The aquatic life mixing zone for this discharge is defined as 100 feet upstream and 300 feet downstream from the point where the discharge enters the unnamed drainage ditch.

TCEQ uses the mass balance equation to estimate dilutions at the edges of the ZID and aquatic life mixing zone during critical conditions. The estimated dilution at the edge of the aquatic life mixing zone is calculated using the permitted flow of 4.9 MGD and the 7-day, 2-year (7Q2) flow of 0.1 cubic feet per second (cfs) for unnamed drainage ditch. The estimated dilution at the edge of the ZID is calculated using the permitted flow of 4.9 MGD and 25% of the 7Q2 flow.

The following critical effluent percentages are being used:

Acute Effluent %:

99.67%

Chronic Effluent %:

98.70%

Waste load allocations (WLAs) are calculated using the above estimated effluent percentages, criteria outlined in the Texas Surface Water Quality Standards, and partitioning coefficients for metals (when appropriate and designated in the implementation procedures). The WLA is the end-of-pipe effluent concentration that can be discharged when, after mixing in the receiving stream, instream numerical criteria will not be exceeded. From the WLA, a long-term average (LTA) is calculated using a log normal probability distribution, a given coefficient of variation (0.6), and a 90th percentile confidence level. The LTA is the long-term average effluent concentration for which the WLA will never be exceeded using a selected percentile confidence level. The lower of the two LTAs (acute and chronic) is used to calculate a daily average and daily maximum effluent limitation for the protection of aquatic life using the same statistical considerations with the 99th percentile confidence level and a standard number of monthly effluent samples collected (12).

Assumptions used in deriving the effluent limitations include segment values for hardness, chlorides, pH, and total suspended solids (TSS) according to the segment-specific values contained in the TCEQ guidance document "Procedures to Implement the Texas Surface Water Quality Standards, June 2010." The Segment No. 2491 values are 5011 mg/l for hardness (as calcium carbonate), 18700 mg/l chlorides, 8.0 standard units for pH, and 12 mg/l for TSS. This discharge is into a freshwater body that flows into a saltwater segment. Therefore, data from a representative freshwater segment such as Segment No. 2202 is recommended for screening the freshwater portion of the discharge route using the applicable TEXTOX menu for calculating the water quality-based effluent limitations. The Segment No. 2202 values are 713 mg/l for hardness (as calcium carbonate), 860 mg/l chlorides, 7.4 standard units for pH, and 72 mg/l for TSS. For additional details on the calculation of water quality-based effluent limitations, refer to the TCEQ guidance document.

TCEQ practice for determining significant potential is to compare the reported analytical data against percentages of the calculated daily average water quality-based effluent limitation. Permit limitations are required when analytical data reported in the application exceeds 85% of the calculated daily average water quality-based effluent limitation. Monitoring and reporting is required when analytical data reported in the application exceeds 70% of the calculated daily average water quality-based effluent limitation. See Attachment A of this Fact Sheet for the calculated water quality-based effluent limitations for aquatic life protection.

(b) PERMIT ACTION

No analytical data is available for screening against water quality-based effluent limitations because the facility did not provide the effluent data. Therefore, Other Requirement No. 11 has been included in the draft permit requiring the permittee to conduct effluent data sampling with results of the analytical testing submitted within 90 days after issuance of this permit. Upon review of the effluent data, the permit may be reopened to include additional monitoring requirements or limits for the protection of aquatic life, as needed.

The total zinc effluent limits in the existing permit were compared to the calculated water quality-based effluent limits for the protection of aquatic life for total zinc from Attachment A of this Fact Sheet. The comparison of the existing and calculated effluent limitations are shown in the below table. The existing total zinc effluent limitations are more protective and are continued in the draft permit.

Parameter	Daily Average		Daily Maximum	
	mg/L lbs/day		mg/L	
Zinc, total (Existing)	0.53	22	1.12	
Zinc, total (Calculated)	2.9	118	6.1	

(3) AQUATIC ORGANISM BIOACCUMULATION CRITERIA

(a) SCREENING

Discharge is to an unnamed drainage ditch, which is a perennial freshwater (FW) ditch, stream, or river. Water quality-based effluent limitations for the protection of human health are calculated using criteria for the consumption of freshwater fish tissue found in Table 2 of the Texas Surface Water Quality Standards (30 TAC Chapter 307). Freshwater fish tissue bioaccumulation criteria are applied at the edge of the human health mixing zone. The human health mixing zone for this discharge is identical to the aquatic life mixing zone. TCEQ uses the mass balance equation to estimate dilution at the edge of the human health mixing zone during average flow conditions. The estimated dilution at the edge of the human health mixing zone is calculated using the permitted flow of 4.9 MGD and the harmonic mean flow of 0.2 cfs for the unnamed drainage ditch. The following critical effluent percentage is being used:

Human Health Effluent %: 97.43%

Water quality-based effluent limitations for human health protection against the consumption of fish tissue are calculated using the same procedure as outlined for calculation of water quality-based effluent limitations for aquatic life protection. A 99th percentile confidence

level in the long-term average calculation is used with only one longterm average value being calculated.

Significant potential is again determined by comparing reported analytical data against 70% and 85% of the calculated daily average water quality-based effluent limitation. See Attachment A of this Fact Sheet for the calculated water quality-based effluent limitations for protection of human health.

(b) PERMIT ACTION

No analytical data is available for screening against water quality-based effluent limitations because the facility did not provide the effluent data. Therefore, Other Requirement No. 11 has been included in the draft permit requiring the permittee to conduct effluent data sampling with results of the analytical testing submitted within 90 days after issuance of this permit. Upon review of the effluent data, the permit may be reopened to include additional monitoring requirements or limits for the protection of human health, as needed.

(4) DRINKING WATER SUPPLY PROTECTION

(a) SCREENING

Water Quality Segment No. 2491, which receives the discharge from this facility, is not designated as a public water supply. Screening reported analytical data of the effluent against water quality-based effluent limitations calculated for the protection of a drinking water supply is not applicable.

(b) PERMIT ACTION

None.

(5) WHOLE EFFLUENT TOXICITY (BIOMONITORING) CRITERIA

(a) SCREENING

TCEQ has determined that there may be pollutants present in the effluent that may have the potential to cause toxic conditions in the receiving stream. Whole effluent biomonitoring is the most direct measure of potential toxicity that incorporates the effects of synergism of effluent components and receiving stream water quality characteristics. Biomonitoring of the effluent is, therefore, required as a condition of this permit to assess potential toxicity.

The existing permit includes chronic freshwater biomonitoring requirements. A summary of the biomonitoring testing for the facility indicates that in the past 3 years, the permittee performed twelve chronic tests, with no demonstrations of significant toxicity (i.e., zero failures) by the water flea or fathead minnow.

REASONABLE POTENTIAL DETERMINATION

A reasonable potential (RP) determination was performed in accordance with 40 CFR §122.44(d)(1)(ii) to determine whether the discharge will reasonably be expected to cause or contribute to an exceedance of a state water quality standard or criterion within that standard. Each test species is evaluated separately. The RP determination is based on representative data from the previous three years of chronic whole effluent toxicity (WET) testing. This determination was performed in accordance with the methodology outlined in the TCEQ letter to the EPA dated December 28, 2015, and approved by the EPA in a letter dated December 28, 2015.

With no demonstrations of significant toxicity during the period of record for either test species (i.e., zero failures), a determination of no reasonable potential was made. All of the test results were used for this determination.

(b) PERMIT ACTION

The test species are appropriate to measure the toxicity of the effluent consistent with the requirements of the State water quality standards. The biomonitoring frequency has been established to reflect the likelihood of ambient toxicity and to provide data representative of the toxic potential of the facility's discharge. This permit may be reopened to require effluent limits, additional testing, and/or other appropriate actions to address toxicity if biomonitoring data show actual or potential ambient toxicity to be the result of the permittee's discharge to the receiving stream or water body.

(6) WHOLE EFFLUENT TOXICITY CRITERIA (24-HOUR ACUTE)

(a) SCREENING

The existing permit includes 24-hour acute freshwater biomonitoring language. A summary of the biomonitoring testing for the facility indicates that in the past three years, the permittee has performed twelve 24-hour acute tests, with no demonstrations of significant mortality (i.e., zero failures).

(b) PERMIT ACTION

The draft permit includes 24-hour 100% acute biomonitoring tests for the life of the permit.

9. WATER QUALITY VARIANCE REQUESTS

No variance requests have been received.

10. PROCEDURES FOR FINAL DECISION

When an application is declared administratively complete, the Chief Clerk sends a letter to the applicant advising the applicant to publish the Notice of Receipt of Application and Intent to Obtain Permit in the newspaper. In addition, the Chief Clerk instructs the applicant to place a copy of the application in a public place for review and copying in the county where the facility is or will be located. This application will be in a public place throughout the comment period. The Chief Clerk also mails this notice to any interested persons and, if required, to landowners identified in the permit application. This notice informs the public about the application and provides that an interested person may file comments on the application or request a contested case hearing or a public meeting.

Once a draft permit is completed, it is sent, along with the Executive Director's preliminary decision, as contained in the technical summary or fact sheet, to the Chief Clerk. At that time, the Notice of Application and Preliminary Decision will be mailed to the same people and published in the same newspaper as the prior notice. This notice sets a deadline for making public comments. The applicant must place a copy of the Executive Director's preliminary decision and draft permit in the public place with the application.

Any interested person may request a public meeting on the application until the deadline for filing public comments. A public meeting is intended for the taking of public comment and is not a contested case proceeding.

After the public comment deadline, the Executive Director prepares a response to all significant public comments on the application, or the draft permit raised during the public comment period. The Chief Clerk then mails the Executive Director's response to comments and final decision to people who have filed comments, requested a contested case hearing, or requested to be on the mailing list. This notice provides that if a person is not satisfied with the Executive Director's response and decision, they can request a contested case hearing or file a request to reconsider the Executive Director's decision within 30 days after the notice is mailed.

The Executive Director will issue the permit unless a written hearing request or request for reconsideration is filed within 30 days after the Executive Director's response to comments and final decision is mailed. If a hearing request or request for reconsideration is filed, the Executive Director will not issue the permit and will forward the application and request to the TCEQ Commissioners for their consideration at a scheduled Commission meeting. If a contested case hearing is held, it will be a legal proceeding similar to a civil trial in state district court.

If the Executive Director calls a public meeting or the Commission grants a contested case hearing as described above, the Commission will give notice of the date, time, and place of the meeting or hearing. If a hearing request or request for reconsideration is made, the Commission will consider all public comments in making its decision and shall either adopt the Executive Director's response to public comments or prepare its own response.

For additional information about this application, contact Melinda Luxemburg, P.E. at (512) 239-4541.

11. ADMINISTRATIVE RECORD

The following items were considered in developing the draft permit:

A. PERMIT(S)

TPDES Permit No. WQ0010619003 issued on November 6, 2018.

B. APPLICATION

Application received on June 13, 2023, and additional information received on July 21, 2023, July 24, 2023, July 27, 2023, and August 4, 2023.

C. MEMORANDA

Interoffice Memoranda from the Water Quality Assessment Section of the TCEQ Water Quality Division. Interoffice Memorandum from the Pretreatment Team of the TCEQ Water Quality Division.

D. MISCELLANEOUS

Federal Clean Water Act § 402; Texas Water Code § 26.027; 30 TAC Chapters 30, 305, 309, 312, and 319; Commission policies; and U.S. Environmental Protection Agency guidelines.

Texas Surface Water Quality Standards, 30 TAC §§307.1 - 307.10, TCEQ, effective March 1, 2018, as approved by EPA Region 6.

Texas Surface Water Quality Standards, 30 TAC §§307.1 - 307.10, TCEQ, effective March 6, 2014, as approved by EPA Region 6, for portions of the 2018 standards not approved by EPA Region 6.

Texas Surface Water Quality Standards, 30 TAC §§307.1 - 307.10, TCEQ, effective July 22, 2010, as approved by EPA Region 6, for portions of the 2014 standards not yet approved by EPA Region 6.

Texas Surface Water Quality Standards, 30 TAC §§307.1 - 307.10, TCEQ, effective August 17, 2000, and Appendix E, effective February 27, 2002, for portions of the 2010 standards not yet approved by EPA Region 6.

Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms, Fourth Edition (EPA-821-R-02-013).

Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms, Fifth Edition (EPA-821-R-02-012).

Procedures to Implement the Texas Surface Water Quality Standards (IP), Texas Commission on Environmental Quality, June 2010, as approved by the U.S. Environmental Protection Agency, and the IP, January 2003, for portions of the 2010 IP not approved by the U.S. Environmental Protection Agency.

Texas 2022 Clean Water Act Section 303(d) List, Texas Commission on Environmental Quality, June 21, 2022; approved by the U.S. Environmental Protection Agency on July 7, 2022.

Texas Natural Resource Conservation Commission, Guidance Document for Establishing Monitoring Frequencies for Domestic and Industrial Wastewater Discharge Permits, Document No. 98-001.000-OWR-WQ, May 1998.

Attachment A Calculated Water Quality Based Effluent Limitations

TEXTOX MENU #3 - PERENNIAL STREAM OR RIVER

The water quality-based effluent limitations developed below are calculated using:

Table 1, 2014 Texas Surface Water Quality Standards (30 TAC 307) for Freshwater Aquatic Life Table 2, 2018 Texas Surface Water Quality Standards for Human Health "Procedures to Implement the Texas Surface Water Quality Standards," TCEQ, June 2010

PERMIT INFORMATION

Permittee Name:	City of Weslaco
TPDES Permit No.:	WQ0010619003
Outfall No.:	001
Prepared by:	Melinda Luxemburg, P.E.
Date:	December 21, 2023

DISCHARGE INFORMATION

DISCHARGE INFORMATION	
Intermittent Receiving Waterbody:	Unnamed drainage ditch, a perennial freshwater ditch [Human Health criteria apply for incidental fish only).
Segment No.:	2491 (use freshwater Segment No. 2202 values.
TSS (mg/L):	72
pH (Standard Units):	7.4_
Hardness (mg/L as CaCO₃):	713
Chloride (mg/L):	860
Effluent Flow for Aquatic Life (MGD):	4.9
Critical Low Flow [7Q2] (cfs):	0.1
% Effluent for Chronic Aquatic Life (Mixing Zone):	98.70
% Effluent for Acute Aquatic Life (ZID):	99.67
Effluent Flow for Human Health (MGD):	4.9
Harmonic Mean Flow (cfs):	0.2
% Effluent for Human Health:	97.43
Human Health Criterion (select: PWS, FISH, or INC)	INC

CALCULATE DISSOLVED FRACTION (AND ENTER WATER EFFECT RATIO IF APPLICABLE):

Stream/River Metal	Intercept (b)	Slope (m)	Partition Coefficient (Kp)	Dissolved Fraction (Cd/Ct)	Source	Water Effect Ratio (WER)	Source
Aluminum	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Arsenic	5.68	-0.73	21093.43	0.397		1.00	Assumed
Cadmium	6.60	-1.13	31711.32	0.305		1.00	Assumed
Chromium (total)	6.52	-0.93	62041.28	0.183		1.00	Assumed
Chromium (trivalent)	6.52	-0.93	62041.28	0.183		1.00	Assumed
Chromium (hexavalent)	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Copper	6.02	-0.74	44215.44	0.239		1.00	Assumed
Lead	6.45	-0.80	92073.36	0.131		1.00	Assumed
Mercury	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Nickel	5.69	-0.57	42787.85	0.245		1.00	Assumed
Selenium	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Silver	6.38	-1.03	29305.39	0.322		1.00	Assumed
Zinc	6.10	-0.70	63076.45	0.180		1.00	Assumed

AQUATIC LIFE

	FW	FW Chanala					Daily	Dally
	Acute	Chronic Criterion	WLAa	WLAc	LTAa	LTAc	Avg.	Max.
Parameter	Criterion (μg/L)	Criterion (μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)
Aldrin	3.0	N/A	3.01	N/A	1.72	N/A	2.54	5.36
Aluminum	991	N/A	994	N/A	570	N/A	837	1772
Arsenic	340	150	859	383	492	295	433	917
Cadmium	57.7	0.959	190.1	3.19	108.9	2.46	3.61	7.64
Carbaryl	2.0	N/A	2.01	N/A	1.15	N/A	1.69	3.58
Chlordane	2.4	0.004	2.41	0.0041	1.38	0.0031	0.0046	0.0097
Chlorpyrifos	0.083	0.041	0.083	0.042	0.048	0.032	0.047	0.099
Chromium (trivalent)	2847	370	15615	2051	8948	1579	2322	4912
Chromium (hexavalent)	15.7	10.6	15.8	10.7	9.0	8.3	12.2	25.7
Copper	90.4	50.7	379.4	215.0	217.4	165.6	243.4	515
Cyanide (free)	45.8	10.7	46.0	10.8	26.3	8.3	12.3	26.0
4,4'-DDT	1.1	0.001	1.10	0.0010	0.632	0.0008	0.0011	0.0024
Demeton	N/A	0.1	N/A	0.101	N/A	0.078	0.115	0.243
Diazinon	0.17	0.17	0.171	0.172	0.098	0.133	0.144	0.304
Dicofol [Kelthane]	59.3	19.8	59.5	20.1	34.1	15.4	22.7	48.0
Dieldrin	0.24	0.002	0.241	0.0020	0.138	0.0016	0.0023	0.0049
Diuron	210	70	211	71	121	55	80	170
Endosulfan I (alpha)	0.22	0.056	0.221	0.057	0.126	0.044	0.064	0.136
Endosulfan II (beta)	0.22	0.056	0.221	0.057	0.126	0.044	0.064	0.136
Endosulfan sulfate	0.22	0.056	0.221	0.057	0.126	0.044	0.064	0.136
Endrin	0.086	0.002	0.086	0.0020	0.049	0.0016	0.0023	0.0049
Guthion [Azinphos Methyl]	N/A	0.01	N/A	0.010	N/A	0.008	0.011	0.024
Heptachlor	0.52	0.004	0.52	0.0041	0.299	0.0031	0.0046	0.0097
Hexachlorocyclohexane (gamma)							0.000	0.40
[Lindane]	1.126	0.08	1.13	0.081	0.647	0.062	0.092	0.194
Lead	502	19.58	3845	151.3	2203	116.5	171.3	362
Malathion	N/A	0.01	N/A	0.010	N/A	0.008	0.011	0.024
Mercury	2.4	1.3	2.41	1.32	1.38	1.01	1.49	3.15
Methoxychlor	N/A	0.03	N/A	0.030	N/A	0.023	0.034	0.073
Mirex	N/A	0.001	N/A	0.0010	N/A	0.0008	0.0011	0.0024
Nickel	2467	274.0	10101	1133	5788	872	1282	271
Nonylphenol	28	6.6	28.1	6.7	16.1	5.15	7.6	16.0
Parathion (ethyl)	0.065	0.013	0.065	0.013	0.037	0.010	0.015	0.032
Pentachlorophenol	13.0	10.0	13.1	10.1	7.5	7.8	11.0	23.3
Phenanthrene	30	30	30.1	30.4	17.2	23.4	25.4	53.0
Polychlorinated Biphenyls [PCBs]	2.0	0.014	2.01	0.014	1.15	0.011	0.016	0.034
Selenium	20	5	20.1	5.07	11.5	3.90	5.7	12.:
Silver	0.8	N/A	27.79	N/A	15.93	N/A	23.41	49.
Toxaphene	0.78	0.0002	0.783	0.00020	0.448	0.00016	0.00023	0.0004
Tributyltin [TBT]	0.13	0.024	0.130	0.024	0.075	0.019	0.028	0.058
2,4,5 Trichlorophenol	136	64	136	65	78.2	49.9	73	15
Zinc	619	624	3441	3504	1972	2698	2899	613

HUMAN HEALTH (APPLIES FOR INCIDENTAL FRESHWATER FISH TISSUE)
CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

Pormameter fight of clients (riterios clients) Fish (riterios clients) Vision (riterios clients) Vision (riterios clients) Design (riterios clients) Port (ri	CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFF	~~~ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	TIONS:		***************************************			P Майтен-то-органуудуулурган түүлө жүй жоран алда адаа
Parameter King/low Circleson Wing/low Wing/low Wing/low Low Monks Acrylontilie 1.1466 1.15 1.15 1.150 1.1864 1.6164 34.38 a Aldirin 1.1466 1.1476 1.1477 1.1317 1.1852 1.2521 1.6104 3.000 Antimacen 110 1.177 1.317 1.932. 1.2521 1.902. 1.903. Antimacen 120 1.77 1.017 1.902. 1.004 N.0 N.0 N.0 1.009. 1.009		Water and Fish	Fish Only	Incidental Elch				Dally
Acronomicine 1.0			-		WLAh	LTAh	Daily Avg.	•
Abbrid	Parameter	(μg/L)	(μg/ L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)
Anthriscene	Acrylonitrile	1.0	115	1150	1180.34	1097.71	1613.64	3413.89
Antimony	Aldrin	1.146E-05	1.147E-05	1.147E-04	1.18E-04	1.09E-04	1.61E-04	3.40E-04
Arsenic 10	Anthracene	1109	1317	13170	13517	12571	18480	39096
Barium	Antimony	6	1071	10710	10992.5	10223.1	15027.9	31793.7
Benzene	Arsenic	10	N/A	N/A	N/A	N/A	N/A	N/A
Benzidine	Barium	2000	N/A	N/A	N/A	N/A	N/A	N/A
Benzo(a)anthracene	Benzene	5	581	5810	5963.3	5545.8	8152.4	17247.6
Benzo(p)pyrene 0.0025	Benzidine	0.0015	0.107	1.07	1.0982	1.0214	1.5014	3.1764
Bis(chloromethyl)ether 0.0024 0.2745 2.745 2.8174 2.6202 3.852 8.149 Bis(2-chloroethyl)ether 0.60 42.83 428.3 438.6 408.83 600.98 1271.45 127.45 128.45 12	Benzo(a)anthracene	0.024	0.0,25	0.25	0.257	0.239	0.351	0.742
Bis 2-chloroethyl bether 0.60	Benzo(a)pyrene	0.0025	0.0025	0.025	0.0257	0.0239	0.035	0.074
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate) 6	Bis(chloromethyl)ether	0.0024	0.2745	2.745	2.8174	2.6202	3.852	8.149
Bromodichloromethane [Dichlorobromomethane] 10.2 275 2750 282.5 262.5 385.8 81484 Bromoform [Tribromomethane] 66.9 1060 1060 10880 10118 14874 31467 Cadmium 5 N/A N/A N/A N/A N/A 100 1088 1461 450 460 460 467.1 49.1 45.5 1365.5 1365.6 1616 160 202.7 202.9 0.023 0.024 10.0 100 2737 2730 26092 26126 38405 8125.1 1616 1600 100 2737 28092 26126 38405 8125.1 1616 1600 2737 28092 26126 38405 8125.1 1616 1600 2737 28092 26126 38405 8125.1 1616 1600 2737 28092 26126 38405 18415 14600 1600 2000 2000 5152 4792 27044 14902 14000 <	Bis(2-chloroethyl)ether	0.60	42.83	428.3	439.60	408.83	600.98	1271.45
Bromoform [Tribromomethane] 66.9 1060 10600 10800 10110 10870	Bis(2-ethylhexyl) phthalate (Di(2-ethylhexyl) phthalate)	6	7.55	75.5	77.5	72.1	105.9	224.1
Cadmium 5 N/A N/A N/A N/A N/A N/A Carbon Tetrachloride 4.5 4.6 4.6 472.1 439.1 645.5 1365.6 Chlordane 0.0025 0.025 0.025 0.025 0.023 0.035 0.004 Chlorodine 100 2737 27370 28092 26126 38405 5125.1 Chlorodibromomethane [Dibromochloromethane] 7.5 183 1830 1878.3 1746.8 2567.8 5432.5 Chlorodibromomethane [Dibromochloromethane] 7.5 183 1830 1878.3 1746.8 2567.8 5432.5 Chlorodibromomethane [Dibromochloromethane] 6.0 502 5020 515.2 479.0 10800 228493 Chromium [hexavalent] 6.0 2.0 5020 515.2 479.0 740.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0	Bromodichloromethane [Dichlorobromomethane]	10.2	275	2750	2822.5	2625.0	3858.7	8164
Carbon Tetrachloride 4.5 46 460 472.1 439.1 645.5 1365.6 Chlordane 0.0025 0.0025 0.025 0.025 0.025 0.023 0.035 0.074 Chlorobenzene 100 2.737 27370 2809 26125 38405 8125.7 Chloroform (Trichloromethane) 7.5 183 1830 1878.3 1746.8 2567.8 5432.5 Chrosoform (Trichloromethane) 7.0 7697 7690 79001 73470 108002 228493 Chrysene 2.45 2.52 25.2 25.86 24.05 35.4 74.8 Cresols (Methylphenols) 1041 9301 93010 95464 88781 3300 276109 Qyanide (free) 200 N/A N/A N/A N/A N/A N/A Qyanide (free) 0.0023 0.0013 0.0013 0.0013 0.0013 0.0013 0.0013 0.0013 0.0014 0.004 0.04 0.04 <td>Bromoform [Tribromomethane]</td> <td>66.9</td> <td>1060</td> <td>10600</td> <td>10880</td> <td>10118</td> <td>14874</td> <td>31467</td>	Bromoform [Tribromomethane]	66.9	1060	10600	10880	10118	14874	31467
Chlordane 0.0025 0.0025 0.025 0.025 0.0239 0.035 0.035 Chlorobenzene 100 2737 27370 28092 26126 38405 81251 Chloroform (Trichloromethane [Dibromochloromethane) 7.5 183 1830 1878.3 1746.8 2567.8 5432.5 Chloroform (Trichloromethane) 70 7697 76970 79001 73470 108002 228493 Chromium (hexavalent) 62 502 5020 5152 4792 7044 14902 Chrysene 2.45 2.52 25.86 24.05 35.4 74.8 Cresols [Methylphenols] 1041 9301 9301 9546 8781 130508 276109 Cyanide (free) 200 N/A N/A N/A N/A N/A 140 0.018 0.058 206109 206109 0.028 20609 4.44 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001	Cadmium	5	N/A	N/A	N/A	N/A	N/A	N/A
Chlorobenzene 100 2737 27370 28092 26126 38405 81251 Chlorodibromomethane [Dibromochloromethane] 7.5 183 1830 1878.3 1746.8 2567.8 5432.5 Chloroform [Trichloromethane] 70 7697 76970 79001 73470 108002 228493 Chromium (hexavalent) 62 50.25 50.25 5152 4792 7044 14902 Chrysene 2.45 2.52 25.86 24.05 35.4 74.8 Cresols [Methylphenols] 1041 9301 93010 95464 88781 130508 276109 Cyanide (free) 200 N/A N/A N/A N/A N/A N/A N/A 1444 14400 0.0014 0.0013 0.0012 0.0028 0.0594 0.0018 0.0094 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.	Carbon Tetrachloride	4.5	46	460	472.1	439.1	645.5	1365.6
Chlorodibromomethane [Dibromochloromethane] 7.5 183 1830 1878.3 1746.8 2567.8 5432.5 Chloroform [Trichloromethane] 70 7697 76970 79001 73470 108002 228493 Chromium (hexavalent) 62 502 5020 50152 4792 7044 14902 Chrysene 2.45 2.52 25.86 24.05 35.4 74.8 Cresols (Methylphenols] 1041 9301 93010 95464 88781 13008 276109 Cyanide (free) 200 N/A N/A N/A N/A N/A N/A 4,4-DDD 0.0002 0.00013 0.0013 0.0013 0.0013 0.0013 0.0014 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.0013 0.0013 0.0012 0.0012 0.0012 0.0012 0.0012 0.0012 0.0012 0.0012 0.0014 0.004 0.004 0.004 0.004 0.004	Chlordane	0.0025	0.0025	0.025	0.0257	0.0239	0.035	0.074
Chloroform [Trichloromethane] 70 7697 76970 79001 73470 108002 228493 Chromium (hexavalent) 62 502 5020 5152 4792 7044 14902 Chrysene 2.45 2.55 25.2 25.86 24.05 35.4 74.8 Cresols [Methylphenols] 1041 9301 9301 95464 88781 130508 276109 Cyanide (free) 200 N/A N/A N/A M/A N/A 1008 0.0594 4,4-DDD 0.0021 0.0021 0.0013 0.0014 0.0024 0.0014 0.0038 0.0056 0.0192 0.0019 0.0018 0.0019 0.0018 0.0019 0.0018 0.0019 0.0018 0.0019 0.0018<	Chlorobenzene	100	2737	27370	28092	26126	38405	81251
Chromium (hexavalent) 62 502 502 5152 4792 7044 14902 Chrysene 2.45 2.52 25.2 25.86 24.05 35.4 74.8 Cresols [Methylphenols] 1041 9301 93010 95464 88781 130508 276109 Cyanide [free] 200 N/A N/A N/A N/A N/A N/A 4,4*DDD 0.0001 0.00013 0.00013 0.0013 0.0013 0.0013 0.0013 0.0013 0.0013 0.0013 0.0013 0.0013 0.0014 0.004 0.004 0.004 0.0014 0.0088 0.005 0.0119 2.4*D 70 N/A 1.4*D 1.2*D 1.2*D <td>Chlorodibromomethane [Dibromochloromethane]</td> <td>7.5</td> <td>183</td> <td>1830</td> <td>1878.3</td> <td>1746.8</td> <td>2567.8</td> <td>5432.5</td>	Chlorodibromomethane [Dibromochloromethane]	7.5	183	1830	1878.3	1746.8	2567.8	5432.5
Chrysene 2.45 2.52 25.2 25.86 24.05 35.4 74.8 Cresols [Methylphenols] 1041 9301 9301 95464 88781 130508 276109 Cyanide (free) 200 N/A N/A N/A N/A N/A N/A 4,4*DDD 0.0002 0.0013 0.0013 0.0013 0.0013 0.0013 0.0014 0.0041 0.0034 0.0041 0.0034 0.0014 0.0034 0.0041 0.0034 0.0041 0.0038 0.0056 0.0119 4,4*DDT 0.0004 0.0004 0.004 0.0041 0.0038 0.0056 0.0119 4,4*DT 70 0.0004 0.004 0.0041 0.0038 0.0056 0.0119 2,4*D 70 0.0004 0.004 0.004 0.0041 0.0038 0.0056 0.0119 2,4*D 70 0.0004 0.004 0.004 0.0041 0.0038 0.0056 0.0119 2,4*D 0.0004<	Chloroform [Trichloromethane]	70	7697	76970	79001	73470	108002	228493
Cresols [Methylphenols] 1041 9301 93010 95464 88781 130508 276109 Cyanide [free] 200 N/A 0.0013 0.0013 0.0013 0.0013 0.0013 0.0013 0.0013 0.0013 0.0013 0.0013 0.0013 0.0013 0.0013 0.0014 0.0038 0.0056 0.0119 0.0014 0.003 0.0014 0.003 0.0014 0.003 0.0014 0.003 0.0014 0.003 0.0014 0.003 0.0014 0.003 0.0014 0.003 0.0013 0.0013 0.0013 0.0013 0.0013 0.0013 0.0013 0.0013 0.0013 0.0013 0.0013 0.0013 0.0013 0.0013 0.0013 0.0013 0.0013	Chromium (hexavalent)	62	502	5020	5152	4792	7044	14902
Cyanide (free) 200 N/A 0.00131 0.00131 0.00133 0.00134 0.00132 0.00134 0.00132 0.00134 0.00134 0.00133 0.00124 0.00182 0.0038 0.0036 0.00139 0.00134 0.0014 0.0038 0.0056 0.01191 0.0034 0.004 0.0041 0.0038 0.0056 0.01191 0.0034 0.004 0.004 0.0041 0.0038 0.0056 0.01191 0.0034 0.004 0.0041 0.0038 0.0056 0.01191 0.0034 0.004 0.004 0.0041 0.0038 0.0056 0.0119 0.0038 0.0056 0.0119 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.00	Chrysene	2.45	2.52	25.2	25.86	24.05	35.4	74.8
4,4'-DDD 0.002 0.002 0.003 0.0013 0.0013 0.0013 0.0013 0.0013 0.0013 0.0013 0.0013 0.0013 0.0013 0.0013 0.0013 0.0013 0.0014 0.00182 0.0039 4,4'-DDT 0.0004 0.0004 0.004 0.0041 0.0038 0.0056 0.0119 2,4'-D 70 N/A N/A N/A N/A N/A N/A N/A Danitol [Fenpropathrin] 262 473 4730 4855 4515 6637 14041 1,2-Dibromoethane [Ethylene Dibromide] 0.17 4.24 42.4 43.519 40.472 59.494 125.87 m-Dichlorobenzene [1,3-Dichlorobenzene] 302 595 5950 6107 5679 8349 17663 D-Dichlorobenzene [1,4-Dichlorobenzene] 75 N/A 1,2-Dichlorobenzene [1,3-Dichlorobenzene] 7 5114 5514	Cresols [Methylphenols]	1041	9301	93010	95464	88781	130508	276109
4,4'-DDE 0.00013 0.00013 0.0013 0.00133 0.00124 0.00182 0.00199 4,4'-DDT 0.0004 0.0004 0.004 0.0041 0.0038 0.0056 0.0119 2,4'-D 70 N/A	Cyanide (free)	200	N/A	N/A	N/A	N/A	N/A	N/A
4,4'-DDT 0,0004 0,0004 0,004	4,4'-DDD	0.002	0.002	0.02	0.0205	0.0191	0.0281	0.0594
2,4'-D 70 N/A 14041 125.87 14041 125.87 14041 125.87 14041 125.87 14041 125.87 14041 125.87 14041 125.87 14041 125.87 14041 125.87 14041 125.87 14041 125.87 14041 125.87 14041 125.87 125.97 125.81 125.97 125.81 <td>4,4'-DDE</td> <td>0.00013</td> <td>0.00013</td> <td>0.0013</td> <td>0.00133</td> <td>0.00124</td> <td>0.00182</td> <td>0.0039</td>	4,4'-DDE	0.00013	0.00013	0.0013	0.00133	0.00124	0.00182	0.0039
Danitol [Fenpropathrin] 262 473 4730 4855 4515 6637 14041 1,2-Dibromoethane [Ethylene Dibromide) 0.17 4.24 42.4 43.519 40.472 59.494 125.87 m-Dichlorobenzene [1,3-Dichlorobenzene] 322 595 5950 6107 5679 8349 17663 o-Dichlorobenzene [1,4-Dichlorobenzene] 600 3299 32990 33860 31490 46290 97934 p-Dichlorobenzene [1,4-Dichlorobenzene] 75 N/A N/A<	4,4'-DDT	0.0004	0.0004	0.004	0.0041	0.0038	0.0056	0.0119
1,2-Dibromoethane [Ethylene Dibromide] 0.17 4.24 42.4 43.519 40.472 59.494 125.87 m-Dichlorobenzene [1,3-Dichlorobenzene] 322 595 5950 6107 5679 8349 17663 c-Dichlorobenzene [1,2-Dichlorobenzene] 600 3299 3290 33860 31490 46290 97934 p-Dichlorobenzene [1,4-Dichlorobenzene] 75 N/A N/A N/A N/A N/A N/A 3,3'-Dichlorobenzidine 0.79 2.24 22.4 22.99 21.38 31.43 66.50 1,2-Dichloroethane 5 364 3640 3736.0 3474.5 510.5 10805.7 1,1-Dichloroethylene [1,1-Dichloroethene] 7 55114 551140 565679.3 526081.7 773340.2 1636114.2 Dichloropropane 5 259 2590 2658.3 2472.2 3634.2 7688.7 1,3-Dichloropropane 5 259 2590 2658.3 2472.2 3634.2 7688.7 <th< td=""><td>2,4'-D</td><td>70</td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td></th<>	2,4'-D	70	N/A	N/A	N/A	N/A	N/A	N/A
m-Dichlorobenzene [1,3-Dichlorobenzene] 322 595 5950 6107 5679 8349 17663 o-Dichlorobenzene [1,2-Dichlorobenzene] 600 3299 32990 33860 31490 46290 97934 p-Dichlorobenzene [1,4-Dichlorobenzene] 75 N/A	Danitol [Fenpropathrin]	262	473	4730	4855	4515	6637	14041
o-Dichlorobenzene [1,2-Dichlorobenzene] 600 3299 32990 33860 31490 46290 97934 p-Dichlorobenzene [1,4-Dichlorobenzene] 75 N/A	1,2-Dibromoethane (Ethylene Dibromide)	0.17	4.24	42.4	43.519	40.472	59.494	125.87
p-Dichlorobenzene [1,4-Dichlorobenzene] 75 N/A 1.2 2 2 2 2 2 3 31.43 66.50 3 66.50 1	m-Dichlorobenzene [1,3-Dichlorobenzene]	322	595	5950	6107	5679	8349	17663
3,3-Dichlorobenzidine 0,79 2,24 22.4 22.99 21.38 31.43 66.50 1,2-Dichloroethane 5 364 3640 3736.0 3474.5 5107.5 10805.7 1,1-Dichloroethylene {1,1-Dichloroethene} 7 55114 551140 565679.3 526081.7 773340.2 1636114.2 Dichloromethane [Methylene Chloride] 5 13333 13330 136847.3 127268.0 187083.9 395803.4 1,2-Dichloropropane 5 259 2590 2658.3 2472.2 3634.2 7688.7 1,3-Dichloropropane [1,3-Dichloropropylene] 2.8 119 1190 1221.39 1135.90 1669.8 3532.6 Dicofol [Kelthane] 0.30 0.30 3 3.08 2.864 4.21 8.91 Dieldrin 2.0E-05 2.0E-05 2.0E-04 2.05E-04 1.91E-04 2.81E-04 5.94E-04 2,4-Dimethylphenol 444 8436 84360 86585 80524 118371 250431	o-Dichlorobenzene [1,2-Dichlorobenzene]	600	3299	32990	33860	31490	46290	97934
1,2-Dichloroethane 5 364 3640 3736.0 3474.5 5107.5 10805.7 1,1-Dichloroethylene [1,1-Dichloroethene] 7 55114 551140 565679.3 526081.7 773340.2 1636114.2 Dichloromethane [Methylene Chloride] 5 13333 133330 136847.3 127268.0 187083.9 395803.4 1,2-Dichloropropane 5 259 2590 2658.3 2472.2 3634.2 7688.7 1,3-Dichloropropane [1,3-Dichloropropylene] 2.8 119 1190 1221.39 1135.90 1669.8 3532.6 Dicofol [Kelthane] 0.30 0.30 3 3.08 2.864 4.21 8.91 Dieldrin 2.0E-05 2.0E-05 2.0E-04 2.05E-04 1.91E-04 2.81E-04 5.94E-04 2,4-Dimethylphenol 444 8436 84360 86585 80524 118371 250431 Di-n-Butyl Phthalate 88.9 92.4 924 948 882 1297 2743	p-Dichlorobenzene [1,4-Dichlorobenzene]	75	N/A	N/A	N/A	N/A	N/A	N/A_
1,1-Dichloroethylene [1,1-Dichloroethene] 7 55114 551140 565679.3 526081.7 773340.2 136114.2 Dichloromethane [Methylene Chloride] 5 13333 133330 136847.3 127268.0 187083.9 395803.4 1,2-Dichloropropane 5 259 2590 2658.3 2472.2 3634.2 7688.7 1,3-Dichloropropene [1,3-Dichloropropylene] 2.8 119 1190 1221.39 1135.90 1669.8 3532.6 Dicofol [Kelthane] 0.30 0.30 3 3.08 2.864 4.21 8.91 Dieldrin 2.0E-05 2.0E-05 2.0E-04 2.05E-04 1.91E-04 2.81E-04 5.94E-04 2,4-Dimethylphenol 444 8436 84360 86585 80524 118371 250431 Di-n-Butyl Phthalate 88.9 92.4 924 948 882 1297 2743	3,3'-Dichlorobenzidine	0.79	2.24	22.4	22.99	21.38	31.43	66.50
Dichloromethane [Methylene Chloride] 5 13333 13330 136847.3 127268.0 187083.9 395803.4 1,2-Dichloropropane 5 259 2590 2658.3 2472.2 3634.2 7688.7 1,3-Dichloropropene [1,3-Dichloropropylene] 2.8 119 1190 1221.39 1135.90 1669.8 3532.6 Dicofol [Kelthane] 0.30 0.30 3 3.08 2.864 4.21 8.91 Dieldrin 2.0E-05 2.0E-05 2.0E-04 2.05E-04 1.91E-04 2.81E-04 5.94E-04 2,4-Dimethylphenol 444 8436 84360 86585 80524 118371 250431 Di-n-Butyl Phthalate 88.9 92.4 924 948 882 1297 2743	1,2-Dichloroethane	5	364	3640	3736.0	3474.5	5107.5	10805.7
1,2-Dichloropropane 5 259 2590 2658.3 2472.2 3634.2 7688.7 1,3-Dichloropropene [1,3-Dichloropropylene] 2.8 119 1190 1221.39 1135.90 1669.8 3532.6 Dicofol [Kelthane] 0.30 0.30 3 3.08 2.864 4.21 8.91 Dieldrin 2.0E-05 2.0E-05 2.0E-04 2.05E-04 1.91E-04 2.81E-04 5.94E-04 2,4-Dimethylphenol 444 8436 84360 86585 80524 118371 250431 Di-n-Butyl Phthalate 88.9 92.4 924 948 882 1297 2743	1,1-Dichloroethylene [1,1-Dichloroethene]	7	55114	551140	565679.3	526081.7	773340.2	1636114.2
1,3-Dichloropropene [1,3-Dichloropropylene] 2.8 119 1190 1221.39 1135.90 1669.8 3532.6 Dicofol [Kelthane] 0.30 0.30 3 3.08 2.864 4.21 8.91 Dieldrin 2.0E-05 2.0E-05 2.0E-04 2.05E-04 1.91E-04 2.81E-04 5.94E-04 2,4-Dimethylphenol 444 8436 84360 86585 80524 118371 250431 Di-n-Butyl Phthalate 88.9 92.4 924 948 882 1297 2743	Dichloromethane (Methylene Chloride)	55	13333	133330	136847.3	127268.0	187083.9	395803.4
Dicofol [Kelthane] 0.30 0.30 3 3.08 2.864 4.21 8.91 Dieldrin 2.0E-05 2.0E-05 2.0E-04 2.05E-04 1.91E-04 2.81E-04 5.94E-04 2,4-Dimethylphenol 444 8436 84360 86585 80524 118371 250431 Di-n-Butyl Phthalate 88.9 92.4 924 948 882 1297 2743	1,2-Dichloropropane	5	259	2590	2658.3	2472.2	3634.2	7688.7
Dieldrin 2.0E-05 2.0E-05 2.0E-04 2.05E-04 1.91E-04 2.81E-04 5.94E-04 2,4-Dimethylphenol 444 8436 84360 86585 80524 118371 250431 Di-n-Butyl Phthalate 88.9 92.4 924 948 882 1297 2743	1,3-Dichloropropene [1,3-Dichloropropylene]	2.8	119	1190	1221.39	1135.90	1669.8	3532.6
2,4-Dimethylphenol 444 8436 84360 86585 80524 118371 250431 Di-n-Butyl Phthalate 88.9 92.4 924 948 882 1297 2743	Dicofol (Kelthane)	0.30	0.30	3	3.08	2.864	4.21	8.91
Di-n-Butyl Phthalate 88.9 92.4 924 948 882 1297 2743	Dieldrin	2.0E-05	2.0E-05	2.0E-04	2.05E-04	1.91E-04	2.81E-04	5.94E-04
	2,4-Dimethylphenol	444	8436	84360	86585	80524	118371	250431
Dioxins/Furans [TCDD Equivalents] 7.80E-08 7.97E-08 7.97E-07 8.18E-07 7.61E-07 1.12E-06 2.37E-06	Di-n-Butyl Phthalate	88.9	92.4	924	948	882	1297	2743
	Dioxins/Furans [TCDD Equivalents]	7.80E-08	7.97E-08	7.97E-07	8.18E-07	7.61E-07	1.12E-06	2.37E-06

Attachment A Calculated Water Quality Based Effluent Limitations

HUMAN HEALTH (APPLIES FOR INCIDENTAL FRESHWATER FISH TISSUE)

ALCULATE DAILY AVERAGE AND DAILY MAXIMU	Water		Incidental				
	and Fish	Fish Only	Fish	WLAh	LTAh	Dally Avg.	Daily Max
	Criterion (μg/L)	Criterion (μg/L)	Criterion (μg/L)	WLAN (μg/L)	(μg/L)	Duny Avg. (μg/L)	(μg/L)
Parameter	0.02	0.02	0.2	0.205	0.191	0.281	0.59
Endrin	53.5	2013	20130	20661	19215	28246	5975
Epichlorohydrin			18670	19163	17821	26197	5542
Ethylbenzene	700	1867	1.68E+08	172431909	160361675	235731662	49872480
Ethylene Glycol	46744	1.68E+07		1/2431303 N/A	N/A	N/A	N/
Fluoride	4000	N/A	N/A	0.00103	0.00095	0.00140	0.0029
Heptachlor	8.0E-05	0.0001	0.001		0.0033	0.00140	0.002
Heptachlor Epoxide	0.00029	0.00029	0.0029	0.0030	0.0028	0.0095	0.020
Hexachlorobenzene	0.00068	0.00068	0.0068	0.0070			6.5
Hexachlorobutadiene	0.21	0,22	2.2	2,258	2.100	3.087	
Hexachlorocyclohexane (alpha)	0.0078	0.0084	0.084	0.086	0.080	0.118	0.24
Hexachlorocyclohexane (beta)	0.15	0.26	2.6	2.669	2.482	3.648	7.7
Hexachlorocyclohexane (gomma) [Lindane]	0.2	0.341	3.41	3.500	3.255	4.785	10.1
Hexachlorocyclopentadiene	10.7	11.6	116	119.1	110.7	162.8	34
Hexachloroethane	1.84	2.33	23.3	23.91	22.24	32.69	69.
Hexachlorophene	2.05	2.90	29	29.77	27.68	40.69	86.
4,4'-Isopropylidenediphenol (Bisphenol A)	1092	15982	159820	164036	152554	224254	47444
Lead	1.15	3.83	38.3	299.9	278.9	410.0	867.
Mercury	0.0122	0.0122	0.122	0.125	0.116	0.171	0.36
Methoxychlor	2.92	3.0	30	30.8	28.64	42.1	89.
Methyl Ethyl Ketone	13865	9.92E+05	9.92E+06	10181694	9468975	13919393	2944851
Methyl tert-butyl ether (MTBE)	15	10482	104820	107585.2	100054.2	147079.7	31116
Nickel	332	1140	11400	47747	44405	65276	13810
Nitrate-Nitrogen (as Total Nitrogen)	10000	N/A	N/A	N/A	N/A	N/A	N/
Nitrobenzene	45.7	1873	18730	19224	17878	26281	5560
N-Nitrosodiethylamine	0.0037	2.1	21	21.554	20.045	29.466	62.34
N-Nitroso-di-n-Butylamine	0.119	4.2	42	43.108	40.090	58.933	124.6
Pentachlorobenzene	0.348	0.355	3.55	3.64	3.39	4.98	10.5
Pentachlorophenol	0.22	0.29	2.9	2.977	2.768	4.07	8.6
Polychlorinated Biphenyls [PCBs]	6.4E-04	6.4E-04	6.40E-03	0.0066	0.0061	0.0090	0.019
Pyridine	23	947	9470	9719.8	9039.4	13288	2811
Selenium	50	N/A	N/A	N/A	N/A	N/A	N/
1,2,4,5-Tetrachlorobenzene	0.23	0.24	2.4	2.463	2.291	3.37	7.1
1,1,2,2-Tetrachloroethane	1.64	26.35	263.5	270.45	251.52	369.73	782
Tetrachloroethylene [Tetrachloroethene]	5	280	2800	2873.9	2672.7	3928.9	8312
Thallium	0.12	0.23	2.3	2.361	2.195	3.227	6.8
	1000	N/A	N/A	N/A	N/A	N/A	N/
Toyanhana	0.011	0.011	0.11	0.113	0.105	0.154	0.32
Toxaphene	50	369	3690	3787	3522	5178	1095
2,4,5-TP [Silvex]	200	784354	7843540	8050456	7486924	11005778	2328433
1,1,1-Trichloroethane		166	1660	1703.8	1584.5	2329.3	4927
1,1,2-Trichloroethane	5 		719	738.0	686.3	1008.9	2134
Trichloroethylene [Trichloroethene]	1020	71.9	18670	19163	17821	26197	5542
2,4,5-Trichlorophenol	1039	1867		N/A	N/A	N/A	N/
TTHM [Sum of Total Trihalomethanes]	80	N/A	N/A		157.498	231.522	489.81
Vinyl Chloride	0.23	16.5	165	169.353	137.438	231.322	403.01

CALCULATE 70% AND 85% OF DAILY AVERAGE EFFLUENT LIMITATIONS:

Aquatic Life	70% of Daily Avg.	85% of Dally Avg.
Parameter	(μg/L)	(μg/L)
Aldrin	1.77	2.15
Aluminum	586	712
Arsenic	303	368
Cadmium	2.53	3.07
Carbaryl	1.18	1.44
Chlordane	0.0032	0.0039
Chlorpyrifos	0.033	0.040
Chromium (trivalent)	1625	1974
Chromium (hexavalent)	8.5	10.3
Copper	170.4	206.9
Cyanide (free)	8.6	10.4
4,4'-DDT	0.0008	0.0010
Demeton	0.080	0.097
Diazinon	0.101	0.122
Dicofol (Kelthane)	15.9	19.3
Dieldrin	0.0016	0.0019
Diuron	56	68
Endosulfan I (alpha)	0.045	0.055
Endosulfan II (beto)	0.045	0.055
Endosulfan sulfate	0.045	0.055
Endrin	0.0016	0.0019
Guthion [Azinphos Methyl]	0.008	0.010
Heptachlor	0.0032	0.0039
Hexachlorocyclohexane (gamma) [Lindane]	0.064	0.078
Lead	119.9	145.6
Malathion	0.008	0.010
Mercury	1.04	1.27
Methoxychlor	0.024	0.029
Mirex	0.0008	0.0010
Nickel	898	1090
Nonylphenol	5.30	6.4
Parathion (ethyl)	0.010	0.013
Pentachlorophenol	7.7	9.4
Phenanthrene	17.7	21.5
Polychlorinated Biphenyls (PCBs)	0.011	0.014
Selenium	4.01	4.87
Silver	16.39	19.90
Foxaphene Coxaphene	0.00016	0.00019
Fributyltin (TBT)	0.019	0.023
2,4,5 Trichlorophenol	51.4	62
linc	2029	2464

Human Health	70% of Daily Avg.	85% of Dally Avg.
Parameter	(μg/L)	(μg/L)
Acrylonitrile	1129.55	1371.59
Aldrin	1.13E-04	1.37E-04
Anthracene	12936	15708
Antimony	10519.5	12773.7
Arsenic	N/A	N/A
Barium	N/A	N/A
Benzene	5706.7	6929.5
Benzidine	1.0510	1.2762
Benzo(a)anthracene	0.246	0.298
Benzo(a)pyrene	0.0246	0.0298
Bis(chloromethyl)ether	2.6962	3.2739
Bis(2-chloroethyl)ether	420.68	510.83
Bis(2-ethylhexyl) phthalate (Di(2-ethylhexyl) phthalate]	74.2	90.0
Bromodichloromethane (Dichlorobromomethane)	2701.1	3279.9
Bromoform [Tribromomethane]	10411	12643
Cadmium	N/A	N/A
Carbon Tetrachloride	451.8	548.6
Chlordane	0.0246	0.0298
Chlorobenzene	26883	32644
Chlorodibromomethane [Dibromochloromethane]	1797.5	2182.6
Chloroform [Trichloromethane]	75601	91801
Chromium (hexavalent)	4931	5987
Chrysene	24.75	30.06
Cresols (Methylphenols)	91356	110932
Cyanide (free)	N/A	N/A
4,4'-DDD	0.0196	0.0239
4,4'-DDE	0.00128	0.00155
4,4'-DDT	0.0039	0.0048
2,4'-D	N/A	N/A
Danitol (Fenpropathrin)	4646	5641
1,2-Dibromoethane [Ethylene Dibromide]	41.646	50.570
m-Dichlorobenzene [1,3-Dichlorobenzene]	5844	7097
o-Dichlorobenzene [1,2-Dichlorobenzene]	32403	39347
p-Dichlorobenzene [1,4-Dichlorobenzene]	N/A	N/A
3,3'-Dichlorobenzidine	22.00	26.77
1,2-Dichloroethane	3575.3	4341.4
1,1-Dichloroethylene [1,1-Dichloroethene]	541338.1	657339.
Dichloromethane [Methylene Chloride]	130958.8	159021.4
1,2-Dichloropropane	2543.9	3089.:
1,3-Dichloropropene [1,3-Dichloropropylene]	1168.84	1419.3
Dicofol [Kelthane]	2.947	3.58
Dieldrin	1.96E-04	2.39E-04
2,4-Dimethylphenol	82860	10061
Di-n-Butyl Phthalate	908	1102
Dioxins/Furans [TCDD Equivalents]	7.83E-07	9.51E-0

Human Health	70% of Daily Avg.	85% of Daily Avg.
Parameter	(μg/L)	(μg/L)
Endrin	0,196	0.239
Epichlorohydrin	19772	24009
Ethylbenzene	18338	22268
Ethylene Glycol	165012164	200371913
Fluoride	N/A	· N/A
Heptachlor	0.00098	0.00119
Heptachlor Epoxide	0.00285	0.00346
Hexachlorobenzene	0.0067	0.0081
Hexachlorobutadiene	2.161	2.624
Hexachlorocyclohexane (alpha)	0.083	0.100
Hexachlorocyclohexane (beta)	2.554	3.101
Hexachlorocyclohexane (gamma) [Lindane]	3.349	4.067
Hexachlorocyclopentadiene	113.9	138.4
Hexachloroethane	22.89	27.79
Hexachlorophene	28.48	34.59
4.4'-Isopropylidenediphenol [Bisphenol A]	156978	190616
Lead	287.0	348.5
Mercury	0.120	0.146
Methoxychlor	29.47	35.8
Methyl Ethyl Ketone	9743575	11831484
Methyl tert-butyl ether [MTBE]	102955.8	125017.8
Nickel	45693	55484
Nitrate-Nitrogen (as Total Nitrogen)	N/A	N/A
Nitrobenzene	18397	22339
N-Nitrosodiethylamine	20.627	25.046
N-Nitroso-di-n-Butylamine	41.253	50.093
Pentachlorobenzene	3.49	4.23
Pentachlorophenol	2.848	3.459
Polychlorinated Biphenyls [PCBs]	0.0063	0.0076
Pyridine	9301.6	11294.8
Selenium	N/A	N/A
1,2,4,5-Tetrachlorobenzene	2.357	2.862
1,1,2,2-Tetrachloroethane	258.81	314.27
Tetrachloroethylene [Tetrachloroethene]	2750.2	3339.5
	2.259	2.743
Thallium	N/A	N/A
Toluene	0.108	0.131
Toxaphene	3624	4401
2,4,5-TP [Silvex]	7704045	9354911
1,1,1-Trichloroethane	1630.5	1979.9
1,1,2-Trichloroethane	706.2	857.5
Trichloroethylene [Trichloroethene]	18338	22268
2,4,5-Trichlorophenol	N/A	N/A
TTHM [Sum of Total Trihalomethanes]		196.794
Vinyl Chloride	162.066	134.734