LOUISIANA

MUNICIPAL WATER POLLUTION PREVENTION

MWPP



Facility Name:	St. Charles Parish Council Destrehan Wastewater Treatment Plant
LPDES Permit Number:	LA 0073539
Agency Interest (AI) Number:	AI 39862
Address:	Post Office Box 302
	Hahnville, Louisiana 70057
Parish:	St. Charles
(Person Completing Form) Name:	Angela Troxler
Title:	Laboratory Coordinator

December 10, 2019

Date Completed:

PARIFE INFOUND FOR WILLIAM SERVED BY

A. List the average monthly volumetric flows and BOD loadings received at your facility during the last reporting year.

Column 1 Average Monthly Flow (million gallons per day, MGD)		Column 2 Average Monthly BOD5 Concentration (mg/l)	·	Column 3 Average Monthly BOD5 Loading (pounds per day, lb/day)
4.315	x	47	x 8.34 =	1,691
3.896	x	48	x 8.34 =	1,560
3.87	x	42	x 8.34 =	1,356
3.776	x	75	x 8.34 =	2,362
3.4	x	93	x 8.34 =	2,637
3.467	X	81	x 8.34 =	2,342
3.609	x	40	x 8.34 =	1,204
2.353	X	88	x 8.34 =	1,727
3.66	x	136	x 8.34 =	4,151
3.375	x	166	x 8.34 =	4,672
2.221	x	1188	x 8.34 =	22,005
3.553	x	630	x 8.34 =	18,668

BOD loading = Average Monthly Flow (in MGD) x Average Monthly BOD concentration (in mg/l) x 8.34

B. List the design flow and design BOD loading for your facility in the blanks below. If you are not aware of these design quantities, refer to your Operation and Maintenance (O&M) Manual or contact your consulting engineer.

Design Flow, MGD:	6.0	x 0.90 =	5.4
Design BOD, lb/day:	7,506	x 0.90 ==	6,755

								Pei	rmit #:	L	A007	3539		
C.	(44 44)	LIJUK	cccu >	'U70 UL	นษรมฆา	. IIOW?	Circle	the m	to the imber of the rig	at mon	water ths an	treatmed the co	ent fac orrespo	ility oding
	months	0	1	2	3	4	5	6	7	8	9	10	11	12
	points	0	0	0	0	0	5	5	5	5	5	5	5	5
						Write	e 0 or 3	5 in the	C poin	ıt total	box	0	C Poi	nt Total
D.	How n Circle below	ուն սն	minci	s did the of mon	e mont ths and	hly flo d corre	w (Col spondi	lumn 1 ng poi) to the nt total.	WW7 Writ	rF exc e the p	eed the oint to	design tal in t	n flow? he box
	months	0	1	2	3	4	5	6	7	8	9	10	11	12
	points	0	5	5	10	10	15	15	15	15	15	15	15	15
					Write	0, 5, 1	0 or 15	in the	D poin	it total	box	0	D Poi	nt Total
E.	How m of the c the poi	iczikii	Dag	ացում	rcie un	e numt	er of r	ling (C nonths	Column and co	3) to t rrespo	he WV nding	VTF ex point to	ceed 9 otal. V	90% Vrite
	months	0	1	2	3	4	5	6	7	8	9	10	11	12
	points	0	0	(5)	5	5	10	10	10	10	10	10	10	10
					W	rite 0,	5,or 10	in the	E poin	t total	box	5	E Poi	nt Total
F.	How m design point to	тоаци,	ig: Ci	ucie ine	e numr	er of t	nonths	ling (C and co	Column Orrespoi	3) to t	he WV point t	VTF ex otal. V	ceed t Vrite tl	he 1e
	months	0	1	2	3	4	5	6	7	8	9	10	11	12
	points	0	10	20	30	40	50	50	50	50	50	50	50	50
									F poin					nt Total
G.	Add tog	gether	each j	point to	tal for	C thro	ugh F	and pl	ace this	sum i	n the t	ox bel	ow at t	he righ
					TOT	AL PO	INT V	/ALIII	E FOR	PAD'	r 1.	25	(man-	00)

Also enter this value or 80, whichever is less, on the point calculation table on page 16.

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A. List the monthly average effluent BOD and TSS concentrations produced by your facility during the last reporting year.

Month	Column 1 Average Monthly BOD (mg/l)	Column 2 Average Monthly TSS (mg/l)
November 2018	2	2
December 2018	2	4
January 2019	2	2
February 2019	2	3
March 2019	2	1
April 2019	2	2
May 2019	2	1
June 2019	3	1
July 2019	4	2
August 2019	3	1
September 2019	5	1
October 2019	3	1

B. List the monthly average permit limits for your facility in the blanks below.

r	Permit Limit	_	90% of Permit Limit
BOD, mg/l	30.0	x 0.90 =	27.0
TSS, mg/l	30.0	x 0.90 =	27.0

C	Cl!		N: 1		a .	•••		Per	mit #:	L	4 007	3539		
C.	Contii	uous I)15Cha	rge to	Surface	e Wate	r.		_					
i.	Circle	nany m the nu x belov	mber (of mon	ths and	ent BO I the co	D (Col	lumn 1) ding p	exceed oint tota	d 90% al. W	of the	e permi e point	t limits total ir	3? 1
	months	0	1	2	3	4	5	6	7	8	9	10	11	12
	points	0	0	10	20	30	40	40	40	40	40	40	40	40
				Wri	ite 0, 1	0, 20,	30 or 4	0 in the	e i poin	t total	box	0	i Poin	t Total
ii.	How number at the	er of mo	onths onths	did the and cor	efflue respor	ent BO nding p	D (Col oint to	lumn 1) tal. W	exceed rite the	d pern point	nit lim total i	its? Ci n the b	rcle the	e >w
	months	(0)	1	2	3	4	5	6	7	8	9	10	11	12
	points	(0)	5	5	10	10	10	10	10	10	10	10	10	10
iii.	Circle	nany m the nur x below	nber o	of mon	efflue ths and	ent TSS	S (Colu	ımn 2)	ii poin exceed oint tota	90%	of the	O permit point	l limits?	nt Total
	months	(0)	1	2	3	4	5	6	7	8	9	10	11	12
	points	0	0	10	20	30	40	40	40	40	40	40	40	40
				Write	0, 10,	20, 30	or 40	in the	ii poin	t total	box	0	iii Poi	nt Total
iv.	How number at the n	r of mo	onths onths a	did the and cor	efflue respon	nt TSS ding p	S (Colu oint to	mn 2) tal. Wi	exceed rite the	permi point	it limit total ii	s? Cir n the b	ele the ox belo	w
	months	(0)	1	2	3	4	5	6	7	8	9	10	11	12
	points	(0)	5	5	10	10	10	10	10	10	10	10	10	10
					Wri	te 0, 5	, or 10	in the	iv point	t total	box	0	iv Poi	nt Total

Also enter this value or 100, whichever is less, on the point calculation table on page 16.

TOTAL POINT VALUE FOR PART 2:

|| (max = 100)||

Add together each point total for i through iv and place this sum in the box below at the right.

v.

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D.	Other Monitoring and Lim	itations	•	
i.	At any time in the past year pollutants such as: ammon coliform?	ir was there an ia-nitrogen, pl	ed exceedance of a hosphorus, pH, total	permit limit for other al residual chlorine, or fecal
	√ Check one box.	Yes	X No	If Yes, Please describe:
ii.	At any time in the past year Toxicity) test of the efflue	ur was there a 'nt?	"failure" of a Biom	onitoring (Whole Effluent
	√ Check one box.	Yes	X No	If Yes, Please describe:
iii.	At any time in the past year substance?	r was there ar	exceedance of a p	permit limit for a toxic
	√ Check one box.	Yes	No No	If Yes, Please describe:

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PARTO AVERDEBUIE WAS LEWATER TREATMENT PARTE LEVEL

A. What year was the wastewater treatment facility constructed or last major expansion/improvements completed?

 $\begin{array}{rcl}
 & 2000 \\
 & Current Year & - Answer to A & = Age in years \\
 & 2019 & 2000 & 19
\end{array}$

Enter Age in Part C below.

B. $\sqrt{}$ Check the type of treatment facility that is employed.

Mechanical Treatment Plant
(trickling filter, activated sludge, etc...)
Specify Type: Activated Sludge

Aerated Lagoon 2.0
Stabilization Pond 1.5

Other
Specify Type: 1.0

C. Multiply the factor listed next to the type of facility your community employs by the age of your facility to determint the total point value for Part 3.

TOTAL POINT VALUE FOR PART 3 =

$$\frac{2.5}{Factor} \times \frac{19}{Age} = \boxed{47.5} \text{ (max = 50)}$$

Also enter this value or 50, whichever is less, on the point calculation table on page 16.

D. Please attach a schematic of the treatment plant.

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	KI AHOMBRILOWS PRICESSES STRUCTURES OF THE
A. i.	List the number of times in the last year there was an overflow, bypass or unpermitted discharge of untreated or incompletely treated wastewater due to heavy rain:
	5 V Check one box. $0 = 0$ points $3 = 15$ points $1 = 5$ points $4 = 30$ points $2 = 10$ points $X = 5$ or more $X = 5$ points
ii.	List the number of bypasses, overflows or unpermitted discharges shown in A (i) that were withing the collection system and the number at the treatement plant
	Collection System: 5 Treatment Plant: 0
B. i.	List the number of times in the last year there was an overflow, bypass or unpermitted discharge of untreated or incompletely treated wastewater due to equipment failure, either at the treatment plant or due to pumping problems in the collection system:
	12 V Check one box. \square 0 = 0 points \square 3 = 15 points \square 4 = 30 points \square 2 = 10 points \square 5 or more = 50 points
ii.	List the number of bypasses, overflows or unpermitted discharges shown in B (i) that were withing the collection system and the number at the treatement plant
	Collection System: 12 Treatment Plant: 0
C.	Specify whether the bypasses came from the city/village/town sewer system or from contract or tributary communities/sanitary districts, etc
	City Sewer System
D.	Add the point values checked for A and B and place the total in the box below.
	Also enter this value or 100, whichever is less, on the point calculation table on page 16.
E.	List the person responsible (name and title) for reporting overflows, bypasses or unpermitted discharges to State and Federal authorities:
	L. J. Brady, Assistant Director of Wastewater
	Describe the procedure for gathering, compiling and reporting: Overflows, bypasses and unpermitted discharges are submitted by the operator and reported to the appropriate agencies (SPOC, DEQ).

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A. Sludge Storgage

How many months of sludge storage capacity does your facility have available, either on-site or off-site?

Circle the number of months and the corresponding point total. Write the point total in the box below at the right.

months <2 2 3 4-5 6 points 50 30 20 10

Write 0, 10, 20, 30 or 40 in the A point total box 0 A Point Total

B. For how many months does your facility have access to (and approval for) sufficient land disposal sites to provide proper land disposal?

Circle the number of months and the corresponding point total. Write the point total in the box below at the right.

months <2 6-11 12-23 24-35 26 points 50 30 20 10

Write 0, 10, 20, 30 or 40 in the B point total box 0 B Point Total

C. Add together the A and B point values and place the sum in the box below at the right:

TOTAL POINT VALUE FOR PART 5: $0 \pmod{\max = 100}$

Also enter this value or 100, whichever is less, on the point calculation table on page 16.

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Please provide the follo were installed during th	wing information for e last year.	the total	of all sewe	r line ext	ensions which
Design Population:	44,000				
Design Flow:	6.0	- MGD			
Design BOD:	30-45	mg/l			
Has an industry (or other in the past year, such the significantly increased (at either flow or pollu	ed into that	ne communi lings to the	ty or exp sewerage	anded produc system were
√ Check one box.	Yes = 15 po	ints	X No =	0 points	
If Yes, Please describe:					
Is there any development 2-3 years, such that either in its income.	at (industrial, commer	rcial or re	esidential) a	nticipate	d in the next
significantly increase?	or now or pondiant to	oadings t	o tne søwer	age syste	m could
√ Check one box.	Yes = 15 po	ints	X No =	0 points	
If Yes, Please describe:					
List any new pollutants None	you anticipate:)
Add together the point v	alue checked in B and	d C and	place the su	m in the	box below.
	TOTAL POINT			******	0 (max = :

Also enter this value or 30, whichever is less, on the point calculation table on page 16.

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P	eri	ni.	t #i	ŀ

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W	KS MYSTOLYBUNANION	raced publication	PONSON		
	What was the name of the operator-in-charge for the reporting year?				
		Name:		Herman (Cortez
	What is his or her certif	ication number: <i>Cert.</i> #;		17-2	08
	What level of certificati	on is the operator-in-	charge require	ed to have to	operate the
	wastewater treatment fa	cility? Level Required:		I۷	•
	What is the level of cert	-	****	?	
		Level Certified:	•	I۱	/
	Was the operator-in-charequired in order to operator	arge of the report year rate this plant?	certified at le	east at the g	rade level
	√ Check one box.	X Yes = 0 poi	nts	No :	= 50 points
	Writ	te 0 or 50 in the E po	int total box	0 E Po	int Total
	Has the operator-in-chargear?	rge maintained recert	ification requi	irements dur	ing the reporting
	√ Check one box.	X Yes		No	·
	How many hours of conlast two calendar years?	tinuing education ha	s the operator-	-in-charge co	ompleted over the
	√ Check one box.	X > 12 hours	= 0 points	<u> </u>	hours = 50 points
	Writ	e 0 or 50 in the G poi	nt total box	0 G Pc	int Total
	Is there a written policy treatment plant employe	regarding continuinges?	geducation an	training for	wastewater
	√ Check one box.	X Yes		□ No	
		is outlined in the s, Plant O&M Ma			Plant Emergency Manual.
	What percentage of the paid for:				in-charge were
	By the permittee?	100%	By the oper	rator?	0%
	Add together the E and				low at the right.
		TOTAL POINT	VALUE FOI	₹ ₽ ART "•	0 (max = 100)
	Also enter this value				

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	TESTETNAMOTAE STATUS NELSE WAL				
A.	Are User-Charge Revenues sufficient to cover operation and maitenance expenses?				
:	√ Check one box. X Yes No If No, 1	How are O&M costs financed?			
	At present time the User-Charge Revenues operation and maintenance ex	are sufficient to cover penses.			
В.	What financial resources do you have available to pay for your wastewater improvements and reconstruction needs?				
	DEQ loans, grants, general fund and a	ad valorem tax.			

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A.	Collection System Maintenance		
i.	Describe what sewer system maintenance work has been do	one in the last year.	
	Clean and camera lines. Rehabilitate manhol Locate and number manholes. GIS. Rep		
ii.	Describe what lift station work has been done in the last year	ar.	
	Pulled all pumps, inspected wet wells, control concerning lift stations and replace as neces controls.		
iii.	What collection system improvements does the community have under construction for the next 5 years?		
	New lift stations, upgrade lift stations, new fo gravity lines.	orce mains, and rehab	
В.	If you have ponds please answer the following questions:	√ Check one box.	
i. ii. iii.	Do you have duckweed buildup in the ponds? Do you mow the dikes regularly (at least monthly), to the waters edge? Do you have bushes or trees growing on the dikes or in	Yes No	

Yes

Yes

Yes

Yes

Yes

Yes

No

No

No

No

No

No

the ponds?

ponds?

of any of your ponds?

Do you excersise all of your valves?

iv. Do you have excess sludge buildup (> 1foot) on the bottom

vi. Are your control manholes in good structural shape?

viii. Do you visit your pond system at least weekly?

vii. Do you maintain at least 3 feet of freeboard in all of your

	1 ο πια π.	TV(00) 3238		
C.	Treatment Plants			
i.	Have the influent and effluent flow meters been calibrated in the last year?			
	X Yes			
	11/2/18	11/2/18		
	Influent flow meter calibration date(s) Effluen	ut flow meter calibration date(s)		
ii.	What problems, if any, have been experienced over the last year that have threatened treatment?			
	None			
iii.	Is your community presently involved in formal planning fo	r treatment facility upgrade?		
	al Charles and I am	If Yes, Please describe:		

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D.	Preventive Maintenance			
ì.	Does your plant have a written plan for preventive maintenance on major equipment items?			
	√ Check one box. X Yes No I	f Yes, Please describe:		
	The Department's BMP as well as the manufaction PM and the Plant O&M Mar	tures manuals detailing nual.		
ii.	Does this preventive maintenance program depict frequency of intervals, types of lubrication and other preventive maintenance tasks necessary for each piece of equipment?			
	X Yes No			
iii.	Are these preventive maintenance tasks, as well as equipment problems, being recorded and filed so future maintenance problems can be assured properly?			
	X Yes No			
C.	Sewer Use Ordinance			
i.	Does your community have a sewer use ordinance that limits of excessive conventional pollutants (BOD, TSS or pH) or to sewer system from industries, commercial users and residence	vic substances to the		
	√ Check one box. X Yes No H	Yes, Please describe:		
	Ordinance 85-8-8 imposes BOD, TSS, pH, Oil Metals limits on discharges. All limits correspon strength domestic waste	nd to average domestic		
ii.	Has it been necessary to enforce?			
	√ Check one box. X Yes No If	Yes, Please describe:		
:	We require all comercial and industrial users to	o abide by these limits.		
iii.	Any additional comments about your treatment plant or collection system? (Attach additional sheets if necessary.)			

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POINT CALCULATION TABLE

	Actual Values	Maximum
Part 1: Influent Flow/Loadings	25	80 points
Part 2: Effluent Quality / Plant Performance	0	100 points
Part 3: Age of WWTF	47.5	50 points
Part 4: Overflows and Bypasses	100	100 points
Part 5: Ultimate Disposition of Sludge	0	100 points
Part 6: New Development	0	30 points
Part 7: Operator Certification Training	0	100 points
TOTAL POINTS:	172.5	