LOUISIANA

MUNICIPAL WATER POLLUTION PREVENTION

MWPP



St. Charles Parish Council

Pacility Name: Destrehan Wastewater

Treatment Plant

LPDES Permit Number: LA 0073539

Agency Interest (AI) Number: Al 39862

Address: Post Office Box 302

Hahnville, Louisiana 70057

Parish: St. Charles

(Person Completing Form) Name: Angela Troxler

Title: Laboratory Coordinator

Date Completed: December 3, 2018

PART E INTERNITEIOWALOADINGS (ALBUMS)

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)
2.159	X	177	x 8.34 =	3,187
3.049	x	168	x 8.34 =	4,272
3.759	x	175	x 8.34 =	5,486
3.952	x	129	x 8.34 =	4,252
3.254	x	140	x 8.34 =	3,799
3.553	x	129	x 8.34 =	3,801
2.224	x	112	x 8.34 =	2,077
2.18	x	115	x 8.34 =	2,091
2.946	x	67	x 8.34 =	1,646
2.827	x	45	x 8.34 =	1,061
3.406	x	51	x 8.34 =	1,449
3.376	x	-38	x 8.34 =	1,070

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

								40.	1 11144 TF.		7 ,00	/ 3338	,	
C.	(WW)	.r <i>)</i> ex(ceea yi	J% OI	design	. flow?	Circle	e the n	l) to the umber o t the rig	of mor	ewater iths an	treatm d the c	ent fac	cility 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
									e C poir			0	٦	int Tota
D.	How n Circle below	tne nu	mber c	did the of mon	e mont ths and	hly flo i corre	w (Co spondi	lumn 1 ng poi	.) to the nt total	WW Wri	TF exc te the p	eed the point to	e desig tal in 1	n flow? the 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 tota	box	0	D Po	int Tota
Ê.	How mof the of the point	resign	ioadin	g / Un	rcie in	e numb	er of r	ling (C nonths	Column and co	3) to	the Wy onding	WTF ex point t	xceed sotal. V	90% Write
	months	0	1	2	3	4	5	6	7	8	9	10	11	12
	points	0	0	5	5 .	4 5	10	10	10	10	10	10	10	10
					W	rite 0,	5,or 10	in the	E poin	t total	box	0	E Poi	nt Total
₹,	How m design l point to	loadin	g: Cir	cie the	numb	er of n	nonths	ling (C and co	column orrespoi	3) to tading	he WV point t	VTF ex otal. V	ceed t Vrite tl	he he
;	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
			W	rite 0,	10, 20	, 30, 40	0 or 50	in the	F point	total	box	0	F Poir	at Total
ĭ.	Add too	rether :												
	Add tog		ouon p	OHIE IO	uai iui	С шо	ոԶп ւ	ana pi	ace this	sum i	n the b	ox bel	ow at t	the righ

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

TOTAL POINT VALUE FOR PART 1: $0 \pmod{80}$

PARTO PERFORMANTE CUATUREARDANT PERFORMANCE

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 2017	2		3
December 2017	3		2
January 2018	3		3
February 2018	3		2
March 2018	2		2
April 2018	2		1
May 2018	4		3
June 2018	2		3
July 2018	3		2
August 2018	2		2
September 2018	3	·	1
October 2018	2 .		1

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

_	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

_	~		.		~ ^			Per	mit #:	L	A 007	73539)	
C.	Conti	nuous l	Discha	rge to	Surfac	e Wate	er.		. '					
i.	Circle	many note the nu	mber	of mon	ths and	ent BC d the c	D (Co orrespo	lumn 1 oding p	excee	ed 90% al. W	of the	e perm e point	it limits total in	s? 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
									e i poir			0	i Poin	
ii.	number at the	er of m	onths onths	did the and cor	e efflue rrespon	ent BO ading p	D (Co point to	lumn 1 otal. W) excee rite the	d perr point	nit lim total i	its? C. n the b	ircle the	e ow
-	months	<u>(0)</u>	1 5	2 5	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.	How r Circle	nany m the nu	onths mber o	did the	efflue	nt TS	S (Coh	ımn 2)	ii poin exceed	. 90%	of the	0 permit	ii Poin	
	the bo	x belov	v at th	e right.			-xz eu j	omie b	omi tou	ull vy	iic tiic	· pomt	totat III	
	months	<u>(0)</u>	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	iii poin	t total	box	0	iii Poir	ıt Tota
iv.	How number at the n	r of mo	onths onths a	did the ind cor	efflue respon	nt TSS ding p	S (Colu oint to	ımn 2) tal. W	exceed rite the	permi point	t limit total ir	s? Cir the b	ele the ox belo	w
	months	Q	1	2	3	4	5	6	7	8	9	10	11	12
	points	$\overline{0}$	5	5	10	10	10	10	10	10	10	10	10	10
					Wri	te 0, 5	, or 10	in the	iv poin	t total	box	0	iv Poin	t Total
v.	Add to	gether	each p	oint to	tal for	i throu	igh iv :	and pla	ce this	sum ir	the b	ox belo	w at th	e right

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)

0

	Permit #:	LA 0073539				
D.	Other Monitoring and Limitations					
ì.	At any time in the past year was there and exceedance of a permit limit for other pollutants such as: ammonia-nitrogen, phosphorus, pH, total residual chlorine, or fecal coliform?					
	√ Check one box. Yes X No	If Yes, Please describe:				
ii.	At any time in the past year was there a "failure" of a Biome Toxicity) test of the effluent?	onitoring (Whole Effluent				
	√ Check one box. Yes X No	If Yes, Please describe:				
iii.	At any time in the past year was there an exceedance of a pesubstance?	ermit limit for a toxic				
	√ Check one box. Yes No	If Yes, Please describe:				

PARTS AGE OF THE WASTEWATER EXEMPTED A CHARY

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

 $\begin{array}{rcl}
 & 2000 \\
 & Current Year & - Answer to A & = Age in years \\
 & 2018 & 2000 & 18
\end{array}$

Enter Age in Part C below.

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

		FACTOR:
<u>X</u>	Mechanical Treatment Plant (trickling filter, activated	2.5
	sludge, etc) Specify Type: Activated Slud	dge
	Aerated Lagoon	2.0
	Stabilization Pond	1.5
	Other Specify Type:	

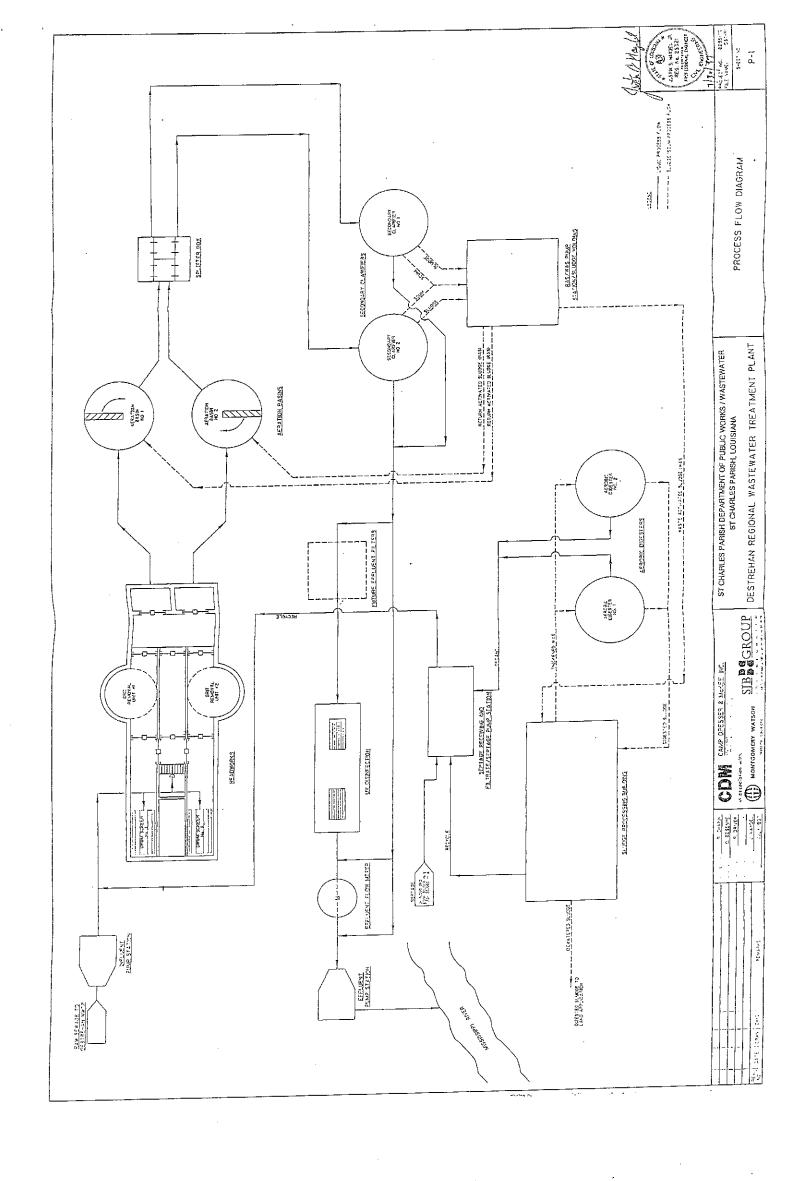
C. Multiply the factor listed next to the type of facility your community employs by the age of your facility to determint the total point value for Part 3.

TOTAL POINT VALUE FOR PART 3 =

$$\frac{2.5}{Factor} \times \frac{18}{Age} = 45 \text{ (max = 50)}$$

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.



i		
Permit #:	LA0073539	

PA	ROYAL COMERCE COMES MANDEN PROSESSES THE SERVICE OF
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:
	O V Check one box. \boxed{X} 0 = 0 points $$ 3 = 15 points $$ 4 = 30 points $$ 2 = 10 points $$ 5 or more = 50 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: 0 Treatment Plant: 0
B.	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:
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: 5 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).

PARTS SEUDGESPORAGE AND DISPOSATESTERS

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 0

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 36 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 (max = 100)

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

Please provide the following information for the total of all sewer line extensions which A. were installed during the last year. 44,000 Design Population: 6.0 Design Flow: MGD 30-45 Design BOD: mg/l Has an industry (or other development) moved into the community or expanded production B. in the past year, such that either flow or pollutant loadings to the sewerage system were significantly increased (5% or greater)? √ Check one box. Yes = 15 pointsX No = 0 points If Yes, Please describe: List any new pollutants: None Is there any development (industrial, commercial or residential) anticipated in the next C. 2-3 years, such that either flow or pollutant loadings to the sewerage system could significantly increase? √ Check one box. Yes = 15 points X No = 0 points If Yes, Please describe: List any new pollutants you anticipate: None Add together the point value checked in B and C and place the sum in the box below. D.

TOTAL POINT VALUE FOR PART 6:

(max = 30)

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

Permit #:	LA0073539
- 0: 11:55 //.	LAUUISSS

RENEIGATRONEANDEEDUCATIONE What was the name of the operator-in-charge for the reporting year? A. Herman Cortez Name: В. What is his or her certification number: 17-208 Cert.#: What level of certification is the operator-in-charge required to have to operate the C. wastewater treatment facility? Level Required: D. What is the level of certification of the operator-in-charge? IV Level Certified: E. Was the operator-in-charge of the report year certified at least at the grade level required in order to operate this plant? √ Check one box. X Yes = 0 points No = 50 points Write 0 or 50 in the E point total box E Point Total Has the operator-in-charge maintained recertification requirements during the reporting F. year? √ Check one box. X Yes ☐ No How many hours of continuing education has the operator-in-charge completed over the G. last two calendar years? √ Check one box. |X| > 12 hours = 0 points< 12 hours = 50 pointsWrite 0 or 50 in the G point total box G Point Total Is there a written policy regarding continuing education an training for wastewater H. treatment plant employees? √ Check one box. X Yes No Training is outlined in the Department BMP, Plant Emergency Explain: Procedures, Plant O&M Manual, and the Safety Manual. What percentage of the continuing education expenses of the operator-in-charge were I. paid for: By the permittee? 100% By the operator? Add together the E and G point vaules and place the sum in the box below at the right. J. TOTAL POINT VALUE FOR PART 7: $0 \quad || (max = 100)|$ Also enter this value or 100, whichever is less, on the point calculation table on page 16.

Permit #:	LA0073539
i	<u></u>

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

Permit #:	LA0073539
I CHIFFE II.	LA0013333

	esiere (e	And the second second section and the second second	A COLUMN TO SERVICE	THE REPORT OF THE PARTY OF THE
表的原则或他对 经基础		報告 UE 24 M E 25 M E 24 M E		38 200 多百万里。
	A SHOP OF THE REAL PROPERTY.	with the saw they are say that it	General Wealth at	10 HR F (2) 15 V
	ACCOUNT OF THE PARTY OF THE PAR	AND DESCRIPTION OF THE PARTY OF		

A.	Collection	System	Maintenance
----	------------	--------	-------------

i. Describe what sewer system maintenance work has been done in the last year.

Clean and camera lines. Rehabilitate manholes. Repair broken lines. Locate and number manholes. GIS. Replaced force mains.

ii. Describe what lift station work has been done in the last year.

Pulled all pumps, inspected wet wells, control panels and all valves concerning lift stations and replace as necessary. New pumps and controls.

iii. What collection system improvements does the community have under construction for the next 5 years?

New lift stations, upgrade lift stations, new force mains, and rehab gravity lines.

B.	If you have ponds please answer the following questions:	√ Check o	ne box.
i. ii.	Do you have duckweed buildup in the ponds? Do you mow the dikes regularly (at least monthly), to the	Yes	☐ No
iii.	waters edge? Do you have bushes or trees growing on the dikes or in	Yes	☐ No
iv.	The state of the s	Yes	☐ No
v. vi. vii.	of any of your ponds? Do you excersise all of your valves? Are your control manholes in good structural shape? Do you maintain at least 3 feet of freeboard in all of your	Yes Yes Yes Yes	No No No
viii.	ponds? Do you visit your pond system at least weekly?	Yes Yes	No No

	F	
	Permit #:	LA0073539
C.	Treatment Plants	
i.	Have the influent and effluent flow meters been calibrated i	n the last year?
	Yes X No (√ Check one box.)	
	10/24/17	10/24/17
	Influent flow meter calibration date(s) Effluen	nt flow meter calibration date(s)
ii.	What problems, if any, have been experienced over the last treatment?	year that have threatened
	None	
iii.	Is your community presently involved in formal planning fo	r treatment facility upgrade?
	√ Check one box. Yes X No	f Yes, Please describe:

			ren	# LA0073539
D.	Preventive Maintenanc	е		
i.	Does your plant have a written plan for preventive maintenance on major equipment items?			
	√ Check one box.	X Yes	☐ No	If Yes, Please describe:
	The Department's	BMP as we PM and the	ll as the ma e Plant O&N	nufactures manuals detailing /I Manual.
i.	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	
i.	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	
	Sewer Use Ordinance			
	Does your community have a sewer use ordinance that limits or prohibits the discharge of excessive conventional pollutants (BOD, TSS or pH) or toxic substances to the sewer system from industries, commercial users and residences?			
	√ Check one box.	X Yes	☐ No	If Yes, Please describe:
	Ordinance 85-8-8 Metals limits on di	scharges. Ai	D, TSS, pH Il limits corre domestic v	l, Oil and Grease, COD, and espond to average domestic vaste.
	Has it been necessary to	enforce?		
	√ Check one box.	X Yes	☐ No	If Yes, Please describe:
	We require all cor	nercial and i	ndustrial use	ers to abide by these limits.
i.	Any additional comment additional sheets if neces	s about your tre	atment plant or	r collection system? (Attach

Permit #: LA0073539

POINT CALCULATION TABLE

	Actual Values	Maximum
Part 1: Influent Flow/Loadings	0	80 points
Part 2: Effluent Quality / Plant Performance	0	100 points
Part 3: Age of WWTF	45	50 points
Part 4: Overflows and Bypasses	80	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:	125	