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

Date Completed:

January 10, 2018

PARTE INDEPENDED FLOW LOADINGS (SUPPENS)

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)
1.971	x	197	x 8.34 =	3,283
2.795	x	151	x 8.34 =	3,520
4.318	x	175	x 8.34 =	6,302
2.872	x	159	x 8.34 =	3,808
2.778	X	157	x 8.34 =	3,637
2.905	x	177	x 8.34 =	4,288
4.050	X	137	x 8.34 =	4,627
5.062	x	122	x 8.34 =	5,150
4.037	x	130	x 8.34 =	4,377
5.437	X	165	x 8.34 =	7,482
2.855	x	155	x 8.34 =	3,691
3.073	x	174	x 8.34 =	4,459

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

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How many months did the monthly flow (Calm	487.4	

C.	(VV VV	IL) 6x	months ceed 9 Write t	U% OI	aesign	HOW?	Circle	e the nu	ımber ı	of mon	ewater ths and	treatm I the c	ent fac	ility ding
	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
						Writ	e 0 or :	5 in the	C poi	nt total	box	0	C Poi	nt Tota
D.	CHUIC	many rethe nurse the	nonths umber o right.	did the	e mont ths and	hly flo i corre	w (Co spondi	lumn 1 ng poi) to the nt total	WWI Writ	F exce e the p	eed the	design	ı flow? ıe 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 poir	nt total	box	0	D Poi	nt Total
E.	or me	crest811	nonths loadin al in the	$\mathbf{g} \in \mathbf{C}$	rcie une	e numb	er of r	ling (C nonths	olumn and co	3) to to	he WV nding _l	VTF ex point to	ceed 9 otal. V	0% /rite
	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	it total	box	0	E Poin	it Total
F.	design	TOAUH.	nonths on the box	cie ine	numc	er or n	nonths	ling (C and co	olumn rrespo	3) to tinding p	he WW point to	VTF ex otal. V	ceed th Vrite th	ie e
	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 poin	t total	box [0	F Poin	t Total

G. Add together each point total for C through F and place this sum in the box below at the right.

TOTAL POINT VALUE FOR PART 1: 0 (max = 80)

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

PART 21 EFFEUENT OUALITY PERSORMANCE

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 2016	2	2
December 2016	2	3
January 2017	3	1
February 2017	5	2
March 2017	4	2
April 2017	3	2
May 2017	3	2
June 2017	3	3
July 2017	2	3
August 2017	2	2
September 2017	2	1
October 2017	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

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C. Continuous Discharge to Surface Water.

i. How many months did the effluent BOD (Column 1) exceed 90% of the permit limits? Circle the number of months and the correspoding point total. Write the point total in the box below at the right.

(0)months points (0)

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

ii. How many months did the effluent BOD (Column 1) exceed permit limits? Circle the number of months and corresponding point total. Write the point total in the box below at the right.

months points

Write 0, 5, or 10 in the ii point total box 0 ii Point Total

iii. How many months did the effluent TSS (Column 2) exceed 90% of the permit limits? Circle the number of months and the correspoding point total. Write the point total in the box below at the right.

 $(\mathbf{0})$ months points $(\mathbf{0})$

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

iv. How many months did the effluent TSS (Column 2) exceed permit limits? Circle the number of months and corresponding point total. Write the point total in the box below at the right.

months points

Write 0, 5, or 10 in the iv point total box 0 iv Point Total

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

TOTAL POINT VALUE FOR PART 2: 0 (max = 100)

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

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D.	Other Monitoring and Limitations	
i.	At any time in the past year was there and exceedance of pollutants such as: ammonia-nitrogen, phosphorus, pH, to coliform?	a permit limit for other otal residual chlorine, or fecal
	√ Check one box. Yes X No	If Yes, Please describe:
ii.	At any time in the past year was there a "failure" of a Bio Toxicity) test of the effluent?	emonitoring (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 substance?	permit limit for a toxic
	√ Check one box. Yes No	If Yes, Please describe:

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PART 3- AGE OF THE WASTEWATER TREATMENT FACILITY:

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

 $\begin{array}{rcl}
 & 2000 \\
\hline
 & Current Year & - Answer to A & = Age in years \\
 & 2017 & 2000 & 17
\end{array}$

Enter Age in Part C below.

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

X 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

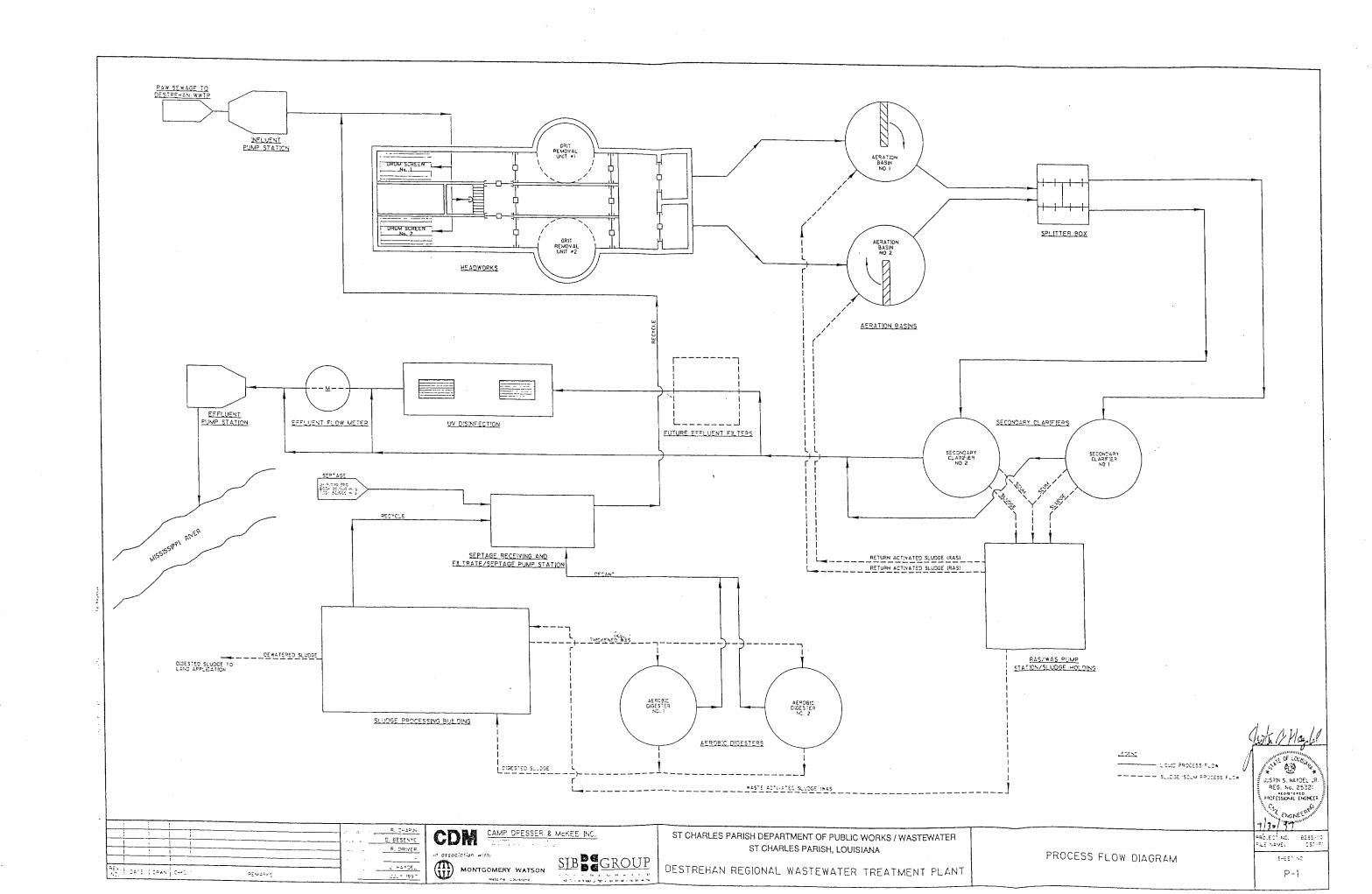
C. Multiply the factor listed next to the type of facility your community employs by the age of your facility to determint the total point value for Part 3.

TOTAL POINT VALUE FOR PART 3 =

$$\frac{2.5}{Factor} \times \frac{17}{Age} = 42.5 \text{ (max = 50)}$$

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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PAS	RTPEEVERIEOWS AND EXPASSES.		
A. i.	List the number of times in the last year there was an ove discharge of untreated or incompletely treated wastewate	rflow, bypass or unpe r due to heavy rain:	rmitted
	13 $\sqrt{\text{Check one box.}}$ $0 = 0 \text{ points}$ $1 = 5 \text{ points}$ $2 = 10 \text{ points}$	3 = 15 points 4 = 30 points X 5 or more = 3	s 50 points
ii.	List the number of bypasses, overflows or unpermitted di were withing the collection system and the number at the	scharges shown in A treatement plant	(i) that
	Collection System: 13 Tr	eatment Plant:	0
B. i.	List the number of times in the last year there was an ove discharge of untreated or incompletely treated wastewater either at the treatment plant or due to pumping problems	r due to equipment fai in the collection syste	lure, m:
			s 50 points
ii.	List the number of bypasses, overflows or unpermitted di were withing the collection system and the number at the	scharges shown in B treatement plant	(i) that
	Collection System: 10 Tr	eatment Plant:	0
C.	Specify whether the bypasses came from the city/village/contract or tributary communities/sanitary districts, etc City Sewer System	·	from
D.	Add the point values checked for A and B and place the to	otal in the box below.	
	TOTAL POINT VALUE FO Also enter this value or 100, whichever is less, on the p		(max = 100) on page 16.
E.	List the person responsible (name and title) for reporting unpermitted discharges to State and Federal authorities:	overflows, bypasses o	r
	L. J. Brady, Assistant Director of	f Wastewater	
	Describe the procedure for gathering, compiling and report Overflows, bypasses and unpermitted discharges are submitted by appropriate agencies (SPOC, DEQ).	rting: the operator and reported	to the

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PART SE SLUDGE STORAGEAND DISHOSAESURS

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 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.

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were installed during	•		
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	hat either flow or p	noved into the community or expanded pro- pollutant loadings to the sewerage system w	due
√ Check one box.	Yes = 1:	5 points X No = 0 points	
If Yes, Please describe	»:		
List any new pollutant	s:		
110110	······································		
Is there any developme 2-3 years, such that eit significantly increase? √ Check one box.	her flow or polluta Yes = 15	amercial or residential) anticipated in the nent loadings to the sewerage system could be points No = 0 points	xt
Is there any developme 2-3 years, such that eit significantly increase?	her flow or polluta Yes = 15	nt loadings to the sewerage system could	xt

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.

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PΑ	RU#76#OPERATO	KEEKGEO	ION AN	id Ebioc	ATION
A.	What was the name of	the operator-in-charge	for the repo	rting year?	
		Name:		Herman	Cortez
В.	What is his or her certi-	fication number: <i>Cert.</i> #:		17-2	208
C.	What level of certificat wastewater treatment fa	acility?			-
D	3371 . () (1 1 1 2 0	Level Required:		<u> \</u>	V
D.	What is the level of cer		•		
		Level Certified:			V
E.	Was the operator-in-char required in order to ope	arge of the report year erate this plant?	certified at l	east at the g	grade level
	√ Check one box.	X Yes = 0 points	ats	☐ No	= 50 points
	Wri	te 0 or 50 in the E poi	nt total box	0 E Po	oint Total
F.	Has the operator-in-chayear?	rge maintained recert	ification requ	urements du	ring the reporting
	\lor Check one box.	X Yes		☐ No	
G.	How many hours of corlast two calendar years?	ntinuing education has	the operator	-in-charge c	ompleted over the
	\lor Check one box.	∑ > 12 hours =	= 0 points	<u> </u>	hours = 50 points
	Writ	te 0 or 50 in the G poi	nt total box	0 G P	oint Total
H.	Is there a written policy treatment plant employe	regarding continuing	education ar	n training for	wastewater
	√ Check one box.	X Yes		☐ No	
		g is outlined in the es, Plant O&M Ma			Plant Emergency y Manual.
I.	What percentage of the paid for:	continuing education	expenses of	the operator-	-in-charge were
	By the permittee?	100%	By the ope	rator?	0%
J.	Add together the E and				
		TOTAL POINT	VALUE FO	R PART 7:	0 (max = 100)
	Also enter this value	or 100, whichever is I			H 16 '
			· · · · · · · · · · · · · · · · · · ·		more our bage 10

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PART 8: PLNANGLAL STATIUS WEETER COMPLETE IN 11 200 11	THE PROPERTY.
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PAF	LI 8: FINANCIAL STATUS DE PERMIT EN LE LA COMPANION DE LA COMPANION DE LA COMPANION DE LA COMPANION DE LA COMP
A.	Are User-Charge Revenues sufficient to cover operation and maitenance expenses?
I	√ 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.
В.	What financial resources do you have available to pay for your wastewater improvements and reconstruction needs?
	DEQ loans, grants, general fund and new ad valorem tax.

B.

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ľΑ	regi surmenevetevalegation == ****				
A.	Collection System Maintenance				
i.	Describe what sewer system maintenance work has been done in the last year.				
	Clean and camera lines. Rehabilitate manholes Locate and number manholes. GIS. Repla	•			
ii.	Describe what lift station work has been done in the last year.				
	Pulled all pumps, inspected wet wells, control per concerning lift stations. New pumps a				
iii.	What collection system improvements does the community have under construction for the next 5 years?				
	New lift stations, upgrade lift stations, new fore gravity lines.	ce mains, and rehab			
В.	If you have ponds please answer the following questions:	√ Check one box.			
i. ii.	Do you have duckweed buildup in the ponds? Do you mow the dikes regularly (at least monthly), to the waters edge?	Yes No			
iii.	Do you have bushes or trees growing on the dikes or in	Yes No			
iv.	the ponds? Do you have excess sludge buildup (> 1foot) on the bottom	Yes No			
v.	of any of your ponds? Do you excersise all of your valves?	Yes No			
vi. vii.	Are your control manholes in good structural shape? Do you maintain at least 3 feet of freeboard in all of your	Yes No			
	ponds? Do you visit your pond system at least weekly?	Yes No			

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C.	Treatment Plants
i.	Have the influent and effluent flow meters been calibrated in the last year?
	X Yes No (√ Check one box.)
	10/24/17 10/24/17
	Influent flow meter calibration date(s) Effluent 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 for treatment facility upgrade?
	√ Check one box.

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D.	Preventive Maintenance				
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 well as the manufactures manuals detailing PM and the Plant O&M Manual.				
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		
E.	Sewer Use Ordinance				
i.	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 imposes BOD, TSS, pH, Oil and Grease, COD, and Metals limits on discharges. All limits correspond to average domestic strength domestic waste.				
ii.	Has it been necessary to en	nforce?			
	√ Check one box.	X Yes	☐ No	If Yes, Please describe:	
į	We require all come	ercial and	industrial users	to abide by these limits.	
iii.	Any additional comments additional sheets if necessar	about your tro ury.)	eatment plant or col	llection system? (Attach	
J					

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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	42.5	50 points
Part 4: Overflows and Bypasses	100	100 points
Part 5: Ultimate Disposition of Sludge	00	100 points
Part 6: New Development	0	30 points
Part 7: Operator Certification Training	0	100 points
TOTAL POINTS:	142.5	