# **LOUISIANA**

# MUNICIPAL WATER POLLUTION PREVENTION

**MWPP** 



Facility Name:

St. Charles Parish Council
Hahnville Wastewater
Treatment Plant

LPDES Permit Number:

LA 0073521

Agency Interest (AI) Number:

AI 43357

Address:

Post Office Box 302

Hahnville, Louisiana 70057

Parish:

St. Charles

(Person Completing Form) Name:

Angela Troxler

Title:

**Laboratory Coordinator** 

Date Completed:

January 5, 2017

# PART IN INCLUENT ELOW/LOADINGS (all plans)

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)
3.413	x	59	<b>x</b> 8.34 =	1,679
2.742	x	97	x 8.34 =	2,218
3.287	x	96	x 8.34 =	2,631
2.59	x	133	x 8.34 =	2,872
3.065	x	53	x 8.34 =	1,354
3.063	x	136	x 8.34 =	3,474
2.526	<b>x</b>	114	x 8.34 =	2,401
2.747	X	88	x 8.34 =	2,016
1.797	x	114	x 8.34 =	1,708
3.158	x	87	x 8.34 =	2,291
2.083	x	128	x 8.34 =	2,223
1.035	x	143	x 8.34 =	1,234

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:	2.30	x 0.90 =	2.07
Design BOD, lb/day:	2,945	x 0.90 =	2,650.5

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C. How many months did the monthly flow (Column 1) to the wastewater treatment facility (WWTF) exceed 90% of design flow? Circle the number of months and the correspoding point total. Write the point total in the box below at the right.

months points (5) 

Write 0 or 5 in the C point total box 5 C Point Total

D. How many months did the monthly flow (Column 1) to the WWTF exceed the design flow? 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, 10 or 15 in the D point total box 15 D Point Total

E. How many months did the monthly BOD loading (Column 3) to the WWTF exceed 90% of the design loading? Circle the number of months and corresponding point total. Write the point total in the box below at the right.

months (5) points 

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

F. How many months did the monthly BOD loading (Column 3) to the WWTF exceed the design loading? Circle the number of months and corresponding point total. Write the point total in the box below at the right.

months points 

Write 0, 10, 20, 30, 40 or 50 in the F point total box 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: 35 (max = 80)

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

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# PART2 EFELUENT QUALUTY ARIANTPERFORMANCE

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 2015	3		3
December 2015	3		3
January 2016	4		3
February 2016	4		3
March 2016	4		5
April 2016	3		2
May 2016	2		4
June 2016	3		3
July 2016	2		2
August 2016	2		2
September 2016	3		3
October 2016	2		3

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

	Permit Limit		90% of Permit Limit
BOD, mg/l	20.0	x 0.90 =	27.0
TSS, mg/l	30.0	x 0.90 =	27.0

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~	a .:	To 1 .	~ ^	
U.	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.

months points	0	1	2	3	4	5	6	7	8	9	10	11	12
points	<b>(0</b> )	0	10	20	30	40	40	40	40	40	40	40	40
											<b></b>		

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	0	1 5	2 5	3 10	4 10	5 10	6 10	7 10	8 10	9 10	10 10	11 10	12 10	
				Wı	rite 0, 5	5, or 10	) in the	ii poir	nt total	box	0	ii Poin	ıt Total	l

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.

months points	0	) 1	2 10	3 20	4 30	5 40	6 40	7 40	8 40	9 40	10 40	11 40	12 40	
			Write	e 0, 10,	, 20, 30	or 40	in the	iii poir	ıt total	box	0	iii Poi	nt Total	l

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	0	1 5	2 5	3 10	4 10	5 10	6 10	7 10	8 10	9 10	10 10	11 10	12 10	
				Wr	ite 0, 5	, or 10	in the	iv poir	nt total	box	0	iv Poi	nt Tots	a 1

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: 
$$0 \text{ (max = 100)}$$

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	المساور والمساور
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 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?	monitoring (Whole Effluent
	√ Check one box.  Yes  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 X No	If Yes, Please describe:

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# PART BY AGE OF THE WASTEWATER TREATMENT FACILIES.

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

$$\begin{array}{rcl}
 & 2000 \\
\hline
 & Current Year & - Answer to A & = Age in years \\
2016 & 2000 & 16
\end{array}$$

Enter Age in Part C below.

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

			FACTOR:
<u>X</u>	Mechanical Treatment (trickling filter, activ		2.5
	sludge, etc) Specify Type:	Activated Sludge	
	Aerated Lagoon		2.0
	Stabilization Pond		1.5
	Other Specify Type:		1.0

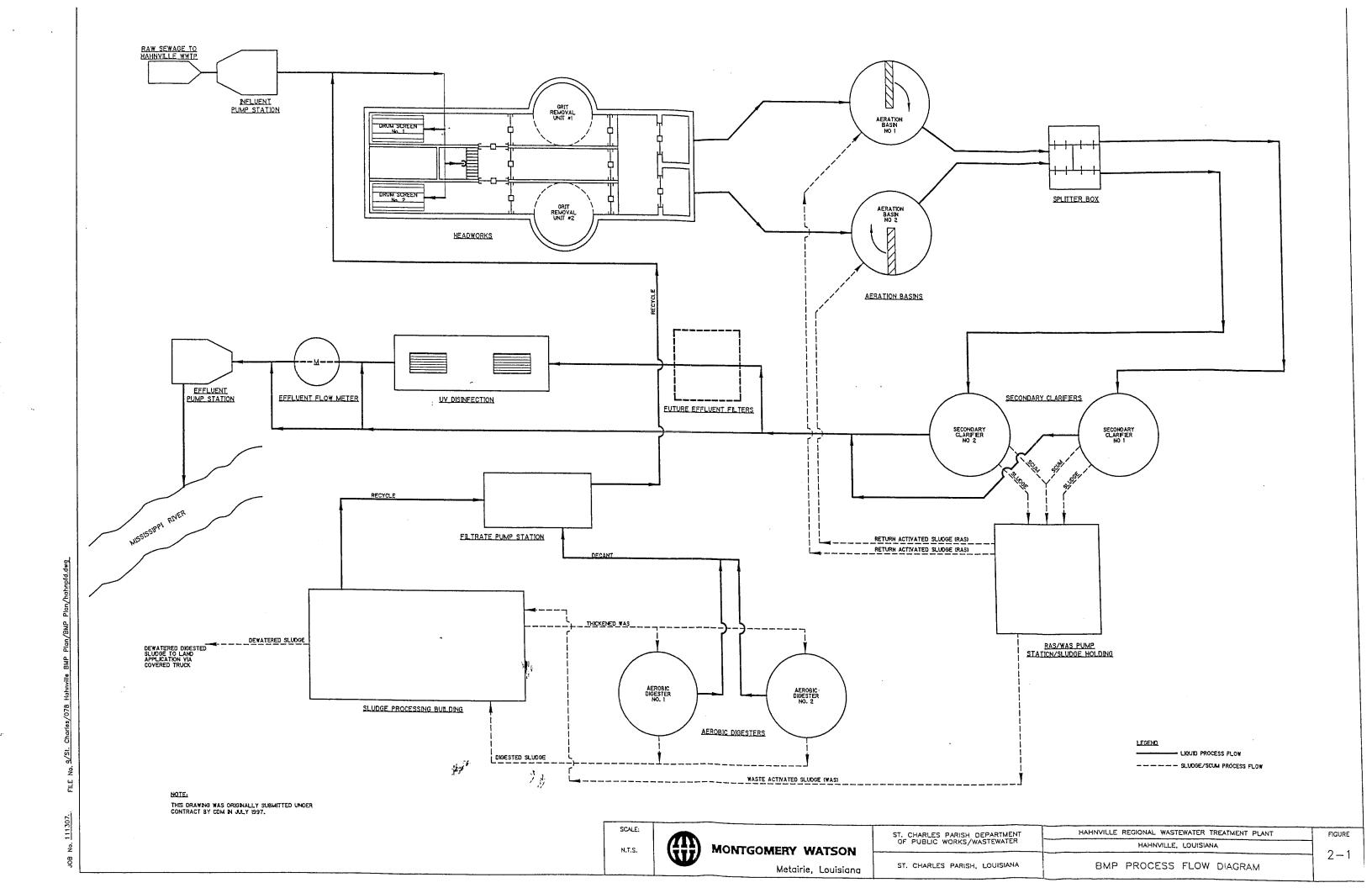
C. Multiply the factor listed next to the type of facility your community employs by the age of your facility to determint the total point value for Part 3.

## **TOTAL POINT VALUE FOR PART 3 =**

$$\frac{2.5}{Factor} \times \frac{16}{Age} = \boxed{40 \text{ (max} = 50)}$$

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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ELGAMBREDOWS AND BYPASSES	

A. i.	List the number of times in the ladischarge of untreated or incompl	st year there was an letely treated wastew	overflow, bypass or unperparted due to heavy rain:	mitted
	√ Check one box.	0 = 0 points 1 = 5 points 2 = 10 points	3 = 15 points 4 = 30 points x 5 or more = 50	) points
ii.	List the number of bypasses, over were withing the collection system	m and the number at	d discharges shown in A (i the treatement plant	) that
	Collection System:	21	Treatment Plant:	18
B. i.	List the number of times in the last discharge of untreated or incompleither at the treatment plant or due	letely treated wastew e to pumping proble	vater due to equipment fails ms in the collection system	ure, 1:
	7 V Check one box.	0 = 0 points 1 = 5 points 2 = 10 points	3 = 15 points 4 = 30 points 5 or more = 50	) points
ii.	List the number of bypasses, over were withing the collection system	flows or unpermitted and the number at	d discharges shown in B (i the treatement plant	) that
	Collection System:	6	Treatment Plant:	1
C.	Specify whether the bypasses can contract or tributary communities,	ne from the city/villa/sanitary districts, et	ige/town sewer system or f	rom
		City Sewer Syst	tem	
D.	Add the point values checked for	A and B and place t	he total in the box below.	
	TOTA Also enter this value or 100, w		FOR PART 4: 100 (the point calculation table of	
E.	List the person responsible (name unpermitted discharges to State as L. J. Brady, A	nd Federal authoritie	ing overflows, bypasses or es: or of Wastewater	
	Describe the procedure for gather.  Overflows, bypasses and unpermit appropri		mitted by the operator and repo	rted to the

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## PARI 5 SLUDGESTORAGEANDED SHOSAESHDES

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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 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 (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. 17,000 Design Population: Design Flow: MGD Design BOD: 30-45 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 points X 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?  $\sqrt{\text{Check one box.}}$ Yes = 15 points $\overline{X}$  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.

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A.	What was the name of th	e operator-in-charge	for the repor	ting year?		
		Name:		Herman C	Cortez	
В.	What is his or her certific	cation number;				<del></del>
C.	What level of certification	n is the operator-in-c	,		operate the	
	wastewater treatment fac	ility? <i>Level Required:</i>		IV		
D.	What is the level of certi-	-	or-in-charge?	)		*******
		Level Certified:	Ū	IV		
E.	Was the operator-in-char required in order to opera	ge of the report year ate this plant?	certified at le	east at the gra	ade level	
	√ Check one box.	X Yes = 0 point	ats	No =	50 points	
	Write	0 or 50 in the E poi	nt total box	0 E Poi	nt Total	
F.	Has the operator-in-charge year?	ge maintained recerti	fication requi	irements duri	ng the reporting	
	√ Check one box.	X Yes		☐ No		
G.	How many hours of contlast two calendar years?	inuing education has	the operator-	-in-charge co	mpleted over the	ŀ
	√ Check one box.	> 12 hours =	0 points	<u> </u>	nours = 50 point	:8
	Write	0 or 50 in the G poin	nt total box	0 G Poi	nt Total	
Н.	Is there a written policy r treatment plant employee	regarding continuing	education an	training for	wastewater	
	√ Check one box.	X Yes		☐ No		
	Explain: Training	is outlined in the	Departme	ent BMP, F	Plant Emerge	ncy
	Procedures	s, Plant O&M Ma	nual, and	the Safety	Manual.	********
ŧ.	What percentage of the capaid for:	ontinuing education	expenses of t	he operator-i	n-charge were	Hjórnaymanasa
	By the permittee?	100%	By the open	rator?	0%	
J.	Add together the E and G					
		TOTAL POINT	VALUE FOI	R PART 7:	0 (max = 1	100)
	Also enter this value o					
			_			

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a:	82	82	va.	SM	122	48	310	893	ЭΑ.	20	œ	м	32.	28.3	М.	FX.	а	80	OV.	Œ	80	946	82	186	12	22	20	22	30	<b>2</b> 21	200	w	300	:53	22	100	an.	. 20	26	<b>68</b> #	9 h	tъя	43	Ð
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20	ĸτ	22	40		100	W-3	2.3	35	100	-	82	m	11	20	m	2.2	32	10	77	582	93	98	88	84		22	311	25	-87	353	QC.3	-	667	8.0	MC.	123	2.4	er:	72	3.0	2013		203	a
	361		121	244	લકા	MO.	œ	3,7	2.2	20	ani	316	3.20	Я	93	Sec.	ш	ďΑ	ees.																ш	u.	5.7	10.	w				M.	m

A.	Are User-Charge Revenues	s sufficient 1	to cover oper	ration and maitenance expenses?
	√ Check one box.	X Yes	☐ No	If No, How are O&M costs financed?
	1		•	venues are sufficient to cover ance expenses.
В.	What financial resources do and reconstruction needs?	o you have a	available to p	pay for your wastewater improvements
	DEQ loans, gr	ants, gen	eral fund	and new ad valorem tax.

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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 concerning lift stations. New pumps a	-
iii.	What collection system improvements does the community hat the next 5 years?	we under construction for
	New lift stations, upgrade lift stations, new for 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	Yes No
iii.	waters edge?  Do you have bushes or trees growing on the dikes or in the ponds?	Yes No
iv. v.	Do you have excess sludge buildup (> 1foot) on the bottom of any of your ponds? Do you excersise all of your valves?	Yes No No No
vi. vii.	Are your control manholes in good structural shape?  Do you maintain at least 3 feet of freeboard in all of your ponds?	<ul><li>☐ Yes</li><li>☐ No</li><li>☐ Yes</li><li>☐ No</li></ul>
VIII.	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.)				
	$\frac{10-5-16}{Influent flow meter calibration date(s)} \frac{10-5-16}{Effluent flow meter calibration date(s)}$				
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.  Yes  No If Yes, Please describe:				

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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.	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?					
		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.	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 enforce	?				
	√ Check one box. X	Yes	☐ No	If Yes, Please describe:		
	We require all comercial	and i	ndustrial users	to abide by these limits.		
iii.	Any additional comments about additional sheets if necessary.)	your tre	eatment plant or col	lection system? (Attach		
:						

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# POINT CALCULATION TABLE

Part 1: Influent Flow/Loadings	Actual Values 35	Maximum 80 points
Part 2: Effluent Quality / Plant Performance	0	100 points
Part 3: Age of WWTF	40	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:	175	