

MONTHLY REPORT OF OPERATION

Trickling Filter Wastewater Treatment Plant

Date: Nov-09
 LaPorte Wastewater Treatment Plant
 2101 Boyd Boulevard
 LaPorte IN, 46350
 Phone # (219)362-2354

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 Permit # IN0025577
 Expires 10-31-2009
 Certified Operator : Jerry P Jackson
 Certification Number : 11496

					Raw Sewage				Primary Effluent				Secondary Effluent				Rotary Filter		Fixed-Bed Filter		Trickling Filters		Biotowers						
Day of the Month	Day of the Week	Total Flow in MGal/Day	Weekly Average Flow in MGal/Day	Precip in inches	Collection System Overflow 'X' if occurred	Diversion to CSO Basin At site hours	CSO Basin Overflow in MGal/Day	pH	CBOD in mg/L	TSS in mg/L	NH3 in mg/L	pH	CBOD in mg/L	TSS in mg/L	NH3 in mg/L	pH	CBOD in mg/L	TSS in mg/L	NH3 in mg/L	Flow in MG/Day	Cleaning in Minutes	Flow in MG/Day	Cleaning in Minutes	Secondary Recirc. Ratio	Flow in MG/Day	Tertiary Recirc. Ratio	Cleaning in Minutes		
1	Sun	10.3				24.1	0.00	7.20	36	22	7.15	7.13	60	48	8.43	7.02	10	32	3.64	7.4			3.9		0.10	10.3	-0.00		
2	Mon	9.9				17.3	0.00	7.21	31	34	6.92	7.18	35	40	8.38	7.13	10	31	4.74	7.1			3.7		0.10	9.8	-0.00		
3	Tue	8.0				4.2	0.00	7.30	43	46	6.57	7.25	53	56	8.57	7.22	9	33	4.28	7.0			3.8		0.35	8.1	0.01		
4	Wed	4.4					0.00	7.39	74	73	14.70	7.31	49	52	15.30	7.22	10	26	7.56	4.5			2.4		0.56	5.3	0.20	90	
5	Thu	4.9					0.00	7.40	83	86	12.80	7.32	62	52	12.60	7.23	12	25	5.21	4.5			2.7	90	0.46	5.8	0.18		
6	Fri	5.1					0.00	7.35	75	64	11.90	7.28	45	49	11.30	7.21	11	28	5.39	4.8			2.2		0.39	5.9	0.16		
7	Sat	4.8	6.8				0.00	7.33	73	48	10.50	7.23	55	38	10.90	7.29	13	24	5.43	4.5			2.0		0.35	5.5	0.15		
8	Sun	4.1					0.00	7.34	80	60	13.00	7.27	66	40	12.80	7.11	11	19	6.27	4.5			1.8		0.52	5.3	0.30		
9	Mon	5.7				2.6	0.00	7.32	85	51	10.10	7.23	56	40	8.71	7.17	13	19	3.89	4.9			2.8		0.36	6.4	0.14		
10	Tue	4.0					0.00	7.33	50	64	13.70	7.25	50	44	12.70	7.24	8	16	5.29	4.6			2.4		0.73	5.3	0.31		
11	Wed	4.5					0.00	7.52	87	128	13.15	7.42	11	46	14.40	7.37	11	25	6.61	4.6			2.6		0.59	5.7	0.24		
12	Thu	4.0					0.00	7.41	90	66	14.60	7.35	57	46	13.90	7.19	11	23	6.11	4.5			2.4		0.72	5.5	0.38		
13	Fri	5.7					0.00	7.56	60	104	9.50	7.37	45	70	10.10	7.27	7	32	4.78	5.0			2.9		0.38	6.2	0.10		
14	Sat	3.9	4.6				0.00	7.43	88	74	12.70	7.36	55	56	12.70	7.24	10	26	7.10	4.5			1.8		0.60	5.3	0.37		
15	Sun	4.5		0.06			0.00	7.48	68	74	10.90	7.33	59	46	10.45	7.28	10	21	4.89	4.5			2.1		0.47	5.6	0.26		
16	Mon	5.3		0.07		3.4	0.00	7.47	88	108	10.40	7.37	60	76	10.10	7.37	14	34	5.14	4.9			2.4		0.38	6.1	0.16		
17	Tue	4.7		0.04			0.00	7.61	75	60	11.60	7.79	58	38	18.50	7.43	11	22	5.21	4.6			2.6		0.54	5.5	0.17		
18	Wed	5.0		0.15			0.00	7.44	73	61	11.35	7.29	71	64	12.60	7.21	18	33	6.56	4.7			2.8		0.50	5.7	0.13		
19	Thu	4.3		0.05			0.00	7.59	135	122	29.90	7.33	66	74	16.95	7.27	12	33	9.01	4.6			2.3		0.60	5.5	0.28		
20	Fri	4.2					0.00	7.63	68	66	13.50	7.59	71	64	19.10	7.23	29	34	10.40	4.5			2.0		0.55	5.3	0.27		
21	Sat	4.3	4.6				0.00	7.44	74	72	3.61	7.25	60	48	11.90	7.19	12	22	6.05	4.5			1.8		0.46	5.4	0.25		
22	Sun	3.9					0.00	7.51	80	68	10.40	7.37	61	72	10.90	7.16	11	26	6.25	4.5			1.8		0.62	5.4	0.40		
23	Mon	4.1					0.00	7.44	108	100	15.60	7.29	68	86	16.80	7.16	11	28	5.37	4.5			2.2		0.62	5.5	0.34		
24	Tue	5.3		0.39		3.9	0.00	7.67	103	142	14.50	7.55	82	122	18.90	7.14	2	50	11.60	4.8			2.5		0.41	6.0	0.14		
25	Wed	6.9		0.14		5.1	0.00	7.52	51	50	8.02	7.36	52	88	9.41	7.24	17	41	4.16	5.7			3.0		0.25	7.3	0.05		
26	Thu	4.8		0.20		0.7	0.00	7.35	72	54	11.50	7.23	53	60	11.30	7.20	12	31	4.74	4.9			2.5		0.57	6.0	0.25		
27	Fri	3.6					0.00	7.43	80	70	15.00	7.28	45	55	14.90	7.22	7	27	6.48	4.6			1.9		0.80	5.5	0.52		
28	Sat	3.7	4.6				0.00	7.35	78	68	14.00	7.22	63	68	15.50	7.13	10	28	8.63	4.6			1.7		0.72	5.5	0.50		
29	Sun	3.8		0.05			0.00	7.38	88	76	14.70	7.22	68	56	15.25	7.09	12	24	8.27	4.5			1.7		0.63	5.4	0.41		
30	Mon	3.8					0.00	7.34	97	110	14.50	7.24	77	56	13.50	7.22	12	26	6.20	4.5			2.2		0.75	5.5	0.44		
AVERAGE		5.0		0.04		2.0	0.00	7.42	76	74	12.23	7.32	57	58	12.90	7.22	11	28	6.18	4.9			2.4	3	0.50	6.1	0.24	3	
MAXIMUM		10.3	6.8	0.39		24.1	0.00	7.67	135	142	29.90	7.79	82	122	19.10	7.43	29	50	11.60	7.4			3.9	90	0.80	10.3	0.52	90	
MINIMUM		3.6		0.04		0.0	0.00	7.20	31	22	3.61	7.13	11	38	8.38	7.02	2	16	3.64	4.5			1.7	90	0.10	5.3	-0.00	90	
# OF DATA		30		9		30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30			30	1		30		1
TOTAL		151		1.15		61	0	223	2295	2221	367	220	1713	1750	387	216	343	838	185	147			73	90		182		90	

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Final Effluent

Day of the Month	Day of the Week	Effluent Flow in MGal/Day	pH	CBOD in mg/L	CBOD weekly av in mg/L	CBOD in lbs/Day	CBOD weekly av in lbs/Day	TSS in mg/L	TSS weekly av in mg/L	TSS in lbs/Day	TSS weekly av in lbs/Day	NH3-N in mg/L	NH3-N weekly av in mg/L	NH3-N in lbs/Day	NH3-N weekly av in lbs/Day	Dissolved Oxygen in mg/L	Aerators run in hours	Chlorine Tank Residual in mg/L	Escherichia Coliform (Colonies /100mL)	Effluent Chlorine Residual in mg/L
1	Sun	8.7	7.44	3		240		12		1029		0.17		15		10.1		1.83		< 0.01
2	Mon	8.4	7.39	3		263		13		1068		0.26		21		10.0				
3	Tue	6.7	7.45	3		166		16		1064		0.23		15		10.1				
4	Wed	3.5	7.56	< 2		37		6		222		0.20		7		10.1				
5	Thu	3.9	7.57	3		120		5		186		0.18		7		9.9				
6	Fri	4.1	7.50	4		186		11		466		0.18		8		9.8				
7	Sat	3.8	7.55	5	3	180	170	10	10	401	633	0.10	0.19	4	11	10.3				
8	Sun	3.2	7.48	2		82		3		103		0.10		3		10.1				
9	Mon	4.5	7.52	3		146		5		236		0.11		5		9.8				
10	Tue	3.0	7.57	< 2		33		4		134		0.17		6		10.0				
11	Wed	3.5	7.72	2		80		8		284		0.10		4		9.8				
12	Thu	3.1	7.66	2		67		3		100		0.11		4		9.7				
13	Fri	4.5	7.67	2		99		9		426		0.11		5		9.8				
14	Sat	3.0	7.64	< 2	2	33	77	7	6	228	216	0.10	0.11	3	4	9.5				
15	Sun	3.5	7.65	< 2		37		6		224		0.08		3		9.3				
16	Mon	4.2	7.55	3		137		10		443		0.13		6		9.7				
17	Tue	3.7	7.66	3		113		3		97		0.08		3		10.0				
18	Wed	4.0	7.51	3		134		12		501		0.10		4		9.9				
19	Thu	3.4	7.47	< 2		36		8		287		0.23		8		10.1				
20	Fri	3.2	7.46	2		77		7		245		0.47		16		9.9				
21	Sat	3.3	7.49	3	2	97	90	2	7	72	267	3.75	0.69	135	25	10.0				
22	Sun	2.9	7.60	< 2		32		11		339		0.08		3		10.0				
23	Mon	3.1	7.59	< 2		34		5		171		0.07		2		9.8				
24	Tue	4.1	7.62	2		96		14		591		0.02		1		9.8				
25	Wed	5.8	7.42	7		387		25		1443		0.11		6		9.8				
26	Thu	3.8	7.34	3		103		6		218		0.16		6		9.9				
27	Fri	2.7	7.39	< 2		30		6		180		0.11		3		10.0				
28	Sat	2.8	7.35	< 2	2	31	102	8	11	244	455	0.11	0.09	3	4	9.6				
29	Sun	2.9	7.35	< 2		32		3		80		0.09		3		9.4				
30	Mon	2.9	7.36	< 2		32		7		223		0.08		3		9.4				
AVERAGE		4.0	7.52	2		105		8		377		0.26		10		9.9		1.83		< 0.01
MAXIMUM		8.7	7.72	7	3	387	170	25	11	1443	633	3.75	0.69	135	25	10.3		1.83		
MINIMUM		2.7	7.34	<2		30		2		72		0.02		1		9.3		1.83		0.00
# OF DATA		30	30	30		30		30		30		30		30		30		1		1
TOTAL		120	226	69		3141		242		11304		8		314		295.6		1.83		< 0.01

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Solids Removal

		Chemicals Used for disinfection						Primary & Secondary Settling			Final Settling		
Day of the Month	Day of the Week	Chlorine in lbs/Day	Sulfur Dioxide in lbs/Day	Grit in cubic ft per day	Screening in cubic ft per day	Pri. Sludge to Primary # 1 Digester (gal x 1000)	Scum to Primary # 2 Digester (gal x 1000)	Secondary Sludge to Pri. Clarifier (gal x 1000)	Cleaning Mechanism run in hours	Sludge Drawn Hours per day	Sludge to Headworks (gal x 1000)		
1	Sun	192	80			21	0	318	6	2	109		
2	Mon					20	0	304	6	2	89		
3	Tue					20	3	301	6	2	85		
4	Wed					20	0	296	6	2	89		
5	Thu					20	0	290	6	2	85		
6	Fri				27	20	0	283	6	2	94		
7	Sat					20	0	275	6	2	90		
8	Sun					19	0	270	6	2	89		
9	Mon					19	0	267	6	2	86		
10	Tue					22	0	267	6	2	84		
11	Wed					25	0	268	6	2	86		
12	Thu					20	0	270	6	2	87		
13	Fri					23	0	270	6	2	85		
14	Sat					19	0	268	6	2	87		
15	Sun					20	0	265	6	2	86		
16	Mon				27	34	22	0	261	6	2	84	
17	Tue					19	0	260	6	2	84		
18	Wed					27	0	259	6	2	85		
19	Thu					26	2	261	6	2	96		
20	Fri					22	0	283	6	2	88		
21	Sat					21	0	283	6	2	84		
22	Sun					28	0	280	6	2	84		
23	Mon					31	0	264	6	2	83		
24	Tue					24	0	286	6	2	84		
25	Wed				20	34	28	0	290	6	2	83	
26	Thu					33	0	289	6	2	83		
27	Fri					22	0	287	6	2	83		
28	Sat					29	0	279	6	2	85		
29	Sun					29	0	273	6	2	85		
30	Mon					26	0	265	6	2	85		
AVERAGE		6	3	2	2	23	0	278	6	2	87		
MAXIMUM		192	80	27	34	33	3	318	6	2	109		
MINIMUM		192	80	20	34	19	0	259	6	2	83		
# OF DATA		1	1	3	2	30	30	30	30	30	30		
TOTAL		192	80	74	68	700	5	8331	180	68	2609		

Secondary Digester		Date:
Sample Taken by Grab Method		
Pollutants:	Wet Wght	Dry Wght
Inorganic	mg/L	mg/Kg
Arsenic - As		
Cadmium - Cd		
Chromium - Cr		
Copper - Cu		
Lead - Pb		
Mercury - Hg		
Molybdenum - Mo		
Nickel - Ni		
Selenium - Se		
Zinc - Zn		
% Total Solids		

Nutrients	Wet Wght	% by
	mg/L	weight
TKN		
Ammonia		
Nitrate		
Phosphorous		
Potassium		

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		Raw Sludge				Primary Digester #1				Primary Digester #2				Secondary Digester				Digested Sludge Storage Tank					
Day of the Month	Day of the Week	Gas produced in 1000 cubic ft per day	Total Solids in percent	Solids Percent Volatile	pH	Total Solids in percent	Solids Percent Volatile	pH	Digester Temp in Deg. F	Total Solids in percent	Solids Percent Volatile	pH	Digester Temp in Deg. F	Sludge to Secondary Digester (gal x 1000)	Total Solids in percent	Solids Percent Volatile	pH	Digester Overflow Supernatant (gal x 1000)	Digester Supernatant (% Total) (Solids)	Storage Tank #1 Volume (gal x 1000)	Storage Tank #2 Volume (gal x 1000)	Storage Tank Supernatant (gal x 1000)	Secondary to Storage Tank (gal x 1000)
1	Sun								96					14				23					
2	Mon		3.76	65.1	6.12	2.72	51.1	6.73	96				54	18	4.05	57.2	6.93	7			232		24
3	Tue								96				53	6				0			106		
4	Wed								96				53	12				21			318		12
5	Thu								96				53	6				13			166		
6	Fri								96				53	9				24			39		
7	Sat								96				53	11				25			39		
8	Sun								96				53	11				24			38		
9	Mon		3.31	72.7	6.78	1.99	64.0	6.85	96				53	12	3.98	53.8	6.89	9					9
10	Tue								96				53	9				24					
11	Wed								96				53	15				33					
12	Thu								96				53	10				23					
13	Fri								96				53	14				34					
14	Sat								96				53	9				23	0.18				
15	Sun								96				52	6				19					
16	Mon		2.80	74.2	6.32	4.18	53.4	6.80	96				52	12	4.57	58.6	6.88	32					
17	Tue								96				52	8				23					
18	Wed								96				52	12				31					
19	Thu								96				52	40				79					
20	Fri								96				52	12				23					
21	Sat								96				52	11				31					
22	Sun								96				52	17				36					
23	Mon		3.76	69.0	6.42	2.96	54.4	6.81	96				52	50	4.23	57.6	6.85	65					14
24	Tue								96				52	12				30					
25	Wed								96				52	16				31					
26	Thu								96				52	23				49					21
27	Fri								96				52	13				30					
28	Sat								96				52	14				29	0.53				
29	Sun								96				52	20				44	0.24				
30	Mon		3.18	76.7	6.42	2.81	53.6	6.86	96				52	26	4.07	55.7	6.89	15					33
AVERAGE			3.36	71.5	6.41	2.93	55.3	6.81	96				52	15	4.18	56.6	6.89	28	0.32		40		4
MAXIMUM			3.76	76.7	6.78	4.18	64.0	6.86	96				54	50	4.57	58.6	6.93	79	0.53		318		33
MINIMUM			2.80	65.1	6.12	1.99	51.1	6.73	96				52	6	3.98	53.8	6.85	0	0.18				
# OF DATA			5	5	5	5	5	5	30				30	30	5	5	5	30	3	30	30		30
TOTAL			17	358	32	15	277	34	2872				1573	449	21	283	34	850	1		1195		114

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NPDES LIMITS AND ANALYSIS

Metals and Cyanide Analysis : All results are given in mg/l except mercury (Hg) which is given in ng/l.

INFLUENT									EFFLUENT						
Method: 24 hour composite (except for Hg, which is grab)									Site: Post Rake Room						
Site: Post Cl2 Tank									Site: Post Cl2 Tank						
Sample Characteristics		Hg	Cr	Cu	Pb	Ni	Zn	CN-	Hg	Cr	Cu	Pb	Ni	Zn	CN-
Sample Number		CO71900	CO1032	CO1042	CO1051	CO1074	CO1092	CO0720	CO71900	CO1032	CO1042	CO1051	CO1074	CO1092	CO0720
Sample Type	Permit Condition	Grab	24 Hour	24 Hour	24 Hour	24 Hour	24 Hour	24 Hour	Grab	24 Hour	24 Hour	24 Hour	24 Hour	24 Hour	24 Hour
	Monitored	Grab	24 Hour	24 Hour	24 Hour	24 Hour	24 Hour	24 Hour	Grab	24 Hour	24 Hour	24 Hour	24 Hour	24 Hour	24 Hour
Frequency	Permit Condition	6 X Annual	4 X Annual	2-31 Days	4 X Annual	4 X Annual	4 X Annual	2-31 Days	6 X Annual	4 X Annual	2-31 Days	4 X Annual	4 X Annual	4 X Annual	2-31 Days
	Monitored	6 X Annual	4 X Annual	2-31 Days	4 X Annual	4 X Annual	4 X Annual	2-31 Days	6 X Annual	4 X Annual	2-31 Days	4 X Annual	4 X Annual	4 X Annual	2-31 Days
Parameter Limits	Daily Maximum										0.055				0.016
	Monthly Average										0.024				0.016
1st Date :	November 4th		<0.005	0.043	<0.005	0.005	0.046	<0.005			0.011				<0.005
2nd Date :	November 11th			0.048							0.014				
3rd Date :	November 18th		0.006	0.049	<0.005	0.006	0.063	<0.005			0.016				<0.005
4th Date :	November 25th			0.033							0.030				
5th Date :															
Number of times Limit Value exceeded:		NA	NA	NA	NA	NA	NA	NA	NA	NA	0	NA	NA	NA	0
Average			0.004	0.043	<0.003	0.006	0.055	<0.003	*	*	0.018	*	*	*	<0.003
Maximum			0.006	0.049	<0.005	0.006	0.063	<0.005	*	*	0.030	*	*	*	<0.005

Other Permit Analysis

	Weekly Av FLOW in MGD	Monthly Average FLOW in MGD	Weekly Av CBOD in mg/L	Monthly Average CBOD in mg/L	Weekly Av CBOD in lbs/Day	Monthly Average CBOD in lbs/Day	Weekly Av TSS in mg/L	Monthly Average TSS in mg/L	Weekly Av TSS in lbs/Day	Monthly Average TSS in lbs/Day	Weekly Av NH3-N in mg/L	Monthly Average NH3-N in mg/L	Weekly Av NH3-N in lbs/Day	Monthly Average NH3-N in lbs/Day	Daily Dissolved Oxygen* in mg/L	pH	Chlorine Residual in mg/L	Daily Max Escherichia Coliform (/100mL)	Mnthly Av Escherichia Coliform (/100mL)
Limit	None	None	30	20	2504	1669	36	24	3004	2003	2.40	1.60	200	134	6.0	6-9	0.06	235	125
Times Violated	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Max	6.8	5.0	3	2	170	105	11	8	633	377	0.69	0.26	25	10	9.3	7.72			
Total				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

*Dissolved Oxygen value is minimum daily average

MONTHLY REPORT OF OPERATION

Trickling Filter Wastewater Treatment Plant

Date: Nov-09
 LaPorte Wastewater Treatment Plant
 2101 Boyd Boulevard, La Porte IN 46350
 Phone # (219)362-2354

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 Permit # IN0025577
 Expires 10-31-2009
 Certified Operator : Jerry P Jackson
 Certification Number : 11496

Total lbs Volatile Solids to Digester 4,680

Overall Percent Removal of Volatile Solids 48.2%

Equivalent Population Treated in (lbs Raw CBOD per Day / 0.17) 18,930

Rotary Filter Hydraulic Loading Rate (Gallon / Day / Sq Ft) 464

Fixed Bed Filter Hydraulic Loading Rate (Gallon / Day / Sq Ft) 56

Biotower Filter Hydraulic Loading Rate (Gallons / Day / Sq Ft) 787

Rotary Filter Organic Loading Rate (lbs CBOD / 1000 Cu Ft / Day) 26

Fixed Bed Filter Organic Loading Rate (lbs CBOD / 1000 Cu Ft / Day) 3

Biotower Filter Organic Loading Rate (lbs CBOD / 1000 Cu Ft / Day) 3

Monthly Removal Summary

Percent Removal :	CBOD	TSS	AMMONIA
Primary Treatment :	25%	21%	-5%
Secondary Treatment :	80%	52%	52%
Adv. Sec. Treatment :	80%	71%	96%
Overall Treatment :	97%	89%	98%

Detention Time (Hours)	Maximum	Minimum	Average
Primary Settling Tank	3.4	1.2	2.4
Secondary Settling Tank	2.5	0.9	1.8
Final Settling Tank	7.8	2.7	5.6
Chlorine Contact Tank	0.54	0.19	0.38
Total Plant Retention Time	13.7	4.8	9.8

Surface Flow Rate	Maximum	Minimum	Average
Gallons per sq ft per Day			
Primary Settling Tank	1285	449	631
Secondary Settling Tank	1696	592	832
Final Settling Tank	864	302	424

Weir OverFlow Rate	Maximum	Minimum	Average
1000 Gal per ft per Day			
Primary Settling Tank	25	9	12
Secondary Settling Tank	20	7	10
Final Settling Tank	20	7	10

TREATMENT EQUIPMENT	Total available	Number in service
PRIMARY CLARIFIER TANKS	4	4
SECONDARY CLARIFIER TANKS	2	2
FINAL CLARIFIER TANKS	2	2
ROTARY FILTER	1	1
FIXED BED FILTER	1	1
BIOTOWERS	2	2

Monthly Comments Concerning Plant Operation:

11/1-30/2009 - Primary Digester #2 out of service for cleaning and repair
 11/27/2009 - Successful test of the emergency power system.

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 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 that there are significant penalties for submitting false information, including the possibility of fines or imprisonment for knowing violations.

Certified Operator Signature: _____ Certification # : 11496

Executive Officer OR Authorized Agent Signature: _____

