

MONTHLY REPORT OF OPERATION

Trickling Filter Wastewater Treatment Plant

Date: Nov-12
 LaPorte Wastewater Treatment Plant
 2101 Boyd Boulevard
 LaPorte IN, 46350
 Phone # (219)362-2354

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 Permit # IN0025577
 Expires 12-31-2014
 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	Thu	2.4					0.00	7.74	235	88	73.96	7.60	103	60	33.87	7.47	14	20	18.55	4.6		2.3		1.85	5.0	1.06	
2	Fri	2.9		0.04			0.00	7.76	265	136	53.51	7.55	104	61	35.29	7.42	17	26	17.82	4.7		2.0		1.26	5.2	0.77	
3	Sat	2.5					0.00	7.75	108	134	26.02	7.54	80	66	27.78	7.38	11	23	12.55	4.7		1.8		1.58	5.0	0.99	
4	Sun	2.9					0.00	7.67	155	112	24.23	7.59	94	56	25.88	7.47	11	21	12.10	4.8		1.9		1.35	5.3	0.86	
5	Mon	2.3					0.00	8.02	200	146	41.23	7.51	120	68	21.82	7.29	15	22	12.68	4.6		2.1		1.88	5.0	1.13	
6	Tue	2.9		0.07			0.00	7.68	100	122	25.98	7.53	118	74	21.25	7.34	23	26	11.72	4.6		2.3		1.41	5.6	0.94	
7	Wed	3.8		0.03			0.00	7.78	116	118	18.05	7.52	85	68	16.94	7.32	13	29	9.89	4.6		2.3		0.83	5.6	0.49	
8	Thu	2.9					0.00	7.85	230	188	44.63	7.54	102	74	23.87	7.33	19	28	14.68	4.6		2.3		1.39	5.2	0.80	
9	Fri	2.4					0.00	7.83	230	146	27.46	7.55	150	69	26.26	7.34	18	26	11.61	4.7		1.9	180	1.73	5.0	1.06	
10	Sat	2.6	2.8				0.00	7.61	158	124	27.68	7.45	113	68	30.18	7.27	17	25	12.55	4.7		1.8		1.46	5.2	0.97	
11	Sun	2.5		0.10			0.00	7.67	93	150	25.08	7.54	70	64	23.83	7.39	7	19	11.57	4.7		1.8		1.61	4.7	0.91	
12	Mon	3.7		0.24			0.00	7.79	130	200	21.28	7.50	84	68	18.76	7.37	21	33	11.30	4.9		2.1		0.92	6.0	0.63	
13	Tue	2.8					0.00	7.68	130	106	32.64	7.53	93	64	28.24	7.51	17	22	15.33	4.6		2.3		1.49	5.1	0.84	
14	Wed	2.3					0.00	7.69	200	126	28.20	7.48	107	72	26.40	7.31	13	20	14.05	4.6		2.3		1.97	4.8	1.09	
15	Thu	2.8					0.00	8.08	170	108	24.33	7.50	100	52	22.64	7.38	16	20	16.88	4.6		2.3		1.44	5.5	0.94	
16	Fri	2.3					0.00	7.60	200	130	30.61	7.40	133	55	29.60	7.24	12	17	16.52	4.7		1.9		1.95	4.7	1.10	
17	Sat	2.8	2.7				0.00	7.68	173	218	23.68	7.47	121	74	26.62	7.29	20	27	16.86	4.8		1.8		1.36	5.5	0.97	
18	Sun	2.3					0.00	7.66	168	162	34.02	7.52	108	68	31.69	7.32	12	20	15.69	4.8		1.8		1.82	4.9	1.09	
19	Mon	2.4					0.00	7.71	205	185	34.46	7.48	126	72	31.00	7.25	13	23	16.44	4.7		2.1		1.83	4.7	0.97	
20	Tue	2.8		0.03			0.00	7.62	165	158	28.77	7.49	105	62	24.57	7.35	12	22	12.21	4.6		2.3		1.49	4.9	0.78	
21	Wed	2.5					0.00	7.72	200	190	25.08	7.50	135	62	26.79	7.42	13	20	15.17	4.6		2.3		1.75	5.0	1.00	
22	Thu	2.7		0.01			0.00	7.62	261	544	14.25	7.45	128	60	12.73	7.36	13	20	6.43	4.6		2.3		1.54	5.1	0.88	60
23	Fri	2.2					0.00	7.77	255	122	21.79	7.51	153	51	20.81	7.52	26	11	9.22	4.7	60	1.9		2.03	4.6	1.11	
24	Sat	2.8	2.5				0.00	7.67	158	100	18.02	7.51	100	62	19.04	7.46	14	20	11.03	4.8		1.8		1.38	5.6	1.00	
25	Sun	2.3					0.00	7.62	230	154	25.16	7.48	125	74	24.31	7.37	16	20	11.61	4.8		1.8		1.92	4.8	1.12	
26	Mon	2.4					0.00	7.67	195	148	26.70	7.47	115	92	23.76	7.34	15	13	12.23	4.7		2.1		1.83	5.0	1.08	
27	Tue	2.8					0.00	7.67	160	172	23.57	7.49	93	78	20.56	7.37	12	24	10.17	4.6		2.3	160	1.46	5.0	0.78	
28	Wed	2.2					0.00	7.67	230	122	30.35	7.47	100	54	28.27	7.35	11	15	12.98	4.7		2.3		2.08	4.7	1.10	
29	Thu	3.1					0.00	7.68	140	146	26.13	7.50	96	78	26.85	7.36	14	23	15.73	4.7		2.3		1.21	5.9	0.86	
30	Fri	3.5	2.6				0.00	7.62	230	202	22.14	7.45	107	68	21.38	7.32	16	23	12.37	4.5		1.9		0.83	5.4	0.55	
AVERAGE		2.7		0.02		0.0	0.00	7.72	183	159	29.30	7.50	109	66	25.03	7.36	15	22	13.26	4.7	2	2.1	11	1.55	5.1	0.93	2
MAXIMUM		3.8	2.8	0.24		0.0	0.00	8.08	265	544	73.96	7.60	153	92	35.29	7.52	26	33	18.55	4.9	60	2.3	180	2.08	6.0	1.13	60
MINIMUM		2.2		0.01		0.0	0.00	7.60	93	88	14.25	7.40	70	51	12.73	7.24	7	11	6.43	4.5	60	1.8	160	0.83	4.6	0.49	60
# OF DATA		30		7		30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	1	30	2		30		1
TOTAL		81		0.52		0	0	232	5487	4757	879	225	3266	1994	751	221	449	657	398	140	60	62	340		154		60

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Final Effluent

Day of the Month	Day of the Week	Effluent Flow in MGal/Day	Maximum Daily pH	Minimum Daily 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	Thu	2.2	7.76	7.35	5		104		3		61		0.18		4		9.9		0.75		< 0.01
2	Fri	2.5	7.80	7.68	6		147		9		220		0.33		8		9.8				
3	Sat	2.1	7.95	7.73	5		110		5		104		0.15		3		10.1				
4	Sun	2.4	8.05	7.86	5		112		5		107		0.21		5		9.7				
5	Mon	2.0	7.87	7.79	6		108		3		59		0.20		4		9.4				
6	Tue	2.5	7.89	7.69	7		161		6		144		0.41		10		9.3				
7	Wed	3.3	7.86	7.64	8		243		8		253		0.49		15		9.6				
8	Thu	2.5	7.77	7.60	8		186		7		169		0.67		16		9.7				
9	Fri	2.1	7.91	7.70	6		129		7		141		0.67		13		9.8				
10	Sat	2.2	7.77	7.71	5	6	116	151	8	6	176	150	0.40	0.44	9	10	9.7				
11	Sun	2.1	7.89	7.70	7		151		10		196		2.58		53		9.2				
12	Mon	3.2	7.76	7.57	10		306		9		276		0.72		22		9.0				
13	Tue	2.4	7.85	7.69	7		162		4		81		0.37		9		9.8				
14	Wed	2.0	7.97	7.71	5		102		7		135		0.18		3		10.0				
15	Thu	2.5	7.84	7.62	5		106		7		153		0.64		15		9.7				
16	Fri	2.0	7.72	7.65	5		102		6		113		0.26		5		9.6				
17	Sat	2.4	7.82	7.69	9	7	209	163	11	8	256	173	0.32	0.72	7	16	9.5				
18	Sun	2.0	7.84	7.54	5		105		7		126		0.36		7		9.7				
19	Mon	2.0	7.75	7.61	6		118		13		259		0.22		4		9.4				
20	Tue	2.3	7.76	7.58	4		83		10		219		0.26		6		9.5				
21	Wed	2.1	7.84	7.49	6		133		4		83		0.13		3		9.7				
22	Thu	2.3	7.76	7.48	7		163		8		169		0.10		2		9.9				
23	Fri	1.9	7.91	7.69	17		308		3		54		0.10		2		9.8				
24	Sat	2.4	7.86	7.75	8	8	184	156	14	8	326	177	0.39	0.22	9	5	10.5				
25	Sun	2.0	7.86	7.62	4		83		9		170		0.32		6		10.5				
26	Mon	2.0	7.85	7.64	7		130		2		40		0.15		3		9.9				
27	Tue	2.4	7.86	7.54	5		115		11		247		0.16		4		10.2				
28	Wed	2.0	7.86	7.65	6		114		5		94		0.10		2		10.4				
29	Thu	2.7	7.89	7.53	7		184		21		538		0.51		13		10.1				
30	Fri	3.1	7.61	7.48	7	6	211	141	10	10	289	228	0.95	0.38	27	9	10.1				
AVERAGE		2.3			7		149		8		175		0.42		10		9.8		0.75		< 0.01
MAXIMUM		3.3	8.05		17	8	308	163	21	10	538	228	2.58	0.72	53	16	10.5		0.75		< 0.01
MINIMUM		1.9		7.35	4		83		2		40		0.10		2		9.0		0.75		0.00
# OF DATA		30	30	30	30		30		30		30		30		30		30		1		1
TOTAL		70	235	229	199		4483		228		5256		13		291		293.5		0.75		< 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	Thu			27	34	23	0	317	6	2	83		
2	Fri					21	0	320	6	2	89		
3	Sat					20	0	314	6	2	84		
4	Sun					21	0	313	7	3	103		
5	Mon					20	0	293	6	2	84		
6	Tue					20	0	289	6	2	84		
7	Wed					20	0	296	6	2	84		
8	Thu					20	0	288	6	2	84		
9	Fri					20	0	281	6	2	83		
10	Sat					20	0	277	6	2	84		
11	Sun					21	0	273	6	2	83		
12	Mon				27	23	0	276	6	2	83		
13	Tue					22	0	277	6	2	83		
14	Wed					27	0	275	6	2	85		
15	Thu					23	0	275	6	2	83		
16	Fri					21	0	270	6	2	83		
17	Sat					22	0	270	6	2	87		
18	Sun					21	0	266	6	2	84		
19	Mon			20	27	21	0	265	6	2	82		
20	Tue					21	0	267	6	2	83		
21	Wed					21	0	266	6	2	82		
22	Thu					23	0	268	6	2	90		
23	Fri					22	0	267	6	2	82		
24	Sat					20	0	271	6	2	83		
25	Sun					20	0	269	6	2	84		
26	Mon					20	0	269	6	2	84		
27	Tue					20	0	271	6	2	82		
28	Wed					21	0	268	6	2	91		
29	Thu					21	0	278	6	2	93		
30	Fri					22	0	286	5	6	165		
AVERAGE				2	3	21		280	6	2	88		
MAXIMUM				27	34	27		320	7	6	165		
MINIMUM				20	27	20	0	265	5	2	82		
# OF DATA				2	3	30	30	30	30	30	30		
TOTAL				47	88	638		8414	180	72	2636		

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	Thu								96				96	15				47					
2	Fri								96				96	14				43					
3	Sat								96				96	15				43					
4	Sun								96				96	15				45					
5	Mon		2.24	83.5	6.61	1.29	64.1	7.02	96	1.55	65.7	7.17	96	38	4.09	64.7	7.16	13			14		47
6	Tue								96				96	4				0			14		
7	Wed								96				96	7				0			14		
8	Thu								96				96	12				36			14		
9	Fri								96				96	9				33			14		
10	Sat								96				96	10				28			13		
11	Sun								96				96	13				38			14		
12	Mon		2.83	81.2	6.27	1.45	65.1	6.88	96	1.66	64.4	7.19	96	27	4.49	60.4	7.14	21			33		21
13	Tue								96				96	9				20			33		
14	Wed								96				96	15				42			32		
15	Thu								96				96	14				40			32		
16	Fri								96				96	23				59			32		
17	Sat								96				96	13				37	0.08		32		
18	Sun								96				96	14				40			32		
19	Mon		2.85	82.0	6.58	1.53	67.0	6.91	96	1.81	68.3	7.15	96	23	3.65	65.7	7.14	10			56		24
20	Tue								96				96	7				10			55		
21	Wed								96				96	14				44	0.16		56		
22	Thu								96				96	15				44			56		
23	Fri								96				96	15				47			55		
24	Sat								96				96	13				42			55		
25	Sun								96				96	14				47			54		
26	Mon		2.90	80.8	6.17	1.39	67.3	6.90	96	1.47	64.5	7.08	96	22	4.24	62.7	6.97	10			78		24
27	Tue								96				96	6				5			77		
28	Wed								96				96	14				42			77	0.0	
29	Thu								96				96	14				44			77		
30	Fri								96				96	17				47			77		
AVERAGE			2.71	81.9	6.41	1.42	65.9	6.93	96	1.62	65.7	7.15	96	15	4.12	63.4	7.10	33	0.12		37	0.0	4
MAXIMUM			2.90	83.5	6.61	1.53	67.3	7.02	96	1.81	68.3	7.19	96	38	4.49	65.7	7.16	59	0.16		78	0.0	47
MINIMUM			2.24	80.8	6.17	1.29	64.1	6.88	96	1.47	64.4	7.08	96	4	3.65	60.4	6.97	0	0.08				
# OF DATA			4	4	4	4	4	4	30	4	4	4	30	30	4	4	4	30	2	30	30	30	30
TOTAL			11	328	26	6	264	28	2877	6	263	29	2880	440	16	254	28	977	0		1095	0	116

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NPDES LIMITS AND ANALYSIS

Metals and Cyanide Analysis : All results are given in mg/l

INFLUENT								EFFLUENT							
Method: 24 hour composite								Site: Post Disinfection							
Sample Characteristics		Cr	Cu	Pb	Ni	Zn	CN, Free	Cr	Cu	Pb	Ni	Zn	CN, Free		
Sample Number															
Sample Type	Permit Condition	24 Hour	24 Hour	24 Hour	24 Hour	24 Hour	GRAB	24 Hour	24 Hour	24 Hour	24 Hour	24 Hour	GRAB		
	Monitored	24 Hour	24 Hour	24 Hour	24 Hour	24 Hour	GRAB	24 Hour	24 Hour	24 Hour	24 Hour	24 Hour	GRAB		
Frequency	Permit Condition	4 X Annual	4 X Annual	4 X Annual	4 X Annual	4 X Annual	4 X Annual	4 X Annual	4 X Annual	4 X Annual	4 X Annual	4 X Annual	4 X Annual		
	Monitored	4 X Annual	4 X Annual	4 X Annual	4 X Annual	4 X Annual	4 X Annual	4 X Annual	4 X Annual	4 X Annual	4 X Annual	4 X Annual	4 X Annual		
Parameter Limits	Daily Maximum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	Monthly Average	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
1st Date: November 14th		0.010	0.110	<0.005	0.011	0.085	<0.005	<0.005	0.024	<0.005	0.005	0.032	<0.005		
2nd Date: November 28th		0.012	0.083	<0.005	0.009	0.091		<0.005	0.022	<0.005	0.005	0.027			
3rd Date :															
4th Date :															
5th Date															
Number of times Limit Value exceeded:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Average		0.011	0.097	<0.003	0.010	0.088	<0.003	<0.003	0.023	<0.003	0.005	0.030	<0.003		
Maximum		0.012	0.110	<0.005	0.011	0.091	<0.005	<0.005	0.024	<0.005	0.005	0.032	<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	2.8	2.7	8	7	163	149	10	8	228	175	0.72	0.42	16	10	9.0	8.05	< 0.01		
% of Limit	40%	38%	25%	33%	6%	9%	27%	32%	8%	9%	30%	26%	8%	7%	150%				
Total				0		0		0		0		0		0	0	0	0		0

*Dissolved Oxygen value is minimum daily average. Percent of limit values for Dissolved Oxygen less than 100% are indicative of a violation.

MONTHLY REPORT OF OPERATION

Trickling Filter Wastewater Treatment Plant

Date: Nov-12
 LaPorte Wastewater Treatment Plant
 2101 Boyd Boulevard, La Porte IN 46350
 Phone # (219)362-2354

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 Permit # IN0025577
 Expires 12-31-2014
 Certified Operator : Jerry P Jackson
 Certification Number : 11496

Total lbs Volatile Solids to Digester 3,928

Overall Percent Removal of Volatile Solids 61.7%

Equivalent Population Treated in (lbs Raw CBOD per Day / 0.17) 24,151

Rotary Filter Hydraulic Loading Rate (Gallon / Day / Sq Ft) 442

Fixed Bed Filter Hydraulic Loading Rate (Gallon / Day / Sq Ft) 47

Biotower Filter Hydraulic Loading Rate (Gallons / Day / Sq Ft) 666

Rotary Filter Organic Loading Rate (lbs CBOD / 1000 Cu Ft / Day) 28

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

Biotower Filter Organic Loading Rate (lbs CBOD / 1000 Cu Ft / Day) 2

Monthly Removal Summary

Percent Removal :	CBOD	TSS	AMMONIA
Primary Treatment :	40%	58%	15%
Secondary Treatment :	86%	67%	47%
Adv. Sec. Treatment :	56%	65%	97%
Overall Treatment :	96%	95%	99%

Detention Time (Hours)	Maximum	Minimum	Average
Primary Settling Tank	5.6	3.2	4.5
Secondary Settling Tank	4.1	2.4	3.3
Final Settling Tank	12.9	7.4	10.4
Chlorine Contact Tank	0.89	0.51	0.72
Total Plant Retention Time	22.7	13.0	18.3

Surface Flow Rate	Maximum	Minimum	Average
Gallons per sq ft per Day			
Primary Settling Tank	474	272	336
Secondary Settling Tank	625	359	444
Final Settling Tank	319	183	226

Weir OverFlow Rate	Maximum	Minimum	Average
1000 Gal per ft per Day			
Primary Settling Tank	9	5	7
Secondary Settling Tank	7	4	5
Final Settling Tank	7	4	5

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:

11/6/2012 - South Biotower(#2) Fan #2 out of service for motor repair. Back in service 11/9/2012

11/6/2012 - Successful test of emergency power system

11/20/2012 - Successful test of emergency power system

11/11/2012 - South half of fixed nozzle trickling filter shut down for winter operation

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, 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: _____

