

MONTHLY REPORT OF OPERATION

Trickling Filter Wastewater Treatment Plant

Date: Dec-06
 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	Fri	8.5		0.79		14.7	0.00	7.36	20	54	4.80	7.25	25	50	6.63	7.27	17	21	5.90	6.7		3.3		0.17	9.3	0.09	
2	Sat	5.0					0.00	7.67	62	32	11.30	7.73	46	34	12.10	7.46	19	16	9.25	4.7		1.8		0.29	5.9	0.17	
3	Sun	4.9		0.02			0.00	7.56	67	54	11.30	7.51	60	58	13.20	7.50	19	19	10.20	4.7		1.8		0.32	5.8	0.18	
4	Mon	4.9					0.00	7.57	67	51	12.15	7.52	51	36	15.90	7.47	16	12	12.70	4.7		2.1		0.37	5.8	0.17	
5	Tue	3.8					0.00	7.70	88	100	15.90	7.45	66	68	18.00	7.38	14	17	12.30	4.6		2.2		0.82	5.3	0.41	
6	Wed	2.0		0.03			0.00	7.75	135	165	31.40	7.57	102	58	31.20	7.50	14	10	22.00	4.7		2.3	240	2.43	5.2	1.59	
7	Thu	2.6		0.20			0.00	7.66	120	106	24.70	7.63	101	54	29.20	7.46	12	5	19.60	4.7		2.3		1.64	5.2	0.98	
8	Fri	2.7					0.00	7.76	118	116	23.90	7.61	84	67	27.90	7.69	14	16	20.80	4.7		1.9		1.42	5.1	0.85	
9	Sat	2.7	3.4				0.00	7.73	119	118	29.10	7.60	97	76	25.00	7.69	16	16	21.70	4.7		1.8		1.44	5.2	0.94	
10	Sun	3.4					0.00	7.65	98	98	17.00	7.51	77	50	18.60	7.63	16	14	13.30	4.7		1.8		0.88	5.1	0.48	
11	Mon	3.8		0.12			0.00	7.62	103	99	14.70	7.51	96	62	17.60	7.57	18	16	13.10	4.8		2.1		0.82	5.3	0.40	
12	Tue	5.3		0.28		1.9	0.00	7.52	115	272	18.05	7.49	87	132	16.20	7.49	21	29	12.60	5.2		2.6		0.47	6.4	0.20	
13	Wed	2.2		0.01			0.00	7.80	115	91	31.40	7.57	72	60	34.20	7.48	12	15	21.80	4.6		2.2		2.07	5.1	1.31	
14	Thu	2.1					0.00	7.74	95	172	33.20	7.53	105	70	37.50	7.48	10	16	27.65	4.6		2.2		2.20	5.3	1.48	
15	Fri	3.1					0.00	7.68	104	82	24.00	7.57	83	54	30.00	7.57	16	13	23.70	4.7		1.9		1.13	5.0	0.62	
16	Sat	2.5	3.2				0.00	7.59	123	84	23.40	7.49	94	56	21.90	7.51	12	15	16.70	4.7		1.8		1.55	5.0	0.99	
17	Sun	2.6					0.00	7.60	110	76	19.90	7.45	69	52	22.70	7.44	13	10	16.70	4.7		1.8		1.43	5.1	0.93	
18	Mon	2.6					0.00	7.71	170	187	25.45	7.55	96	56	25.40	7.51	13	13	16.90	4.6		2.0		1.59	5.2	1.05	
19	Tue	3.1					0.00	7.63	100	80	19.60	7.56	74	58	24.70	7.58	15	16	18.55	4.5		2.2		1.21	5.0	0.64	
20	Wed	3.3		0.13			0.00	7.51	125	117	20.10	7.48	87	74	22.95	7.43	16	19	15.50	4.6		2.2		1.06	4.9	0.47	
21	Thu	6.3		0.50		3.9	0.00	7.57	92	210	13.75	7.46	65	94	14.60	7.42	24	33	11.90	5.6		2.9		0.37	7.3	0.16	
22	Fri	7.0		1.00		8.3	0.00	7.56	72	188	7.03	7.32	46	115	7.79	7.28	15	22	7.28	5.9		2.9		0.26	8.0	0.14	
23	Sat	5.0	4.3				0.00	7.63	105	48	8.97	7.52	52	48	10.20	7.54	15	18	10.10	4.7		1.8		0.28	5.9	0.16	
24	Sun	4.9					0.00	7.52	63	62	13.00	7.43	46	38	14.20	7.44	16	17	10.40	4.7		1.8		0.33	5.7	0.18	
25	Mon	4.5		0.02			0.00	7.44	57	40	12.80	7.41	45	34	13.00	7.47	11	11	10.00	4.7		2.0		0.49	5.4	0.21	
26	Tue	3.0		0.05			0.00	7.58	210	294	17.90	7.51	87	46	15.50	7.47	13	11	10.10	4.7		2.2		1.31	5.0	0.69	
27	Wed	2.2					0.00	7.67	170	169	28.50	7.57	130	62	27.45	7.51	16	13	18.20	4.7		2.2		2.16	5.1	1.35	
28	Thu	2.8					0.00	7.66	107	84	32.10	7.51	99	56	29.20	7.50	17	13	23.95	4.6		2.2		1.45	5.2	0.85	
29	Fri	2.9					0.00	7.66	140	134	21.80	7.49	103	60	26.90	7.36	19	20	18.80	4.7		1.9		1.25	5.0	0.71	
30	Sat	2.6	3.3				0.00	7.52	113	70	21.20	7.39	78	50	21.90	7.28	27	25	17.30	4.7		1.7		1.48	5.0	0.93	
31	Sun	5.7		0.53		6.2	0.00	7.50	77	74	11.35	7.43	70	66	13.00	7.43	20	22	10.60	5.6		2.6		0.44	7.4	0.30	
AVERAGE		3.8		0.12		1.1	0.00	7.62	105	114	19.35	7.50	77	61	20.79	7.48	16	17	15.47	4.9		2.1	8	1.07	5.7	0.63	
MAXIMUM		8.5	4.3	1.00		14.7	0.00	7.80	210	294	33.20	7.73	130	132	37.50	7.69	27	33	27.65	6.7		3.3	240	2.43	9.3	1.59	
MINIMUM		2.0		0.01		0.0	0.00	7.36	20	32	4.80	7.25	25	34	6.63	7.27	10	5	5.90	4.5		1.7	240	0.17	4.9	0.09	
# OF DATA		31		13		31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	1			31		
TOTAL		118		3.68		35	0	236	3258	3527	600	233	2392	1894	645	232	493	512	480	151		66	240		175		

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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	Fri	8.2	7.27	6		405		7		498		0.45		32		11.1				
2	Sat	5.0	8.00	7		272		6		230		0.31		13		10.9				
3	Sun	4.8	7.72	6		258		9		358		0.76		31		11.4				
4	Mon	4.9	7.31	4		148		5		185		1.81		74		11.8				
5	Tue	3.8	7.41	5		148		5		165		2.55		80		10.4				
6	Wed	2.1	7.26	4		66		1		17		0.86		14		10.6				
7	Thu	2.7	7.33	3		68		2		44		0.59		13		10.4				
8	Fri	2.8	7.76	3		73		4		92		1.16		27		10.8				
9	Sat	2.7	7.86	4	4	82	120	5	4	100	137	1.71	1.35	38	40	10.9				
10	Sun	3.5	7.80	5		129		5		151		0.77		22		10.8				
11	Mon	3.7	7.72	5		154		6		173		0.59		19		10.3				
12	Tue	5.3	7.46	8		351		11		500		0.84		37		9.8				
13	Wed	2.3	7.49	5		87		6		102		0.97		18		9.5				
14	Thu	2.3	7.54	4		68		5		94		0.67		12		9.2				
15	Fri	3.1	7.60	4		108		5		129		0.53		14		9.7				
16	Sat	2.6	7.57	4	5	78	139	7	6	137	184	0.35	0.67	7	18	10.1				
17	Sun	2.7	7.62	6		130		5		99		0.16		4		9.7				
18	Mon	2.6	7.67	4		77		4		85		0.16		3		9.9				
19	Tue	3.1	7.70	3		87		5		127		0.21		5		10.0				
20	Wed	3.3	7.61	4		123		7		195		0.19		5		10.1				
21	Thu	6.1	7.23	9		471		14		706		0.61		32		10.0				
22	Fri	6.8	7.25	6		362		9		525		0.11		6		9.8				
23	Sat	5.0	7.50	4	5	160	201	6	7	231	281	0.11	0.22	5	9	10.4				
24	Sun	4.8	7.51	4		179		6		223		0.17		7		10.6				
25	Mon	4.5	7.43	4		139		2		56		0.19		7		10.4				
26	Tue	3.0	7.73	4		87		4		93		0.14		3		10.7				
27	Wed	2.3	7.57	3		56		7		127		0.17		3		10.3				
28	Thu	2.9	7.56	3		80		3		70		0.98		23		9.5				
29	Fri	3.0	7.47	4		108		5		122		0.59		14		9.9				
30	Sat	2.7	7.49	3	4	72	103	5	4	109	114	0.31	0.36	7	9	9.7				
31	Sun	5.5	7.63	4		180		8		390		0.71		34		9.8				
AVERAGE		3.8	7.55	5		155		6		198		0.64		20		10.3				
MAXIMUM		8.2	8.00	9	5	471	201	14	7	706	281	2.55	1.35	80	40	11.8				
MINIMUM		2.1	7.23	3		56		1		17		0.11		3		9.2				
# OF DATA		31	31	31		31		31		31		31		31		31				
TOTAL		118	234	140		4804		174		6134		20		611		318.5				

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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	Fri			20	41	20	0	310	6	1	38		
2	Sat			20		20	0	312	6	2	123		
3	Sun					20	0	315	6	2	116		
4	Mon					20	0	314	6	2	112		
5	Tue					20	0	306	6	2	113		
6	Wed					20	0	301	6	2	114		
7	Thu					20	0	305	6	2	113		
8	Fri					20	0	301	6	2	114		
9	Sat					20	0	298	6	2	112		
10	Sun					20	0	297	6	2	112		
11	Mon					20	0	294	6	2	105		
12	Tue					22	0	299	6	2	96		
13	Wed					20	0	299	6	2	112		
14	Thu					20	5	297	6	2	111		
15	Fri					20	0	298	6	2	111		
16	Sat					20	0	299	6	2	111		
17	Sun					20	0	297	6	2	111		
18	Mon					20	0	299	6	2	108		
19	Tue					20	0	299	6	2	112		
20	Wed					20	0	300	6	2	113		
21	Thu					23	0	303	6	2	99		
22	Fri					24	0	303	6	2	84		
23	Sat					20	0	304	6	2	111		
24	Sun					20	0	301	6	2	110		
25	Mon					20	0	298	6	2	110		
26	Tue					20	0	295	6	2	110		
27	Wed			27	27	20	0	290	6	2	117		
28	Thu					20	8	292	6	2	110		
29	Fri					20	0	295	6	2	109		
30	Sat					20	0	294	6	2	109		
31	Sun					23	0	295	6	1	82		
AVERAGE				2	2	20	0	300	6	2	107		
MAXIMUM				27	41	24	8	315	6	2	123		
MINIMUM				20	27	20	0	290	6	1	38		
# OF DATA				3	2	31	31	31	31	31	31		
TOTAL				68	68	633	13	9309	187	65	3309		

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 Supernatant (gal x 1000)	Secondary to Storage Tank (gal x 1000)	
1	Fri								96				95	12				43			0.1	
2	Sat								96				95	14				42			0.1	
3	Sun								96				95	13				42			0.1	
4	Mon		0.45	76.4	6.22	1.72	59.8	6.98	96	2.65	61.9	6.94	95	22	3.81	60.4	7.02	22			0.1	16
5	Tue								96				95	7				25			0.1	
6	Wed								96				95	17				46			0.2	
7	Thu								96				95	18				58			0.1	
8	Fri								96				95	17				54			0.1	
9	Sat								96				95	14				48	0.12		0.1	
10	Sun								96				95	16				52	0.13		0.2	
11	Mon		1.98	81.3	6.22	1.69	57.6	6.84	96	1.81	58.9	6.97	95	21	3.90	61.1	6.97	18	0.10		0.2	19
12	Tue								96				95	4				10	0.70		33.5	
13	Wed								96				95	12				33	0.40		19.3	
14	Thu								96				95	18				49			31.4	
15	Fri								96				95	11				41	0.30		54.4	
16	Sat								96				95	14				50			3.4	
17	Sun								96				95	13				48	0.20		39.2	
18	Mon		3.54	80.4	6.22	3.19	59.4	7.01	96	3.13	63.1	6.84	95	29	3.81	59.6	6.98	14			21.0	34
19	Tue								96				95	6				0			50.0	
20	Wed								96				95	4				9			67.2	
21	Thu								96				95	16				51			75.6	
22	Fri								96				95	16				59			86.8	
23	Sat								96				95	13				33			37.5	
24	Sun								96				95	14				45			24.1	
25	Mon		3.61	76.3	6.24	1.92	63.4	6.87	96	1.96	61.4	6.98	96	26	4.28	57.1	6.98	15			7.6	27
26	Tue								96				95	7				6	0.30		14.6	
27	Wed								96				95	14				52			15.0	
28	Thu								96				95	23				65			7.0	
29	Fri								96				95	16				50	0.18		0.5	
30	Sat								96				95	12				46			0.1	
31	Sun								96				95	17				60			0.0	
AVERAGE			2.40	78.6	6.23	2.13	60.1	6.93	96	2.39	61.3	6.93	95	15	3.95	59.6	6.99	38	0.27		19.0	3
MAXIMUM			3.61	81.3	6.24	3.19	63.4	7.01	96	3.13	63.1	6.98	96	29	4.28	61.1	7.02	65	0.70		86.8	34
MINIMUM			0.45	76.3	6.22	1.69	57.6	6.84	96	1.81	58.9	6.84	95	4	3.81	57.1	6.97	0	0.10		0.0	
# OF DATA			4	4	4	4	4	4	31	4	4	4	31	31	4	4	4	31	9		31	31
TOTAL			10	314	25	9	240	28	2970	10	245	28	2955	454	16	238	28	1185	2		589	96

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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																	
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:	December 6th	59.0	<0.005	0.055	<0.005		0.010	0.062	<0.005	3.0	<0.005	0.008	<0.005		<0.005	0.017	<0.005
2nd Date:	December 13th			0.047								0.011					
3rd Date:	December 19th		0.028	0.059	<0.005		0.015	0.066	<0.005			0.016					<0.005
4th Date:	December 27th			0.066								0.013					
5th Date:																	
Number of times Limit Value exceeded:		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	NA	NA	NA	NA	0
Average		59.0	0.015	0.057	<0.003		0.013	0.064	<0.003	3.0	<0.003	0.012	<0.003		<0.003	0.017	<0.003
Maximum		59.0	0.028	0.066	<0.005		0.015	0.066	<0.005	3.0	<0.005	0.016	<0.005		<0.005	0.017	<0.005

* We are currently under Agreed Order 2000-9996-W with IDEM to resolve effluent copper concerns.

Other Permit Analysis

	Weekly Av	Monthly	Weekly Av	Monthly	Weekly Av	Monthly	Weekly Av	Monthly	Weekly Av	Monthly	Weekly Av	Monthly	Weekly Av	Monthly	Daily		Daily Max	Mnthly Av	
	FLOW	Average	CBOD	Average	CBOD	Average	TSS	Average	TSS	Average	NH3-N	Average	NH3-N	Average	Dissolved	pH	Chlorine	Escherichia	Escherichia
	in	in	in	in	in	in	in	in	in	in	in	in	in	in	Oxygen*		Residual	Coliform	Coliform
	MGD	MGD	mg/L	mg/L	lbs/Day	lbs/Day	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L		in	(Colonies	(Colonies
																	mg/L	/100mL)	/100mL)
Limit	None	None	40	25	3338	2086	45	30	3755	2504	2.70	1.80	225	150	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	4.3	3.8	5	5	201	155	7	6	281	198	1.35	0.64	40	20	9.2	8.00			
Total				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: Dec-06
 LaPorte Wastewater Treatment Plant
 2101 Boyd Boulevard, La Porte IN 46350
 Phone # (219)362-2354

Page 6 of 6
 Permit # IN0025577
 Expires 10-31-2009
 Certified Operator : Jerry P Jackson
 Certification Number : 11496

Total lbs Volatile Solids to Digester 3,207

Overall Percent Removal of Volatile Solids 59.9%

Equivalent Population Treated in (lbs Raw CBOD per Day / 0.17) 19,658

Rotary Filter Hydraulic Loading Rate (Gallon / Day / Sq Ft) 460

Fixed Bed Filter Hydraulic Loading Rate (Gallon / Day / Sq Ft) 49

Biotower Filter Hydraulic Loading Rate (Gallons / Day / Sq Ft) 735

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) 3

Monthly Removal Summary

Percent Removal :	CBOD	TSS	AMMONIA
Primary Treatment :	27%	46%	-7%
Secondary Treatment :	79%	73%	26%
Adv. Sec. Treatment :	72%	66%	96%
Overall Treatment :	96%	95%	97%

Detention Time (Hours)	Maximum	Minimum	Average
Primary Settling Tank	6.0	1.4	3.2
Secondary Settling Tank	4.4	1.1	2.4
Final Settling Tank	13.9	3.3	7.4
Chlorine Contact Tank	0.96	0.23	0.51
Total Plant Retention Time	24.4	5.8	12.9

Surface Flow Rate	Maximum	Minimum	Average
Gallons per sq ft per Day			
Primary Settling Tank	1066	252	477
Secondary Settling Tank	1408	333	629
Final Settling Tank	717	170	321

Weir OverFlow Rate	Maximum	Minimum	Average
1000 Gal per ft per Day			
Primary Settling Tank	21	5	9
Secondary Settling Tank	17	4	8
Final Settling Tank	16	4	7

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:

December 11, 28 - 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, 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: _____

