

**MONTHLY REPORT OF OPERATION**

**Trickling Filter Wastewater Treatment Plant**

Date: Nov-04  
 LaPorte Wastewater Treatment Plant  
 2101 Boyd Boulevard  
 LaPorte IN, 46350  
 Phone # (219)362-2354

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Permit # IN0025577

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	Mon	5.7		1.36		9.7	0.00	7.88	114	221	9.93	7.53	84	90	10.27	7.53	31	38	7.05	6.0		3.7		0.71	9.7	0.71	
2	Tue	6.5		0.05			0.00	7.49	67	50	9.49	7.40	60	46	8.64	7.51	20	23	4.37	5.1		3.9		0.39	9.3	0.43	
3	Wed	4.9					0.00	7.50	89	56	13.76	7.39	63	52	14.33	7.31	16	22	8.90	4.8		3.0		0.57	8.3	0.67	
4	Thu	8.0		0.93		7.2	0.00	7.63	93	106	7.73	7.28	63	47	9.12	7.21	23	29	5.93	6.5		4.0		0.31	11.1	0.39	
5	Fri	5.4					0.00	7.54	72	68	12.56	7.43	63	65	13.13	7.44	17	27	8.61	4.8		4.0		0.63	8.3	0.53	
6	Sat	3.2	5.1				0.00	7.81	140	70	20.09	7.60	90	52	18.42	7.43	16	15	10.31	4.8		2.8		1.36	8.3	1.56	
7	Sun	2.3					0.00	7.84	203	96	30.86	7.59	128	62	30.74	7.51	16	13	19.04	4.8		1.8		1.89	8.2	2.60	
8	Mon	2.0					0.00	7.81	255	148	34.20	7.66	140	62	28.21	7.57	18	11	15.47	3.9		1.8		1.84	8.2	3.10	
9	Tue	2.2					0.00	7.78	200	118	33.47	7.64	123	62	30.45	7.55	14	16	16.38	4.8		2.4		2.22	7.5	2.35	
10	Wed	2.2					0.00	7.70	275	127	33.15	7.53	115	70	30.99	7.34	15	13	18.38	4.8		2.4		2.20	7.9	2.53	
11	Thu	2.3					0.00	7.72	255	278	34.09	7.53	123	72	33.53	7.45	13	12	18.80	4.8		2.3		2.11	8.2	2.60	
12	Fri	2.2					0.00	7.75	195	110	35.12	7.67	118	58	33.53	7.61	12	13	17.68	4.8		2.0		2.07	8.2	2.74	
13	Sat	2.2	2.2				0.00	7.63	205	120	33.58	7.47	123	42	32.05	7.30	13	10	19.85	4.8		1.8		1.92	8.2	2.66	
14	Sun	2.1					0.00	7.67	218	122	34.60	7.46	138	66	31.09	7.45	14	17	19.22	4.7		1.8		2.07	8.2	2.85	
15	Mon	2.3		0.03			0.00	7.67	230	227	33.18	7.62	123	90	29.81	7.49	14	18	17.66	4.7		2.2		1.98	8.2	2.55	
16	Tue	2.5		0.06			0.00	7.63	195	160	33.53	7.55	98	84	30.59	7.36	15	18	10.64	4.7		2.4		1.82	8.2	2.26	
17	Wed	2.3		0.08			0.00	7.67	220	147	33.12	7.54	117	72	32.93	7.59	13	9	18.51	4.7		2.4		2.13	8.2	2.61	60
18	Thu	3.0		0.32			0.00	7.67	190	178	28.78	7.54	128	96	28.82	7.39	18	19	19.94	4.7		2.7		1.48	8.2	1.78	
19	Fri	6.7		0.44		3.0	0.00	7.71	170	190	11.83	7.51	83	75	12.61	7.05	21	24	9.15	5.6		3.9		0.43	10.2	0.51	
20	Sat	2.5	3.1	0.12			0.00	7.81	158	88	25.68	7.40	98	66	33.23	7.36	11	12	10.87	4.8		2.5		1.88	8.2	2.26	
21	Sun	2.2					0.00	7.79	203	92	32.45	7.51	133	68	33.40	7.43	13	11	17.62	4.7		1.8		1.96	8.2	2.71	
22	Mon	2.4					0.00	7.89	195	138	32.60	7.60	124	60	28.82	7.45	14	15	17.06	4.7		2.2	130	1.84	8.2	2.38	
23	Tue	2.3					0.00	7.86	205	122	36.02	7.54	128	68	31.04	7.41	14	13	15.95	4.7		2.4		2.09	8.2	2.58	60
24	Wed	3.7		0.58			0.00	7.88	210	207	22.38	7.53	138	86	23.80	7.68	27	23	16.05	4.8		2.5		0.99	8.5	1.29	
25	Thu	5.0		0.03			0.00	7.61	103	112	12.50	7.51	81	62	12.93	7.61	26	23	9.14	4.9		2.6		0.49	8.7	0.72	
26	Fri	2.8		0.03			0.00	7.65	180	96	28.29	7.49	96	59	24.30	7.42	17	17	14.02	4.7		1.9		1.42	8.2	1.99	
27	Sat	7.6	3.7	0.73		10.6	0.00	7.51	65	108	6.56	7.32	59	62	7.75	7.29	25	25	6.87	6.3		3.2		0.24	10.5	0.39	
28	Sun	5.7					0.00	7.85	65	48	9.62	7.59	53	48	10.24	7.57	17	17	7.64	4.7		1.8		0.16	8.4	0.49	
29	Mon	3.1		0.12			0.00	7.74	170	109	23.94	7.54	92	54	17.73	7.41	20	20	11.36	4.7		2.1		1.18	8.0	1.57	
30	Tue	4.2		0.73		5.4	0.00	7.82	170	140	19.03	7.54	106	96	18.52	7.51	29	30	15.85	5.2		2.6		0.88	9.0	1.14	
AVERAGE		3.7		0.19		1.2	0.00	7.72	170	128	24.40	7.52	103	66	23.03	7.44	18	18	13.61	4.9		2.6	4	1.38	8.6	1.77	4
MAXIMUM		8.0	5.1	1.36		10.6	0.00	7.89	275	278	36.02	7.67	140	96	33.53	7.68	31	38	19.94	6.5		4.0	130	2.22	11.1	3.10	60
MINIMUM		2.0		0.03		0.0	0.00	7.49	65	48	6.56	7.28	53	42	7.75	7.05	11	9	4.37	3.9		1.8	130	0.16	7.5	0.39	60
# OF DATA		30		15		30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	1		30			2
TOTAL		110		5.61		36	0	232	5109	3852	732	226	3083	1992	691	223	527	552	408	148		77	130		257		120

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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	Mon	4.8	7.69	13		609		22		1046		1.00		48		8.5		1.68		< 0.01
2	Tue	5.7	7.51	10		521		11		597		0.33		18		9.7				
3	Wed	4.3	7.58	5		222		7		288		0.63		26		9.7				
4	Thu	7.1	7.47	9		588		11		701		1.04		70		9.7				
5	Fri	4.8	7.52	6		262		10		453		0.68		31		10.2				
6	Sat	2.8	7.69	5	7	129	339	4	9	107	459	0.67	0.64	18	30	9.9				
7	Sun	1.8	7.85	4		72		5		95		0.53		10		9.5				
8	Mon	1.8	7.81	4		62		4		59		0.61		10		9.5				
9	Tue	1.7	7.74	4		67		4		79		0.51		9		9.4				
10	Wed	1.9	7.57	4		69		5		93		0.54		10		9.2				
11	Thu	1.8	7.60	3		55		5		95		0.48		9		9.3				
12	Fri	1.7	7.77	3		55		4		64		0.88		16		9.5				
13	Sat	1.7	7.36	3	3	50	62	2	4	37	75	0.55	0.59	10	11	9.7				
14	Sun	1.6	7.19	3		60		6		107		0.38		7		9.6				
15	Mon	1.8	7.78	4		69		12		222		0.43		8		9.4				
16	Tue	2.0	7.41	4		78		5		105		0.59		12		9.4				
17	Wed	1.9	7.67	3		49		19		360		0.52		10		9.1				
18	Thu	2.6	7.67	3		84		10		247		0.64		16		8.9				
19	Fri	6.2	7.12	10		538		15		840		1.15		65		9.1				
20	Sat	2.2	7.15	4	4	88	138	7	10	136	288	0.33	0.58	7	18	9.4				
21	Sun	1.7	7.90	3		61		4		69		0.39		7		9.5				
22	Mon	1.9	7.91	3		53		6		111		0.39		8		9.5				
23	Tue	1.8	7.89	4		71		7		129		0.52		10		9.2				
24	Wed	3.1	7.89	7		227		9		277		1.63		50		9.0				
25	Thu	4.4	7.82	8		340		7		305		1.26		53		9.8				
26	Fri	2.3	7.72	5		110		7		149		0.88		20		10.0				
27	Sat	6.8	7.53	9	6	545	201	11	7	697	248	0.77	0.83	49	28	10.2				
28	Sun	5.0	7.54	5		255		6		295		0.57		27		10.8				
29	Mon	2.5	7.65	6		153		8		195		0.62		16		10.6				
30	Tue	3.6	7.65	8		266		11		394		2.62		92		9.7				
AVERAGE		3.1	7.62	5		194		8		278		0.74		25		9.6		1.68		< 0.01
MAXIMUM		7.1	7.91	13	7	609	339	22	10	1046	459	2.62	0.83	92	30	10.8		1.68		
MINIMUM		1.6	7.12	3		49		2		37		0.33		7		8.5		1.68		0.00
# OF DATA		30	30	30		30		30		30		30		30		30		1		1
TOTAL		94	229	159		5810		241		8353		22		742		287.0		1.68		< 0.006

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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	Mon					22	0	311	6	3	99		
2	Tue			27	68	23	0	323	6	3	122		
3	Wed			27	27	20	0	327	6	4	164		
4	Thu					25	4	328	6	2	76		
5	Fri					20	0	328	6	4	165		
6	Sat					20	0	325	6	4	163		
7	Sun					20	0	308	6	4	163		
8	Mon					19	0	295	6	4	162		
9	Tue			20		20	0	288	6	4	163		
10	Wed					20	0	287	6	4	164		
11	Thu					20	0	291	6	4	162		
12	Fri					20	0	298	6	4	163		
13	Sat					20	0	301	6	4	162		
14	Sun					20	0	302	6	4	162		
15	Mon					20	0	300	6	4	162		
16	Tue			27		20	15	297	6	4	163		
17	Wed					20	8	301	6	4	163		
18	Thu				20	20	0	300	6	4	162		
19	Fri					23	0	306	6	2	80		
20	Sat					20	0	306	6	4	162		
21	Sun					20	0	300	6	4	161		
22	Mon			41	27	20	9	287	6	4	162		
23	Tue					20	0	278	6	4	162		
24	Wed					20	0	276	6	4	162		
25	Thu					20	0	287	6	4	163		
26	Fri					20	0	291	6	4	164		
27	Sat					24	0	288	6	2	66		
28	Sun					22	0	290	6	4	162		
29	Mon			41	41	20	0	286	6	4	161		
30	Tue					21	4	276	6	4	153		
AVERAGE				6	6	20	1	299	6	4	150		
MAXIMUM				41	68	25	15	328	6	4	165		
MINIMUM				20	20	19	0	276	6	2	66		
# OF DATA				6	5	30	30	30	30	30	30		
TOTAL				182	182	612	40	8982	180	124	4498		

Secondary Digester		Date:
<i>Sample Taken by Grab Method</i>		
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		
<b>% Total Solids</b>		

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	Mon		1.46	75.4	6.30	1.84	58.6	6.75	96	3.34	60.5	6.87	96	28	5.23	55.7	6.85	22		0.3	32
2	Tue								96				96	6				17		0.3	
3	Wed								96				96	16				41		0.3	
4	Thu								96				96	29				74		1.5	
5	Fri								96				96	17				40	0.18	0.8	
6	Sat								96				96	19				37		1.1	
7	Sun								96				96	10				29	0.16	1.2	
8	Mon		3.02	74.4	6.89	1.53	62.2	6.76	96	1.99	57.3	7.08	96	27	4.37	59.4	7.00	4		1.1	32
9	Tue								96				96	5				8		1.1	
10	Wed								96				96	15				36		1.1	
11	Thu								96				96	17				40		1.1	
12	Fri								96				96	18				46		1.1	
13	Sat								96				96	11				32		1.1	
14	Sun								96				96	16				43		1.0	
15	Mon		2.21	80.0	7.21	1.53	57.7	6.89	96	2.12	63.0	7.19	96	25	4.42	57.1	7.18	11		1.1	29
16	Tue								96				96	22				38		2.2	
17	Wed								96				96	24				58		0.7	
18	Thu								96				96	12				33		0.6	
19	Fri								96				96	21				49		0.6	
20	Sat								96				96	15				37		0.6	
21	Sun								96				96	17				39	0.13	0.6	
22	Mon		2.06	83.3	6.22	2.82	60.3	6.87	96	2.49	59.8	7.12	96	30	4.38	57.4	6.99	5		0.6	33
23	Tue								96				96	9				22		0.5	
24	Wed								96				96	21				52		0.4	
25	Thu								96				96	12				35		0.4	
26	Fri								96				96	15				35		0.4	
27	Sat								96				96	22				53		0.4	
28	Sun								96				96	16				42		0.4	
29	Mon								96				96	22				13		0.4	23
30	Tue		0.45	86.5	6.83	1.33	61.3	6.73	96	1.48	62.7	7.02	95	18	4.25	60.9	6.86	36		0.5	
AVERAGE			1.84	79.9	6.69	1.81	60.0	6.80	96	2.28	60.7	7.06	96	18	4.53	58.1	6.98	34	0.16	0.8	5
MAXIMUM			3.02	86.5	7.21	2.82	62.2	6.89	96	3.34	63.0	7.19	96	30	5.23	60.9	7.18	74	0.18	2.2	33
MINIMUM			0.45	74.4	6.22	1.33	57.7	6.73	96	1.48	57.3	6.87	95	5	4.25	55.7	6.85	4	0.13	0.3	0
# OF DATA			5	5	5	5	5	5	30	5	5	5	30	30	5	5	5	30	3	30	30
TOTAL			9	400	33	9	300	34	2878	11	303	35	2874	537	23	291	35	1026	0	24	149

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## NPDES LIMITS AND ANALYSIS

### Metals and Cyanide Analysis

INFLUENT										EFFLUENT							
Method: 24 hour composite										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 3rd			0.062					<0.005			0.022					<0.005
2nd Date :	November 10th			0.150								0.028					
3rd Date :	November 17th			0.140					0.006			0.025					<0.005
4th Date :	November 24th			0.110								0.018					
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				0.116					0.004			0.023					<0.003
Maximum				0.150					0.006			0.028					<0.005

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

### 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	0.01	235	125
Times Violated	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Max	5.1	3.7	7	5	339	194	10	8	459	278	0.83	0.74	30	25	8.5	7.91			
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: Nov-04  
 LaPorte Wastewater Treatment Plant  
 2101 Boyd Boulevard, La Porte IN 46350  
 Phone # (219)362-2354

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 Permit # IN0025577  
 Certified Operator : Jerry P Jackson  
 Certification Number : 11496

Total lbs Volatile Solids to Digester 2,501

Overall Percent Removal of Volatile Solids 65.2%

Equivalent Population Treated in (lbs Raw CBOD per Day / 0.17) 30,544

Rotary Filter Hydraulic Loading Rate (Gallon / Day / Sq Ft) 467

Fixed Bed Filter Hydraulic Loading Rate (Gallon / Day / Sq Ft) 59

Biotower Filter Hydraulic Loading Rate (Gallons / Day / Sq Ft) 1,112

Rotary Filter Organic Loading Rate (lbs CBOD / 1000 Cu Ft / Day) 34

Fixed Bed Filter Organic Loading Rate (lbs CBOD / 1000 Cu Ft / Day) 4

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

#### Monthly Removal Summary

Percent Removal :	CBOD	TSS	AMMONIA
<b>Primary Treatment</b>	40%	48%	6%
<b>Secondary Treatment</b>	83%	72%	41%
<b>Tertiary Treatment</b>	70%	56%	95%
<b>Overall Treatment</b>	97%	94%	97%

Detention Time (Hours)	Maximum	Minimum	Average
<b>Primary Settling Tank</b>	6.1	1.5	3.3
<b>Secondary Settling Tank</b>	4.5	1.1	2.5
<b>Final Settling Tank</b>	14.0	3.5	7.7
<b>Total Plant Retention Time</b>	24.6	6.2	13.5

Surface Flow Rate			
Gallons per sq ft per Day	Maximum	Minimum	Average
<b>Primary Settling Tank</b>	1001	251	457
<b>Secondary Settling Tank</b>	1321	331	603
<b>Final Settling Tank</b>	674	169	307

Weir OverFlow Rate			
1000 Gal per ft per Day	Maximum	Minimum	Average
<b>Primary Settling Tank</b>	19	5	9
<b>Secondary Settling Tank</b>	16	4	7
<b>Final Settling Tank</b>	15	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:

November 1 - CSO meter back in operation. Approximately 100 feet of the electrical feed replaced, from CSO Instrument Building to the west. New meter installed. New meter is a pressure transducer type. Overflow now occurs at zero feet. Negative readings indicate distance to overflow, positive readings indicated the height of the flow over the CSO weir.

November 3, 2004 - North side of Fixed-bed Trickling Filter shut down for winter operation

November 10, 2004 - Successful load test of emergency power generator

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: \_\_\_\_\_

