

**MONTHLY REPORT OF OPERATION**

**Trickling Filter Wastewater Treatment Plant**

Date: Nov-2008  
 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	Sat	4.8				1.1	0.00	7.34	65	58	13.30	7.21	43	40	13.40	7.37	12	23	8.24	4.9		2.0		0.45	5.6	0.18		
2	Sun	7.8		0.40		12.6	0.00	7.35	67	98	7.95	7.20	40	48	8.12	7.09	14	38	4.90	6.9		3.5		0.32	8.1	0.04		
3	Mon	4.3				0.9	0.00	7.26	405	116	21.60	7.19	103	50	12.30	7.20	24	22	6.81	4.6		2.2		0.60	5.7	0.33		
4	Tue	5.4				3.7	0.00	7.34	62	52	11.70	7.26	60	36	10.30	7.18	14	22	6.46	5.4		2.8		0.53	6.3	0.17		
5	Wed	6.2				1.8	0.00	7.48	64	70	12.40	7.36	52	50	10.70	7.32	12	27	6.31	5.8		3.1		0.43	6.3	0.01		
6	Thu	6.8		0.21		7.4	0.00	7.37	92	164	10.80	7.27	69	68	10.20	7.30	19	31	6.42	5.6		2.9		0.25	7.0	0.02		
7	Fri	6.5				2.4	0.00	7.32	48	38	9.43	7.25	54	43	8.93	7.30	16	26	4.63	5.1		2.8		0.21	6.5	0.01		
8	Sat	5.1	6.0	0.04		1.2	0.00	7.36	57	46	14.50	7.31	47	28	12.60	7.41	10	18	6.99	4.9		1.9		0.33	5.6	0.09		
9	Sun	4.7		0.13		1.5	0.00	7.31	73	42	14.10	7.32	57	30	12.75	7.35	11	16	8.24	4.9		2.0		0.48	5.8	0.23		
10	Mon	5.7				1.5	0.00	7.31	255	90	19.30	7.33	57	48	11.90	7.43	12	23	7.30	4.9		2.3		0.26	6.1	0.07		
11	Tue	4.8		0.20			0.00	7.39	140	118	16.10	7.29	68	58	12.50	7.34	17	29	7.50	5.0		2.6		0.58	5.7	0.20		
12	Wed	6.4		0.12		1.4	0.00	7.43	108	56	13.40	7.35	47	46	11.20	7.44	15	27	5.97	6.0		3.1		0.43	6.4	0.01		
13	Thu	5.2				1.3	0.00	7.31	200	84	17.80	7.34	59	48	12.90	7.43	11	21	7.49	5.0		2.6		0.47	5.9	0.13		
14	Fri	6.0		0.28		5.6	0.00	7.25	92	104	11.80	7.28	59	54	11.00	7.30	16	25	7.09	5.3		2.6		0.32	7.0	0.16		
15	Sat	6.0	5.5	0.20		4.9	0.00	7.27	60	42	10.00	7.27	49	30	9.93	7.29	15	23	6.43	5.3		2.3		0.26	6.8	0.13		
16	Sun	4.7		0.08		0.7	0.00	7.32	73	44	13.90	7.27	53	42	14.85	7.30	13	20	9.00	4.7		1.8		0.40	6.1	0.31		
17	Mon	4.3		0.22		0.7	0.00	7.29	104	69	16.70	7.30	80	50	15.40	7.39	16	21	9.34	4.7		2.2		0.60	6.0	0.39		
18	Tue	5.1		0.29		1.2	0.00	7.55	103	72	12.30	7.37	84	52	11.30	7.32	21	19	7.95	4.8		2.5		0.42	6.0	0.18		
19	Wed	5.4				1.3	0.00	7.38	52	62	11.35	7.29	53	52	12.70	7.37	13	29	8.57	4.9		2.5		0.38	6.3	0.17		
20	Thu	4.6		0.36			0.00	7.34	69	70	14.80	7.27	59	38	15.25	7.28	10	19	9.46	4.6		2.5		0.54	6.1	0.32		
21	Fri	4.7		0.24		1.3	0.00	7.60	77	112	30.10	7.39	31	45	12.50	7.43	13	22	9.10	4.7		2.1		0.46	6.5	0.39		
22	Sat	5.4	4.9			4.4	0.00	7.39	135	60	11.70	7.32	80	50	10.40	7.31	27	25	6.97	5.2		2.2		0.35	7.0	0.28		
23	Sun	4.9				1.4	0.00	7.31	103	88	14.50	7.25	67	58	14.15	7.30	16	27	8.39	4.9		2.1		0.44	6.4	0.30		
24	Mon	5.6		0.02		2.5	0.00	7.35	255	726	25.70	7.35	66	50	19.00	7.39	20	29	13.50	5.0		2.6		0.36	6.7	0.20		
25	Tue	5.1		0.02		1.8	0.00	7.46	90	76	12.30	7.38	82	50	17.10	7.39	19	22	9.61	4.8		2.8		0.50	6.0	0.18		
26	Wed	5.8				2.0	0.00	7.39	84	99	12.35	7.26	90	58	12.10	7.27	23	25	8.56	5.0		2.6		0.31	6.6	0.15		
27	Thu	4.4				3.3	0.00	7.43	97	82	13.10	7.24	68	6	12.80	7.28	15	21	8.21	5.0		2.6		0.70	6.6	0.47		
28	Fri	5.2				3.3	0.00	7.38	102	68	13.40	7.34	85	43	14.10	7.27	23	19	9.49	5.0		2.3		0.38	6.5	0.24		
29	Sat	3.6	5.0				0.00	7.28	83	86	15.95	7.17	54	50	14.90	7.18	11	19	9.17	4.6		1.7		0.72	5.7	0.57		
30	Sun	5.8		0.02		2.7	0.00	7.39	72	58	9.93	7.34	55	38	10.05	7.42	16	22	8.66	4.9		2.0		0.20	6.5	0.12		
AVERAGE		5.3		0.09		2.5	0.00	7.36	110	98	14.41	7.29	62	45	12.51	7.32	16	24	7.89	5.1		2.4		0.42	6.3	0.20		
MAXIMUM		7.8	6.0	0.40		12.6	0.00	7.60	405	726	30.10	7.39	103	68	19.00	7.44	27	38	13.50	6.9		3.5		0.72	8.1	0.57		
MINIMUM		3.6		0.02		0.0	0.00	7.25	48	38	7.95	7.17	31	6	8.12	7.09	10	16	4.63	4.6		1.7		0.21	5.6	0.01		
# OF DATA		30		16		30	30	30	30	30	30	30	30	30	30	30	30	30	30	30		30			30			
TOTAL		160		2.83		74	0	221	3286	2950	432	219	1870	1359	375	220	468	708	237	152		73			190			

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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	Sat	4.1	7.58	3		111		7		278		0.16		6		9.9				
2	Sun	6.6	7.43	4		280		14		912		0.13		8		9.6				
3	Mon	3.7	7.47	4		157		4		142		0.09		3		9.4				
4	Tue	4.6	7.52	4		157		8		359		0.08		4		9.7				
5	Wed	5.3	7.61	3		146		11		572		0.06		3		9.6				
6	Thu	5.8	7.47	5		267		12		681		0.10		6		9.3				
7	Fri	5.6	7.21	5		264		8		431		0.06		3		10.4				
8	Sat	4.3	7.56	4	4	153	203	3	9	127	461	0.04	0.08	2	4	9.9				
9	Sun	4.0	7.50	3		117		3		117		0.09		4		9.7				
10	Mon	4.8	7.56	2		114		5		237		0.01		0		9.8				
11	Tue	4.1	7.62	4		155		10		377		0.12		5		10.0				
12	Wed	5.4	7.34	5		260		11		583		0.85		45		10.2				
13	Thu	4.6	7.56	3		117		5		217		0.08		3		9.9				
14	Fri	5.5	7.48	5		226		9		452		0.14		7		9.7				
15	Sat	5.5	7.33	5	4	240	176	5	7	250	319	0.17	0.21	9	10	10.0				
16	Sun	4.2	7.41	4		140		6		234		0.16		6		10.3				
17	Mon	4.1	7.59	4		127		5		181		0.24		9		10.3				
18	Tue	4.7	7.43	5		204		1		43		1.92		82		10.7				
19	Wed	5.0	7.52	3		138		8		357		0.28		12		10.9				
20	Thu	4.3	7.25	2		93		3		96		0.20		8		10.6				
21	Fri	4.6	7.70	3		130		2		79		0.65		26		10.5				
22	Sat	5.1	7.65	8	4	377	173	14	6	636	232	0.30	0.54	14	22	11.1				
23	Sun	4.5	7.66	6		230		10		390		0.30		12		10.7				
24	Mon	5.1	7.51	6		279		7		325		2.30		107		10.1				
25	Tue	4.6	7.58	5		191		5		191		1.45		62		10.7				
26	Wed	5.2	7.46	5		240		7		336		0.29		14		10.5				
27	Thu	4.0	7.42	4		145		7		241		0.29		11		10.3				
28	Fri	4.7	7.47	13		580		7		305		0.90		39		10.3				
29	Sat	3.3	7.39	5	6	143	258	8	7	243	290	0.41	0.85	12	37	10.8				
30	Sun	5.2	7.65	3		140		7		338		0.41		20		10.5				
AVERAGE		4.8	7.50	4		197		7		324		0.41		18		10.2				
MAXIMUM		6.6	7.70	13	6	580	258	14	9	912	461	2.30	0.85	107	37	11.1				
MINIMUM		3.3	7.21	2		93		1		43		0.01		0		9.3				
# OF DATA		30	30	30		30		30		30		30		30		30				
TOTAL		143	225	132		5918		210		9730		12		541		305.4				

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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	Sat						23	0	273	6	2	90	
2	Sun						25	0	280	6	1	23	
3	Mon						26	10	265	6	2	78	
4	Tue						24	0	256	6	2	73	
5	Wed						21	3	261	6	2	59	
6	Thu						24	7	294	6	2	78	
7	Fri						20	0	301	6	2	69	
8	Sat						21	0	290	6	2	90	
9	Sun						23	0	275	6	2	97	
10	Mon						23	0	264	6	2	89	
11	Tue						21	0	264	6	2	90	
12	Wed						23	0	265	6	2	89	
13	Thu						20	0	264	6	2	88	
14	Fri						25	0	262	6	2	89	
15	Sat						23	0	272	6	2	90	
16	Sun						20	0	299	6	2	89	
17	Mon						22	0	315	6	2	88	
18	Tue						25	0	317	6	2	88	
19	Wed						23	0	316	6	2	89	
20	Thu						21	0	309	6	2	89	
21	Fri						24	0	307	6	2	89	
22	Sat						21	0	307	6	2	88	
23	Sun						23	0	301	6	2	88	
24	Mon						25	6	297	6	2	87	
25	Tue						24	0	295	6	2	87	
26	Wed						25	0	297	6	2	89	
27	Thu						20	0	296	6	2	88	
28	Fri						23	0	292	6	2	87	
29	Sat						20	0	292	6	2	87	
30	Sun						23	0	293	6	2	87	
AVERAGE							23	1	287	6	2	84	
MAXIMUM							26	10	317	6	2	97	
MINIMUM							20	0	256	6	1	23	
# OF DATA							30	30	30	30	30	30	
TOTAL							681	26	8617	180	64	2513	

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		
<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	Sat								96				96	19				47			2.4	
2	Sun								96				96	17				45			2.7	
3	Mon		2.37	71.0	6.13	1.33	58.7	6.70	96	2.55	55.2	6.83	96	45	5.00	51.7	6.82	31	0.08		1.9	39
4	Tue								96				96	11				21			1.9	
5	Wed								96				96	42				2			1.5	57
6	Thu								96				96	40				0			0.8	49
7	Fri								96				96	6				0			0.7	
8	Sat								96				96	6				0			0.9	
9	Sun								96				96	7				0			1.0	
10	Mon		2.21	72.8	6.52	1.76	57.8	6.92	96	2.26	57.7	7.02	96	8	0.45	55.2	6.88	6	0.12		1.0	
11	Tue								96				95	18				50			0.4	
12	Wed								96				96	11				29			0.8	
13	Thu								96				96	13				42			0.8	
14	Fri								96				96	22				56			1.0	
15	Sat								96				96	16				40			1.0	
16	Sun								96				96	15				43			0.9	
17	Mon		3.13	72.9	6.73	1.38	51.4	6.78	96	2.01	52.5	6.92	96	8	0.60	52.4	6.99	24			0.9	
18	Tue								96				96	20				54			0.9	
19	Wed								96				96	18				47			1.0	
20	Thu								96				96	13				33			0.9	
21	Fri								96				96	8				25			0.9	
22	Sat								96				96	20				52			0.9	
23	Sun								96				96	15				36			0.9	
24	Mon		1.34	82.5	6.25	1.35	55.7	6.82	96	4.51	54.3	6.87	96	24	0.17	31.0	6.98	63			1.0	
25	Tue								96				96	16				14			1.3	11
26	Wed								96				96	16				42			1.4	
27	Thu								96				96	14				48			1.3	
28	Fri								96				96	20				45			1.3	
29	Sat								96				96	11				31			1.3	
30	Sun								96				96	17				51			1.3	
AVERAGE			2.26	74.8	6.41	1.46	55.9	6.81	96	2.83	54.9	6.91	96	17	1.56	47.6	6.92	33	0.10		1.2	5
MAXIMUM			3.13	82.5	6.73	1.76	58.7	6.92	96	4.51	57.7	7.02	96	45	5.00	55.2	6.99	63	0.12		2.7	57
MINIMUM			1.34	71.0	6.13	1.33	51.4	6.70	96	2.01	52.5	6.83	95	6	0.17	31.0	6.82	0	0.08		0.4	
# OF DATA			4	4	4	4	4	4	30	4	4	4	30	30	4	4	4	30	2		30	30
TOTAL			9	299	26	6	224	27	2881	11	220	28	2874	517	6	190	28	978	0		35	157

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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 :	November 5th		<0.005	0.041	<0.005	0.010	0.039	<0.005			0.012				<0.005
2nd Date :	November 12th			0.034							0.015				
3rd Date :	November 19th		<0.005	0.050	<0.005	<0.005	0.039	<0.005			0.015				<0.005
4th Date :	November 26th			0.060							0.015				
5th Date :															
Number of times Limit Value exceeded:		NA	NA	NA	NA	NA	NA	NA	NA	NA	*See Note	0	NA	NA	0
Average			<0.003	0.046	<0.003	0.006	0.039	<0.003			0.014				<0.003
Maximum			<0.005	0.060	<0.005	0.010	0.039	<0.005			0.015				<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	0.06	235	125
Times Violated	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Max	6.0	5.3	6	4	258	197	9	7	461	324	0.85	0.41	37	18	9.3	7.70			
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-2008  
 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 3,203

Overall Percent Removal of Volatile Solids 69.4%

Equivalent Population Treated in (lbs Raw CBOD per Day / 0.17) 28,698

Rotary Filter Hydraulic Loading Rate (Gallon / Day / Sq Ft) 480

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

Biotower Filter Hydraulic Loading Rate (Gallons / Day / Sq Ft) 822

Rotary Filter Organic Loading Rate (lbs CBOD / 1000 Cu Ft / Day) 30

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

Biotower Filter Organic Loading Rate (lbs CBOD / 1000 Cu Ft / Day) 5

#### Monthly Removal Summary

Percent Removal :	CBOD	TSS	AMMONIA
Primary Treatment :	43%	54%	13%
Secondary Treatment :	75%	48%	37%
Adv. Sec. Treatment :	72%	70%	95%
Overall Treatment :	96%	93%	97%

Detention Time (Hours)	Maximum	Minimum	Average
Primary Settling Tank	3.4	1.6	2.3
Secondary Settling Tank	2.5	1.1	1.7
Final Settling Tank	7.7	3.6	5.3
Chlorine Contact Tank	0.53	0.25	0.36
Total Plant Retention Time	13.6	6.3	9.2

Surface Flow Rate			
Gallons per sq ft per Day	Maximum	Minimum	Average
Primary Settling Tank	977	455	668
Secondary Settling Tank	1289	600	881
Final Settling Tank	657	306	449

Weir OverFlow Rate			
1000 Gal per ft per Day	Maximum	Minimum	Average
Primary Settling Tank	19	9	13
Secondary Settling Tank	15	7	11
Final Settling Tank	15	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:

November 7 - Successful test of emergency power system

November 18 - Shut down south half of the fixed-bed trickling filter 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 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: \_\_\_\_\_

