



**Monthly Report of Operation
Vertical Loop Reactor
Wastewater Treatment Plant**
State Form 53341 (R / 11-08)

Name of Facility Clay Township Regional Waste District		Permit Number IN0055760	
Month June	Year 2009	Plant Design Flow 2.55 mgd	Telephone Number (317) 873-0564
Facility's e-mail address (if available): scot@ctrwd.org			
Certified Operator: Name Scot S. Watkins	Class III	Certificate Number WW018132	Expiration Date 6/30/2010

Day Of Month	Day of Week	Man-Hours at Plant (Plants less than 1 MGD only)	Air Temperature (optional)	Total= 4.61 Precipitation - Inches	Bypass At Plant Site ("x" If Occurred)	Collection System Overflow ("x" If Occurred)	CHEMICALS USED			RAW SEWAGE								
							Chlorine - Lbs	Liquid Alum - Gallons	Lbs or Gal	Influent Flow Rate (if metered) MGD	pH	CBOD5 - mg/l	CBOD5 - lbs	Susp. Solids - mg/l	Susp. Solids - lbs	Phosphorus - mg/l	Ammonia - mg/l	
1	Mon		82					190	1.867	7.5	306	4764.7	262	4079.5	10.72	27.4		
2	Tue		87	0.5				140	1.984	7.5	312	5162.5	292	4831.6	8.06	25.8		
3	Wed		67	0.51				140	2.283	7.5	243	4626.8	216	4112.7	6.23	22.6		
4	Thu		70					170	2.183	7.5	269	4897.5	244	4442.3	6.88	22.9		
5	Fri		72					210	2.042	7.5	218	3712.6	208	3542.3	5.93	24		
6	Sat							190	1.955									
7	Sun							190	1.737									
8	Mon		84					110	1.893	7.5	246	3883.8	242	3820.6	5.28	26.3		
9	Tue		81	0.09				170	1.916	7.5	244	3899	246	3930.9	5.9	26.2		
10	Wed		76	0.51				100	2.172	7.5	238	4311.2	228	4130.1	6.76	27.3		
11	Thu		74	1.32				170	2.938	7.5	236	5782.7	588	14408	5.68	16.9		
12	Fri							180	2.265	7.5	142	2682.4	226	4269.2	6.02	19.3		
13	Sat							180	2.054									
14	Sun			0.3				120	1.905									
15	Mon		82					150	2.229	7.5	229	4257.1	258	4796.2	7.41	23.1		
16	Tue		78	0.47				180	2.098	7.5	171	2992	112	1959.7	4.76	21.9		
17	Wed		81					180	2.132	7.6	162	2880.5	116	2062.6	5.63	21.5		
18	Thu		88	0.11				210	2.085	7.5	172	2990.9	126	2191	6.17	20.6		
19	Fri		92	0.01				180	2.075	7.5	232	4014.9	102	1765.2	5.42	22.2		
20	Sat			0.27				170	1.795									
21	Sun							180	1.946									
22	Mon		90	0.52				190	2.505	7.5	226	4721.5	180	3760.5	6.47	17.5		
23	Tue		90					170	2.129	7.5	249	4421.2	146	2592.4	5.4	18.1		
24	Wed		90					190	1.898	7.5	218	3450.8	246	3894	3.62	18.3		
25	Thu		92					180	1.944	7.5	220	3566.9	172	2788.6	5.64	21.4		
26	Fri		90					150	1.884	7.5	169	2655.4	146	2294	4.8	23.6		
27	Sat							210	1.822									
28	Sun							150	1.833									
29	Mon		82					180	1.934	7.5	227	3661.4	230	3709.8	5.76	26.1		
30	Tue		74					210	1.874	7.5	167	2610.1	72	1125.3	5.82	27.4		
Average								171.33	2.0459		223	3906.6	212	3841.2	6.107	22.75		
Maximum							1.32	210	2.938	7.6	312	5782.7	588	14408	10.72	27.4		
Minimum								100	1.737	7.5	142	2610.1	72	1125.3	3.62	16.9		
No. of Data							11	0	0	0	30	0	30	22	22	22	22	0

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 fine and imprisonment for knowing violations.

Signature of Certified Operator	Date (month, day, year)
Signature of principal executive officer or authorized agent	Date (month, day, year)

Monthly Report of Operation Vertical Loop Reactor Wastewater Treatment Plant State Form 53341 (R / 11-08)				Signature of Certified Operator		Date (month, day, year)	
				Signature of principal executive officer or authorized agent		Date (month, day, year)	
Name of Facility		Permit Number	For Month Of:		Year		
Clay Township Regional Waste Di		IN0055760	June		2009		

Day Of Month	Temperature in Reactors	REACTOR # 1				REACTOR # 2				REACTOR DATA				RETURN SLUDGE		FINAL EFFLUENT				
		0	Susp. Solids - mg/l	Sludge Vol. Index - ml/gm	Dissolved Oxygen - mg/l	Settleable Solids % in 30 minutes	Susp. Solids - mg/l	Sludge Vol. Index - ml/gm	Dissolved Oxygen - mg/l	#1 Reactor ORP mV	#1 Reactor OUR mg/l/min	0	#2 Reactor OUR mg/l/min	Volume - MG	Susp. Solids - mg/l	Residual Chlorine - Contact Tank	Residual Chlorine - Final	E. Coli - colony/100 ml	pH - daily low (or single sample)	pH - daily high (if multiple samples)
1	17.3	36	3620	99	0.4	38	3320	114	2.6	-193				0.644	8240			1	7.5	
2	17.6	36	3500	103	0.4	35	3320	105	2.2	-220				0.673	7800			20	7.4	
3	17.9	37	3880	95	0.4	31	4240	73	1.8	-216				0.731	8300			1	7.5	
4	17.1	34	3600	94	0.4	31	3800	82	2.4	-108	0.61		0.4	0.753	7060			17	7.4	
5	17.1	42	3180	132	0.4	35	3000	117	2.0	-84				0.682	7780			1	7.4	
6														0.748						
7														0.577						
8	17.7	33	3060	108	0.4	30	2900	103	1.9	-196				0.61	7460			1	7.5	
9	18.2	29	3080	94	0.4	29	2900	100	2.1	-170				0.74	7520			1	7.4	
10	18.4	23	3900	59	0.4	30	3300	91	2.2	-191				0.74	7740			14	7.4	
11	18.4	28	3240	86	0.4	32	2960	108	2.0	-196	0.91		0.5	0.99	6640			11	7.4	
12	18	25	2740	91	0.4	27	2780	97	3.4	-27				0.77	6500			4	7.5	
13														0.78						
14														0.67						
15	18	28	3280	85	0.4	28	2800	100	2.7	-135				0.71	6280			1	7.6	
16	18.3	28	3000	93	0.4	28	2740	102	2.5	-118				0.8	7500			1	7.5	
17	18.3	32	3320	96	0.4	30	3340	90	2.1	-144				0.73	7560			1	7.5	
18	18.7	28	3440	81	0.4	28	3200	88	2.9	-120	0.65		0.3	0.7	7560			1	7.5	
19	18.9	31	3100	100	0.4	28	3040	92	2.8	-116				0.73	6880			1	7.5	
20														0.67						
21														0.72						
22	19	32	3240	99	0.4	30	3080	97	2.4	-203				0.92	8180			1	7.5	
23	19.1	35	3440	102	0.4	32	3300	97	2.6	-171				0.81	8640			1	7.4	
24	19.8	64	4800	133	0.4	53	4640	114	1.9	-271				0.66	11720			1	7.4	
25	19.7	56	4440	126	0.4	52	4180	124	1.9	-271	1.08		0.5	0.66	10200			1	7.5	
26	19.9	52	4340	120	0.4	46	4020	114	2.2	-251				0.56	9500			2	7.5	
27														0.71						
28														0.64						
29	19.3	45	3840	117	0.4	41	3800	108	2.0	-254				0.645	8060			1	7.5	
30	19.4	38	3940	96	0.4	43	3540	121	2.0	-220				0.6	9240			1	7.5	
Avg.	18.5	36	3545	101	0.385	34	3373	102	2.291				1	0.398	1	8016.4			2	
Max.	19.9	64	4800	133	0.4	53	4640	124	3.39				1.08	0.46	0.99	11720			20	7.6
Min.	17.1	23	2740	59	0.38	27	2740	73	1.83				0.61	0.33	0.56	6280			1	7.4
Data	22	22	22	22	22	22	22	22	22	22	4	0	4	30	22	0	0	22	22	22

Comments for the Month (major repairs, breakdowns, process upsets and their causes, inplant treatment process bypass, etc.):
 Plant in Storm Mode 6/11/09 7am to 1 pm (6 hours). * Problem with meter 6/1 and 6/2/09, meter repaired.

Monthly Report of Operation
Vertical Loop Reactor
Wastewater Treatment Plant
 State Form 53341 (R / 11-08)

Signature of Certified Operator _____ Date (month, day, year) _____

Name of Facility: Clay Township Regional Waste District
 Permit Number: IN0055760
 For Month Of: June
 Year: 2009

Signature of principal executive officer or authorized agent _____ Date (month, day, year) _____

Day Of Month	Day of Week	FINAL EFFLUENT															
		Flow		Dissolved Oxygen - mg/l	Phosphorus - mg/l	BOD				Total Suspended Solids				Ammonia			
		Effluent Flow Rate (MGD)	Effluent Flow Weekly Average			CBOD5 - mg/l	CBOD5 - mg/l Weekly Average	CBOD5 - lbs	CBOD5 - lbs/day Weekly Average	Susp. Solids - mg/l	Susp. Solids - mg/l Weekly Average	Susp. Solids - lbs	Susp. Solids - lbs/day Weekly Average	Ammonia - mg/l	Ammonia - mg/l Weekly Average	Ammonia - lbs	Ammonia - lbs/day Weekly Average
1	Mon	2.094		10.04	0.27	4.37		76.363		5.4		94.362		0.14		2.4464	
2	Tue	2.048		8.91	0.24	2.62		44.777		4.3		73.489		0.23		3.9308	
3	Wed	2.514		8.27	0.26	2.33		48.882		4.5		94.407		0.15		3.1469	
4	Thu	2.251		9.11	0.2	1.76		33.061		4.6		86.409		0.05		0.9392	
5	Fri	2.059		8.61	0.23	2.2		37.801		6.5		111.69		0.06		1.0309	
6	Sat	2.11	2.14343					2.656	48.177	5.06		92.071		0.126		2.2989	
7	Sun	1.857															
8	Mon	2.022		8.13	0.25	4.12		69.519		11.4		192.36		0.28		4.7246	
9	Tue	2.13		8.67	0.23	2.83		50.303		6.2		110.2		0.44		7.8209	
10	Wed	2.315		7.92	0.34	2.79		53.899		11		212.51		0.63		12.171	
11	Thu	3.089		8.15	0.28	2.55		65.733		6.7		172.71		1.42		36.604	
12	Fri	2.377		9.13	0.22	1.49		29.556		5.5		109.1		0.06		1.1902	
13	Sat	2.21	2.28571					2.756	53.802	8.16		159.38		0.566		12.502	
14	Sun	1.975															
15	Mon	2.375		8.58	0.26	3.54		70.161		5.4		107.02		0.07		1.3874	
16	Tue	2.428		8.09	0.17	1.59		32.216		3.2		64.837		0.09		1.8235	
17	Wed	2.308		8.3	0.16	1.63		31.394		3.9		75.115		0.05		0.963	
18	Thu	2.269		8.38	0.15	1.69		32		3.6		68.165		0.04		0.7574	
19	Fri	2.233		8.54	0.17	1.53		28.511		4.3		80.128		0.11		2.0498	
20	Sat	2.046	2.23343					1.996	38.856	4.08		79.054		0.072		1.3962	
21	Sun	2.155															
22	Mon	2.625		8.75	0.2	4.42		96.823		5.6		122.67		0.09		1.9715	
23	Tue	2.393		8.65	0.2	1.91		38.142		5		99.848		0.23		4.593	
24	Wed	2.066		9.46	0.22	1.94		33.447		7		120.69		0.48		8.2756	
25	Thu	2.172		8.79	0.21	2.59		46.945		9.9		179.44		0.29		5.2563	
26	Fri	1.96		8.53	0.2	2.3		37.619		9.5		155.38		0.21		3.4348	
27	Sat	2.079	2.20714					2.632	50.595	7.4		135.61		0.26		4.7062	
28	Sun	2.066															
29	Mon	2.158		8.57	0.43	5.93		106.79		24.1		434.01		0.23		4.142	
30	Tue	2.066		7.84	0.2	2.44		42.067		6.5		112.07		1.24		21.379	
Avg		2.215		8.61	0.2314	2.6623		50.273		7.0045		130.75		0.2995		5.9108	
Max		3.089	2.28571	10.04	0.43	5.93	2.756	106.79	53.802	24.1	8.16	434.01	159.38	1.42	0.566	36.604	12.502
Min		1.857	2.14343	7.84	0.15	1.49	1.996	28.511	38.856	3.2	4.08	64.837	79.054	0.04	0.072	0.7574	1.3962
Data		30	4	22	22	22	4	22	4	22	4	22	4	22	4	22	4

MONTHLY REMOVAL SUMMARY					
	BOD5	S.S.	Ammonia	Phosphorus	Total Monthly Flow: (million gallons) 66.45
Percent Removal	99	97	99	96.2	Percent Capacity (actual flow/design) 87%

Monthly Report of Operation Vertical Loop Reactor Wastewater Treatment Plant				Signature of Certified Operator		Date (month, day, year)		
State Form 53341 (R / 11-08)				Signature of principal executive officer or authorized agent		Date (month, day, year)		
Name of Facility		Permit Number	For Month Of:	Year				
Clay Township Regional Waste District		IN0055760	June	2009				

Day Of Month	SLUDGE TO DIGESTER		DIGESTER OPERATION													
	Waste Act. Sludge Gal. x 1000	pH	Anaerobic Only			Supernatant Withdrawn hrs. or Gal. x 1000	Supernatant BOD5 mg/l or NH3-N mg/l	Total Solids in Incoming Sludge - %	Total Solids in Digested Sludge - %	Volatile Solids in Incoming Sludge - %	Volatile Solids in Digested Sludge - %	Digested Sludge Withdrawn hrs. or Gal. x 1000				
			Gas Production Cubic Ft. x 1000	Temperature - F												
1	59				28.5		0.9			69						
2	58				19		0.9			69						
3	71						0.9	17.8		70	65	42.2				
4	48				52.3		0.8	18.2		68	66	36.6				
5	52				6.8		0.8			70		7.6				
6					48.8											
7	59															
8	57						0.8	18.4		69	68	38.6				
9								18.5			67	26				
10	55				59.5		0.8	18.3		69	66	33.2				
11	62						0.7	18.5		68	66	29.5				
12	47				48.8		0.7	18.5		65	66	37.2				
13					67.1											
14	56						0.8			67						
15	48				47.6		0.7	17.8		67	66	39.2				
16								22			68	30.2				
17	65				22.6		0.8	18		67	62	33.1				
18	57				36.9		0.8	18.4		68	62	37.2				
19	42				45.1		0.7	19.5		66	61	40.3				
20					16.7											
21	50															
22												40.9				
23	33				59.5		0.9			69						
24	67				4.8		1.2			69						
25	62				26.1		1.1			69						
26	88				91.6		1			70						
27					63											
28	55						1.1			68						
29	55				30.9		1	18.5		67	68					
30	61				70.1		1	19		68	67					
Avg.	56.826				42.285		0.8762	18.671		68.19	65.571	33.7				
Max.	88				91.6		1.2	22		70	68	42.2				
Min.	33				4.8		0.7	17.8		65	61	7.6				
Data	0	0	0	23	0	0	0	20	0	21	14	21	14	14	0	0

Send completed forms by the 28th of the month to:

Indiana Department of Environmental Management
Office of Water Quality, Mail Code 65-42
100 North Senate Avenue
Indianapolis, Indiana 46204-2251

**Monthly Report of Operation
Vertical Loop Reactor
Wastewater Treatment Plant**

Name of Facility Clay Township Regional Waste District	Permit Number IN0055760	For Month Of: June	Year 2009
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(SIGNATURE OF CERTIFIED OPERATOR)	(DATE)
(SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT)	(DATE)

Day Of Month	Temperature in Reactors	ORBAL #1			ORBAL #3				TOTAL RETURN SLUDGE				RETURN SLUDGE		Flow Volume					
		ORP mV	Dissolved Oxygen - mg/l	OUR mg/l/min	Dissolved Oxygen - mg/l	Settleable Solids % in 30 minutes	Susp. Solids - mg/l	Sludge Vol. Index - ml/gm	OUR mg/l/min	Volume - MG				Volume - MG	Susp. Solids - mg/l	Orbal Influent Flow - MGD				
1	*	-283	4.01		*	38	3060	124		1.801				1.157	5280	1.226				
2	17.4	-299	*		4.1	35	3340	105		1.862				1.189	4060	1.252				
3	18.4	-216	0.35		0.8	33	4120	80		1.871				1.14	4220	1.281				
4	17.1	-277	0.35		1.8	28	2720	103	0.2	1.946				1.192	4940	1.277				
5	17.2	-273	0.35		1.4	40	3060	131		1.891				1.209	4120	1.235				
6										1.911				1.163		1.199				
7										1.59				1.013		1.037				
8	18.2	-333	0.35		0.7	31	3100	100		1.679				1.066	2680	1.06				
9	18.8	-329	0.35		0.7	26	3280	79		1.841				1.105	4640	1.088				
10	18.9	-330	0.35		0.7	31	2940	105		1.816				1.076	3400	1.146				
11	18.9	-330	0.39		0.8	28	3360	83	0.3	1.944				0.957	5040	1.338				
12	18.5	-330	0.36		3.1	27	3040	89		1.808				1.037	13660	1.302				
13										1.83				1.045		1.235				
14										1.675				1.004		1.105				
15	18.5	-331	0.35		1.2	29	2780	104		1.74				1.031	3760	1.225				
16	18.8	-331	0.34		0.8	29	2820	103		1.819				1.017	4780	1.139				
17	18.3	-331	0.36		0.7	31	3060	101		1.809				1.081	6080	1.147				
18	18.7	-332	0.35		0.7	27	3380	80	0.2	1.757				1.061	4180	1.138				
19	18.9	-331	0.35		0.6	31	3040	102		1.788				1.058	2920	1.174				
20										1.721				1.047		1.057				
21										1.913				1.198		1.12				
22	19.5	-335	0.39		0.6	30	3000	100		2.025				1.11	4380	1.377				
23	19.7	-336	0.36		0.7	32	3600	89		1.921				1.11	7020	1.409				
24	20.4	-332	0.36		0.7	60	4600	130		1.756				1.093	6200	1.316				
25	20.3	-332	0.36		0.7	50	4300	116	0.9	1.777				1.117	70200	1.274				
26	20.6	-332	0.36		0.7	47	4000	118		1.665				1.104	4660	1.233				
27										1.777				1.068		1.199				
28										1.763				1.121		1.217				
29	19.6	-333	0.37		0.7	43	3720	116		1.771				1.127	4620	1.237				
30	19.6	-335	0.35		0.7	42	3440	122		1.669				1.07	3620	1.138				
31																				
Avg.	18.871		1		1.0957	35	3353	104	0.415	1.805				1	7930	1.206				
Max.	20.6		4.01		4.1	60	4600	131	0.9	2.025				1.209	70200	1.409				
Min.	17.1		0.34		0.59	26	2720	79	0.22	1.59				0.957	2680	1.037				
Data	21	22	21	0	21	22	22	22	4	30	0	0	0	30	22	30	0	0	0	0