



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

State Form 10829 (R/1-2005)

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Name of Facility Clay Township Regional Waste District			Permit Number IN0055760		
Month September	Year 2008	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	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 (MGD)	pH	CBOD5 - mg/l	CBOD5 - lbs	Susp. Solids - mg/l	Susp. Solids - lbs	Phosphorus - mg/l	Ammonia - mg/l	
1	Mon		91					60	2.128	7.4	87	1544	168	2981.6	6.9	26.1		
2	Tue		91					90	2.331	7.4	78	1516.4	204	3965.9	6.15	28		
3	Wed		88					105	2.276	7.4	109	2069	200	3796.4	6.18	27.5		
4	Thu		85	0.1				90	2.282	7.4	86	1636.7	236	4491.5	6.3	30.8		
5	Fri		75	0.1				80	2.225	7.5	120	2226.8	182	3377.3	5.99	44.6		
6	Sat							60	2.431									
7	Sun			0.04				100	2.25									
8	Mon		80	0.43				85	2.405	7.5	97	1945.6	172	3449.9	7.37	44.6		
9	Tue		72	0.07				75	2.347	7.5	108	2114	168	3288.4	6.57	46.8		
10	Wed		74					60	2.388	7.5	116	2310.2	254	5058.6	8.99	26.9		
11	Thu		81	0.01				60	2.39	7.5	119	2372	572	11401	17.13	29.5		
12	Fri		80	0.29				30	2.468	7.4	108	2223	238	4898.8	6.78	24.2		
13	Sat			0.01				65	2.368									
14	Sun			0.49				70	2.216									
15	Mon		68					40	2.357	7.5	98	1926.4	178	3499	7.25	25.6		
16	Tue		72					70	2.401	7.4	85	1702.1	204	4085	6.89	28.5		
17	Wed		77					60	2.35	7.4	107	2097.1	200	3919.8	6.48	27.5		
18	Thu		77					60	2.444	7.5	74	1508.3	210	4280.4	7.13	28.1		
19	Fri		81					65	2.337	7.4	66	1286.4	186	3625.2	7.6	26.5		
20	Sat			0.06				70	2.366									
21	Sun							75	2.296									
22	Mon		84					65	2.428	7.4	93	1883.2	146	2956.4	7.46	26.8		
23	Tue		82					70	2.36	7.4	53	1043.2	224	4408.9	6.71	27.4		
24	Wed		82					65	2.388	7.4	86	1712.8	264	5257.8	6.97	29.7		
25	Thu		84					60	2.365	7.4	190	3747.6	302	5956.7	7.26	28.4		
26	Fri		80					85	2.3	7.5	205	3932.3	254	4872.2	6.52	29.5		
27	Sat							65	2.395									
28	Sun							65	2.201									
29	Mon		80	0.16				55	2.33	7.4	216	4197.4	300	5829.7	7.97	25.4		
30	Tue		75	0.01				60	2.327	7.4	203	3939.7	166	3221.6	7.55	30.7		
Average								68.667	2.33833		114	2224.3	229	4482.8	7.461	30.14		
Maximum								105	2.468	7.5	216	4197.4	572	11401	17.13	46.8		
Minimum								30	2.128	7.4	53	1043.2	146	2956.4	5.99	24.2		
No. of Data							12	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)

(SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT) (DATE)

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

Name of Facility: Clay Township Regional Waste D
Permit Number: IN0055760
For Month Of: September
Year: 2008

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(SIGNATURE OF CERTIFIED OPERATOR) (DATE)

(SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT) (DATE)

Day Of Month	Temperature in Reactors	REACTOR # 1				REACTOR # 2				REACTOR DATA				RETURN SLUDGE		FINAL EFFLUENT			
		Settleable Solids % in 30 minutes	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. Coll - colony/100 ml	pH
1	21.3	63	5200	121	0.3	56	4120	136	0.8	-50				0.737	14160			1	7.5
2	21.3	55	4280	129	0.4	44	3920	112	0.8	-66				0.787	12340			1	7.5
3	21.9	53	4200	126	0.4	50	2740	182	0.8	-36				0.762	10620			1	7.5
4	21.9	56	4340	129	0.4	53	4120	129	0.8	-2	0.66	#####	0.8	0.772	11360			1	7.5
5	21.7	56	4320	130	0.5	48	3640	132	2.6	34				0.725	11180				7.5
6														0.926					
7														0.868					
8	21.2	60	3860	155	0.3	49	4120	119	1.5	-69				0.827	12340			1	7.5
9	21.4	48	3820	126	0.3	48	3920	122	0.9	-42				0.801	12040			1	7.5
10	21.2	56	4080	137	0.4	47	4120	114	4.4	43				0.815	9820			1	7.5
11	21.1	54	4500	120	0.6	52	3680	141	4.1	46	0.58	#####	0.3	0.816	12760			1	7.5
12	21.6	68	4300	158	0.5	61	4220	145	3.2	30				0.847	12420			1	7.5
13														0.901					
14														0.854					
15	21.2	43	3740	115	0.6	57	3580	159	3.5	26				0.8	12080			1	7.6
16	21.1	69	4160	166	0.5	64	4160	154	3.1	20				0.81	11040			1	7.5
17	21.1	66	4080	162	0.6	54	4160	130	3.4	27				0.8	11360			1	7.5
18	21.2	57	4180	136	0.5	58	3720	156	3.2	21	0.73	#####	0.6	0.86	12140			1	7.5
19	21.3	67	4120	163	0.6	61	3900	156	2.8					0.81	10140			2	7.5
20														0.9					
21														0.89					
22	21.3	62	4500	138	0.5	63	3800	166	2.9	30				0.83	11460			1	7.5
23	21.4	72	4260	169	0.5	55	3280	168	3.0	50				0.82	11860			1	7.5
24	21.4	56	4840	116	0.5	50	4420	113	3.1	60	0.66	#####	0.2	0.84	12040			1	7.5
25	21.3	58	3840	151	0.4	55	3760	146	1.2					0.82	12440			2	7.5
26	21.1	70	3960	177	0.4	59	3860	153	1.5					0.81	12200			1	7.5
27														0.91					
28														0.85					
29	21.2	62	3920	158	0.5	56	3580	156	1.7	28				0.81	12100			1	7.6
30	21.2	61	3640	168	0.4	62	3420	181	1.6	25				0.8	11420			1	7.5
Avg.	21.3	60	4188	143	0.454	55	3829	144	2.309	9	1	#####	0.463	1	11787			1	
Max.	21.9	72	5200	177	0.6	64	4420	182	4.42	60	0.73	#####	0.77	0.926	14160			2	7.6
Min.	21.1	43	3640	115	0.25	44	2740	112	0.8	-69	0.58	#####	0.2	0.725	9820			1	7.5
Data	22	22	22	22	22	22	22	22	22	19	4	4	4	30	22	0	0	21	22

Comments for the Month (major repairs, breakdowns, process upsets and their causes, inplant treatment process bypass, etc.):

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

(SIGNATURE OF CERTIFIED OPERATOR)

(DATE)

Name of Facility: Clay Township Regional Waste District
 Permit Number: IN0055760
 For Month Of: September
 Year: 2008

(SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR
AUTHORIZED AGENT)

(DATE)

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Day Of Month	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	2.231		7.98	0.25	1.97		36.677		8.4		156.39		1.21		22.53	
2	2.373		7.31	0.2	1		19.803		5.5		108.91		2.22		43.96	
3	2.356		7.88	0.18	0.98		19.268		3.9		76.677		2.18		42.86	
4	2.461		7.91	0.19	0.66		13.554		4.5		92.417		1.8		36.97	
5	2.378		8.14	0.19	1.03		20.44		4.7		93.269		0.57		11.31	
6	2.642	2.407				1.128		21.948		5.4		105.53		1.596		31.53
7	2.507															
8	2.495		8.1	0.25	1.63		33.938		6.7		139.5		2.57		53.51	
9	2.485		8.05	0.2	0.76		15.76		4.9		101.61		0.74		15.35	
10	2.532		8.17	0.22	1.01		21.341		4.2		88.744		0.15		3.169	
11	2.526		8.36	0.23	0.79		16.653		3.5		73.778		0.39		8.221	
12	2.745		8.34	0.23	1.08		24.74		3.7		84.756		0.1		2.291	
13	2.555	2.54929				1.054		22.486		4.6		97.678		0.79		16.51
14	2.557															
15	2.646		8.44	0.28	1.05		23.185		6.4		141.32		0.1		2.208	
16	2.569		8.33	0.23	0.88		18.866		3.2		68.603		0.46		9.862	
17	2.58		8.15	0.21	0.7		15.071		4.5		96.885		0.21		4.521	
18	2.711		8.18	0.25	0.66		14.931		5.3		119.9		1.67		37.78	
19	2.42		7.36	0.21	0.42		8.4819		2.8		56.546		0.26		5.251	
20	2.589	2.58171				0.742		16.107		4.44		96.651		0.54		11.92
21	2.537															
22	2.517		8.04	0.35	0.79		16.593		7.7		161.73		0.72		15.12	
23	2.54		8.27	0.34	0.64		13.566		6.6		139.9		0.3		6.359	
24	2.531		8.26	0.78	0.42		8.8709		4.1		86.597		0.8		16.9	
25	2.581		8.13	0.58	1.38		29.723		3.6		77.538		0.62		13.35	
26	2.856		8.32	0.52	1.28		30.507		5.5		131.08		0.1		2.383	
27	2.718	2.61143				0.902		19.852		5.5		119.37		0.508		10.82
28	2.383															
29	2.471		8.08	1.15	5.6		115.47		5		103.1		2.02		41.65	
30	2.517		8	0.6	2.22		46.63		2.3		48.31		2.38		49.99	
Avg	2.53363		8.0818	0.3473	1.225		25.64		4.8636		102.16		0.9805		20.25	
Max	2.856	2.61143	8.44	1.15	5.6	1.128	115.47	22.486	8.4	5.5	161.73	119.37	2.57	1.596	53.51	31.53
Min	2.231	2.407	7.31	0.18	0.42	0.742	8.4819	16.107	2.3	4.44	48.31	96.651	0.1	0.508	2.208	10.82
Data	30	4	22	22	22	4	22	4	22	4	22	4	22	4	22	4

MONTHLY REMOVAL SUMMARY					Total Monthly Flow:	
	BOD5	S.S.	Ammonia	Phosphorus	(million gallons)	76.009
Percent Removal	99	98	97	95.3		
	Phosphorus limit would be 1 mg/l. (compliance achieved)				Percent Capacity	99%
					(actual flow/design)	

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

Name of Facility: Clay Township Regional Waste
 Permit Number: IN0055760
 For Month Of: September
 Year: 2008

(SIGNATURE OF CERTIFIED OPERATOR) (Date)
 (SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT) (Date)

**Monthly Report of C
Vertical Loop React
Wastewater Treatm**

Name of Facility: Clay Township Regional Waste

Day Of Month	SLUDGE TO DIGESTER		DIGESTER OPERATION										Day Of Month	Temperature in Reactors	ORP mV		
	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	41						1.5		75				1	22	-324		
2	50						1.5	17.2	75	73	35		2	22	-328		
3	54						1.3	17.3	75	72	33		3	22.8	-329		
4	48						1.4	17.9	75	69	36		4	22.7	-324		
5	51						1.5		74				5	22.3	-326		
6					96								6				
7					35								7				
8	52						1.4	18.6	75	71	38		8	21.5	-214		
9	51						1.4	17.5	75	73	40		9	21.8	-324		
10	51						1.4	16.6	75	71	37		10	21.3	-322		
11	53						1.4	16.7	75	72	39		11	21.3	-324		
12	57						1.4		75				12	22.1	-303		
13					41								13				
14					19								14				
15	50						1.4		75				15	21.3	-326		
16	50						1.3	16.9	75	73	39		16	21.1	-208		
17	45						1.3	18.3	75	72	34		17	21.2	-284		
18	35						1.3	18.3	73	73	84		18	21.5	-324		
19	41						1.4		75				19	21.5	-310		
20					73								20				
21					54								21				
22	40						1.4	17.1	75	74	36		22	21.5	-327		
23	42						1.4	17	75	74	39		23	21.7	-294		
24	40						1.4	17.3	75	74	45		24	21.8	-300		
25	40						1.4	16.8	75	74	39		25	21.8	-290		
26	40						1.4		76				26	21.5	-321		
27					64								27				
28					49								28				
29	40						1.4	17.3	75	72	35		29	21.1	-327		
30	43						1.4	17.4	75	75	39		30	21	-327		
													31				
Avg.	46.091				53.875		1.3955	17.388	74.909	72.625	40.5		Avg.	21.673			
Max.	57				96		1.5	18.6	76	75	84		Max.	22.8			
Min.	35				19		1.3	16.6	73	69	33		Min.	21			
Data	0	22	0	0	0	8	0	22	16	22	16	16	0	0	Data	22	22

Send completed forms by the 28th of the month to:
 INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER QUALITY, DATA MANAGEMENT SECTION
 P.O. BOX 6015
 INDIANAPOLIS, INDIANA 46206-6015

Operation
for
Plant

Permit Number	For Month Of:	Year
District IN0055760	September	2008

(SIGNATURE OF CERTIFIED OPERATOR)	(DATE)
(SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT)	(DATE)

State Form 10829 (R/1-2005)

ORBAL #1		ORBAL #3					TOTAL RETURN SLUDGE				RETURN SLUDGE		Flow Volume					
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					
0.28		0.8	47	3680	128		1.581				0.844	2740	0.986					
0.29		0.8	52	3580	145		1.699				0.912	10220	1.065					
0.32		1.0	50	3260	153		1.437				0.675	7760	0.789					
0.32		0.9	51	3820	134	0.4	1.706				0.934	4880	1.132					
0.3		0.9	46	3960	116		1.691				0.966	5420	1.133					
							1.919				0.994		1.301					
							1.887				1.018		1.222					
0.34		1.7	51	3440	148		1.818				0.991	4180	1.24					
0.33		1.1	47	3340	141		1.805				1.005	2600	1.208					
0.31		1.9	40	4200	95		1.815				1	3580	1.24					
0.95		1.0	46	3660	126	0.2	1.823				1.007	3900	1.245					
0.98		0.1	58	3780	153		1.926				1.079	5680	1.287					
							1.855				0.954		1.237					
							1.781				0.927		1.143					
1.04		2.5	50	3440	145		1.501				0.704	3140	1.109					
1.02		1.9	54	2820	191		1.518				0.705	6080	1.1					
1.01		1.3	58	3620	160		1.489				0.686	3940	1.069					
1.03		1.3	54	3460	156	0.2	1.544				0.686	3660	1.113					
1		1.4	58	3440	169		1.647				0.834	5580	1.138					
							1.888				0.987		1.221					
							1.851				0.961		1.168					
1.05		1.3	53	3640	146		1.807				0.972	3680	1.221					
1.07		1.5	57	3460	165		1.79				0.968	5980	1.158					
1.05		1.9	50	3440	145	0.1	1.823				0.986	3160	1.179					
1		1.5	49	3400	144		1.797				0.979	3980	1.174					
1		1.4	58	3520	165		1.632				0.826	4340	1.102					
							1.919				1.008		1.168					
							1.76				0.911		1.065					
0.99		1.1	56	3680	152		1.733				0.926	3120	1.17					
0.99		1.1	59	3400	174		1.758				0.958	2840	1.081					
1		1.2873	52	3547	148	0.215	2				1	4566.4	1.1488					
1.07		2.52	59	4200	191	0.4	1.926				1.079	10220	1.301					
0.28		0.13	40	2820	95	0.13	1.437				0.675	2600	0.789					
22	0	22	22	22	22	4	30	0	0	0	30	22	30	0		0		0