



**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 Dist.			Permit Number IN 0055760		
Month May	Year 2007	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 6/30/2008	

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	Alum Gal	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	Tue		84					30	1.585	7.5	247	3265.1	248	3278.3	6.57	26.1	
2	Wed		71					35	1.579	7.5	255	3358.1	204	2686.4	6.11	24.6	
3	Thu		75					30	1.582	7.5	269	3549.2	228	3008.2	6.31	28.2	
4	Fri		73					20	1.576	7.5							
5	Sat							60	1.763								
6	Sun							35	1.525								
7	Mon		78					50	1.544	7.4							
8	Tue		79					40	1.548	7.5	248	3201.8	228	2943.6	6.67	25.6	
9	Wed		81	0.13				50	1.551	7.5	240	3104.5	224	2897.5	6.5	23.1	
10	Thu		83					50	1.522	7.5	228	2894.1	266	3376.5	6.6	26.9	
11	Fri		84					60	1.505	7.5							
12	Sat							65	1.694								
13	Sun							10	1.48								
14	Mon		84					50	1.537	7.5							
15	Tue		80	0.12				65	1.547	7.5	216	2786.8	272	3509.3	6.37	24.6	
16	Wed		62	0.01				40	1.587	7.5	275	3639.8	384	5082.5	11.35	29.4	
17	Thu		66	0.02				50	1.53	7.5	270	3445.3	286	3649.4	7.46	29.4	
18	Fri		67			X		50	1.59	7.5							
19	Sat							40	1.55								
20	Sun							40	1.521								
21	Mon		84					40	1.514	7.5							
22	Tue		87					35	1.519	7.5	259	3281.1	244	3091.1	6.98	26.7	
23	Wed		90					35	1.515	7.5	241	3045.1	248	3133.5	6.8	26.4	
24	Thu		89					15	1.518	7.4	253	3203	254	3215.7	6.7	28.1	
25	Fri		84	0.1				15	1.638	7.5							
26	Sat			0.04				15	1.653								
27	Sun			0.14				15	1.564								
28	Mon		82					15	1.55	7.4							
29	Tue		89					45	1.553	7.4	278	3600.7	256	3315.7	7.23	28.6	
30	Wed		90					45	1.502	7.5	256	3206.8	212	2655.7	6.68	27.1	
31	Thu		85					55	1.521	7.5	229	2904.9	222	2816.1	6.55	29.9	
Average								38.71	1.5601		251	3232.4	252	3244	6.992	26.98	
Maximum				0.14				65	1.763	7.5	278	3639.8	384	5082.5	11.35	29.9	
Minimum								10	1.48	7.4	216	2786.8	204	2655.7	6.11	23.1	
No. of Data				7	0	1	0	31	0	31	23	15	15	15	15	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: IN 0055760
For Month Of: May
Year: 2007

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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	15.8	74	4280	173	0.2	68	4160	163	2.7	-270				1.331	10740			1	7.5
2	16	57	3760	152	0.2	56	3720	151	2.5	-288				1.32	10420			1	7.6
3	16	47	3580	131	0.2	46	3640	126	2.6	-406				1.395	8580			6.3	7.5
4	16	60			0.2	50			2.6	-416	0.84	#####	0.8	1.331					7.5
5														1.53					
6														1.343					
7	15	70			0.2	71			2.3	-426				1.328					7.5
8	16	71	4360	163	0.2	73	4180	175	2.4	-285				1.356	11040			1	7.5
9	17	65	4000	163	0.2	66	4000	165	2.7	-149				1.368	10300			1	7.5
10	17	64	4140	155	0.2	63	4220	149	2.7	-109				1.417	10420			1.5	7.5
11	17	66			0.2	66			2.9	-98	0.83	#####	0.4	1.324					7.5
12														1.537					
13														1.332					
14	16	70			0.2	68			2.6	-93				1.337					7.6
15	17	70	4060	172	0.2	64	4020	159	2.7	-62				1.355	9640			2	7.5
16	17	68	3880	175	0.2	62	3880	160	2.5	-54				1.342	10380			7.3	7.6
17	17	65	4000	163	0.2	60	3880	155	2.6	-48	0.69	#####	0.3	1.382	9700			1.5	7.5
18	16	71			0.2	68			2.6	-13				1.452					7.6
19														1.41					
20														1.405					
21	17	82			0.2	77			2.5	-116				1.344					7.6
22	17	70	4280	164	0.2	70	4280	164	2.5	-136				1.347	10180			3.1	7.6
23	18	67	4120	163	0.2	64	3980	161	2.5	-124				1.368	10880			5.2	7.6
24	18	66	3940	168	0.2	60	4120	146	2.7	-85				1.451	9540			1.5	7.6
25	18	67			0.2	66			2.3	-97	1.07	#####	0.4	1.579					7.6
26														1.445					
27														1.527					
28	18	78			0.2	79			2.5	-169				1.311					7.6
29	18	80	4500	178	0.2	76	4620	165	2.4	-176				1.382	11040			4.1	7.6
30	18	76	4240	179	0.2	75	4460	168	2.5	-154				1.268	11460			15.8	7.5
31	18	74	5320	139	0.2	71	4080	174	2.6	-141				1.095	10540			6.9	7.6
Avg.	16.9	69	4164	162	0.2	66	4083	159	2.561		1		0.463	1	10324			3	
Max.	18	82	5320	179	0.2	79	4620	175	2.9		1.07		0.77	1.579	11460			15.8	7.6
Min.	15	47	3580	131	0.2	46	3640	126	2.3		0.69		0.3	1.095	8580			1	7.5
Data	23	23	15	15	23	23	15	15	23	23	4	4	4	31	15	0	0	15	23

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

1. Faxed Bypass / Overflow Incident Report on 05/18/07. (Collection System Overflow) 2. Old RAS flow meter knocked out by power surge on 05/24/07. Repair on 05/30/07.

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

(SIGNATURE OF CERTIFIED OPERATOR)

(DATE)

Name of Facility Clay Township Regional Waste Dist.	Permit Number IN 0055760	For Month Of: May	Year 2007
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(SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT) (DATE)

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	1.567		8.8	0.24	3.25		42.499		3.4		44.46		1.31		17.13	
2	1.603		7.43	0.21	2.35		31.436		3.2		42.807		1.53		20.467	
3	1.584		8.32	0.2	1.92		25.379		3		39.655		1.3		17.184	
4	1.643		10.06													
5	1.777	1.62214				2.5067		33.105		3.2		42.307		1.38		18.26
6	1.562															
7	1.347		10.93													
8	1.285		8.85	0.21	3.24		34.744		3.6		38.604		0.75		8.0425	
9	1.365		8.09	0.2	2.38		27.11		2.8		31.895		0.8		9.1127	
10	1.331		8.08	0.19	1.97		21.881		5		55.536		0.94		10.441	
11	1.257		9.41													
12	1.467	1.37343				2.53		27.912		3.8		42.012		0.83		9.1987
13	1.322															
14	1.315		10.24													
15	1.409		8.46	0.21	2.41		28.337		1.6		18.813		0.74		8.701	
16	1.408		7.81	0.19	1.87		21.972		3		35.249		0.76		8.9298	
17	1.424		7.93	0.21	1.37		16.28		2.3		27.332		0.55		6.5358	
18	1.42		10.02													
19	1.462	1.39429				1.8833		22.196		2.3		27.131		0.6833		8.0555
20	1.473															
21	1.334		9.62													
22	1.369		8.64	0.28	2.56		29.246		3.6		41.127		0.42		4.7982	
23	1.408		7.95	0.28	1.9		22.325		3.6		42.299		0.52		6.1099	
24	1.472		8.36	0.34	1.63		20.023		2.9		35.623		0.44		5.4049	
25	1.624		8.91													
26	1.655	1.47643				2.03		23.864		3.3667		39.683		0.46		5.4377
27	1.591															
28	1.234		9.51													
29	1.192		8.67	0.29	2.56		25.465		3.2		31.831		0.522		5.1925	
30	1.179		8.14	0.27	1.85		18.202		2.4		23.613		0.678		6.6707	
31	1.28	1.31486	7.76	0.34	2.05	2.1533	21.897	21.855	2.2	2.6	23.5	26.315	1.13	0.7767	12.07	7.9778
Avg	1.43094		8.7822	0.244	2.2207		25.786		3.0533		35.49		0.826		9.786	
Max	1.777	1.62214	10.93	0.34	3.25	2.53	42.499	33.105	5	3.8	55.536	42.307	1.53	1.38	20.467	18.26
Min	1.179	1.31486	7.43	0.19	1.37	1.8833	16.28	21.855	1.6	2.3	18.813	26.315	0.42	0.46	4.7982	5.4377
Data	31	5	23	15	15	5	15	5	15	5	15	5	15	5	15	5

MONTHLY REMOVAL SUMMARY					Total Monthly Flow:
	BOD5	S.S.	Ammonia	Phosphorus	(million gallons) 44.359
Percent Removal	99	99	97	96.5	
Phosphorus limit would be 1 mg/l. (compliance achieved)					Percent Capacity (actual flow/design) 56%

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

(SIGNATURE OF CERTIFIED OPERATOR)

(Date)

Name of Facility: Clay Township Regi
Permit Number: IN 0055760
For Month Of: May
Year: 2007

(SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR
AUTHORIZED AGENT)

(Date)

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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	52													
2	45						1.1		74			37		
3							1		75					
4					41									
5					35									
6														
7	52						1.2		74					
8	53						1.2		75					
9	34						1.2		74			31		
10												25		
11	34				37							50		
12					30							6		
13														
14	51						1.2		74					
15	44						1.1		74					
16	48						1.1		74			13		
17												37		
18					45							19		
19					38							25		
20														
21	45						1.2		73					
22	50						1.1		73			19		
23	43						1.2		74			25		
24														
25					47							125		
26					30									
27														
28	51						1.3		74					
29	45													
30	44						1.3		74					
31														
Avg.	46.067				37.875		1.1692		74			34.333		
Max.	53				47		1.3		75			125		
Min.	34				30		1		73			6		
Data	0	15	0	0	0	8	0	13	0	13	0	12	0	0

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

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

(SIGNATURE OF CERTIFIED OPERATOR)

Name of Facility: Clay Township Regional Waste Dist. Permit Number: IN 005760 For Month Of: May Year: 2007

(SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT)

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Day Of Month	Temperature in Reactors	Orbal #1			Orbal #3					RETURN SLUDGE				Flow Vol.			
		ORP mV	Dissolved Oxygen - mg/L	OUR gm/L/Min	Settleable Solids % in 30 Minutes	Susp. Solids - mg/L	Sludge Vol. Index - mg/gm	Dissolved Oxygen - mg/L	OUR gm/L/min	Volume - MG	Susp. Solids - mg/L	Orbal Influent Flow - MGD					
1	16	24	0.2		66	3760	176	1.3					0.792	5060	0.745		
2	17	24	0.2		56	3660	153	1.3					0.778	6260	0.634		
3	16	24	0.2		46	3340	138	1.3					0.79	4960	0.661		
4	16	20	0.1		59			1.4	0.77				0.729		0.662		
5													0.856		0.825		
6													0.758		0.773		
7	15	44	0.2		72			1.4					0.811		0.766		
8	16	38	0.2		71	3780	188	1.3					0.828	6940	0.723		
9	17	40	0.2		70	3280	213	1.3					0.825	7020	0.691		
10	17	37	0.2		70	3840	182	1.4					0.833	6760	0.713		
11	18	34	0.2		71			1.4	0.86				0.802		0.656		
12													0.889		0.757		
13													0.763		0.646		
14	16	135	0.2		73			1.4					0.818		0.694		
15	17	121	0.2		72	3720	194	1.4					0.816	5860	0.682		
16	18	67	0.2		66	3680	179	1.3					0.809	2880	0.681		
17	17	39	0.2		65	3740	174	1.4	0.62				0.799	4440	0.667		
18	16	72	0.2		71			1.4					0.847		0.702		
19													0.817		0.685		
20													0.816		0.676		
21	17	182	0.2		79			1.3					0.832		0.71		
22	18	167	0.2		73	3980	183	1.3					0.829	5320	0.755		
23	18	161	0.2		63	3860	163	1.3					0.836	4740	0.779		
24	18	150	0.2		64	3700	173	1.4					0.869	5780	0.749		
25	19	110	0.2		67			1.3	0.90				0.892		0.769		
26													0.874		0.753		
27													0.922		0.795		
28	18	145	0.2		79			1.4					0.794		0.685		
29	19	135	0.2		76	4320	176	1.4					0.847	4340	0.73		
30	19	181	0.2		74	3980	186	1.4					0.753	7020	0.723		
31	19	153	0.2		72	3740	193	1.3					0.513	5320	0.658		
Avg.	17.261	91	0		68.478	3759	178	1	0.7875				0.81	5513.3	0.7144		
Max.	19	182	0.2		79	4320	213.41	1	0.9				0.922	7020	0.825		
Min.	15	20	0.1		46	3280	137.72	1	0.62				0.513	2880	0.634		
Data	23	23	23	0	23	15	15	23	4	0	0	0	0	31	15	31	0