



**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 March	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	Thu		50	0.09				50	2.427	7.6	452	9149	198	4007.8	6.54	12.7	
2	Fri		40	0.06				25	2.194	7.6							
3	Sat							50	2.122								
4	Sun							35	1.857								
5	Mon		40					40	1.763	7.6							
6	Tue		39					45	1.868	7.6	125	1947.4	248	3863.6	6.61	21.7	
7	Wed		40					40	1.849	7.6	104	1603.7	92	1418.7	5.02	16.5	
8	Thu		40					60	1.916	7.6	220	3515.5	230	3675.3	8.41	22.9	
9	Fri		60					40	1.953	7.6							
10	Sat							30	1.844								
11	Sun							25	1.703								
12	Mon		64					45	1.765	7.5							
13	Tue		75					45	1.733	7.5	251	3627.8	192	2775	6.87	22.7	
14	Wed		72	1.25				55	2.38	7.6	154	3056.8	252	5002	6.56	20.1	
15	Thu		46	1.34		X		55	2.9	7.6	137	3313.5	220	5320.9	9.47	11.4	
16	Fri		45					45	2.214	7.6							
17	Sat							55	1.99								
18	Sun							45	1.808								
19	Mon		51	0.36				60	1.982	7.6							
20	Tue		52					50	1.897	7.6	176	2784.5	192	3037.6	5.49	21.4	
21	Wed		70	0.01				55	1.799	7.6	130	1950.5	172	2580.6	5.36	22.1	
22	Thu		66	0.27				45	2.266	7.6	183	3458.4	278	5253.8	9.32	22.7	
23	Fri		71	1.7		X		40	3.166	7.6							
24	Sat			0.11				30	2.189								
25	Sun			0.01				20	1.763								
26	Mon		80					40	1.832	7.5							
27	Tue		76					50	1.633	7.6	178	2424.2	152	2070.1	5.1	21.4	
28	Wed		68	0.44				60	1.805	7.5	152	2288.2	188	2830.1	5.27	20.9	
29	Thu		67					60	1.691	7.5	201	2834.7	180	2538.5	5.12	21.3	
30	Fri		65					50	1.744	7.5							
31	Sat			0.29				75	1.76								
Average								45.806	1.99397		189	3227.2	200	3413.4	6.549	19.83	
Maximum								75	3.166	7.6	452	9149	278	5320.9	9.47	22.9	
Minimum								20	1.633	7.5	104	1603.7	92	1418.7	5.02	11.4	
No. of Data				12	0	2	0	31	0	31	22	13	13	13	13	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: March
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. Coil - colony/100 ml	pH
1	12	59	2660	222	0.1	53	3380	157	3.1	-212			1.818	9680				7.6	
2	11	57			0.1	60			2.6	-125			1.79					7.6	
3													1.85						
4													1.52						
5	11	69			0.1	72			4.0	-294			1.46					7.5	
6	11	59	3880	152	0.1	63	4100	154	3.0	-227			1.54	10580				7.5	
7	11	53	3680	144	0.1	57	3580	159	3.4	-268			1.55	8780				7.5	
8	11	55	3640	151	0.1	56	3740	150	2.4	-274	0.52	#####	0.4	1.64	4640			7.5	
9	12	62			0.1	62			2.1	-337			1.72					7.5	
10													1.58						
11													1.46						
12	13	72			0.1	71			2.0	-431			1.48					7.5	
13	13	77	3820	202	0.1	69	4280	161	2.2	-411	0.64	#####	0.5	1.52	10580			7.5	
14	14	64	3720	172	0.1	61	3620	169	2.1	-403			1.68	9800				7.5	
15	13	49	3400	144	0.3	57	3540	161	2.6	32			2.4	9000				7.5	
16	12	67			0.3	68			4.1	150			2.23					7.6	
17													2.09						
18													1.88						
19	12	57			0.1	60			3.3	-310			1.63					7.6	
20	12	55	3740	147	0.1	51	3660	139	2.6	-309			1.57	11040				7.6	
21	12	45	3560	126	0.1	43	3460	124	2.6	-291			1.46	10340				7.5	
22	13	46	3280	140	0.1	46	3280	140	2.4	-338	0.66	#####	0.3	1.74	9700			7.5	
23	13	49			0.1	39			2.1	-240			2.15					7.4	
24													1.79						
25													1.52						
26	14	58			0.1	53			5.2	-144			1.65					7.6	
27	14	61	4060	150	0.2	63	3980	158	3.6	-349			1.47	10940				7.5	
28	14	52	3920	133	0.2	50	3660	137	2.4	-341			1.56	10880				7.5	
29	14	45	3560	126	0.2	45	3420	132	2.6	-279			1.51	9660				7.5	
30	14	42			0.2	42			3.7	-264			1.63					7.5	
31													1.61						
Avg.	12.5	57	3609	155	0.136	56	3669	149	2.911		1	0.38	2	9663.1					
Max.	14	77	4060	222	0.3	72	4280	169	5.2		0.66	0.46	2.4	11040				7.6	
Min.	11	42	2660	126	0.1	39	3280	124	2		0.52	0.31	1.46	4640				7.4	
Data	22	22	13	13	22	22	13	13	22	22	3	3	3	31	13	0	0	0	22

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

1. Collection System Bypass / Overflow Incident Report faxed in on 03/15/07. 2. Collection System Bypass / Overflow Incident Report faxed in on 03/23/07. 3. Faxed noncompliance notification fax form on 04/02/07 for Phos. Violation. 4. Increased wasting and chemical feed to try and reduce phosphorus levels.

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

(SIGNATURE OF CERTIFIED OPERATOR)

(DATE)

Name of Facility	Permit Number	For Month Of:	Year
Clay Township Regional Waste Dist.	IN 0055760	March	2007

(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	2.352		8.29	0.5	2.02		39.647		5.7		111.88		0.1		1.9627	
2	2.173		8.38													
3	2.083															
4	1.806															
5	1.744		10.68													
6	1.745		10.63	1.78	1.81		26.357		4.2		61.161		0.1		1.4562	
7	1.82		9.22	1.52	2.18		33.11		5		75.94		0.1		1.5188	
8	1.919		8.36	2.89	1.9		30.427		4.5		72.063		0.1		1.6014	
9	1.929		8.35													
10	1.867	1.83286				1.9633		29.965		4.5667		69.721		0.1		1.5255
11	1.735															
12	1.742		10.21													
13	1.74		10.09	1.75	2.46		35.72		4.4		63.889		0.1		1.452	
14	2.421		8.9	1.87	4.67		94.349		15.8		319.21		0.278		5.6165	
15	2.916		8.4	0.52	1.12		27.254		3		73.002		0.1		2.4334	
16	2.127		8.24													
17	1.999	2.09714				2.75		52.441		7.7333		152.03		0.159333		3.1673
18	1.802															
19	2.003		10.39													
20	1.85		10.27	1.36	1.67		25.782		4		61.753		0.195		3.0105	
21	1.789		10.29	1.36	1.94		28.963		4.8		71.66		0.122		1.8214	
22	2.304		9.02	1.83	3.28		63.064		7.8		149.97		0.334		6.4218	
23	3.052		8.66													
24	2.111	2.13014				2.2967		39.27		5.5333		94.461		0.217		3.7512
25	1.715															
26	1.79		9.84													
27	1.542		10.54	0.92	2.58		33.199		3.4		43.751		0.135		1.7372	
28	1.756		9.86	0.54	1.79		26.23		3.4		49.823		0.1		1.4654	
29	1.61		8.82	0.65	2.08		27.946		2.9		38.963		0.1		1.3435	
30	1.629		9.16													
31	1.74	1.68314				2.15		29.125		3.2333		44.179		0.111667		1.5154
Avg	1.96165		9.3909	1.3454	2.2692		37.85		5.3		91.774		0.1434		2.4493	
Max	3.052	2.13014	10.68	2.89	4.67	2.75	94.349	52.441	15.8	7.7333	319.21	152.03	0.334	0.217	6.4218	3.7512
Min	1.542	1.68314	8.24	0.5	1.12	1.9633	25.782	29.125	2.9	3.2333	38.963	44.179	0.1	0.1	1.3435	1.5154
Data	31	4	22	13	13	4	13	4	13	4	13	4	13	4	13	4

MONTHLY REMOVAL SUMMARY					Total Monthly Flow:
	BOD5	S.S.	Ammonia	Phosphorus	(million gallons) 60.811
Percent Removal	99	97	99	79.5	
	Phosphorus limit would be 1 mg/l. (compliance not achieved)				Percent Capacity
					(actual flow/design) 77%

**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: March
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	41						1.09		76					
2							75							
3							20							
4														
5	41						1.12		76					
6	42						1.27		76					
7	29						1		75					
8							42	1.04	75					
9							16							
10														
11														
12	44						1.23		76					
13	47						0.67		71					
14	44						0.97		79		19			
15	20						0.98		74		94			
16	51						99	1.2	74		50			
17							33							
18														
19	50						0.81		73					
20	50						1.2		74					
21	45						1.1		75					
22							39				19			
23	41										43			
24														
25														
26							80				75			
27	56						1.2		73					
28	43						1.2		73		56			
29	50						1.1		72		87			
30														
31							60							
Avg.	43.375						51.556	1.0738	74.5		55.375			
Max.	56						99	1.27	79		94			
Min.	20						16	0.67	71		19			
Data	0	16	0	0	0	0	9	16	0	16	0	8	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**

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

(SIGNATURE OF CERTIFIED OPERATOR) (DATE)

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

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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 Rate - MGD					
1	12	44	0.2		52	3220	161	6.7				1.04	4960	1.214			
2	11	187	0.2		50			7.4				1.03		1.176			
3												1.12		1.186			
4												0.86		1.013			
5	10	158	0.1		66			4.3				0.90		0.968			
6	10	196	0.1		58	3520	165	2.7				0.95	4260	1.037			
7	11	208	0.1		54	3460	156	2.6				0.94	4900	0.996			
8	11	213	0.1		56	3020	185	4.7	0.11			0.97	9240	1.05			
9	11	92	0.1		51			3.6				1.04		1.096			
10												0.94		1.014			
11												0.85		0.906			
12	13	97	0.1		70			1.4				0.93		0.954			
13	13	54	0.1		46	4180	110	1.5	0.27			0.97	5940	0.875			
14	14	40	0.1		62	3600	172	1.9				0.91	4560	1.216			
15	13	35	0.1		43	2980	144	1.8				1.28	6440	1.45			
16	11	124	0.1		57			5.0				1.23		1.365			
17												1.05		1.262			
18												0.94		1.146			
19	11	30	0.1		66			1.2				1.00		1.137			
20	12	106	0.1		64	3560	180	1.2				0.97	3820	1.062			
21	12	117	0.1		42	3400	124	1.2				0.91	1520	0.966			
22	13	237	0.1		46	3260	141	1.2	0.49			0.94	2200	1.162			
23	14	244	0.1		37			1.5				0.99		1.27			
24												0.91		1.061			
25												0.81		0.823			
26	14	49	0.1		55			1.2				0.94		0.95			
27	15	40	0.1		63	3780	167	1.4				0.92	2220	0.832			
28	15	62	0.1		55	3660	150	1.3				0.93	2020	0.896			
29	14	125	0.1		47	3460	136	1.4				0.94	4280	0.894			
30	14	134	0.1		41			1.5				0.97		0.944			
31												0.93		0.831			
Avg.	12.455	118	0		54	3469	153	2.5768	0			1	4335.4	1.0565			
Max.	15	244	0.2		70	4180	185	7.39	0.49			1.28	9240	1.45			
Min.	10	30	0.1		37	2980	110	1.2	0.11			0.81	1520	0.823			
Data	22	22	22	0	22	13	13	22	3	0	0	0	31	13	31	0	0