



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 October	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
1	Mon		81					40	1.487	7.4	134	1661.8	332	4117.3	7.43	30.3
2	Tue		84					40	1.486	7.4	81	1003.9	240	2974.4	6.93	29
3	Wed		74	0.3				30	1.281	7.5	297	3173	342	3653.8	7.27	28.6
4	Thu		86	0.01				50	1.78	7.5	263	3904.3	244	3622.2	6.33	30.4
5	Fri		84					60	1.608	7.5	248	3325.9	320	4291.4	10.87	25.4
6	Sat							40	1.488							
7	Sun							30	1.475							
8	Mon		89					40	1.495	7.5	305	3802.8	340	4239.2	7.45	27.3
9	Tue		78	0.04				40	1.468	7.5	314	3844.3	336	4113.7	9.42	27.3
10	Wed		63					40	1.538	7.5	420	5387.3	656	8414.5	11.36	29.1
11	Thu		61					10	1.502	7.4	281	3520	384	4810.2	7.96	30.9
12	Fri		61					50	1.505	7.6	179	2246.8	156	1958.1	6.02	27.9
13	Sat							40	1.484							
14	Sun							40	1.491							
15	Mon		80					50	1.585	7.5	467	6173.2	506	6688.8	12.32	27.6
16	Tue		73	0.25				30	1.553	7.5	397	5142	620	8030.3	12.99	27.3
17	Wed		74	0.04				60	1.584	7.5	256	3381.9	298	3936.7	6.81	25.7
18	Thu		74	0.87				60	1.643	7.4	244	3343.4	332	4549.3	6.21	25.1
19	Fri		64					70	1.63	7.5	363	4934.7	622	8455.6	10.39	23.6
20	Sat							30	1.632							
21	Sun							40	1.675							
22	Mon		62	0.84				40	1.763	7.5	260	3822.9	390	5734.3	7.74	23.3
23	Tue		62	0.43				40	1.814	7.5	281	4251.2	324	4901.7	7.07	25.8
24	Wed		59					40	1.758	7.5	209	3064.3	208	3049.6	5.96	18.5
25	Thu		57					50	1.759	7.5	205	3007.4	290	4254.3	6.83	26
26	Fri		56	0.08				65	1.709	7.5	319	4546.7	406	5786.7	6.59	26
27	Sat			0.01				45	1.708							
28	Sun							50	1.718							
29	Mon		62					30	1.701	7.5	286	4057.3	386	5475.9	9.69	27.4
30	Tue		66					50	1.674	7.5	277	3867.2	472	6589.7	11.88	27.2
31	Wed		68					40	1.651	7.6	236	3249.6	224	3084.3	7.7	27.3
Average								43.226	1.60145		275	3683.1	366	4901.4	8.401	26.83
Maximum								70	1.814	7.6	467	6173.2	656	8455.6	12.99	30.9
Minimum								10	1.281	7.4	81	1003.9	156	1958.1	5.96	18.5
No. of Data				10	0	0	0	31	0	31	23	23	23	23	23	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**

(SIGNATURE OF CERTIFIED OPERATOR) (DATE)

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

Name of Facility: Clay Township Regional Waste Disposal
 Permit Number: IN 0055760
 For Month Of: October
 Year: 2007

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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. Coli - colony/100 ml	pH
1	21.1	81	4280	189	0.1	80	4360	183	2.2	-198			1.315	11920			12	7.7	
2	21.1	69	4020	172	0.1	71	4140	171	3.1	-134			1.384	11440			1	7.6	
3	21.4	71	4240	167	0.1	71	4060	175	2.6	-150			1.324	11160			2	7.6	
4	21.5	65	4060	160	0.1	67	3980	168	3.1	-92			1.381	10840			1	7.6	
5	21.8	75	4060	185	0.1	75	4100	183	2.9	-113			1.429	10620			2.6	7.6	
6													1.384						
7											1.13	0.2	1.631						
8	22.5	72	4080	176	0.1	69	4320	160	1.9	-248			1.32	11420			1	7.6	
9	22.1	72	4000	180	0.1	70	3960	177	2.3	-197			1.305	10920			8.6	7.6	
10	21.3	72	3800	189	0.1	75	3800	197	1.8	-146			1.324	10180			10.9	7.6	
11	20.3	73	3760	194	0.1	72	3660	197	2.5	-82			1.397	9520			6.1	7.7	
12	20.1	74	3840	193	0.1	74	3780	196	3.1	-78			1.139	10200			2	7.7	
13													1.329						
14											0.89	0.3	1.352						
15	20.4	82	4260	192	0.1	81	4080	199	2.5	-201			1.376	10920			9.6	7.7	
16	21.1	79	4100	193	0.1	79	4000	198	2.3	-148			1.312	10420			18.1	7.6	
17	20.8	76	3860	197	0.1	78	3800	205	2.0	-163			1.381	10480			30.1	7.7	
18	21.1	68	3700	184	0.1	70	3700	189	1.7	-119			1.471	9960			18.3	7.6	
19	21.1	73	3540	206	0.1	74	3620	204	2.4	-88	0.76	#####	0.2	1.425	12520			2.6	7.6
20													1.399						
21													1.491						
22	20.3	82	4280	192	0.1	83	4200	198	2.3	-158			1.467	10020			1	7.7	
23	20.3	77	3920	196	0.1	77	3980	193	1.6	-84			1.421	9980			39.7	7.7	
24	19.9	65	4000	163	0.1	53	4300	123	3.3	-36			1.373	9680			8.3	7.6	
25	19.3	76	3820	199	0.1	78	3680	212	3.3	-34	0.67	#####	0.2	1.457	9720			8.4	7.7
26	19.4	75	3880	193	0.1	80	3780	212	3.3	-27			1.481	9940			3.6	7.7	
27													1.412						
28													1.406						
29	19.3	83	4060	204	0.1	83	3920	212	2.2	-89			1.296	9660			1	7.6	
30	19.2	81	4040	200	0.1	80	3820	209	2.9	-61			1.296	9920			6.3	7.6	
31	19.5	80	4040	198	0.1	79	3940	201	2.6	-65			1.326	9820			18.5	7.7	
Avg.	20.6	75	3984	188	0.078	75	3956	190	2.507		1	0.233	1	10489.6			5		
Max.	22.5	83	4280	206	0.1	83	4360	212	3.3		1.13	0.26	1.631	12520			39.7	7.7	
Min.	19.2	65	3540	160	0.05	53	3620	123	1.62		0.67	0.22	1.139	9520			1	7.6	
Data	23	23	23	23	23	23	23	23	23	23	4	2	4	31	23	0	0	23	23

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 Dist.	Permit Number IN 0055760	For Month Of October	Year 2007
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(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	1.406		8.21	0.24	0.45		5.2799		2		23.466		0.218		2.5578	
2	1.431		7.7	0.2	0.41		4.8961		1.9		22.689		0.303		3.6183	
3	1.413		7.97	0.23	1.57		18.513		2.5		29.479		0.356		4.1978	
4	1.444		7.89	0.25	1.85		22.293		2.4		28.92		0.308		3.7115	
5	1.484		8.25	0.34	2.94		36.409		3.1		38.39		0.182		2.2539	
6	1.384	1.42129				1.444		17.478		2.38		28.589		0.2734		3.2679
7	1.359															
8	1.382		8.38	0.33	3.57		41.172		4		46.131		0.253		2.9178	
9	1.376		8.93	0.25	1.89		21.702		2.6		29.855		0.289		3.3185	
10	1.458		7.84	0.26	1.95		23.726		2.6		31.634		0.25		3.0418	
11	1.464		8.01	0.22	2.09		25.534		2.4		29.321		0.11		1.3439	
12	1.436		8.03	0.28	2.21		26.483		4		47.934		0.0603		0.7226	
13	1.386	1.40871				2.342		27.723		3.12		36.975		0.1925		2.2689
14	1.43															
15	1.441		8.81	0.31	4.73		56.879		5.2		62.531		0.311		3.7398	
16	1.474		8.3	0.22	1.97		24.232		3.6		44.282		0.427		5.2523	
17	1.52		8.33	0.27	1.42		18.012		3		38.053		0.54		6.8496	
18	1.615		8.1	0.26	2.91		39.219		7.2		97.036		0.37		4.9866	
19	1.596		8.15	0.36	2.82		37.559		8.4		111.88		0.205		2.7303	
20	1.588	1.52343				2.77		35.18		5.48		70.756		0.3706		4.7117
21	1.521															
22	1.555		8.3	0.46	5.85		75.912		6.9		89.538		0.143		1.8556	
23	1.573		8.17	0.29	2.15		28.222		4.4		57.757		0.19		2.4941	
24	1.526		8.47	0.47	2.22		28.271		6.6		84.048		0.032		0.4075	
25	1.504		8.17	0.42	2.97		37.276		7.8		97.897		0.01		0.1255	
26	1.523		8.17	0.86	2.27		28.85		3.9		49.567		0.0248		0.3152	
27	1.528	1.53286				3.092		39.706		5.92		75.761		0.08		1.0396
28	1.537															
29	1.447		8.46	0.87	4.27		51.561		6.4		77.281		0.0285		0.3441	
30	1.446		7.93	1.14	2.23		26.909		4.2		50.681		0.182		2.1962	
31	1.405	1.49814	8.34	2.14	2.21	2.868	25.912	35.422	5.9	5.42	69.176	66.621	0.489	0.3715	5.7334	4.5978
Avg	1.47265		8.2135	0.4639	2.4761		30.644		4.3913		54.676		0.2296		2.8137	
Max	1.615	1.53286	8.93	2.14	5.85	3.092	75.912	39.706	8.4	5.92	111.88	75.761	0.54	0.3715	6.8496	4.7117
Min	1.359	1.40871	7.7	0.2	0.41	1.444	4.8961	17.478	1.9	2.38	22.689	28.589	0.01	0.08	0.1255	1.0396
Data	31	5	23	23	23	5	23	5	23	5	23	5	23	5	23	5

MONTHLY REMOVAL SUMMARY					Total Monthly Flow:
	BOD5	S.S.	Ammonia	Phosphorus	(million gallons) 45.652
Percent Removal	99	99	99	94.5	
Phosphorus limit would be 1 mg/l. (compliance achieved)					Percent Capacity (actual flow/design) 58%

**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: October
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	63						1.3		72		256			
2							1.2		73		59			
3	61						1.2		73					
4	34						1.2		73		93			
5					64		1.2		73					
6					13									
7														
8	58						1.2		73					
9	63						1.3		86					
10	47						1.1		72					
11														
12					47									
13					45									
14														
15	117						1.2		72					
16	5						1.2		72					
17	51						1.2		73					
18														
19					45									
20					44									
21														
22	67						1.2		72					
23	67						1.1		72					
24	35						1.1		72					
25														
26					34									
27					20									
28														
29	62						1.1		72					
30	60				55		1.1		72					
31	45				27		1.1		72					
Avg.	55.667				39.4		1.1765		73.176		136			
Max.	117				64		1.3		86		256			
Min.	5				13		1.1		72		59			
Data	0	15	0	0	0	10	0	17	0	17	0	3	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: October 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	20.6	-267	0.08		78	4140	188	1.0						0.822	3760	0.754	
2	20.7	-262	0.07		73	3920	186	1.0						0.814	3720	0.874	
3	21.2	-88	0.07		70	3920	179	1.0						0.823	5960	0.871	
4	21.4	-8	0.09		65	3740	174	1.0						0.827	5840	0.863	
5	21.9	-84	0.08		69	3920	176	1.0						0.867	2240	0.965	
6														0.818		0.929	
7									1.04					0.791		0.896	
8	22.4	-63	0.07		70	4060	172	1.1						0.823	5900	0.852	
9	22.1	-236	0.07		69	3760	184	1.0						0.828	5500	0.844	
10	20.5	-224	0.08		76	3680	207	1.0						0.811	5540	0.839	
11	19	-201	0.08		75	3580	209	1.0						0.827	3240	0.89	
12	19.8	-174	0.06		76	3840	198	1.0						0.572	2680	0.798	
13														0.769		0.779	
14									0.67					0.778		0.862	
15	19.7	-270	0.25		84	3960	212	0.9						0.845	2960	0.968	
16	19.8	-200	0.08		82	3980	206	1.0						0.8	4380	0.974	
17	20.3	-303	0.07		76	3580	212	1.0						0.851	3600	1.022	
18	20.8	-214	0.07		69	3380	204	0.9						0.843	4760	1.079	
19	20.9	-249	0.08		72	3420	211	1.0	0.48					0.809	4920	1.05	
20														0.779		1.017	
21														0.846		1.096	
22	19.7	-287	0.07		85	3900	218	1.1						0.827	6180	1.163	
23	19.7	-307	0.08		81	3760	215	1.0						0.831	4800	1.139	
24	19.1	-296	0.06		62	5660	110	1.1						0.772	5680	1.143	
25	17.8	-286	0.07		77	3660	210	1.1	0.19					0.805	2960	1.143	
26	18.54	-291	0.08		78	5180	151	1.0						0.816	4300	1.11	
27														0.767		1.11	
28														0.754		1.117	
29	18.2	-28	0.07		85	3880	219	1.0						0.732	7640	1.106	
30	18.2	-126	0.08		83	3640	228	1.0						0.744	3500	1.088	
31		60	0.07		81	3560	228	0.9						0.771	6260	1.073	
Avg.	20.106		0		75.478	3918	195	1	0.595					0.80	4622.6	0.9811	
Max.	22.4		0.25		85	5660	228.02	1	1.04					0.867	7640	1.163	
Min.	17.8		0.06		62	3380	109.54	1	0.19					0.572	2240	0.754	
Data	22	23	23	0	23	23	23	23	4	0	0	0	0	31	23	31	0