









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

State Form 53341 (R / 11-08)

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

Signature of Certified Operator \_\_\_\_\_ Date (month, day, year) \_\_\_\_\_

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

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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								0.1	0.714				0.52		0.518				
2	11.8	-329	0.25	1.6	49	3460	142		0.718				0.6	3500	0.58				
3	11.4	-328	0.25	0.9	49	3440	142		0.759				0.61	2560	0.57				
4	10	-152	0.3	4.9	58	3960	146		0.719				0.59	6200	0.331				
5	9.7	-127	0.3	4.1	55	3840	143		0.726				0.57	3780	0.583				
6	10.1	-251	0.26	3.7	65	3380	192		0.704				0.6	4740	0.562				
7									0.852				0.56		0.669				
8								0.1	0.814				0.57		0.641				
9	12.4			3.2	45	3420	132		0.812				0.55	3700	0.709				
10	12.6			3.0	48	3640	132		0.769				0.6	8840	0.679				
11	13.7	-107	0.35	3.9	38	4440	86		1.77				0.62	3340	0.702				
12	11.9	-124	4.51	6.1	25	2180	115		0.989				0.59	5820	0.626				
13	11.4	-234	0.34	7.6	52	3500	149		0.882				0.6	6120	0.449				
14									0.901				0.58		0.366				
15								0.1	0.847				0.55		0.308				
16	10.6	-332	0.27	7.3	62	3540	175		0.675				0.47	2900	0.239				
17	10.8	-332	0.26	7.2	49	3460	142		0.769				0.54	2400	0.267				
18	11	-321	0.26	6.7	48	3060	157		0.764				0.63	6020	0.435				
19	10.9	-139	0.27	7.1	56	3660	153		0.768				0.65	5500	0.509				
20	10.1	-297	0.26	7.6	64	3940	162		0.714				0.63	3940	0.497				
21									0.876				0.62		0.562				
22								0.1	0.724				0.52		0.437				
23	10.2	-216	0.25	7.1	64	5000	128		0.731				0.58	3900	0.478				
24	10.9	-211	0.25	6.6	73	4220	173		0.73				0.58	4080	0.467				
25	11.4	-79	0.25	6.1	70	4260	164		0.731				0.59	3920	0.479				
26	12.7	-296	0.25	5.1	63	4060	155		0.731				0.6	4600	0.484				
27	12	-294	0.26	1.0	72	4180	172		0.839				0.65	7660	0.55				
28									0.851				0.58		0.534				
29																			
30																			
31																			
Avg.	11.28		1	5.0475	55	3732	148	0.0775	1				1	4676	0.5083				
Max.	13.7		4.51	7.64	73	5000	192	0.11	1.77				0.65	8840	0.709				
Min.	9.7		0.25	0.93	25	2180	86	0.05	0.675				0.47	2400	0.239				
Data	20	18	18	0	20	20	20	20	4	28	0	0	0	28	20	28	0	0	0

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