

**City of Logan  
Monthly Operational Report  
WASTEWATER TREATMENT FACILITY**

Jim Harps                      Permits & Analysis Manager

**April                      2010**

Name		Title					Month		Year																								
Date	Lagoons - Hdworks Influent		Lagoons - Eff		Wetlands - 002 Effluent		Depth of Water in Cells (ft)							Analytical Results - Wetlands - 002							001A				001B								
	Rate (MGD)	TEMP (°F)	Rate (MGD)	Rate (MGD)	Rate (MGD)	TEMP (°F)	A1	A2	B1	B2	C	D	E	BOD <sub>5</sub> (mg/L)	TSS (mg/L)	pH	Copper (ug/L)	Lead (ug/L)	DO (mg/L)	NH <sub>3</sub> (mg/L)	Total P (mg/L)	O & G (mg/L)	BOD <sub>5</sub> (mg/L)	TSS (mg/L)	pH	E-Coli		BOD <sub>5</sub> (mg/L)	TSS (mg/L)	pH	E-Coli		
																											Eff No./100 mL						
1	11.2	53.7	6.17	ND	9.1	41.5	6.0	6.0	6.7	6.7	5.9	6.9	5.9			8.8			7.4							8.3			0	0	0.0	0	
2	10.8	54.7	6.12	ND	9.2	44.9	6.0	6.0	6.7	6.7	5.9	6.9	5.9			8.6			7.1							8.4			0	0	0.0	0	
3	11.3	53.5	6.34	ND	9.3	44.4	6.0	6.0	6.7	6.7	5.9	6.9	5.9			8.9			14.2							8.5			0	0	0.0	0	
4	10.2	53.9	6.33	ND	8.5	44.2	6.0	6.0	6.7	6.7	5.9	6.9	5.9			8.5			12.3							8.7			0	0	0.0	0	
5	11.5	54.3	6.57	ND	8.2	46.8	6.0	6.0	6.7	6.7	5.9	6.9	5.9			8.9			14.2							8.6			0	0	0.0	0	
6	13.3	53.5	7.14	ND	8.4	44.9	6.0	6.0	6.7	6.7	5.9	6.9	5.9			8.7			12.6							8.5			0	0	0.0	0	
7	12.5	53.3	7.13	ND	8.4	43.5	6.0	6.0	6.7	6.7	5.9	6.9	5.9	15.0	22.0	8.2	4.2	0.25	7.7	2.7	2.6			27	37	8.5	1, 1	0	0	0.0	0		
8	12.4	55.4	7.40	ND	8.8	50.9	6.0	6.0	6.7	6.7	5.9	6.9	5.9			8.5			14.8							8.7			0	0	0.0	0	
9	11.7	54.6	8.83	ND	13.1	48.2	6.0	6.0	6.7	6.7	5.9	6.9	5.9			8.2			11.3							8.5			0	0	0.0	0	
10	11.3	54.1	8.30	ND	13.9	49.1	6.0	6.0	6.7	6.7	5.9	6.9	5.9			8.4			11.2							8.7			0	0	0.0	0	
11	10.9	55.1	8.98	ND	13.7	51.5	6.0	6.0	6.7	6.7	5.9	6.9	5.9			8.2			10.1							8.8			0	0	0.0	0	
12	11.7	57.0	11.00	ND	13.2	51.7	6.0	6.0	6.7	6.7	5.9	6.9	5.9			8.1			8.3							8.7			0	0	0.0	0	
13	11.4	55.5	9.58	ND	11.7	51.3	6.0	6.0	6.7	6.7	5.9	6.9	5.9			7.9			7.2							8.7			0	0	0.0	0	
14	11.4	54.2	10.05	ND	11.5	48.8	6.0	6.0	6.7	6.7	5.9	6.9	5.9	6.0	17.0	7.9			8.8	5.5	3.4			13	26	8.5	1, 1	0	0	0.0	0		
15	11.2	55.5	10.01	ND	10.5	76.7	6.0	6.0	6.7	6.7	5.9	6.9	5.9			9.0			6.9							8.7			0	0	0.0	0	
16	11.4	56.2	9.84	ND	10.3	60.3	6.0	6.0	6.7	6.7	5.9	6.9	5.9			8.1			8.4							8.8			0	0	0.0	0	
17	10.7	57.1	9.46	ND	12.5	57.7	6.0	6.0	6.7	6.7	5.9	6.9	5.9			7.7			7.7							8.7			0	0	0.0	0	
18	10.3	55.6	9.30	ND	14.1	61.9	6.0	6.0	6.7	6.7	5.9	6.9	5.9			8.0			8.2							8.7			0	0	0.0	0	
19	10.8	56.7	9.16	ND	12.2	64.6	6.0	6.0	6.7	6.7	5.9	6.9	5.9			8.1			8.6							8.8			0	0	0.0	0	
20	10.8	57.1	9.49	ND	13.5	64.9	6.0	6.0	6.7	6.7	5.9	6.9	5.9			8.8			14.2							8.7			0	0	0.0	0	
21	10.9	56.5	8.80	ND	13.8	59.6	6.0	6.0	6.7	6.7	5.9	6.9	5.9	13.0	41.0	8.2			7.1	0.2	3.0				21	8.6	2, 2	0	0	0.0	0		
22	10.8	56.6	10.25	ND	13.7	58.3	6.0	6.0	6.7	6.7	5.9	6.9	5.9			8.8			10.2							8.6			0	0	0.0	0	
23	10.9	56.3	12.20	ND	13.8	54.0	6.0	6.0	6.7	6.7	5.9	6.9	5.9			8.7			8.9							8.6			0	0	0.0	0	
24	10.2	57.0	8.37	ND	13.6	54.9	6.0	6.0	6.7	6.7	5.9	6.9	5.9			8.0			8.2							8.7			0	0	0.0	0	
25	9.8	54.3	8.16	ND	13.3	56.6	6.0	6.0	6.7	6.7	5.9	6.9	5.9			8.3			5.1							8.8			0	0	0.0	0	
26	10.4	57.7	8.11	ND	12.9	65.0	6.0	6.0	6.7	6.7	5.9	6.9	5.9			9.0			9.4							8.9			0	0	0.0	0	
27	10.7	57.0	7.95	ND	12.7	59.5	6.0	6.0	6.7	6.7	5.9	6.9	5.9			8.7			9.1							8.2			0	0	0.0	0	
28	10.6	56.1	8.20	ND	12.5	51.6	6.0	6.0	6.7	6.7	5.9	6.9	5.9	10.0	13.0	8.1			8.3	1.1	2.8			12	12	8.9	15, 16	0	0	0.0	0		
29	10.7	57.5	8.14	ND	12.6	49.8	6.0	6.0	6.7	6.7	5.9	6.9	5.9			8.3			8.8							9.0			0	0	0.0	0	
30	10.3	57.3	7.88	ND	14.1	52.3	6.0	6.0	6.7	6.7	5.9	6.9	5.9			8.5			6.3							9.0			0	0	0.0	0	
31							6.0	6.0	6.7	6.7	5.9	6.9	5.9																				
Ave	11.1	55.6	8.5	ND	11.8	53.6	6.0	6.0	6.7	6.7	5.9	6.9	5.9	11.0	23.3	8.4	4.2	0.3	9.4	2.4	3.0	0.0		17.3	24.0	8.7	2.4					30 D GM	
Max	13.3	57.7	12.2	ND	14.1	76.7	6.0	6.0	6.7	6.7	5.9	6.9	5.9	15.0	41.0	9.0	4.2	0.3	14.8	5.5	3.4	0.0		27.0	37.0	9.0	15.5					7 D GM Max	
Min	9.8	53.3	6.1	ND	8.2	41.5	6.0	6.0	6.7	6.7	5.9	6.9	5.9	6.0	13.0	7.7	4.2	0.3	5.1	0.2	2.6	0.0		12.0	12.0	8.2							

ND = No Discharge

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May      2010

Name		Title		Month		Year																											
Date	Lagoons - Hdworks Influent		Lagoons - Eff		Wetlands - 002 Effluent		Depth of Water in Cells (ft)							Analytical Results - Wetlands - 002							001A				001B								
	Rate (MGD)	TEMP (°F)	Rate (MGD)	Rate (MGD)	Rate (MGD)	TEMP (°F)	A1	A2	B1	B2	C	D	E	BOD <sub>5</sub> (mg/L)	TSS (mg/L)	pH	Copper (ug/L)	Lead (ug/L)	DO (mg/L)	NH <sub>3</sub> (mg/L)	Total P (mg/L)	O & G (mg/L)	BOD <sub>5</sub> (mg/L)	TSS (mg/L)	pH	E-Coli		BOD <sub>5</sub> (mg/L)	TSS (mg/L)	pH	E-Coli		
1	10.4	59.5	7.79	ND	14.0	48.3	6.0	6.0	6.7	6.7	5.9	6.9	5.9			8.6			8.0						8.6			ND	ND	ND	ND		
2	10.6	56.9	7.80	ND	13.8	52.5	6.0	6.0	6.7	6.7	5.9	6.9	5.9			8.8			8.9						8.8			ND	ND	ND	ND		
3	11.1	58.2	7.70	ND	13.4	54.8	6.0	6.0	6.7	6.7	5.9	6.9	5.9			8.7			12.8						8.5			ND	ND	ND	ND		
4	10.8	58.6	7.75	ND	12.6	57.7	6.0	6.0	6.7	6.7	5.9	6.9	5.9			8.4			12.5						8.3			ND	ND	ND	ND		
5	10.9	55.5	7.96	ND	11.9	47.1	6.0	6.0	6.7	6.7	5.9	6.9	5.9	11.0	33.0	7.9	3.4	0.3	7.1	0.2	2.7			13	10	8.5	2, 3	ND	ND	ND	ND		
6	10.5	60.4	7.86	ND	11.4	50.8	6.0	6.0	6.7	6.7	5.9	6.9	5.9			8.2			18.5						8.1			ND	ND	ND	ND		
7	10.1	57.3	7.66	ND	11.0	54.1	6.0	6.0	6.7	6.7	5.9	6.9	5.9			8.5			15.7						8.1			ND	ND	ND	ND		
8	9.9	56.2	7.49	ND	10.7	51.4	6.0	6.0	6.7	6.7	5.9	6.9	5.9			8.1			7.5						8.4			ND	ND	ND	ND		
9	9.2	58.0	7.36	ND	10.5	57.8	6.0	6.0	6.7	6.7	5.9	6.9	5.9			7.6			8.0						7.6			ND	ND	ND	ND		
10	10.0	57.9	7.27	ND	10.2	60.5	6.0	6.0	6.7	6.7	5.9	6.9	5.9			8.3			15.9						8.8			ND	ND	ND	ND		
11	11.2	56.6	7.67	ND	10.0	53.5	6.0	6.0	6.7	6.7	5.9	6.9	5.9			8.0			8.2						8.2			ND	ND	ND	ND		
12	11.5	56.3	7.74	ND	9.8	56.0	6.0	6.0	6.7	6.7	5.9	6.9	5.9	7.0	25.0	7.9			5.6	0.2	3.8				18	8.8	1, 2	ND	ND	ND	ND		
13	10.8	61.3	7.64	ND	5.7	60.1	6.0	6.0	6.7	6.7	5.9	6.9	5.9			8.3			5.5						8.5			ND	ND	ND	ND		
14	10.2	57.6	7.25	ND	6.6	61.4	6.0	6.0	6.7	6.7	5.9	6.9	5.9			8.1			5.4						8.8			ND	ND	ND	ND		
15	10.5	57.7	7.40	ND	9.6	62.2	6.0	6.0	6.7	6.7	5.9	6.9	5.9			8.0			5.3						8.8			ND	ND	ND	ND		
16	10.5	59.3	7.38	ND	8.1	60.5	6.0	6.0	6.7	6.7	5.9	6.9	5.9			7.7			6.8						8.8			ND	ND	ND	ND		
17	11.6	59.4	7.35	ND	7.2	79.0	6.0	6.0	6.7	6.7	5.9	6.9	5.9			7.8			6.9						8.8			ND	ND	ND	ND		
18	12.3	58.0	7.61	ND	6.1	59.9	6.0	6.0	6.7	6.7	5.9	6.9	5.9			7.7			8.1						8.8			ND	ND	ND	ND		
19	12.2	57.5	7.66	ND	4.7	62.2	6.0	6.0	6.7	6.7	5.9	6.9	5.9	2.5	4.0	7.7			7.7	0.2	4.0				16	8.6	11, 11	ND	ND	ND	ND		
20	12.6	58.3	7.78	ND	4.0	67.4	6.0	6.0	6.7	6.7	5.9	6.9	5.9			7.8			7.2						8.6			ND	ND	ND	ND		
21	12.4	58.5	7.98	ND	5.3	69.2	6.0	6.0	6.7	6.7	5.9	6.9	5.9			7.9			7.6						8.8			ND	ND	ND	ND		
22	13.7	57.9	8.43	ND	7.1	60.2	6.0	6.0	6.7	6.7	5.9	6.9	5.9			7.9			7.4						8.8			ND	ND	ND	ND		
23	12.6	57.7	8.55	ND	5.9	59.7	6.0	6.0	6.7	6.7	5.9	6.9	5.9			7.9			8.7						8.5			ND	ND	ND	ND		
24	15.1	56.9	9.01	ND	5.0	62.1	6.0	6.0	6.7	6.7	5.9	6.9	5.9			7.9			7.6						9.0			ND	ND	ND	ND		
25	14.1	57.5	9.05	ND	4.2	61.7	6.0	6.0	6.7	6.7	5.9	6.9	5.9			7.8			7.5						9.0			ND	ND	ND	ND		
26	14.0	57.5	9.34	ND	2.2	59.8	6.0	6.0	6.7	6.7	5.9	6.9	5.9	2.5	2.0	7.8			8.1	0.6	3.1				8	8.8	5, 4	ND	ND	ND	ND		
27	13.7	61.3	9.35	ND	4.8	60.1	6.0	6.0	6.7	6.7	5.9	6.9	5.9			7.9			8.0						8.6			ND	ND	ND	ND		
28	13.2	57.1	9.61	ND	5.4	57.4	6.0	6.0	6.7	6.7	5.9	6.9	5.9			7.8			8.4						8.3			ND	ND	ND	ND		
29	12.9	57.6	9.73	ND	5.8	56.6	6.0	6.0	6.7	6.7	5.9	6.9	5.9			7.8			8.4						8.2			ND	ND	ND	ND		
30	12.0	56.8	9.76	ND	4.9	56.6	6.0	6.0	6.7	6.7	5.9	6.9	5.9			7.8			8.3						8.0			ND	ND	ND	ND		
31	12.5	58.3	9.63	ND	4.1	58.7	6.0	6.0	6.7	6.7	5.9	6.9	5.9			7.8			8.1						8.0			ND	ND	ND	ND		
Ave	11.7	57.7	8.1	ND	7.9	58.7	6.0	6.0	6.7	6.7	5.9	6.9	5.9	5.8	16.0	8.0	3.4	0.3	8.7	0.3	3.4	0.0		13.0	13.0	8.5	3.6					30 D GM	
Max	15.1	61.3	9.8	ND	14.0	79.0	6.0	6.0	6.7	6.7	5.9	6.9	5.9	11.0	33.0	8.8	3.4	0.3	18.5	0.6	4.0	0.0		13.0	18.0	9.0	11					7 D GM Max	
Min	9.2	50.4	7.2	ND	2.2	47.1	6.0	6.0	6.7	6.7	5.9	6.9	5.9	2.5	2.0	7.6	3.4	0.3	5.3	0.2	2.7	0.0		13.0	8.0	7.6							

ND = No Discharge

