MWS - LINEAR

Pollutant Removal Performance Summary

Test Run	pH		TSS (mg/L)		Dissolved Phosphorus (mg/L)		Dissolved Cadmium (mg/L)		Dissolved Copper (mg/L)		Dissolved Lead (mg/L)		Dissolved Mercury (mg/L)	
	Influent	Effluent	Influent	Effluent	Influent	Effluent	Influent	Effluent	Influent	Effluent	Influent	Effluent	Influent	Effluent
1	7.26	7.68	270	6	0.68	0.12	0.61	0.02	0.757	0.028	0.543	0.1	0.018	0.002
2	7.26	7.43	270	3	0.68	0.65	0.61	0.07	0.757	0.055	0.543	0.1	0.018	0.002
3	7.26	7.35	270	2	0.68	0.77	0.61	0.2	0.757	0.066	0.543	0.1	0.018	0.002
4	7.26	7.36	270	1	0.68	0.58	0.61	0.33	0.757	0.072	0.543	0.1	0.018	0.002
5														
6														
7														
8														
Averages	7.26	7.455	270	3	0.68	0.53	0.61	0.155	0.757	0.05525	0.543	0.1	0.018	0.002
Average Removal Efficiency (%)			**98.89%**		**22.06%**		**74.59%**		**92.70%**		**81.58%**		**88.89%**	

Using Sil-Co-Sil 106

Mean particle size = 19 microns

Test Run	Dissolved Nickel (mg/L)		Dissolved Zinc (mg/L)		Oil & Grease (mg/L)		TPH (mg/L)		Turbidity (NTU)		Fecal Coliform (MPN/100 mL)		E.Coli (MPN/100 mL)	
	Influent	Effluent	Influent	Effluent	Influent	Effluent	Influent	Effluent	Influent	Effluent	Influent	Effluent	Influent	Effluent
1	0.37	0.01	0.95	0.05	10	1	19	0	21	0.5				
2	0.37	0.25	0.95	0.05	10	1	19	0	21	1.5				
3	0.37	0.3	0.95	0.21	10	2.5	19	0	21	1.5				
4	0.37	0.34	0.95	0.43	10	2	19	0	21	2.8				
5														
6											1600	170	1600	110
7														
8											1600	900	1600	900
													1600	900
Averages	0.37	0.225	0.95	0.185	10	1.625	19	0	21	1.575	1600	535	1600	636.66667
Average Removal Efficiency (%)	**39.19%**		**80.53%**		**83.75%**		**100.00%**		**92.50%**		**66.56%**		**60.21%**	

Red text indicates concentrations are greater than testing limits of 1600 MPN/100mL

Testing of Quarter Scale Model - at Flow Rate of 1.9 GPM. This flow rate is equal to 121.6 GPM for full size system.

Modular Wetland System - Linear is manufactured by Modular Wetland Sytems, Inc. 760-433-7640 www.modularwetlands.com