2008 Recycled Water Quality Summary

	CONSTITUENT	UNITS	Recycled Water				Groundwater Sources							
			MWRP		LAWRP		Well 72		Well 78		Well ET1 (PAP)		Well ET2	
			Average	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average	Range
	Electrical Conductivity	mohs/cm	1092	893 - 1378	-	-	1404	1330 - 1480	956	923 - 1000	1367	1140 - 1660	-	-
	pH	SU	6.8	6.0 - 8.7	7.8	7.0 - 8.0	7.2	6.9 - 7.5	7.4	7.2 - 7.5	8.0	7.0 - 8.3	7.3	7.2 - 7.4
	Temperature	°C	27.3	22.5 - 32.4	21.3	11.5 - 29.2	24.8	20.7 - 26.8	29.3	27.0 - 30.8	25.0	21.5 - 36.6	27.1	25.5 - 28.8
	Total Chlorine Residual	mg/L	9.2	5.2 - 13.8	8.0	3.6 - 34	<0.05	ND - 0.32	0.10	ND - 0.20	0.06	ND - 0.26	<0.05	ND
	Turbidity	NTU	1.1	0.2 - 2.0	1.0	0.33 - 2.0	1.2	0.11 - 12	0.82	0.20 - 4.7	0.69	ND - 10	-	-
Micro	Total Coliforms	MPN/100ml	<1.8	ND - 350	<1.8	ND - 13	<1.8	ND	<1.8	ND - 2.0	<1.8	ND	<1.8	ND
Micro	Fecal Coliforms	MPN/100ml	<1.8	ND - 2.0	<1.8	ND - 4.5	<1.8	ND	<1.8	ND	<1.8	ND	<1.8	ND
Conventional	Biochemical Oxigen Demand	mg/L	<3	ND - 6.6	<3.0	ND	-	-	-	-	-	-	-	-
Conventional	Chemical Oxygen Demand	mg/L	23	ND - 88	35	20 - 59	-	-	-	-	-	-	-	-
Conventional	Total Dissolved Solids	mg/L	675	576 - 760	736	724 - 752	1010	1010	-	-	939	910 - 978	667	652 - 682
Conventional	Total Organic Carbon	mg/L	7.7	5.3 - 13	11	8.1 - 14	<1.0	ND	<1.0	ND	-	-	-	-
Conventional	Total Suspended Solids	mg/L	1.5	ND - 7.6	2.2	ND - 14	-	-	2.1	ND - 10	2.0	<1.0 - 4.3	1.1	ND - 5.5
Conventional	Volatile Suspended Solids	%	-	-	90	31 - 100	-	-	-	-	-	-	-	-
Nutrients	Ammonia as Nitrogen	mg/L	0.19	ND - 11	-	-	-	-	<0.08	ND - 0.090	<0.10	ND - 0.41	<0.10	ND
Nutrients	Nitrate as Nitrogen	mg/L	7.7	2.6 - 12	0.20	ND - 0.59	-	-	-	-	8.3	1.5 - 15	-	-
Nutrients	Nitrite as Nitrogen	mg/L	0.01	ND - 0.13	0.20	0.02 - 0.67	13	11 - 19	-	-	<0.010	ND	-	-
Nutrients	Nitrite/Nitrate as Nitrogen	mg/L	7.7	2.6 - 12	0.39	ND - 1.3	-	-	0.44	ND - 0.85	8.3	1.5 - 15	2.4	1.5 - 9.7
Nutrients	Ortho-Phosphate as Phosphorus	mg/L	2.8	0.69 - 4.0	-	-	-	-	0.055	ND - 0.12	0.25	ND - 1.6	-	-
Nutrients	Total Inorganic Nitrogen	mg/L	7.9	3.6 - 17	-	-	-	-	-	-	-	-	2.4	1.5 - 9.7
Nutrients	Total Kjeldahl Nitrogen	mg/L	1.3	0.54 - 4.3	-	-	<0.30	ND - 0.58	<0.30	ND	-	-	0.22	ND - 0.66
Nutrients	Total Nitrogen	mg/L	9.8	7.9 - 13	-	-	13	11 - 19	0.58	ND - 0.92	-	-	2.6	1.5 - 9.7
Nutrients	Total Phosphorus	mg/L	3.0	0.72 - 4.0	-	-	<0.20	ND - 0.21	<0.20	ND	-	-	<0.20	ND - 0.22
Minerals	Adjusted Sodium Adsorbtion Ratio	mgeq/L	5	4 - 5	5	5 - 5	-	-	-	-	-	-	-	-
Minerals	Alkalinity as Ca CO_3	mg/L	147	109 - 164	259	227 - 286	230	230	216	216	195	190 - 203	-	-
Minerals	Bicarbonate	mg/L	180	133 - 200	314	276 - 346	-	-	-	-	194	189 - 202	-	-
Minerals	Boron	mg/L	0.43	0.23 - 0.60	0.52	0.35 - 0.64	-	-	-	-	-	-	-	-
Minerals	Calcium	mg/L	46.0	37.3 - 53.9	58.5	53.3 - 65.8	-	-	-	-	125	105 - 144	74.4	61.1 - 80.2
Minerals	Carbonate	mg/L	<0.6	ND	-	-	-	-	-	-	-	-	-	-
Minerals	Chloride	mg/L	146	114 - 180	156	144 - 173	181	181	136	136	170	152 - 189	-	-
Minerals	Fluoride	mg/L	0.59	0.33 - 0.82	0.46	0.28 - 0.70	-	-	-	-	-	-	-	-
Minerals	Magnesium	mg/L	23.5	15.9 - 28.9	24.0	22.9 - 26.1	-	-	-	-	25.4	16.4 - 32.0	20.4	12.7 - 23.1
Minerals	Potassium	mg/L	18.2	13.9 - 35.6	17.6	16.4 - 19.9	-	-	-	-	3.4	3.1 - 3.7	-	-
Minerals	Sodium	mg/L	146	129 - 169	151	135 - 161	-	-	-	-	139	134 - 146	-	-
Minerals	Sodium Adsorbtion Ratio	mgeq/L	4	4 - 5	4	4 - 5	-	-	-	-	-	-	-	-
Minerals	Sulfate	mg/L	142	90.8 - 192	215	203 - 233	254	254	194	194	208	188 - 226	-	-
Minerals	Silica	mg/L	-	-	-	-	-	-	-	-	58	54 - 62	-	-
Minerals	Total Hardness as $CaCO_3$	mg/L	212	160 - 249	250	227 - 271	-	-	-	-	-	-	276	231 - 267
Metals	Aluminum	ug/L	-	-	91.9	91.9	-	-	-	-	-	-	-	-
Metals	Antimony	ug/L	0.431	ND - 0.777	0.602	0.602	-	-	-	-	-	-	-	-
Metals	Arsenic	ug/L	1.82	1.00 - 2.23	2.05	2.05	2.45	1.86 - 2.95	7.95	5.68 - 11.8	-	-	6.52	5.62 - 7.36
Metals	Barium	ug/L	33.8	17.4 - 54.7	42.2	33.3 - 48.3	-	-	-	-	-	-	-	-
Metals	Beryllium	ug/L	<0.25	ND	ND	ND	-	-	-	-	-	-	-	-
Metals	Cadmium	ug/L	0.210	ND - 0.498	ND	ND	<0.25	ND	0.292	ND - 0.625	-	-	0.481	0.469 - 0.507
Metals	Chromium	ug/L	0.458	ND - 0.654	ND	ND	-	-	-	-	-	-	-	-
Metals	Cobalt	ug/L	<0.5	ND - 0.58	-	-	-	-	-	-	-	-	-	-
Metals	Copper	ug/L	8.65	5.76 - 13.2	3.25	3.25	4.67	3.75 - 5.65	21.0	12.0 - 34.7	-	-	4.38	3.11 - 5.30
Metals	Iron	ug/L	54.0	29.5 - 67.7	20.2	8.2 - 42.7	-	-	-	-	-	-	-	-
Metals	Lead	ug/L	0.302	ND - 0.538	0.274	0.274	0.435	0.297 - 0.657	0.574	0.451 - 0.737	-	-	0.544	0.314 - 0.724
Metals	Manganese	ug/L	13.5	1.07 - 26.7	13.6	8.61 - 17.1	-	-	-	-	-	-	21.5	21.4 - 21.6
Metals	Mercury	ug/L	0.041	ND - 0.21	ND	ND	-	-	-	-	-	-	-	-
Metals	Molybdenum	ug/L	59.5	19.1 - 170	4.80	4.80	-	-	-	-	-	-	-	-
Metals	Nickel	ug/L	2.40	1.36 - 3.18	3.71	3.71	3.42	2.44 - 4.30	1.43	0.918 - 2.29	-	-	1.44	0.877 - 1.78
Metals	Selenium	ug/L	2.19	ND - 3.53	ND	ND	9.18	8.69 - 9.99	4.26	2.13 - 7.19	-	-	5.76	5.13 - 6.54
Metals	Silver	ug/L	<0.250	ND - 0.258	ND	ND	-	-	-	-	-	-	-	-
Metals	Thallium	ug/L	<0.25	ND - 0.364	ND	ND	-	-	-	-	-	-	-	-
Metals	Zinc	ug/L	47.0	27.2 - 55.2	23.3	23.3	11.2	8.52 - 13.5	27.6	23.2 - 32.6	-	-	12.3	4.96 - 20.1
Other	Cyanide	ug/L	<0.005	ND	-	-	-	-	-	-	-	-	-	-
Other	Surfactants	mg/L	-	-	0.16	0.11 - 0.23	-	-	-	-	-	-	<0.10	ND