

Drinking Water Quality Annual Report Data 01/07/2010 to 30/06/2011

Table 3 Aesthetic (Non-health related) Variables

Perth Metropolitan		Aluminium				Hardness				Iron				Manganese						
Locality	Samples Taken	Concentration (mg/L)			Guideline Met	Samples Taken	Concentration (mg/L)			Guideline Met	Samples Taken	Concentration (mg/L)			Guideline Met	Samples Taken	Concentration (mg/L)			Guideline Met
		Min	Max	Mean			Min	Max	Mean			Min	Max	Mean			Min	Max	Mean	
Armadale/Kelmscott	5	0.010	0.025	0.016	✓	5	40	60	49	✓	5	0.025	0.080	0.051	✓	5	0.002	0.008	0.004	✓
Bold Park	5	0.016	0.025	0.020	✓	5	50	70	60	✓	5	0.045	0.090	0.073	✓	5	0.005	0.010	0.008	✓
Buckland Hill	4	0.012	0.030	0.020	✓	4	75	80	76	✓	4	0.045	0.260	0.144	✓	4	0.005	0.030	0.014	✓
Foothills	4	0.018	0.030	0.023	✓	4	95	120	109	✓	4	0.025	0.080	0.056	✓	4	0.003	0.005	0.005	✓
Greenmount	5	0.014	0.025	0.019	✓	5	85	130	110	✓	5	0.010	0.090	0.027	✓	5	<0.002	0.012	<0.002	✓
Greenmount/Darlington	4	0.020	0.025	0.021	✓	4	90	120	101	✓	4	0.060	0.070	0.063	✓	4	0.003	0.005	0.004	✓
Hamilton Hill	5	0.016	0.020	0.018	✓	5	60	90	80	✓	5	0.006	0.015	0.010	✓	5	<0.002	0.007	0.004	✓
Hills Direct	8	0.010	0.055	0.022	✓	8	30	120	68	✓	8	0.020	0.090	0.052	✓	8	0.003	0.080	0.015	✓
Lexia	4	0.040	0.080	0.054	✓	4	120	200	143	✓	4	0.008	0.060	0.023	✓	4	<0.002	0.006	0.003	✓
Melville	5	0.012	0.020	0.017	✓	5	50	75	60	✓	5	0.040	0.060	0.049	✓	5	0.006	0.012	0.008	✓
Mirrabooka	4	0.025	0.065	0.043	✓	4	110	130	125	✓	4	0.010	0.045	0.025	✓	4	<0.002	0.002	<0.002	✓
Mt. Eliza	4	0.012	0.045	0.025	✓	4	60	90	74	✓	4	0.050	0.320	0.128	✓	4	0.008	0.040	0.019	✓
Mt. Hawthorn	5	0.025	0.040	0.032	✓	5	90	120	110	✓	5	0.025	0.120	0.079	✓	5	0.003	0.007	0.005	✓
Mt. Yokine	5	0.020	0.030	0.023	✓	5	100	120	110	✓	5	0.015	0.120	0.056	✓	5	<0.002	0.009	0.003	✓
Mundaring	4	0.016	0.020	0.018	✓	4	100	110	105	✓	4	0.015	0.035	0.025	✓	4	0.005	0.009	0.008	✓
Neerabup	4	0.055	0.095	0.071	✓	4	170	190	180	✓	4	0.010	0.020	0.016	✓	4	<0.002	0.004	0.003	✓
South Perth/Kewdale	4	0.016	0.025	0.023	✓	4	70	95	81	✓	4	0.045	0.070	0.053	✓	4	<0.002	0.004	0.003	✓
Tamworth Hill	4	0.012	0.025	0.018	✓	4	45	70	59	✓	4	0.025	0.060	0.043	✓	4	0.002	0.018	0.009	✓
Thomsons Lake	5	0.016	0.020	0.018	✓	5	65	110	89	✓	5	0.004	0.035	0.016	✓	5	<0.002	0.014	0.006	✓
Two Rocks	5	<0.008	<0.008	<0.008	✓	5	220	240	226	(1)	5	<0.003	<0.003	<0.003	✓	5	<0.002	<0.002	<0.002	✓
Wanneroo	4	0.030	0.055	0.041	✓	4	120	140	130	✓	4	0.006	0.020	0.011	✓	4	<0.002	0.003	<0.002	✓
West Yokine	5	0.025	0.030	0.028	✓	5	100	130	114	✓	5	0.025	0.180	0.090	✓	5	<0.002	0.010	0.004	✓
Whitfords	3	0.035	0.060	0.047	✓	3	120	120	120	✓	3	0.006	0.020	0.014	✓	3	<0.002	0.003	<0.002	✓
Yanchep	4	<0.008	<0.008	<0.008	✓	4	200	210	205	(1)	4	<0.003	<0.003	<0.003	✓	4	<0.002	<0.002	<0.002	✓

(1) Elevated hardness is characteristic of the source supplying this locality.

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Table 4 Aesthetic (Non-health related) Variables

Perth Metropolitan		pH				TDS				True Colour				Turbidity						
Locality	Samples Taken	Value (pH units)			Guideline Met	Samples Taken	Concentration (mg/L)			Guideline Met	Samples Taken	Value (TCU)			Guideline Met	Samples Taken	Value (NTU)			Guideline Met
		Min	Max	Mean			Min	Max	Mean			Min	Max	Mean			Min	Max	Mean	
Armadale/Kelmscott	5	7.14	7.64	7.47	✓	5	190	261	224	✓	5	<1	<1	<1	✓	5	0.1	0.4	0.3	✓
Bold Park	5	7.83	8.00	7.91	✓	5	266	368	323	✓	5	<1	<1	<1	✓	5	0.2	0.3	0.2	✓
Buckland Hill	4	7.97	8.10	8.05	✓	4	447	536	510	(1)	4	<1	<1	<1	✓	4	0.2	0.6	0.3	✓
Foothills	4	7.71	8.08	7.96	✓	4	399	559	481	✓	4	<1	2	<1	✓	4	<0.1	0.1	<0.1	✓
Greenmount	5	7.96	8.35	8.20	✓	5	399	558	499	✓	5	<1	<1	<1	✓	5	<0.1	0.4	<0.1	✓
Greenmount/Darlington	4	8.18	8.26	8.23	✓	4	415	556	476	✓	4	<1	<1	<1	✓	4	0.1	0.2	0.2	✓
Hamilton Hill	5	7.93	8.17	8.10	✓	5	176	372	321	✓	5	<1	<1	<1	✓	5	<0.1	0.2	<0.1	✓
Hills Direct	8	7.02	7.97	7.65	✓	8	157	506	275	✓	8	<1	<1	<1	✓	8	0.1	0.9	0.3	✓
Lexia	4	7.74	8.05	7.92	✓	4	380	494	420	✓	4	<1	2	<1	✓	4	<0.1	0.4	0.2	✓
Melville	5	7.71	8.09	7.90	✓	5	333	541	462	✓	5	<1	<1	<1	✓	5	0.2	0.4	0.3	✓
Mirrabooka	4	7.32	7.73	7.43	✓	4	369	536	473	✓	4	<1	<1	<1	✓	4	<0.1	0.1	<0.1	✓
Mt. Eliza	4	7.69	8.07	7.94	✓	4	375	551	475	✓	4	<1	3	<1	✓	4	0.1	0.8	0.4	✓
Mt. Hawthorn	5	7.80	8.02	7.90	✓	5	490	556	524	(1)	5	<1	<1	<1	✓	5	0.1	0.2	0.2	✓
Mt. Yokine	5	7.80	8.14	7.91	✓	5	491	547	522	(1)	5	<1	<1	<1	✓	5	<0.1	0.2	<0.1	✓
Mundaring	4	7.96	8.09	8.02	✓	4	420	510	467	✓	4	<1	2	<1	✓	4	0.3	0.4	0.4	✓
Neerabup	4	7.76	8.12	7.91	✓	4	481	514	501	(1)	4	<1	<1	<1	✓	4	0.2	0.4	0.3	✓
South Perth/Kewdale	4	7.70	8.07	7.90	✓	4	325	491	393	✓	4	<1	<1	<1	✓	4	0.1	0.3	0.2	✓
Tamworth Hill	4	7.55	7.91	7.80	✓	4	180	208	193	✓	4	<1	<1	<1	✓	4	0.2	0.4	0.3	✓
Thomsons Lake	5	7.89	8.04	7.98	✓	5	178	477	350	✓	5	<1	<1	<1	✓	5	<0.1	<0.1	<0.1	✓
Two Rocks	5	7.76	7.96	7.83	✓	5	504	523	514	(2)	5	<1	<1	<1	✓	5	<0.1	0.2	<0.1	✓
Wanneroo	4	7.62	8.12	7.80	✓	4	387	488	452	✓	4	<1	<1	<1	✓	4	<0.1	0.2	<0.1	✓
West Yokine	5	7.82	8.22	8.01	✓	5	492	575	542	(1)	5	<1	<1	<1	✓	5	<0.1	0.3	0.2	✓
Whitfords	3	7.94	8.12	8.03	✓	3	367	473	404	✓	3	<1	<1	<1	✓	3	<0.1	0.2	<0.1	✓
Yanchep	4	7.83	7.95	7.88	✓	4	461	484	473	✓	4	<1	<1	<1	✓	4	<0.1	<0.1	<0.1	✓

(1) Marginally exceeding the TDS target was necessary to achieve full production from groundwater required as a response to ongoing climate change. (2) The local groundwater has naturally occurring TDS slightly above the target of 500 mg/L.