

Drinking Water Quality Annual Report Data 01/07/2018 to 30/06/2019

Table 3 Aesthetic (Non-health related) Variables

Perth Region	Alkalinity (as CaCO <sub>3</sub> )				Aluminium				Chloride				Hardness							
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 Value	Max Value	Mean Value			Min	Max	Mean			Min Value	Max Value	Mean Value			Min	Max	Mean	
Armadale/Kelmscott	2	53	55	54	(1)	2	<0.008	0.016	<0.008	✓	2	130	130	130	✓	2	64	64	64	✓
Bold Park	2	64	120	92	(1)	2	0.014	0.016	0.015	✓	2	120	160	140	✓	2	75	88	82	✓
Buckland Hill	4	69	78	74	(1)	4	0.012	0.014	0.014	✓	4	190	200	195	✓	4	72	85	78	✓
Dwellingup	5	7	11	9	(1)	5	<0.008	0.014	0.010	✓	5	55	65	60	✓	5	27	31	29	✓
Foothills	2	53	71	62	(1)	3	0.010	0.018	0.014	✓	2	130	170	150	✓	3	63	83	70	✓
Greenmount	4	120	150	130	(1)	4	<0.008	0.016	<0.008	✓	4	150	190	173	✓	4	90	110	102	✓
Greenmount/Darlington	2	71	79	75	(1)	3	0.010	0.016	0.012	✓	2	135	170	153	✓	3	74	89	80	✓
Hamilton Hill	2	54	82	68	(1)	2	0.010	0.010	0.010	✓	2	115	180	148	✓	2	66	88	77	✓
Hills Direct	4	40	64	55	(1)	4	0.010	0.018	0.014	✓	4	60	155	121	✓	4	51	80	68	✓
Lexia	2	94	160	127	(1)	2	0.008	0.018	0.013	✓	2	85	115	100	✓	7	80	160	126	✓
Mandurah	7	43	53	49	(1)	7	0.012	0.018	0.015	✓	7	37	43	40	✓	7	52	61	57	✓
Melville	5	52	82	71	(1)	5	0.012	0.014	0.014	✓	5	100	205	174	✓	5	61	76	65	✓
Mirrabeeka	5	42	110	64	(1)	5	0.014	0.025	0.019	✓	5	125	210	171	✓	5	120	130	124	✓
Mt. Eliza	3	64	77	71	(1)	3	0.016	0.025	0.019	✓	3	170	175	172	✓	3	70	84	76	✓
Mt. Hawthorn	5	120	140	132	(1)	5	<0.008	<0.008	<0.008	✓	5	170	180	176	✓	5	92	110	99	✓
Mt. Yokine	4	110	130	125	(1)	4	<0.008	0.008	<0.008	✓	4	160	185	175	✓	4	76	110	97	✓
Mundaring	2	52	61	57	(1)	2	0.012	0.018	0.015	✓	2	155	170	163	✓	2	90	91	91	✓
Neerabup	5	77	180	149	(1)	5	<0.008	0.014	<0.008	✓	5	85	130	118	✓	5	84	200	167	✓
North Dandalup	4	20	54	39	(1)	4	<0.008	0.035	0.016	✓	4	41	70	50	✓	4	39	62	53	✓
Pinjarra	3	46	49	47	(1)	3	0.014	0.025	0.021	✓	3	41	46	43	✓	3	53	59	56	✓
South Perth/Kewdale	2	57	120	89	(1)	2	<0.008	0.014	<0.008	✓	2	125	175	150	✓	2	63	97	80	✓
Tamworth Hill	2	43	46	45	(1)	2	0.018	0.025	0.022	✓	2	38	40	39	✓	2	46	49	48	✓
Thomsons Lake	5	56	92	80	(1)	5	0.008	0.018	0.012	✓	5	38	235	170	✓	5	49	120	89	✓
Two Rocks	4	190	200	195	(1)	4	<0.008	<0.008	<0.008	✓	4	105	110	106	✓	4	210	240	225	(2)
Wanneroo	4	84	110	97	(1)	4	<0.008	0.012	<0.008	✓	4	95	130	119	✓	4	85	110	104	✓
West Yokine	4	120	160	135	(1)	4	<0.008	0.012	<0.008	✓	4	165	180	173	✓	4	98	110	102	✓
Whitfords	4	59	100	83	(1)	4	<0.008	0.014	0.009	✓	4	100	135	111	✓	4	76	110	95	✓
Yanchep	5	190	210	204	(1)	4	<0.008	<0.008	<0.008	✓	5	105	115	110	✓	5	210	240	224	(2)

(1) No guideline value available as per ADWG 2011. (2) Elevated hardness is characteristic of the source supplying this locality

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Table 4 Aesthetic (Non-health related) Variables

Perth Region	Iron			Manganese			pH			Silicon										
Locality	Samples Taken	Concentration (mg/L)			Guideline Met	Samples Taken	Concentration (mg/L)			Guideline Met	Samples Taken	Value (pH units)			Guideline Met	Samples Taken	Concentration (mg/L)			Guideline Met
		Min	Max	Mean			Min	Max	Mean			Min	Max	Mean			Min Value	Max Value	Mean Value	
Armadale/Kelmscott	2	0.025	0.045	0.035	✓	2	<0.002	0.003	<0.002	✓	2	7.29	7.34	7.32	✓	2	3.5	4.2	3.9	✓
Bold Park	2	0.020	0.050	0.035	✓	2	0.005	0.009	0.007	✓	2	7.72	8.02	7.87	✓	2	5.0	15.0	10.0	✓
Buckland Hill	4	0.050	0.070	0.055	✓	4	0.007	0.018	0.012	✓	4	7.63	8.05	7.82	✓	4	5.8	8.1	6.7	✓
Dwellingup	5	0.050	0.080	0.066	✓	5	<0.002	0.016	0.006	✓	5	6.57	6.96	6.78	✓	5	2.1	2.8	2.4	✓
Foothills	3	0.060	0.090	0.073	✓	3	0.003	0.006	0.004	✓	2	7.35	7.58	7.47	✓	2	3.6	4.4	4.0	✓
Greenmount	4	0.006	0.200	0.062	✓	4	<0.002	0.025	0.008	✓	4	7.86	8.29	8.07	✓	4	16.0	17.0	16.8	✓
Greenmount/Darlington	3	0.015	0.040	0.030	✓	3	0.003	0.004	0.004	✓	2	7.87	8.04	7.96	✓	2	6.7	7.1	6.9	✓
Hamilton Hill	2	0.008	0.030	0.019	✓	2	0.004	0.005	0.005	✓	2	7.72	8.03	7.88	✓	2	3.1	5.9	4.5	✓
Hills Direct	4	0.025	0.050	0.039	✓	4	0.003	0.016	0.008	✓	4	7.11	7.79	7.56	✓	4	2.4	4.7	3.4	✓
Lexia	2	<0.003	0.010	0.005	✓	2	<0.002	<0.002	<0.002	✓	2	7.48	7.85	7.67	✓	2	15.0	19.0	17.0	✓
Mandurah	7	<0.003	0.020	0.011	✓	7	<0.002	0.008	<0.002	✓	7	7.57	8.18	7.91	✓	7	1.1	3.7	2.7	✓
Melville	5	0.025	0.040	0.030	✓	5	0.004	0.006	0.005	✓	5	7.69	8.20	7.95	✓	5	2.8	6.9	5.6	✓
Mirrabeeka	5	0.020	0.060	0.029	✓	5	<0.002	0.004	0.003	✓	5	7.08	7.85	7.41	✓	5	12.0	17.0	14.4	✓
Mt. Eliza	3	0.030	0.140	0.097	✓	3	0.006	0.025	0.019	✓	3	7.78	7.88	7.84	✓	3	5.7	7.4	6.4	✓
Mt. Hawthorn	5	0.008	0.050	0.028	✓	5	0.002	0.004	0.003	✓	5	7.86	8.05	7.97	✓	5	16.0	18.0	17.6	✓
Mt. Yokine	4	0.015	0.060	0.031	✓	4	<0.002	0.009	0.004	✓	4	7.72	8.00	7.87	✓	4	16.0	19.0	16.8	✓
Mundaring	2	<0.003	<0.003	<0.003	✓	2	<0.002	0.005	0.003	✓	6	8.35	8.52	8.45	✓	2	7.4	7.5	7.5	✓
Neerabup	5	0.010	0.030	0.018	✓	5	<0.002	0.009	0.003	✓	5	7.29	7.61	7.47	✓	5	17.0	22.0	20.2	✓
North Dandalup	4	0.004	0.035	0.019	✓	4	<0.002	0.012	0.004	✓	4	7.11	8.55	7.93	✓	4	2.7	3.5	3.1	✓
Pinjarra	3	0.006	0.010	0.008	✓	3	<0.002	<0.002	<0.002	✓	3	7.79	8.20	7.98	✓	3	1.4	2.8	2.2	✓
South Perth/Kewdale	2	0.006	0.030	0.018	✓	2	<0.002	<0.002	<0.002	✓	2	7.36	7.90	7.63	✓	2	4.2	17.0	10.6	✓
Tamworth Hill	2	0.010	0.025	0.018	✓	2	<0.002	<0.002	<0.002	✓	2	7.49	7.53	7.51	✓	2	1.2	2.6	1.9	✓
Thomsons Lake	5	<0.003	0.025	0.010	✓	5	0.003	0.010	0.005	✓	5	7.62	8.00	7.86	✓	5	2.5	6.4	5.0	✓
Two Rocks	4	<0.003	<0.003	<0.003	✓	4	<0.002	<0.002	<0.002	✓	4	7.46	7.78	7.66	✓	4	11.0	12.0	11.8	✓
Wanneroo	4	0.008	0.015	0.012	✓	4	0.003	0.005	0.004	✓	4	7.07	7.67	7.39	✓	4	17.0	19.0	18.3	✓
West Yokine	4	0.008	0.120	0.070	✓	4	<0.002	0.016	0.009	✓	4	7.66	7.99	7.87	✓	4	16.0	18.0	17.0	✓
Whitfords	4	0.004	0.006	0.006	✓	4	<0.002	0.003	<0.002	✓	4	7.68	7.91	7.84	✓	4	17.0	18.0	17.5	✓
Yanchep	5	<0.003	0.220	0.083	✓	5	<0.002	0.010	0.004	✓	5	7.30	7.92	7.59	✓	5	15.0	18.0	16.6	✓

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Table 5 Aesthetic (Non-health related) Variables

Perth Region	Sodium			TDS			True Colour				Turbidity									
Locality	Samples Taken	Concentration (mg/L)			Guideline Met	Samples Taken	Concentration (mg/L)			Guideline Met	Samples Taken	Value (TCU)			Guideline Met	Samples Taken	Value (NTU)			Guideline Met
		Min Value	Max Value	Mean Value			Min	Max	Mean			Min	Max	Mean			Min	Max	Mean	
Armadale/Kelmscott	2	76	79	78	✓	2	318	325	322	✓	2	<1	<1	<1	✓	2	0.2	0.3	0.3	✓
Bold Park	2	73	120	97	✓	2	322	502	412	✓	2	<1	<1	<1	✓	2	<0.1	0.2	<0.1	✓
Buckland Hill	4	120	135	129	✓	4	453	493	474	✓	4	<1	<1	<1	✓	4	0.2	0.6	0.4	✓
Dwellingup	5	31	35	33	✓	5	127	144	135	✓	5	<1	<1	<1	✓	5	0.3	0.6	0.4	✓
Foothills	3	75	105	85	✓	2	319	422	371	✓	2	<1	<1	<1	✓	2	0.3	0.4	0.4	✓
Greenmount	4	120	140	128	✓	4	504	607	548	✓	4	<1	<1	<1	✓	4	0.1	0.8	0.3	✓
Greenmount/Darlington	3	86	105	96	✓	2	365	440	403	✓	2	<1	<1	<1	✓	2	0.1	0.2	0.2	✓
Hamilton Hill	2	67	115	91	✓	2	296	461	379	✓	2	<1	<1	<1	✓	2	0.2	0.2	0.2	✓
Hills Direct	4	32	93	73	✓	4	173	382	313	✓	4	<1	<1	<1	✓	4	0.2	0.4	0.3	✓
Lexia	2	45	71	58	✓	2	389	482	436	✓	2	<1	<1	<1	✓	2	0.2	0.3	0.3	✓
Mandurah	7	22	25	23	✓	7	149	162	155	✓	7	<1	<1	<1	✓	7	<0.1	0.3	0.2	✓
Melville	5	56	140	113	✓	5	260	496	423	✓	5	<1	<1	<1	✓	5	0.2	0.6	0.3	✓
Mirrabeeka	5	63	120	99	✓	5	371	516	465	✓	5	<1	<1	<1	✓	5	<0.1	0.2	<0.1	✓
Mt. Eliza	3	110	120	115	✓	3	418	452	432	✓	3	<1	<1	<1	✓	3	0.1	0.7	0.4	✓
Mt. Hawthorn	5	130	140	133	✓	5	544	579	561	✓	5	<1	<1	<1	✓	5	<0.1	0.2	<0.1	✓
Mt. Yokine	4	120	135	126	✓	4	514	575	544	✓	4	<1	<1	<1	✓	4	<0.1	0.3	0.2	✓
Mundaring	2	91	105	98	✓	2	397	427	412	✓	2	<1	<1	<1	✓	2	0.1	0.2	0.2	✓
Neerabup	5	55	77	69	✓	5	312	543	482	✓	5	<1	<1	<1	✓	5	0.1	0.3	0.2	✓
North Dandalup	4	23	37	28	✓	4	149	166	156	✓	4	<1	<1	<1	✓	4	<0.1	0.4	0.2	✓
Pinjarra	3	23	27	25	✓	3	150	158	155	✓	3	<1	<1	<1	✓	3	<0.1	0.4	0.2	✓
South Perth/Kewdale	2	78	120	99	✓	2	322	532	427	✓	2	<1	<1	<1	✓	2	0.2	0.2	0.2	✓
Tamworth Hill	2	21	24	23	✓	2	137	144	141	✓	2	<1	<1	<1	✓	2	0.1	0.2	0.2	✓
Thomsons Lake	5	23	165	111	✓	5	158	593	438	✓	5	<1	<1	<1	✓	5	<0.1	0.3	<0.1	✓
Two Rocks	4	54	61	57	✓	4	512	532	520	✓	4	<1	<1	<1	✓	4	<0.1	0.2	<0.1	✓
Wanneroo	4	63	83	74	✓	4	381	436	399	✓	4	<1	<1	<1	✓	4	<0.1	0.2	<0.1	✓
West Yokine	4	125	135	131	✓	4	523	588	559	✓	4	<1	<1	<1	✓	4	<0.1	0.3	0.2	✓
Whitfords	4	58	82	67	✓	4	349	368	362	✓	4	<1	<1	<1	✓	4	<0.1	0.2	<0.1	✓
Yanchep	5	51	61	56	✓	5	509	550	534	✓	5	<1	<1	<1	✓	5	<0.1	0.5	0.3	✓