

Drinking Water Quality Annual Report Data 01/07/2017 to 30/06/2018

Table 3 Aesthetic (Non-health related) Variables

Perth Region	Aesthetic (Non-health related) Variables																			
Locality	Alkalinity (as CaCO <sub>3</sub> )					Aluminium					Chloride					Hardness				
	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	68.0	77.0	72.5	(1)	2	<0.008	0.018	0.009	✓	2	150.0	165.0	157.5	✓	2	76	88	82	✓
Bold Park	2	47.0	56.0	51.5	(1)	2	0.020	0.020	0.020	✓	2	46.0	105.0	75.5	✓	2	56	68	62	✓
Buckland Hill	5	64.0	78.0	73.6	(1)	5	0.016	0.025	0.021	✓	5	100.0	205.0	170.0	✓	5	66	73	70	✓
Dwellingup	4	10.0	14.0	11.5	(1)	4	0.008	0.012	0.010	✓	4	60.0	75.0	65.0	✓	4	30	35	32	✓
Foothills	2	87.0	110.0	98.5	(1)	2	0.014	0.018	0.016	✓	2	135.0	160.0	147.5	✓	2	96	98	97	✓
Greenmount	5	93.0	110.0	104.6	(1)	5	0.008	0.016	0.012	✓	5	130.0	170.0	151.0	✓	5	84	120	98	✓
Greenmount/Darlington	2	87.0	87.0	87.0	(1)	2	0.012	0.016	0.014	✓	2	115.0	165.0	140.0	✓	2	82	93	88	✓
Hamilton Hill	2	76.0	77.0	76.5	(1)	2	0.012	0.012	0.012	✓	2	160.0	160.0	160.0	✓	2	82	88	85	✓
Hills Direct	2	45.0	57.0	51.0	(1)	2	0.020	0.035	0.028	✓	2	80.0	90.0	85.0	✓	2	62	68	65	✓
Lexia	2	89.0	140.0	114.5	(1)	2	0.012	0.100	0.056	✓	2	90.0	110.0	100.0	✓	6	87	170	133	✓
Mandurah	15	45.0	60.0	52.7	(1)	15	0.020	0.055	0.032	✓	15	33.0	41.0	36.7	✓	15	45	59	55	✓
Melville	4	69.0	85.0	74.5	(1)	4	0.020	0.025	0.024	✓	4	145.0	190.0	165.0	✓	4	61	64	63	✓
Mirrabooka	4	52.0	110.0	66.8	(1)	4	0.018	0.030	0.023	✓	4	85.0	215.0	167.5	✓	4	90	140	123	✓
Mt. Eliza	2	71.0	85.0	78.0	(1)	2	0.020	0.025	0.023	✓	2	155.0	200.0	177.5	✓	2	70	72	71	✓
Mt. Hawthorn	5	110.0	150.0	120.0	(1)	5	0.008	0.012	0.010	✓	5	165.0	195.0	182.0	✓	5	87	120	100	✓
Mt. Yokine	5	100.0	150.0	122.0	(1)	5	0.008	0.014	0.011	✓	5	160.0	175.0	169.0	✓	5	95	130	113	✓
Mundaring	2	61.0	69.0	65.0	(1)	2	0.030	0.100	0.065	✓	2	135.0	160.0	147.5	✓	2	82	94	88	✓
Neerabup	4	65.0	180.0	143.8	(1)	4	0.008	0.014	0.011	✓	4	120.0	185.0	141.3	✓	4	91	200	163	✓
North Dandalup	5	24.0	53.0	45.4	(1)	5	0.016	0.045	0.029	✓	5	33.0	65.0	43.4	✓	5	41	64	54	✓
Pinjarra	4	42.0	58.0	52.3	(1)	4	0.020	0.055	0.034	✓	4	31.0	38.0	35.5	✓	4	44	62	55	✓
South Perth/Kewdale	3	50.0	97.0	81.3	(1)	3	0.010	0.025	0.017	✓	3	50.0	160.0	115.0	✓	3	57	110	85	✓
Tamworth Hill	5	52.0	58.0	55.2	(1)	5	0.025	0.035	0.032	✓	5	34.0	37.0	35.4	✓	5	55	63	58	✓
Thomsons Lake	4	74.0	89.0	82.5	(1)	4	0.010	0.012	0.011	✓	4	150.0	205.0	186.3	✓	4	83	99	94	✓
Two Rocks	4	190.0	200.0	197.5	(1)	4	<0.008	<0.008	<0.008	✓	4	100.0	105.0	102.5	✓	4	230	240	233	(2)
Wanneroo	5	60.0	110.0	89.6	(1)	5	0.010	0.020	0.014	✓	5	80.0	175.0	123.0	✓	5	67	130	102	✓
West Yokine	5	110.0	120.0	118.0	(1)	4	0.008	0.014	0.011	✓	5	155.0	175.0	165.0	✓	5	100	120	108	✓
Whitfords	4	62.0	140.0	96.0	(1)	4	<0.008	0.018	0.011	✓	4	105.0	130.0	115.0	✓	4	76	130	104	✓
Yanchep	5	200.0	220.0	210.0	(1)	4	<0.008	<0.008	<0.008	✓	5	100.0	110.0	106.0	✓	6	230	250	242	(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	Aesthetic (Non-health related) Variables																			
Locality	Iron					Manganese					pH					Silicon				
	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	0.015	0.020	0.018	✓	2	0.004	0.004	0.004	✓	3	7.39	7.92	7.60	✓	2	3.8	4.4	4.1	✓
Bold Park	2	0.025	0.030	0.028	✓	2	0.005	0.005	0.005	✓	2	7.69	7.73	7.71	✓	2	2.2	3.2	2.7	✓
Buckland Hill	5	0.010	0.060	0.028	✓	5	0.003	0.014	0.006	✓	5	7.80	8.14	7.98	✓	5	3.3	6.5	5.4	✓
Dwellingup	4	0.050	0.080	0.063	✓	4	<0.002	0.009	0.005	✓	4	6.75	7.36	6.98	✓	4	2.1	3.6	2.7	✓
Foothills	2	0.035	0.045	0.040	✓	2	0.006	0.006	0.006	✓	2	7.75	7.79	7.77	✓	2	12.0	15.0	13.5	✓
Greenmount	5	0.008	0.030	0.013	✓	5	<0.002	0.003	<0.002	✓	5	7.91	8.31	8.09	✓	5	9.4	17.0	13.3	✓
Greenmount/Darlington	2	0.025	0.025	0.025	✓	2	0.004	0.004	0.004	✓	2	8.04	8.07	8.06	✓	2	8.2	9.5	8.9	✓
Hamilton Hill	2	0.006	0.008	0.007	✓	2	0.004	0.004	0.004	✓	2	7.74	8.03	7.89	✓	2	4.3	4.7	4.5	✓
Hills Direct	2	0.010	0.120	0.065	✓	2	0.003	0.020	0.012	✓	3	7.55	7.71	7.63	✓	2	1.8	2.8	2.3	✓
Lexia	2	0.015	0.030	0.023	✓	2	0.002	0.009	0.006	✓	3	6.97	8.05	7.69	✓	2	16.0	21.0	18.5	✓
Mandurah	15	<0.003	0.180	0.019	✓	15	<0.002	0.020	<0.002	✓	15	7.75	8.64	8.13	✓	15	0.7	1.8	1.1	✓
Melville	4	0.030	0.045	0.036	✓	4	0.004	0.007	0.006	✓	4	7.78	8.14	7.99	✓	4	4.7	6.0	5.4	✓
Mirrabooka	4	0.025	0.050	0.036	✓	4	<0.002	0.003	<0.002	✓	4	6.90	7.83	7.18	✓	4	14.0	18.0	15.5	✓
Mt. Eliza	2	0.030	0.070	0.050	✓	2	0.005	0.007	0.006	✓	2	7.86	7.97	7.92	✓	2	5.1	6.4	5.8	✓
Mt. Hawthorn	5	0.025	0.060	0.039	✓	5	0.003	0.006	0.004	✓	5	7.53	8.01	7.77	✓	5	16.0	18.0	17.4	✓
Mt. Yokine	5	0.010	0.140	0.049	✓	5	<0.002	0.016	0.005	✓	5	7.54	7.85	7.74	✓	5	16.0	18.0	17.0	✓
Mundaring	2	<0.003	0.006	<0.003	✓	2	<0.002	<0.002	<0.002	✓	6	8.05	8.51	8.26	✓	2	5.7	5.7	5.7	✓
Neerabup	4	0.008	0.020	0.015	✓	4	<0.002	0.004	<0.002	✓	4	7.29	7.67	7.50	✓	4	17.0	21.0	19.8	✓
North Dandalup	5	0.010	0.030	0.018	✓	5	<0.002	<0.002	<0.002	✓	5	7.34	8.72	8.04	✓	5	1.2	3.3	1.8	✓
Pinjarra	4	0.004	0.010	0.006	✓	4	<0.002	<0.002	<0.002	✓	4	8.00	8.53	8.28	✓	4	0.9	1.5	1.2	✓
South Perth/Kewdale	3	0.015	0.020	0.018	✓	3	0.003	0.003	0.003	✓	3	7.40	7.79	7.59	✓	3	1.8	16.0	9.6	✓
Tamworth Hill	5	<0.003	0.008	0.005	✓	5	<0.002	<0.002	<0.002	✓	6	7.83	8.33	8.07	✓	5	0.8	1.4	1.2	✓
Thomsons Lake	4	<0.003	0.004	<0.003	✓	4	<0.002	0.006	0.004	✓	4	7.73	7.89	7.83	✓	4	3.3	6.0	5.0	✓
Two Rocks	4	<0.003	<0.003	<0.003	✓	4	<0.002	<0.002	<0.002	✓	4	7.37	7.72	7.52	✓	4	11.0	12.0	11.8	✓
Wanneroo	5	0.008	0.015	0.010	✓	5	0.002	0.004	0.003	✓	5	7.14	7.98	7.58	✓	5	17.0	18.0	17.8	✓
West Yokine	5	0.010	0.035	0.024	✓	5	<0.002	0.004	0.003	✓	5	7.81	7.95	7.88	✓	5	18.0	19.0	18.2	✓
Whitfords	4	0.008	0.020	0.015	✓	4	<0.002	0.006	0.003	✓	4	7.61	8.12	7.76	✓	4	17.0	20.0	17.8	✓
Yanchep	5	<0.003	<0.003	<0.003	✓	5	<0.002	<0.002	<0.002	✓	5	7.30	7.51	7.38	✓	5	15.0	15.0	15.0	✓

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Table 5 Aesthetic (Non-health related) Variables

Perth Region	Aesthetic (Non-health related) Variables																				
Locality	Samples Taken	Sodium				Guideline Met	Samples Taken	TDS			Guideline Met	Samples Taken	True Colour			Guideline Met	Samples Taken	Turbidity			Guideline Met
		Concentration (mg/L)			Mean Value			Min	Max	Mean			Min	Max	Mean			Min	Max	Mean	
Armadale/Kelmscott	2	95.0	105.0	100.0		✓	2	381	428	405	✓	2	<1	<1	<1	✓	2	0.1	0.3	0.2	✓
Bold Park	2	27.0	60.0	43.5	✓	2	161	276	219	✓	2	<1	<1	<1	✓	2	0.2	0.2	0.2	✓	
Buckland Hill	5	63.0	130.0	109.6	✓	5	284	479	418	✓	5	<1	<1	<1	✓	5	<0.1	0.4	0.2	✓	
Dwellingup	4	33.0	39.0	36.0	✓	4	139	163	148	✓	4	<1	2	2	✓	4	0.2	0.8	0.5	✓	
Foothills	2	85.0	125.0	105.0	✓	2	407	503	455	✓	2	<1	<1	<1	✓	2	0.2	0.2	0.2	✓	
Greenmount	5	84.0	115.0	103.0	✓	5	397	513	463	✓	5	<1	<1	<1	✓	5	<0.1	0.2	<0.1	✓	
Greenmount/Darlington	2	77.0	100.0	88.5	✓	2	357	445	401	✓	2	<1	<1	<1	✓	2	0.1	0.2	0.2	✓	
Hamilton Hill	2	95.0	97.0	96.0	✓	2	407	413	410	✓	2	<1	<1	<1	✓	2	0.1	0.1	0.1	✓	
Hills Direct	2	51.0	51.0	51.0	✓	2	235	245	240	✓	2	<1	<1	<1	✓	2	0.4	0.7	0.6	✓	
Lexia	2	53.0	71.0	62.0	✓	2	369	454	412	✓	2	<1	<1	<1	✓	2	0.1	0.2	0.2	✓	
Mandurah	15	20.0	25.0	22.7	✓	15	139	161	150	✓	15	<1	<1	<1	✓	15	<0.1	1.2	<0.1	✓	
Melville	4	89.0	130.0	109.3	✓	4	364	470	411	✓	4	<1	<1	<1	✓	4	0.1	0.4	0.3	✓	
Mirrabooka	4	61.0	115.0	97.5	✓	4	352	534	466	✓	4	<1	<1	<1	✓	4	<0.1	0.2	<0.1	✓	
Mt. Eliza	2	100.0	140.0	120.0	✓	2	398	495	447	✓	2	<1	<1	<1	✓	2	0.2	0.2	0.2	✓	
Mt. Hawthorn	5	115.0	140.0	127.0	✓	5	512	582	544	✓	5	<1	<1	<1	✓	5	<0.1	0.3	0.2	✓	
Mt. Yokine	5	110.0	145.0	127.0	✓	5	496	580	545	✓	5	<1	<1	<1	✓	5	<0.1	0.3	<0.1	✓	
Mundaring	2	82.0	100.0	91.0	✓	2	360	418	389	✓	2	<1	<1	<1	✓	2	0.1	0.2	0.2	✓	
Neerabup	4	69.0	115.0	82.5	✓	4	470	539	512	✓	4	<1	<1	<1	✓	4	0.1	0.4	0.3	✓	
North Dandalup	5	22.0	35.0	26.4	✓	5	141	161	153	✓	5	<1	<1	<1	✓	5	<0.1	0.2	<0.1	✓	
Pinjarra	4	21.0	24.0	22.5	✓	4	129	160	147	✓	4	<1	<1	<1	✓	4	<0.1	<0.1	<0.1	✓	
South Perth/Kewdale	3	28.0	110.0	77.7	✓	3	168	484	356	✓	3	<1	<1	<1	✓	3	<0.1	0.2	<0.1	✓	
Tamworth Hill	5	19.0	23.0	21.4	✓	5	144	158	151	✓	5	<1	<1	<1	✓	5	<0.1	0.2	<0.1	✓	
Thomsons Lake	4	90.0	130.0	118.8	✓	4	386	520	473	✓	4	<1	<1	<1	✓	4	<0.1	<0.1	<0.1	✓	
Two Rocks	4	55.0	59.0	56.8	✓	4	504	535	523	✓	4	<1	<1	<1	✓	4	<0.1	0.2	<0.1	✓	
Wanneroo	5	58.0	115.0	78.4	✓	5	298	516	398	✓	5	<1	<1	<1	✓	5	<0.1	0.2	<0.1	✓	
West Yokine	5	110.0	130.0	123.0	✓	5	502	536	528	✓	5	<1	<1	<1	✓	5	<0.1	0.2	<0.1	✓	
Whitfords	4	65.0	80.0	74.0	✓	4	360	440	393	✓	4	<1	<1	<1	✓	4	0.1	0.2	0.1	✓	
Yanchep	5	51.0	54.0	53.0	✓	5	519	549	535	✓	5	<1	<1	<1	✓	5	<0.1	0.2	<0.1	✓	