

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

Table 18 Aesthetic (Non-health related) Variables

South West Region	Alkalinity (as CaCO ₃)				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	
Allanson	2	14.0	23.0	18.5	(1)	2	0.014	0.016	0.015	✓	2	85.0	90.0	87.5	✓	2	50	58	54	✓
Augusta	4	63.0	66.0	64.0	(1)	4	<0.008	<0.008	<0.008	✓	4	135.0	150.0	141.3	✓	4	91	100	96	✓
Australind	8	120.0	140.0	126.3	(1)	8	<0.008	0.010	<0.008	✓	8	140.0	170.0	159.4	✓	8	77	110	92	✓
Balingup	2	71.0	98.0	84.5	(1)	2	0.035	0.040	0.038	✓	2	85.0	95.0	90.0	✓	2	98	110	104	✓
Binningup	2	52.0	56.0	54.0	(1)	2	0.040	0.045	0.043	✓	2	34.0	35.0	34.5	✓	2	55	55	55	✓
Boyanup	2	110.0	120.0	115.0	(1)	2	<0.008	<0.008	<0.008	✓	2	95.0	100.0	97.5	✓	2	100	110	105	✓
Boyup Brook	4	73.0	92.0	84.0	(1)	4	0.025	0.050	0.036	✓	4	85.0	100.0	92.5	✓	4	97	120	112	✓
Bridgetown	2	83.0	83.0	83.0	(1)	2	0.030	0.065	0.048	✓	2	90.0	95.0	92.5	✓	2	100	100	100	✓
Brunswick Junction	2	120.0	130.0	125.0	(1)	2	<0.008	<0.008	<0.008	✓	2	160.0	170.0	165.0	✓	2	81	82	82	✓
Capel	4	76.0	79.0	78.0	(1)	4	<0.008	<0.008	<0.008	✓	4	55.0	60.0	58.8	✓	4	47	51	49	✓
Collie	8	5.0	22.0	12.9	(1)	8	0.012	0.035	0.020	✓	8	50.0	105.0	80.0	✓	8	25	53	39	✓
Cowaramup	4	29.0	45.0	37.8	(1)	4	0.010	0.030	0.020	✓	4	80.0	90.0	83.8	✓	4	37	43	40	✓
Dalyellup	2	130.0	140.0	135.0	(1)	2	<0.008	<0.008	<0.008	✓	2	90.0	95.0	92.5	✓	2	74	74	74	✓
Dardanup	2	60.0	84.0	72.0	(1)	2	<0.008	<0.008	<0.008	✓	2	85.0	85.0	85.0	✓	2	27	27	27	✓
Darkan	2	21.0	28.0	24.5	(1)	2	0.018	0.025	0.022	✓	2	80.0	105.0	92.5	✓	2	46	63	55	✓
Donnybrook	3	53.0	71.0	59.7	(1)	3	0.050	0.160	0.102	✓	3	165.0	250.0	220.0	✓	3	65	120	98	✓
Dunsborough	4	140.0	160.0	152.5	(1)	4	<0.008	<0.008	<0.008	✓	4	110.0	140.0	125.0	✓	4	65	83	72	✓
Eaton	2	100.0	100.0	100.0	(1)	2	<0.008	<0.008	<0.008	✓	2	115.0	130.0	122.5	✓	2	110	110	110	✓
Greenbushes	4	69.0	99.0	84.8	(1)	4	0.025	0.075	0.045	✓	4	80.0	95.0	90.0	✓	4	100	110	105	✓
Harvey	2	12.0	51.0	31.5	(1)	2	0.016	0.035	0.026	✓	2	33.0	60.0	46.5	✓	2	32	53	43	✓
Hester TWS	3	68.0	100.0	88.3	(1)	3	0.035	0.055	0.042	✓	3	85.0	90.0	86.7	✓	3	92	120	104	✓
Kirup	4	10.0	59.0	33.3	(1)	3	0.008	0.140	0.053	✓	4	45.0	245.0	128.8	✓	4	18	110	53	✓
Logue Brook	2	54.0	56.0	55.0	(1)	2	0.030	0.045	0.038	✓	2	33.0	60.0	46.5	✓	2	53	56	55	✓
Manjimup	2	30.0	36.0	33.0	(1)	2	0.010	0.045	0.028	✓	2	70.0	75.0	72.5	✓	2	73	77	75	✓
Margaret River	4	31.0	54.0	41.3	(1)	4	0.010	0.035	0.021	✓	4	85.0	90.0	86.3	✓	4	37	42	40	✓
Mullalup	2	9.0	58.0	33.5	(1)	2	0.010	0.330	0.170	✓	2	85.0	250.0	167.5	✓	2	26	130	78	✓
Myalup	2	44.0	55.0	49.5	(1)	2	0.030	0.050	0.040	✓	2	37.0	38.0	37.5	✓	2	45	62	54	✓
Nannup	5	3.0	9.0	6.8	(1)	5	0.012	0.020	0.017	✓	5	50.0	60.0	55.0	✓	5	37	49	43	✓
Northcliffe	3	28.0	37.0	31.3	(1)	3	0.025	0.045	0.032	✓	3	75.0	80.0	78.3	✓	3	55	69	62	✓
Pemberton	2	17.0	27.0	22.0	(1)	2	0.016	0.030	0.023	✓	2	75.0	80.0	77.5	✓	2	45	54	50	✓
Peppermint Grove	4	87.0	89.0	88.3	(1)	4	<0.008	<0.008	<0.008	✓	4	60.0	60.0	60.0	✓	4	54	57	56	✓
Preston Beach	4	250.0	280.0	272.5	(1)	4	<0.008	<0.008	<0.008	✓	4	170.0	235.0	198.8	✓	4	310	330	325	(2)
Quinninup	4	24.0	36.0	30.8	(1)	4	0.025	0.035	0.029	✓	4	75.0	85.0	80.0	✓	4	65	72	68	✓
Waroona	2	42.0	51.0	46.5	(1)	2	0.035	0.040	0.038	✓	2	42.0	45.0	43.5	✓	2	64	66	65	✓
Yarloop	2	55.0	55.0	55.0	(1)	2	0.025	0.025	0.025	✓	2	35.0	36.0	35.5	✓	2	56	57	57	✓

(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 19 Aesthetic (Non-health related) Variables

South West 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	
Allanson	2	0.045	0.140	0.093	✓	2	0.010	0.012	0.011	✓	2	7.01	7.31	7.16	✓	2	2.1	2.3	2.2	✓
Augusta	4	0.060	0.070	0.063	✓	4	<0.002	<0.002	<0.002	✓	4	7.30	7.58	7.45	✓	4	11.0	16.0	14.0	✓
Australind	8	0.070	0.200	0.103	✓	8	<0.002	0.006	0.004	✓	8	7.18	8.04	7.70	✓	8	22.0	55.0	41.3	✓
Balingup	2	0.020	0.030	0.025	✓	2	<0.002	0.009	0.005	✓	2	8.14	8.29	8.22	✓	2	1.6	3.9	2.8	✓
Binningup	2	<0.003	0.010	0.005	✓	2	<0.002	<0.002	<0.002	✓	2	8.16	8.39	8.28	✓	2	1.0	1.1	1.1	✓
Boyanup	2	0.020	0.060	0.040	✓	2	<0.002	0.003	<0.002	✓	2	7.76	7.86	7.81	✓	2	18.0	19.0	18.5	✓
Boyup Brook	4	0.025	0.040	0.029	✓	4	<0.002	0.012	0.004	✓	4	7.73	8.02	7.86	✓	4	2.0	3.5	3.0	✓
Bridgetown	2	0.030	0.035	0.033	✓	2	<0.002	0.003	<0.002	✓	2	7.78	7.81	7.80	✓	2	3.3	3.5	3.4	✓
Brunswick Junction	2	0.100	0.100	0.100	✓	2	0.005	0.005	0.005	✓	2	7.74	7.94	7.84	✓	2	50.0	55.0	52.5	✓
Capel	4	0.050	0.060	0.055	✓	4	<0.002	<0.002	<0.002	✓	4	6.40	6.82	6.56	✓	4	14.0	14.0	14.0	✓
Collie	8	0.040	0.180	0.084	✓	8	0.008	0.050	0.017	✓	8	6.26	7.04	6.64	✓	8	1.0	5.1	2.2	✓
Cowaramup	4	0.070	0.260	0.128	✓	4	0.003	0.008	0.005	✓	4	7.12	7.61	7.35	✓	4	6.7	8.4	7.6	✓
Dalyellup	2	0.070	0.090	0.080	✓	2	0.014	0.016	0.015	✓	2	7.75	7.80	7.78	✓	2	15.0	16.0	15.5	✓
Dardanup	2	0.006	0.015	0.011	✓	2	<0.002	<0.002	<0.002	✓	2	6.91	7.61	7.26	✓	2	20.0	20.0	20.0	✓
Darkan	2	0.060	0.080	0.070	✓	2	0.006	0.016	0.011	✓	2	7.24	8.34	7.79	✓	2	1.9	3.5	2.7	✓
Donnybrook	3	0.008	0.100	0.056	✓	3	<0.002	0.003	<0.002	✓	3	6.76	7.16	6.92	✓	3	9.4	15.0	11.4	✓
Dunsborough	4	0.006	0.010	0.008	✓	4	<0.002	<0.002	<0.002	✓	4	8.07	8.34	8.17	✓	4	17.0	19.0	17.5	✓
Eaton	2	0.070	0.080	0.075	✓	2	<0.002	<0.002	<0.002	✓	2	7.08	7.29	7.19	✓	2	25.0	26.0	25.5	✓
Greenbushes	4	0.025	0.030	0.028	✓	4	<0.002	0.012	0.004	✓	4	7.75	8.10	7.93	✓	4	1.2	3.5	2.8	✓
Harvey	2	0.004	0.030	0.017	✓	2	<0.002	0.008	0.004	✓	2	6.98	8.21	7.60	✓	2	0.9	5.5	3.2	✓
Hester TWS	3	0.025	0.035	0.028	✓	3	<0.002	0.012	0.005	✓	3	8.18	8.56	8.35	✓	3	2.3	3.4	3.0	✓
Kirup	4	0.004	0.015	0.009	✓	4	<0.002	0.003	<0.002	✓	4	7.02	7.52	7.30	✓	4	2.2	9.8	6.3	✓
Logue Brook	2	0.020	0.020	0.020	✓	2	<0.002	<0.002	<0.002	✓	2	7.59	7.74	7.67	✓	2	1.6	4.1	2.9	✓
Manjimup	2	0.045	0.060	0.053	✓	2	0.007	0.016	0.012	✓	2	7.18	7.58	7.38	✓	2	4.6	6.3	5.5	✓
Margaret River	4	0.070	0.220	0.123	✓	4	0.004	0.007	0.006	✓	4	7.03	7.66	7.40	✓	4	6.7	8.7	7.7	✓
Mullalup	2	0.006	0.060	0.033	✓	2	<0.002	0.009	0.005	✓	2	6.97	8.05	7.51	✓	2	1.8	9.0	5.4	✓
Myalup	2	<0.003	<0.003	<0.003	✓	2	<0.002	<0.002	<0.002	✓	2	8.33	8.47	8.40	✓	2	1.6	1.7	1.7	✓
Nannup	5	<0.003	0.050	0.023	✓	5	<0.002	0.020	0.008	✓	5	6.34	7.55	7.03	✓	5	5.3	6.8	6.1	✓
Northcliffe	3	0.020	0.030	0.027	✓	3	0.003	0.035	0.015	✓	3	7.40	7.78	7.59	✓	3	4.9	6.5	5.5	✓
Pemberton	2	0.015	0.035	0.025	✓	2	0.014	0.016	0.015	✓	2	7.60	7.80	7.70	✓	2	4.4	5.9	5.2	✓
Peppermint Grove	4	0.020	0.040	0.031	✓	4	<0.002	<0.002	<0.002	✓	4	6.99	7.24	7.10	✓	4	15.0	15.0	15.0	✓
Preston Beach	4	0.004	0.010	0.006	✓	4	<0.002	<0.002	<0.002	✓	4	8.28	8.37	8.32	✓	4	16.0	17.0	16.8	✓
Quinninup	4	0.030	0.050	0.041	✓	4	0.002	0.016	0.009	✓	4	7.68	8.12	7.89	✓	4	5.1	6.3	5.6	✓
Waroona	2	0.004	0.008	0.006	✓	2	<0.002	<0.002	<0.002	✓	2	7.78	7.97	7.88	✓	2	2.1	4.8	3.5	✓
Yarloop	2	0.004	0.008	0.006	✓	2	<0.002	<0.002	<0.002	✓	2	7.69	7.94	7.82	✓	2	1.0	1.1	1.1	✓

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Table 20 Aesthetic (Non-health related) Variables

South West 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	
Allanson	2	45.0	53.0	49.0	✓	2	190	218	204	✓	2	<1	3	2	✓	2	0.3	0.6	0.5	✓
Augusta	4	67.0	71.0	69.5	✓	4	346	369	358	✓	4	<1	<1	<1	✓	4	<0.1	0.3	0.2	✓
Australind	8	91.0	125.0	112.3	✓	8	495	547	526	✓	8	<1	<1	<1	✓	8	0.1	0.5	0.3	✓
Balingup	2	45.0	52.0	48.5	✓	2	285	338	312	✓	2	<1	<1	<1	✓	2	0.1	0.3	0.2	✓
Binningup	2	22.0	23.0	22.5	✓	2	144	152	148	✓	2	<1	<1	<1	✓	2	<0.1	<0.1	<0.1	✓
Boyanup	2	61.0	63.0	62.0	✓	2	382	392	387	✓	2	<1	<1	<1	✓	2	<0.1	0.2	<0.1	✓
Boyup Brook	4	48.0	54.0	51.0	✓	4	297	338	318	✓	4	<1	<1	<1	✓	4	0.2	0.3	0.3	✓
Bridgetown	2	47.0	50.0	48.5	✓	2	304	313	309	✓	2	<1	1	<1	✓	2	0.2	0.9	0.6	✓
Brunswick Junction	2	115.0	115.0	115.0	✓	2	531	536	534	✓	2	<1	<1	<1	✓	2	0.3	0.4	0.4	✓
Capel	4	45.0	50.0	46.5	✓	4	260	272	265	✓	4	<1	<1	<1	✓	4	<0.1	0.3	<0.1	✓
Collie	8	32.0	51.0	41.9	✓	8	127	222	174	✓	8	<1	3	<1	✓	8	0.3	1.7	0.7	✓
Cowaramup	4	44.0	51.0	47.3	✓	4	215	243	231	✓	4	1	4	2	✓	4	0.2	0.8	0.6	✓
Dalyellup	2	75.0	80.0	77.5	✓	2	409	419	414	✓	2	<1	<1	<1	✓	2	0.4	0.4	0.4	✓
Dardanup	2	66.0	74.0	70.0	✓	2	264	303	284	✓	2	<1	<1	<1	✓	2	<0.1	0.1	<0.1	✓
Darkan	2	40.0	54.0	47.0	✓	2	188	241	215	✓	2	<1	3	2	✓	2	0.5	0.5	0.5	✓
Donnybrook	3	115.0	145.0	135.0	✓	3	429	537	499	✓	3	<1	<1	<1	✓	3	0.1	0.4	0.3	✓
Dunsborough	4	120.0	140.0	130.0	✓	4	493	556	525	✓	4	<1	<1	<1	✓	4	<0.1	0.1	<0.1	✓
Eaton	2	64.0	68.0	66.0	✓	2	395	414	405	✓	2	<1	<1	<1	✓	2	0.2	0.2	0.2	✓
Greenbushes	4	46.0	51.0	48.5	✓	4	278	339	310	✓	4	<1	<1	<1	✓	4	0.2	0.4	0.3	✓
Harvey	2	20.0	32.0	26.0	✓	2	134	140	137	✓	2	<1	<1	<1	✓	2	0.1	0.2	0.2	✓
Hester TWS	3	43.0	51.0	47.7	✓	3	277	337	313	✓	3	<1	<1	<1	✓	3	0.2	0.3	0.2	✓
Kirup	4	30.0	145.0	81.5	✓	4	122	527	305	✓	4	<1	<1	<1	✓	4	<0.1	0.2	<0.1	✓
Logue Brook	2	21.0	40.0	30.5	✓	2	148	201	175	✓	2	<1	<1	<1	✓	2	0.1	0.4	0.3	✓
Manjimup	2	39.0	41.0	40.0	✓	2	222	240	231	✓	2	<1	<1	<1	✓	2	0.3	0.4	0.4	✓
Margaret River	4	45.0	51.0	48.0	✓	4	220	259	238	✓	4	1	4	2	✓	4	0.3	1.0	0.6	✓
Mullalup	2	53.0	150.0	101.5	✓	2	195	556	376	✓	2	<1	<1	<1	✓	2	<0.1	0.4	0.2	✓
Myalup	2	25.0	26.0	25.5	✓	2	138	159	149	✓	2	<1	<1	<1	✓	2	<0.1	<0.1	<0.1	✓
Nannup	5	49.0	57.0	52.8	✓	5	209	234	220	✓	5	<1	<1	<1	✓	5	<0.1	0.3	<0.1	✓
Northcliffe	3	47.0	51.0	48.7	✓	3	225	248	239	✓	3	<1	<1	<1	✓	3	0.1	0.3	0.2	✓
Pemberton	2	53.0	55.0	54.0	✓	2	232	234	233	✓	2	<1	<1	<1	✓	2	0.2	0.2	0.2	✓
Peppermint Grove	4	44.0	48.0	46.0	✓	4	279	287	282	✓	4	<1	<1	<1	✓	4	<0.1	0.3	0.2	✓
Preston Beach	4	97.0	135.0	111.3	✓	4	775	841	811	(1)	4	<1	1	<1	✓	4	<0.1	0.2	<0.1	✓
Quinninup	4	45.0	52.0	46.8	✓	4	233	247	243	✓	4	<1	<1	<1	✓	4	0.1	0.3	0.2	✓
Waroona	2	23.0	25.0	24.0	✓	2	162	178	170	✓	2	<1	<1	<1	✓	2	<0.1	0.2	<0.1	✓
Yarloop	2	22.0	23.0	22.5	✓	2	153	159	156	✓	2	<1	<1	<1	✓	2	<0.1	<0.1	<0.1	✓

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