

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

Table 18 Aesthetic (Non-health related) Variables

South West 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	
Allanson	2	4	6	5	(1)	2	0.025	0.030	0.028	✓	2	50	60	55	✓	2	22	24	23	✓
Augusta	2	51	61	56	(1)	2	<0.008	<0.008	<0.008	✓	2	125	140	133	✓	2	76	92	84	✓
Australind	8	130	150	135	(1)	8	<0.008	<0.008	<0.008	✓	8	145	170	159	✓	8	74	120	96	✓
Balingup	2	78	110	94	(1)	2	0.014	0.030	0.022	✓	2	85	100	93	✓	2	110	130	120	✓
Binningup	2	29	54	42	(1)	2	0.016	0.035	0.026	✓	2	38	55	47	✓	2	48	55	52	✓
Boyanup	2	110	120	115	(1)	2	<0.008	<0.008	<0.008	✓	2	100	100	100	✓	2	110	110	110	✓
Boyup Brook	2	87	99	93	(1)	2	0.014	0.018	0.016	✓	2	90	100	95	✓	2	110	120	115	✓
Bridgetown	2	79	83	81	(1)	2	0.020	0.045	0.033	✓	2	90	105	98	✓	2	92	110	101	✓
Brunswick Junction	2	130	140	135	(1)	2	<0.008	<0.008	<0.008	✓	2	170	170	170	✓	2	80	84	82	✓
Capel	4	75	79	77	(1)	4	<0.008	<0.008	<0.008	✓	4	55	60	58	✓	4	47	49	48	✓
Collie	8	2	16	11	(1)	8	0.010	0.040	0.022	✓	8	55	85	74	✓	8	22	44	36	✓
Cowaramup	4	23	36	29	(1)	4	0.014	0.030	0.024	✓	4	80	95	88	✓	4	34	41	37	✓
Dalyellup	2	140	140	140	(1)	2	<0.008	<0.008	<0.008	✓	2	95	100	98	✓	2	78	83	81	✓
Dardanup	2	70	73	72	(1)	2	<0.008	<0.008	<0.008	✓	2	85	85	85	✓	2	27	27	27	✓
Darkan	2	11	25	18	(1)	2	0.014	0.016	0.015	✓	2	55	95	75	✓	2	35	57	46	✓
Donnybrook	2	66	76	71	(1)	2	0.060	0.070	0.065	✓	2	160	165	163	✓	2	59	64	62	✓
Dunsborough	4	130	150	140	(1)	4	<0.008	0.012	<0.008	✓	4	130	150	141	✓	4	64	73	69	✓
Eaton	2	96	110	103	(1)	2	<0.008	<0.008	<0.008	✓	2	125	130	128	✓	2	110	120	115	✓
Greenbushes	2	82	98	90	(1)	2	0.010	0.040	0.025	✓	2	95	95	95	✓	2	110	120	115	✓
Harvey	2	30	54	42	(1)	2	0.012	0.030	0.021	✓	2	38	55	47	✓	2	49	56	53	✓
Hester TWS	4	69	100	84	(1)	4	0.012	0.065	0.033	✓	4	80	105	95	✓	4	82	120	101	✓
Kirup	4	5	78	39	(1)	4	0.008	0.095	0.049	✓	4	45	200	123	✓	4	18	92	49	✓
Logue Brook	2	57	62	60	(1)	2	0.030	0.140	0.085	✓	2	75	135	105	✓	2	54	74	64	✓
Manjimup	2	35	44	40	(1)	2	0.016	0.025	0.021	✓	2	75	85	80	✓	2	76	82	79	✓
Margaret River	4	23	34	29	(1)	4	0.012	0.030	0.024	✓	4	80	95	89	✓	4	34	40	38	✓
Mullalyup	4	4	110	46	(1)	4	<0.008	0.120	0.042	✓	4	46	155	95	✓	4	18	100	50	✓
Myalup	2	32	57	45	(1)	2	0.010	0.030	0.020	✓	2	35	55	45	✓	2	53	58	56	✓
Nannup	2	6	6	6	(1)	2	0.020	0.020	0.020	✓	2	42	60	51	✓	2	29	41	35	✓
Northcliffe	2	20	34	27	(1)	2	0.030	0.040	0.035	✓	2	75	90	83	✓	2	61	69	65	✓
Pemberton	2	23	26	25	(1)	2	0.014	0.025	0.020	✓	2	65	70	68	✓	2	45	47	46	✓
Peppermint Grove	4	84	90	87	(1)	4	<0.008	<0.008	<0.008	✓	4	55	65	61	✓	4	57	58	57	✓
Preston Beach	4	270	280	278	(1)	4	<0.008	<0.008	<0.008	✓	4	180	200	193	✓	4	320	330	325	(2)
Quinninup	4	26	46	35	(1)	4	0.030	0.050	0.036	✓	4	70	100	84	✓	4	63	86	70	✓
Waroona	2	46	54	50	(1)	2	0.012	0.025	0.019	✓	2	42	45	44	✓	2	57	61	59	✓
Yarloop	2	42	51	47	(1)	2	<0.008	0.035	0.018	✓	2	34	38	36	✓	2	52	58	55	✓

(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	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	
Allanson	2	0.025	0.050	0.038	✓	2	0.002	0.004	0.003	✓	2	6.68	6.86	6.77	✓	2	5.1	5.8	5.5	✓
Augusta	2	0.070	0.080	0.075	✓	2	0.002	0.002	0.002	✓	2	7.19	7.41	7.30	✓	2	14.0	16.0	15.0	✓
Australind	8	0.035	0.140	0.076	✓	8	<0.002	0.007	0.003	✓	8	7.23	8.06	7.68	✓	8	22.0	55.0	38.1	✓
Balingup	2	0.008	0.040	0.024	✓	2	<0.002	0.003	<0.002	✓	2	7.97	8.43	8.20	✓	2	5.1	5.5	5.3	✓
Binningup	2	0.004	0.020	0.012	✓	2	<0.002	0.005	0.003	✓	2	7.59	8.23	7.91	✓	2	1.0	5.7	3.4	✓
Boyanup	2	0.006	0.020	0.013	✓	2	<0.002	<0.002	<0.002	✓	2	7.96	8.08	8.02	✓	2	18.0	19.0	18.5	✓
Boyup Brook	2	0.015	0.020	0.018	✓	2	<0.002	0.004	<0.002	✓	2	7.90	8.20	8.05	✓	2	5.2	5.4	5.3	✓
Bridgetown	2	0.020	0.020	0.020	✓	2	0.002	0.003	0.003	✓	2	7.73	7.93	7.83	✓	2	0.7	5.5	3.1	✓
Brunswick Junction	2	0.030	0.060	0.045	✓	2	0.003	0.006	0.005	✓	2	7.64	7.99	7.82	✓	2	50.0	50.0	50.0	✓
Capel	4	0.050	0.060	0.053	✓	4	<0.002	<0.002	<0.002	✓	4	6.60	6.95	6.74	✓	4	14.0	14.0	14.0	✓
Collie	8	0.025	0.120	0.072	✓	8	0.003	0.02	0.012	✓	8	6.34	6.80	6.61	✓	8	1.5	5.9	2.9	✓
Cowaramup	4	0.090	0.280	0.213	✓	4	0.006	0.02	0.011	✓	4	6.92	7.33	7.09	✓	4	4.9	8.2	6.3	✓
Dalyellup	2	0.045	0.060	0.053	✓	2	0.006	0.01	0.008	✓	2	7.79	8.00	7.90	✓	2	16.0	16.0	16.0	✓
Dardanup	2	0.006	0.010	0.008	✓	2	<0.002	<0.002	<0.002	✓	2	7.56	7.77	7.67	✓	2	19.0	19.0	19.0	✓
Darkan	2	0.040	0.080	0.060	✓	2	0.002	0.004	0.003	✓	2	7.29	8.20	7.75	✓	2	2.7	6.3	4.5	✓
Donnybrook	2	0.004	0.050	0.027	✓	2	0.002	0.003	0.003	✓	2	7.30	7.73	7.52	✓	2	10.0	14.0	12.0	✓
Dunsborough	4	0.006	0.020	0.013	✓	4	<0.002	<0.002	<0.002	✓	4	8.03	8.14	8.10	✓	4	16.0	17.0	16.5	✓
Eaton	2	0.080	0.090	0.085	✓	2	0.002	0.002	0.002	✓	2	7.14	7.21	7.18	✓	2	27.0	27.0	27.0	✓
Greenbushes	2	0.020	0.025	0.023	✓	2	<0.002	0.004	<0.002	✓	2	7.86	8.01	7.94	✓	2	5.1	5.9	5.5	✓
Harvey	2	<0.003	0.030	0.015	✓	2	<0.002	0.007	0.004	✓	2	7.40	8.53	7.97	✓	2	0.9	6.0	3.5	✓
Hester TWS	4	0.010	0.035	0.021	✓	4	<0.002	0.014	0.004	✓	4	8.15	8.97	8.47	✓	4	0.9	5.1	3.2	✓
Kirup	4	0.008	0.015	0.010	✓	4	<0.002	<0.002	<0.002	✓	4	6.86	7.97	7.56	✓	4	4.2	9.5	6.7	✓
Logue Brook	2	0.020	0.025	0.023	✓	2	<0.002	0.003	<0.002	✓	2	7.78	7.86	7.82	✓	2	4.7	6.2	5.5	✓
Manjimup	2	0.035	0.050	0.043	✓	2	0.005	0.009	0.007	✓	2	6.63	7.67	7.15	✓	2	4.8	6.9	5.9	✓
Margaret River	4	0.100	0.340	0.235	✓	4	0.006	0.018	0.010	✓	4	7.17	7.50	7.32	✓	4	4.8	7.5	6.2	✓
Mullalyup	4	0.004	0.020	0.009	✓	4	<0.002	<0.002	<0.002	✓	4	6.15	8.14	7.26	✓	4	4.0	9.3	6.2	✓
Myalup	2	<0.003	0.035	0.018	✓	2	<0.002	0.005	0.003	✓	2	7.57	8.25	7.91	✓	2	1.0	5.5	3.3	✓
Nannup	2	0.060	0.080	0.070	✓	2	<0.002	<0.002	<0.002	✓	2	7.19	7.21	7.20	✓	2	5.2	6.6	5.9	✓
Northcliffe	2	0.040	0.060	0.050	✓	2	0.005	0.012	0.009	✓	2	7.43	7.53	7.48	✓	2	5.1	5.3	5.2	✓
Pemberton	2	0.015	0.020	0.018	✓	2	<0.002	<0.002	<0.002	✓	2	7.59	7.70	7.65	✓	2	4.7	6.0	5.4	✓
Peppermint Grove	4	0.030	0.060	0.041	✓	4	<0.002	<0.002	<0.002	✓	4	7.08	7.34	7.19	✓	4	15.0	15.0	15.0	✓
Preston Beach	4	0.004	0.010	0.008	✓	4	<0.002	<0.002	<0.002	✓	4	7.99	8.44	8.24	✓	4	16.0	17.0	16.3	✓
Quinninup	4	0.050	0.080	0.063	✓	4	0.003	0.014	0.007	✓	4	7.29	8.30	7.82	✓	4	3.9	6.2	5.1	✓
Waroona	2	0.010	0.020	0.015	✓	2	<0.002	0.005	0.003	✓	2	7.70	7.72	7.71	✓	2	3.0	4.4	3.7	✓
Yarloop	2	0.004	0.010	0.007	✓	2	<0.002	<0.002	<0.002	✓	2	7.54	7.61	7.58	✓	2	1.0	2.6	1.8	✓

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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	28	31	30	✓	2	113	120	117	✓	2	<1	1	<1	✓	2	0.3	0.4	0.4	✓
Augusta	2	63	72	68	✓	2	313	352	333	✓	2	<1	<1	<1	✓	2	0.2	0.2	0.2	✓
Australind	8	96	130	111	✓	8	507	552	533	✓	8	<1	3	2	✓	8	0.2	0.3	0.2	✓
Balingup	2	44	53	49	✓	2	302	365	334	✓	2	<1	<1	<1	✓	2	0.2	0.3	0.3	✓
Binningup	2	24	28	26	✓	2	152	153	153	✓	2	<1	<1	<1	✓	2	0.2	0.4	0.3	✓
Boyanup	2	62	63	63	✓	2	382	398	390	✓	2	<1	<1	<1	✓	2	<0.1	<0.1	<0.1	✓
Boyup Brook	2	45	53	49	✓	2	315	353	334	✓	2	<1	<1	<1	✓	2	0.2	0.4	0.3	✓
Bridgetown	2	51	53	52	✓	2	311	319	315	✓	2	<1	<1	<1	✓	2	0.2	0.4	0.3	✓
Brunswick Junction	2	120	130	125	✓	2	553	560	557	✓	2	<1	<1	<1	✓	2	0.2	0.5	0.4	✓
Capel	4	45	47	46	✓	4	257	268	262	✓	4	<1	<1	<1	✓	4	0.1	0.2	0.2	✓
Collie	8	30	47	40	✓	8	112	190	162	✓	8	<1	4	2	✓	8	0.2	0.9	0.6	✓
Cowaramup	4	43	52	48	✓	4	205	231	220	✓	4	1	9	5	✓	4	0.4	1.1	0.8	✓
Dalyellup	2	76	87	82	✓	2	423	429	426	✓	2	<1	<1	<1	✓	2	0.3	0.4	0.4	✓
Dardanup	2	70	72	71	✓	2	282	284	283	✓	2	<1	<1	<1	✓	2	0.1	0.2	0.2	✓
Darkan	2	31	46	39	✓	2	132	210	171	✓	2	<1	1	<1	✓	2	0.2	0.4	0.3	✓
Donnybrook	2	115	120	118	✓	2	420	435	428	✓	2	<1	<1	<1	✓	2	0.1	0.3	0.2	✓
Dunsborough	4	120	150	134	✓	4	530	589	551	✓	4	<1	<1	<1	✓	4	<0.1	0.4	0.2	✓
Eaton	2	64	66	65	✓	2	394	419	407	✓	2	<1	<1	<1	✓	2	0.2	0.3	0.3	✓
Greenbushes	2	47	50	49	✓	2	315	339	327	✓	2	<1	<1	<1	✓	2	0.2	0.2	0.2	✓
Harvey	2	24	30	27	✓	2	153	156	155	✓	2	<1	<1	<1	✓	2	0.2	0.4	0.3	✓
Hester TWS	4	43	54	50	✓	4	286	348	314	✓	4	<1	2	<1	✓	4	0.1	0.4	0.3	✓
Kirup	4	32	120	78	✓	4	121	477	302	✓	4	<1	<1	<1	✓	4	<0.1	0.2	1.0	✓
Logue Brook	2	51	81	66	✓	2	236	332	284	✓	2	<1	<1	<1	✓	2	0.1	0.3	0.2	✓
Manjimup	2	37	44	41	✓	2	232	262	247	✓	2	<1	<1	<1	✓	2	0.3	0.3	0.3	✓
Margaret River	4	43	54	48	✓	4	203	232	221	✓	4	1	8	6	✓	4	0.5	1.1	0.9	✓
Mullalyup	4	32	140	84	✓	4	121	436	289	✓	4	<1	<1	<1	✓	4	<0.1	0.2	1.0	✓
Myalup	2	20	30	25	✓	2	151	164	158	✓	2	<1	<1	<1	✓	2	0.1	0.4	0.3	✓
Nannup	2	45	53	49	✓	2	176	216	196	✓	2	<1	<1	<1	✓	2	0.1	0.2	0.2	✓
Northcliffe	2	44	49	47	✓	2	217	251	234	✓	2	<1	<1	<1	✓	2	0.2	0.2	0.2	✓
Pemberton	2	48	56	52	✓	2	211	226	219	✓	2	<1	<1	<1	✓	2	<0.1	0.2	0.1	✓
Peppermint Grove	4	45	48	46	✓	4	279	289	282	✓	4	<1	<1	<1	✓	4	<0.1	0.2	1.0	✓
Preston Beach	4	95	110	104	✓	4	773	818	802	(1)	4	<1	1	<1	✓	4	0.1	0.3	0.2	✓
Quinninup	4	43	51	47	✓	4	232	266	246	✓	4	<1	<1	<1	✓	4	0.2	0.3	0.3	✓
Waroona	2	25	25	25	✓	2	157	169	163	✓	2	<1	<1	<1	✓	2	0.1	0.2	0.2	✓
Yarloop	2	22	23	23	✓	2	141	145	143	✓	2	<1	<1	<1	✓	2	<0.1	<0.1	<0.1	✓

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