Table 21 Aesthetic (non-health related) variables

South West Region	Alkalinity (as $CaCO_3$)					Aluminium					Chloride				
Locality	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	
Allanson	2	10	17	14	(7)	2	0.010	0.020	0.015	✓	2	75	85	80	✓
Augusta	2	30	56	43	(7)	2	<0.008	<0.008	<0.008	✓	2	145	160	153	✓
Australind	4	97	150	127	(7)	4	<0.008	<0.008	<0.008	✓	4	160	180	174	✓
Balingup	2	99	110	105	(7)	2	<0.008	0.010	<0.008	✓	2	105	110	108	✓
Binningup	2	33	48	41	(7)	2	0.008	0.030	0.019	✓	2	35	60	48	✓
Boyanup	4	110	120	115	(7)	4	<0.008	<0.008	<0.008	✓	4	100	105	101	✓
Boyup Brook	4	99	110	105	(7)	4	<0.008	<0.008	<0.008	✓	4	100	135	114	✓
Bridgetown	4	92	120	105	(7)	4	<0.008	0.025	0.013	✓	4	100	115	105	✓
Brunswick Junction	2	120	130	125	(7)	2	<0.008	<0.008	<0.008	✓	2	180	185	183	✓
Capel	4	72	76	74	(7)	4	<0.008	<0.008	<0.008	✓	4	60	60	60	✓
Collie	4	5	17	13	(7)	4	<0.008	0.025	<0.008	✓	4	60	90	80	✓
Cowaramup	4	36	50	44	(7)	4	<0.008	0.020	0.010	✓	4	85	90	89	✓
Dalyellup	2	130	130	130	(7)	1	<0.008	<0.008	<0.008	✓	2	105	110	108	✓
Dardanup	2	74	79	77	(7)	2	<0.008	<0.008	<0.008	✓	2	85	90	88	✓
Darkan	2	13	21	17	(7)	2	0.012	0.016	0.014	✓	2	70	85	78	✓
Donnybrook	2	87	97	92	(7)	2	0.055	0.070	0.063	✓	2	160	185	173	✓
Dunsborough	4	150	150	150	(7)	4	<0.008	<0.008	<0.008	✓	4	95	210	146	✓
Eaton	4	97	110	102	(7)	4	<0.008	<0.008	<0.008	✓	4	130	140	136	✓
Greenbushes	2	89	120	105	(7)	2	<0.008	0.025	0.013	✓	2	100	105	103	✓
Harvey	2	27	51	39	(7)	2	0.008	0.020	0.014	✓	2	33	60	47	✓
Hester	4	92	120	106	(7)	4	<0.008	<0.008	<0.008	✓	4	105	120	111	✓
Kirup	4	87	120	104	(7)	4	<0.008	0.030	0.015	✓	4	100	115	108	✓
Logue Brook	2	56	65	61	(7)	2	<0.008	<0.008	<0.008	✓	2	55	55	55	✓
Manjimup	4	29	77	52	(7)	4	0.010	0.035	0.025	✓	4	85	105	95	✓
Margaret River	4	41	53	47	(7)	4	<0.008	0.020	0.011	✓	4	85	95	90	✓
Mullalyup	4	87	120	102	(7)	4	<0.008	0.030	0.014	✓	4	105	115	110	✓
Myalup	2	35	49	42	(7)	2	<0.008	0.030	0.015	✓	2	32	65	49	✓
Nannup	2	5	15	10	(7)	2	0.014	0.014	0.014	✓	2	42	55	49	✓
Northcliffe	4	14	38	27	(7)	4	0.010	0.020	0.016	✓	4	75	95	80	✓
Pemberton	4	22	40	28	(7)	4	<0.008	0.020	0.012	✓	4	75	80	79	✓
Peppermint Grove	2	85	89	87	(7)	2	<0.008	<0.008	<0.008	✓	2	65	70	68	✓
Preston Beach	4	250	270	260	(7)	4	<0.008	<0.008	<0.008	✓	4	170	215	198	✓
Quinninup	2	19	40	30	(7)	2	0.014	0.020	0.017	✓	2	70	85	78	✓
Waroona	2	31	54	43	(7)	2	0.020	0.040	0.030	✓	2	34	50	42	✓
Yarloop	2	49	57	53	(7)	2	<0.008	<0.008	<0.008	✓	2	31	39	35	✓

(7) No guideline value available as per ADWG 2011.

Table 22 Aesthetic (non-health related) variables

South West Region	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
		Min	Max	Mean			Min	Max	Mean			Min	Max	Mean	
Allanson	2	35	41	38	✓	2	0.060	0.090	0.075	✓	2	0.020	0.030	0.025	✓
Augusta	2	63	84	74	✓	2	0.050	0.120	0.085	✓	2	0.002	0.003	0.003	✓
Australind	4	76	100	85	✓	4	0.020	0.050	0.033	✓	4	<0.002	<0.002	<0.002	✓
Balingup	2	130	130	130	✓	2	0.025	0.030	0.028	✓	2	<0.002	0.005	0.003	✓
Binningup	2	50	53	52	✓	2	0.020	0.035	0.028	✓	2	<0.002	0.004	<0.002	✓
Boyanup	4	100	110	105	✓	4	0.015	0.060	0.028	✓	4	<0.002	0.004	<0.002	✓
Boyup Brook	4	120	130	128	✓	4	0.010	0.120	0.055	✓	4	<0.002	0.030	0.010	✓
Bridgetown	4	110	130	120	✓	4	0.040	0.120	0.069	✓	4	0.003	0.010	0.008	✓
Brunswick Junction	2	81	84	83	✓	2	0.040	0.060	0.050	✓	2	0.002	0.004	0.003	✓
Capel	4	46	48	47	✓	4	0.070	0.070	0.070	✓	4	<0.002	<0.002	<0.002	✓
Collie	4	25	42	37	✓	4	0.060	0.080	0.065	✓	4	0.008	0.020	0.014	✓
Cowaramup	4	38	43	41	✓	4	0.050	0.180	0.113	✓	4	0.006	0.007	0.007	✓
Dalyellup	2	77	80	79	✓	2	0.020	0.060	0.040	✓	2	<0.002	0.016	0.008	✓
Dardanup	2	26	29	28	✓	2	0.008	0.008	0.008	✓	2	<0.002	<0.002	<0.002	✓
Darkan	2	37	50	44	✓	2	0.050	0.050	0.050	✓	2	0.003	0.007	0.005	✓
Donnybrook	2	61	73	67	✓	2	0.010	0.015	0.013	✓	2	0.004	0.007	0.006	✓
Dunsborough	4	74	88	81	✓	4	<0.003	0.010	0.006	✓	4	<0.002	<0.002	<0.002	✓
Eaton	4	110	120	118	✓	4	0.050	0.080	0.068	✓	4	<0.002	0.003	<0.002	✓
Greenbushes	2	110	140	125	✓	2	0.030	0.540	0.285	(10)	2	0.002	0.014	0.008	✓
Harvey	2	45	53	49	✓	2	<0.003	0.025	0.013	✓	2	<0.002	0.005	0.003	✓
Hester	4	130	150	135	✓	4	0.025	0.080	0.055	✓	4	0.004	0.018	0.008	✓
Kirup	4	120	130	123	✓	4	0.010	0.100	0.046	✓	4	<0.002	0.007	0.004	✓
Logue Brook	2	61	62	62	✓	2	0.020	0.050	0.035	✓	2	<0.002	<0.002	<0.002	✓
Manjimup	4	65	110	91	✓	4	0.025	0.050	0.034	✓	4	0.005	0.030	0.016	✓
Margaret River	4	38	44	42	✓	4	0.060	0.180	0.110	✓	4	0.006	0.012	0.009	✓
Mullalyup	4	110	140	125	✓	4	0.020	0.035	0.028	✓	4	<0.002	0.004	<0.002	✓
Myalup	2	51	54	53	✓	2	<0.003	0.025	0.013	✓	2	<0.002	0.014	0.007	✓
Nannup	2	49	51	50	✓	2	0.015	0.020	0.018	✓	2	<0.002	0.025	0.013	✓
Northcliffe	4	46	61	51	✓	4	0.010	0.020	0.014	✓	4	<0.002	0.005	<0.002	✓
Pemberton	4	49	57	53	✓	4	0.006	0.020	0.013	✓	4	<0.002	0.003	<0.002	✓
Peppermint Grove	2	56	56	56	✓	2	0.045	0.045	0.045	✓	2	<0.002	<0.002	<0.002	✓
Preston Beach	4	280	300	290	(9)	4	0.006	0.008	0.008	✓	4	<0.002	<0.002	<0.002	✓
Quinninup	2	55	56	56	✓	2	0.010	0.030	0.020	✓	2	<0.002	0.005	0.003	✓
Waroona	2	50	54	52	✓	2	0.004	0.006	0.005	✓	2	<0.002	<0.002	<0.002	✓
Yarloop	2	49	52	51	✓	2	0.006	0.008	0.007	✓	2	<0.002	<0.002	<0.002	✓

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

(10) Elevated iron associated with short-term operational changes or as a result of distruption to pipework in association with historic iron build up in pipes.

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Table 23 Aesthetic (non-health related) variables

South West Region	pH					Silica					Sodium				
Locality	Samples Taken	Value (pH units)			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	
Allanson	2	6.71	6.82	6.77	✓	2	2.2	2.5	2.4	✓	2	38	44	41	✓
Augusta	2	7.08	7.31	7.20	✓	2	14.0	15.0	14.5	✓	2	70	70	70	✓
Australind	4	6.78	7.94	7.27	✓	4	32.0	50.0	43.3	✓	4	110	125	118	✓
Balingup	2	8.21	8.22	8.22	✓	2	6.7	10.0	8.4	✓	2	53	54	54	✓
Binningup	2	7.68	7.87	7.78	✓	2	1.3	5.8	3.6	✓	2	20	29	25	✓
Boyanup	4	7.34	7.59	7.50	✓	4	18.0	20.0	18.8	✓	4	58	61	60	✓
Boyup Brook	4	7.73	8.13	7.98	✓	4	6.1	12.0	9.0	✓	4	49	63	54	✓
Bridgetown	4	7.67	8.09	7.89	✓	4	5.3	10.0	8.4	✓	4	47	53	51	✓
Brunswick Junction	2	7.74	7.90	7.82	✓	2	44.0	50.0	47.0	✓	2	120	125	123	✓
Capel	4	6.75	6.89	6.80	✓	4	13.0	16.0	14.0	✓	4	45	47	46	✓
Collie	4	6.56	6.98	6.75	✓	4	1.9	5.9	3.3	✓	4	32	45	41	✓
Cowaramup	4	7.59	7.68	7.63	✓	4	8.2	11.0	9.5	✓	4	48	49	49	✓
Dalyellup	2	7.45	7.75	7.60	✓	2	16.0	17.0	16.5	✓	2	75	83	79	✓
Dardanup	2	7.51	7.56	7.54	✓	2	20.0	21.0	20.5	✓	2	74	76	75	✓
Darkan	2	7.31	8.20	7.76	✓	2	3.4	5.4	4.4	✓	2	34	45	40	✓
Donnybrook	2	7.41	7.52	7.47	✓	2	13.0	17.0	15.0	✓	2	115	125	120	✓
Dunsborough	4	8.34	8.42	8.37	✓	4	16.0	18.0	16.8	✓	4	90	160	125	✓
Eaton	4	7.24	7.35	7.29	✓	4	29.0	32.0	30.5	✓	4	65	74	71	✓
Greenbushes	2	8.08	8.13	8.11	✓	2	4.8	19.0	11.9	✓	2	52	54	53	✓
Harvey	3	7.45	8.59	8.20	✓	2	0.8	5.6	3.2	✓	2	20	31	26	✓
Hester	4	8.12	8.24	8.20	✓	4	6.6	16.0	10.1	✓	4	48	57	52	✓
Kirup	4	8.22	8.30	8.25	✓	4	8.3	12.0	9.9	✓	4	50	61	55	✓
Logue Brook	2	7.72	7.75	7.74	✓	2	6.7	7.0	6.9	✓	2	31	31	31	✓
Manjimup	4	7.69	8.11	7.94	✓	4	3.7	6.3	4.9	✓	4	41	51	47	✓
Margaret River	4	7.34	7.72	7.55	✓	4	8.7	10.0	9.4	✓	4	46	54	50	✓
Mullalyup	4	7.82	8.11	7.96	✓	4	5.7	19.0	10.5	✓	4	48	54	52	✓
Myalup	2	7.84	8.63	8.24	✓	2	1.0	5.8	3.4	✓	2	19	32	26	✓
Nannup	2	7.18	7.26	7.22	✓	2	6.4	6.4	6.4	✓	2	48	49	49	✓
Northcliffe	4	7.31	8.07	7.82	✓	4	4.4	6.1	5.2	✓	4	53	64	57	✓
Pemberton	4	7.65	7.76	7.71	✓	4	4.6	8.3	5.8	✓	4	54	60	57	✓
Peppermint Grove	2	7.21	7.36	7.29	✓	2	15.0	15.0	15.0	✓	2	46	50	48	✓
Preston Beach	4	7.86	8.39	8.16	✓	4	15.0	18.0	16.3	✓	4	93	120	108	✓
Quinninup	2	7.73	7.78	7.76	✓	2	4.6	7.3	6.0	✓	2	53	59	56	✓
Waroona	4	7.52	7.94	7.70	✓	2	2.6	5.4	4.0	✓	2	19	28	24	✓
Yarloop	2	7.77	8.02	7.90	✓	2	0.9	1.9	1.4	✓	2	19	23	21	✓

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Table 24 Aesthetic (non-health related) variables

South West Region	Sulfate					Total Dissolved Solids					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	Max	Mean			Min	Max	Mean			Min	Max	Mean			Min	Max	Mean	
Allanson	2	12	12	12	✓	2	163	190	177	✓	2	1	3	2	✓	2	0.6	0.6	0.6	✓
Augusta	2	11	13	12	✓	2	320	348	334	✓	2	<1	<1	<1	✓	2	0.2	0.4	0.3	✓
Australind	4	12	17	14	✓	4	506	563	543	✓	4	<1	<1	<1	✓	4	0.1	0.2	0.2	✓
Balingup	2	14	20	17	✓	2	363	384	374	✓	2	<1	<1	<1	✓	2	0.2	0.4	0.3	✓
Binningup	2	1	9	5	✓	2	138	165	152	✓	2	<1	<1	<1	✓	2	0.1	0.3	0.2	✓
Boyanup	4	15	16	16	✓	4	384	393	387	✓	4	<1	<1	<1	✓	4	<0.1	<0.1	<0.1	✓
Boyup Brook	4	14	21	17	✓	4	360	407	379	✓	4	<1	2	<1	✓	4	0.1	1.6	0.6	✓
Bridgetown	4	14	21	17	✓	4	347	375	363	✓	4	<1	<1	<1	✓	4	0.2	1.2	0.7	✓
Brunswick Junction	2	12	13	13	✓	2	550	568	559	✓	2	<1	<1	<1	✓	2	<0.1	0.3	0.2	✓
Capel	4	18	18	18	✓	4	258	263	261	✓	4	<1	<1	<1	✓	4	0.1	0.2	0.1	✓
Collie	4	10	13	12	✓	4	126	195	173	✓	4	<1	1	<1	✓	4	0.4	0.6	0.5	✓
Cowaramup	4	12	15	14	✓	4	236	262	251	✓	4	<1	3	<1	✓	4	0.5	0.6	0.6	✓
Dalyellup	2	15	16	16	✓	2	418	426	422	✓	2	<1	<1	<1	✓	2	<0.1	0.4	0.2	✓
Dardanup	2	8	9	8	✓	2	299	300	300	✓	2	<1	<1	<1	✓	2	<0.1	<0.1	<0.1	✓
Darkan	2	10	13	12	✓	2	157	201	179	✓	2	<1	<1	<1	✓	2	0.3	0.4	0.4	✓
Donnybrook	2	13	13	13	✓	2	452	470	461	✓	2	<1	<1	<1	✓	2	0.1	0.2	0.2	✓
Dunsborough	4	16	41	29	✓	4	443	658	542	✓	4	<1	<1	<1	✓	4	<0.1	0.2	<0.1	✓
Eaton	4	14	16	15	✓	4	408	455	433	✓	4	<1	<1	<1	✓	4	0.1	0.2	0.1	✓
Greenbushes	2	12	17	15	✓	2	340	400	370	✓	2	<1	<1	<1	✓	2	0.3	2.1	1.2	✓
Harvey	2	1	9	5	✓	2	137	160	149	✓	2	<1	<1	<1	✓	2	<0.1	0.3	0.2	✓
Hester	4	12	22	15	✓	4	355	402	381	✓	4	<1	<1	<1	✓	4	0.3	0.8	0.5	✓
Kirup	4	15	19	18	✓	4	360	392	374	✓	4	<1	<1	<1	✓	4	0.2	0.5	0.4	✓
Logue Brook	2	5	6	5	✓	2	196	208	202	✓	2	<1	<1	<1	✓	2	<0.1	<0.1	<0.1	✓
Manjimup	4	21	41	30	✓	4	232	330	283	✓	4	<1	2	<1	✓	4	0.2	0.6	0.4	✓
Margaret River	4	13	15	14	✓	4	238	268	257	✓	4	<1	2	<1	✓	4	0.4	0.6	0.5	✓
Mullalyup	4	12	21	16	✓	4	339	401	367	✓	4	<1	<1	<1	✓	4	0.1	0.2	0.2	✓
Myalup	2	1	9	5	✓	2	133	176	155	✓	2	<1	<1	<1	✓	2	<0.1	0.2	<0.1	✓
Nannup	2	76	90	83	✓	2	219	230	225	✓	2	<1	<1	<1	✓	2	<0.1	<0.1	<0.1	✓
Northcliffe	4	41	57	46	✓	4	237	261	249	✓	4	<1	<1	<1	✓	4	<0.1	<0.1	<0.1	✓
Pemberton	4	41	63	49	✓	4	241	267	252	✓	4	<1	<1	<1	✓	4	<0.1	<0.1	<0.1	✓
Peppermint Grove	2	17	17	17	✓	2	284	298	291	✓	2	<1	<1	<1	✓	2	<0.1	0.1	<0.1	✓
Preston Beach	4	16	20	19	✓	4	746	788	775	(17)	4	<1	<1	<1	✓	4	<0.1	0.1	<0.1	✓
Quinninup	2	40	58	49	✓	2	247	257	252	✓	2	<1	<1	<1	✓	2	0.1	0.2	0.2	✓
Waroona	2	1	11	6	✓	2	145	156	151	✓	2	<1	<1	<1	✓	2	<0.1	<0.1	<0.1	✓
Yarloop	2	1	2	2	✓	2	142	146	144	✓	2	<1	<1	<1	✓	2	<0.1	<0.1	<0.1	✓

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