

Drinking Water Quality Annual Report Data 01/07/2016 to 30/06/2017

Table 6 Health related variables

Mid West	E. coli				Thermophilic Naegleria			Fluoride			Hydrocarbons		Metals		
Locality	Samples Taken	Samples >0 cfu/100mL	Max cfu/100mL	Requirement Met	Samples Taken	Samples with Thermophilic Naegleria	Requirement Met	Concentration (mg/L)			Samples Taken	Guideline Met	Samples Taken	Guideline Met	
								Min	Max	Mean					
Badgingarra	13	0	0	✓	9	0	✓	2	<0.1	<0.1	<0.1	0	(1)	2	✓
Bindoon /Chittering	52	0	0	✓	28	0	✓	2	0.35	0.35	0.35	1	✓	2	✓
Bolgart	13	0	0	✓	9	0	✓	2	0.20	0.20	0.20	0	(1)	2	✓
Calingiri	13	0	0	✓	9	0	✓	2	<0.1	<0.1	<0.1	0	(1)	2	✓
Carnamah	12	0	0	✓	12	0	✓	2	<0.1	<0.1	<0.1	0	(1)	2	✓
Carnarvon	63	0	0	✓	38	0	✓	2	0.55	0.60	0.58	0	(1)	2	✓
Cervantes	52	0	0	✓	9	0	✓	2	0.15	0.15	0.15	0	(1)	2	✓
Coomberdale	12	0	0	✓	8	0	✓	2	0.10	0.15	0.13	0	(1)	2	✓
Coorow	12	0	0	✓	12	0	✓	2	<0.1	<0.1	<0.1	0	(1)	2	✓
Coral Bay	12	0	0	✓	11	0	✓	3	<0.1	<0.1	<0.1	1	✓	2	✓
Cue	13	0	0	✓	13	0	✓	2	0.30	0.30	0.30	0	(1)	2	✓
Dandaragan	13	0	0	✓	9	0	✓	2	0.25	0.25	0.25	0	(1)	2	✓
Denham	49	0	0	✓	24	0	✓	2	<0.1	<0.1	<0.1	0	(1)	2	✓
Dongara/Denison	51	0	0	✓	26	0	✓	49	0.20	0.85	0.51 (2)	0	(1)	2	✓
Eneabba	13	0	0	✓	13	0	✓	2	0.15	0.15	0.15	0	(1)	6	✓
Exmouth	61	0	0	✓	39	0	✓	53	0.40	0.75	0.68 (2)	0	(1)	2	✓
Gascoyne Junction	25	0	0	✓	25	0	✓	2	<0.1	<0.1	<0.1	0	(1)	2	✓
Geraldton	168	0	0	✓	168	0	✓	56	0.75	0.90	0.80	1	✓	4	✓
Gingin	52	0	0	✓	18	0	✓	2	<0.1	<0.1	<0.1	0	(1)	2	✓
Greenhead	52	0	0	✓	12	0	✓	2	<0.1	<0.1	<0.1	0	(1)	5	✓
Guilderton	51	0	0	✓	17	0	✓	2	0.20	0.20	0.20	1	✓	2	✓
Horrocks	13	0	0	✓	13	0	✓	2	0.35	0.40	0.38	0	(1)	2	✓
Jurien Bay	52	0	0	✓	9	0	✓	1	0.30	0.30	0.30	0	(1)	2	✓
Kalbarri	52	0	0	✓	26	0	✓	2	<0.1	<0.1	<0.1	0	(1)	2	✓
Lancelin	52	0	0	✓	18	0	✓	2	0.20	0.20	0.20	0	(1)	2	✓
Latham	52	0	0	✓	13	0	✓	2	<0.1	<0.1	<0.1	0	(1)	2	✓
Ledge Point	52	0	0	✓	9	0	✓	2	0.15	0.15	0.15	0	(1)	2	✓
Leeman	52	0	0	✓	12	0	✓	2	<0.1	<0.1	<0.1	0	(1)	5	✓
Meekatharra	50	0	0	✓	13	0	✓	2	0.60	0.60	0.60	0	(1)	14	✓
Mingenew	13	0	0	✓	13	0	✓	2	0.15	0.15	0.15	0	(1)	2	✓
Moora	51	0	0	✓	16	0	✓	50	<0.1	0.85	0.34 (2)	0	(1)	2	✓
Morawa	52	0	0	✓	13	0	✓	2	<0.1	<0.1	<0.1	0	(1)	2	✓
Mt Magnet	50	0	0	✓	13	0	✓	2	0.30	0.30	0.30	0	(1)	2	✓
Mullewa	13	0	0	✓	13	0	✓	2	0.70	0.75	0.73	0	(1)	2	✓
Nabawa	26	0	0	✓	13	0	✓	2	0.75	0.80	0.78	0	(1)	2	✓
New Norcia	13	0	0	✓	9	0	✓	2	0.20	0.20	0.20	0	(1)	2	✓
Nilgern (Ocean Farms)	13	0	0	✓	9	0	✓	2	<0.1	<0.1	<0.1	2	✓	2	✓
Northampton	50	0	0	✓	12	0	✓	2	0.75	0.75	0.75	0	(1)	2	✓
Perenjori	13	0	0	✓	13	0	✓	2	<0.1	<0.1	<0.1	0	(1)	2	✓
Piawaning	26	0	0	✓	9	0	✓	2	<0.1	<0.1	<0.1	0	(1)	2	✓
Port Kalbarri	13	0	0	✓	13	0	✓	2	0.15	0.15	0.15	0	(1)	2	✓
Sandstone	12	0	0	✓	12	0	✓	2	0.40	0.45	0.43	0	(1)	6	✓
Seabird	26	0	0	✓	9	0	✓	3	0.25	0.30	0.27	0	(1)	2	✓
Seaview Park	13	0	0	✓	9	0	✓	2	<0.1	<0.1	<0.1	1	✓	2	✓
Sovereign Hills	26	0	0	✓	17	0	✓	2	<0.1	<0.1	<0.1	0	(1)	5	✓
Three Springs	13	0	0	✓	13	0	✓	2	<0.1	<0.1	<0.1	0	(1)	2	✓
Watheroo	13	0	0	✓	9	0	✓	2	<0.1	<0.1	<0.1	2	✓	2	✓
Woodridge	13	0	0	✓	9	0	✓	2	0.25	0.30	0.28	0	(1)	2	✓
Yalgoo	13	0	0	✓	13	0	✓	2	0.15	0.20	0.18	0	(1)	2	✓
Yerecoin	13	0	0	✓	9	0	✓	2	<0.1	<0.1	<0.1	0	(1)	2	✓
Yuna	13	0	0	✓	13	0	✓	2	0.80	0.80	0.80	0	(1)	2	✓

(1) No samples required in this 12 month period.

(2) Schemes for Dongara/Denison, Exmouth & Moora not meeting the dosing range of 0.7-1.0mg/L

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Table 7 Health related variables

Mid West	Health related variables																
Locality	Samples Taken	Nitrate <sup>‡</sup>				Pesticides		Radiological		Trihalomethanes				Other Health Related			
		Concentration (mg/L)			Guideline Met	Samples Taken	Guideline Met	Samples Taken	Guideline Met	Concentration (mg/L)			Guideline Met	Samples Taken	Requirement Met		
		Min	Max	Mean						Min	Max	Mean					
Badgingarra	2	0.88	0.88	0.88	✓	1	✓	2	✓	2	<0.001	<0.001	<0.001	✓	0	(1)	
Bindoon /Chittering	2	<0.22	<0.22	<0.22	✓	1	✓	1	✓	2	0.009	0.009	0.009	✓	0	(1)	
Bolgart	2	31.38	34.03	32.71	✓	1	✓	1	✓	2	0.006	0.007	0.007	✓	0	(1)	
Calingiri	5	13.26	21.22	19.01	✓	1	✓	2	✓	2	0.015	0.016	0.016	✓	0	(1)	
Carnamah	2	0.88	0.88	0.88	✓	1	✓	2	✓	2	0.007	0.017	0.012	✓	0	(1)	
Carnarvon	2	3.54	3.54	3.54	✓	10	(3)	1	✓	2	0.005	0.007	0.006	✓	0	(1)	
Cervantes	5	14.59	15.91	15.47	✓	1	✓	2	✓	1	0.015	0.015	0.015	✓	0	(1)	
Coomberdale	2	<0.22	0.44	<0.22	✓	1	✓	2	✓	2	0.0-35	0.200	0.118	✓	0	(1)	
Coorow	2	0.44	0.88	0.44	✓	1	✓	2	✓	2	0.012	0.017	0.015	✓	0	(1)	
Coral Bay	2	0.44	0.44	0.44	✓	1	✓	2	✓	2	<0.001	0.001	<0.001	✓	0	(1)	
Cue	7	44.20	53.92	49.50	(2)	1	✓	2	✓	2	0.003	0.009	0.006	✓	0	(1)	
Dandaragan	2	<0.22	<0.22	<0.22	✓	1	✓	2	✓	2	0.004	0.007	0.006	✓	0	(1)	
Denham	2	0.44	0.44	0.44	✓	1	✓	2	✓	2	0.003	0.009	0.006	✓	0	(1)	
Dongara/Denison	4	3.09	12.82	5.30	✓	1	✓	1	✓	2	0.006	0.011	0.009	✓	0	(1)	
Eneabba	4	<0.22	<0.22	<0.22	✓	1	✓	1	✓	2	0.004	0.009	0.007	✓	0	(1)	
Exmouth	2	7.51	8.40	7.96	✓	1	✓	1	✓	2	<0.001	0.002	<0.001	✓	0	(1)	
Gascoyne Junction	2	0.44	0.44	0.44	✓	1	✓	0	(1)	2	0.008	0.018	0.013	✓	1	✓	
Geraldton	4	2.65	3.09	2.65	✓	2	✓	2	✓	4	0.007	0.011	0.009	✓	2	✓	
Gingin	2	<0.22	<0.22	<0.22	✓	1	✓	2	✓	2	<0.001	0.003	0.002	✓	0	(1)	
Greenhead	2	3.98	3.98	3.98	✓	1	✓	2	✓	2	0.001	0.003	0.002	✓	0	(1)	
Guilderton	16	31.82	40.22	35.80	✓	1	✓	2	✓	2	0.020	0.023	0.022	✓	2	✓	
Horrocks	4	<0.22	0.44	<0.22	✓	1	✓	2	✓	2	0.014	0.019	0.017	✓	0	(1)	
Jurien Bay	4	13.26	14.59	14.14	✓	1	✓	2	✓	2	0.008	0.011	0.010	✓	0	(1)	
Kalbarri	2	3.09	3.09	3.09	✓	1	✓	2	✓	2	<0.001	0.004	0.002	✓	0	(1)	
Lancelin	2	5.75	5.75	5.75	✓	1	✓	2	✓	2	0.009	0.010	0.010	✓	0	(1)	
Latham	2	0.88	0.88	0.88	✓	1	✓	1	✓	2	0.027	0.030	0.029	✓	0	(1)	
Ledge Point	4	19.01	21.22	19.89	✓	1	✓	1	✓	2	0.005	0.018	0.012	✓	0	(1)	
Leeman	2	3.98	3.98	3.98	✓	1	✓	2	✓	2	0.003	0.004	0.004	✓	0	(1)	
Meekatharra	4	60.11	70.28	64.09	(2)	1	✓	1	✓	2	0.003	0.005	0.004	✓	0	(1)	
Mingenew	3	3.09	5.30	3.98	✓	1	✓	2	✓	2	0.001	0.004	0.003	✓	0	(1)	
Moora	2	<0.22	<0.22	<0.22	✓	1	✓	2	✓	2	0.016	0.019	0.018	✓	0	(1)	
Morawa	2	0.88	0.88	0.88	✓	1	✓	0	(1)	2	<0.001	0.004	0.002	✓	0	(1)	
Mt Magnet	6	63.21	72.49	67.63	(2)	1	✓	1	✓	2	0.003	0.012	0.008	✓	0	(1)	
Mullewa	2	2.65	3.09	2.65	✓	1	✓	2	✓	2	0.030	0.037	0.034	✓	0	(1)	
Nabawa	2	2.65	3.09	2.65	✓	1	✓	2	✓	2	0.010	0.011	0.011	✓	0	(1)	
New Norcia	10	45.97	54.37	49.50	(2)	1	✓	1	✓	2	0.006	0.012	0.009	✓	0	(1)	
Nilgern (Ocean Farms)	2	22.54	24.31	23.43	✓	1	✓	2	✓	2	<0.001	0.004	0.002	✓	2	✓	
Northampton	2	2.65	3.09	3.09	✓	1	✓	2	✓	2	0.022	0.026	0.024	✓	0	(1)	
Perenjori	2	0.88	0.88	0.88	✓	1	✓	2	✓	2	<0.001	0.020	0.010	✓	0	(1)	
Piawaning	2	10.17	12.38	11.49	✓	1	✓	2	✓	2	0.065	0.089	0.077	✓	0	(1)	
Port Kalbarri	2	0.44	0.44	0.44	✓	1	✓	2	✓	2	0.005	0.008	0.007	✓	0	(1)	
Sandstone	6	52.16	58.34	54.81	(2)	1	✓	2	✓	2	<0.001	0.018	0.009	✓	0	(1)	
Seabird	2	<0.22	0.44	<0.22	✓	1	✓	2	✓	3	0.039	0.047	0.043	✓	1	✓	
Seaview Park	3	19.89	23.43	22.10	✓	1	✓	3	✓	2	0.002	0.003	0.003	✓	4	✓	
Sovereign Hills	6	2.65	11.49	5.75	✓	1	✓	1	✓	2	0.026	0.027	0.027	✓	1	✓	
Three Springs	2	1.33	1.33	1.33	✓	1	✓	2	✓	2	0.004	0.004	0.004	✓	0	(1)	
Watheroo	4	<0.22	0.44	<0.22	✓	1	✓	0	(1)	4	0.069	0.150	0.115	✓	2	✓	
Woodridge	2	<0.22	<0.22	<0.22	✓	1	✓	2	✓	2	0.082	0.097	0.090	✓	0	(1)	
Yalgoo	2	32.27	34.48	33.59	✓	1	✓	2	✓	2	0.016	0.031	0.024	✓	0	(1)	
Yerecoin	2	13.70	15.47	14.59	✓	5	✓	1	✓	2	0.072	0.079	0.076	✓	1	✓	
Yuna	2	3.09	3.09	3.09	✓	1	✓	2	✓	2	0.023	0.031	0.027	✓	0	(1)	

(1) No samples required in this 12 month period. (2) Cue, Meekatharra, Mount Magnet, New Norcia and Sandstone have been granted an exemption from compliance with the infant nitrate guideline by the Department of Health. The water supplied is safe for adults and children over the age of 3 months. Carers of infants younger than 3 months should seek advice from the Community Health Nurse regarding the use of alternative water sources for the preparation of bottle feeds. The Water Corporation provides bottled water free of charge for this purpose. (3) Data are for samples from previous 5 years average

‡ Nitrate data is converted from laboratory analysis reported as "Nitrate plus Nitrite as Nitrogen" based on the assumption that all nitrite is converted to nitrate under oxidative conditions during sampling.