

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

Table 28 Aesthetic (Non-health related) Variables

North West Region	Aesthetic (Non-health related) Variables																			
Locality	Alkalinity (as CaCO3)					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	
Broome	2	82.0	82.0	82.0	(1)	2	<0.008	<0.008	<0.008	✓	2	120.0	130.0	125.0	✓	2	61	68	65	✓
Burrup LNG	2	130.0	150.0	140.0	(1)	2	<0.008	<0.008	<0.008	✓	2	48.0	50.0	49.0	✓	2	160	160	160	✓
Burrup Supply	2	130.0	140.0	135.0	(1)	2	<0.008	<0.008	<0.008	✓	2	50.0	55.0	52.5	✓	2	160	170	165	✓
Camballin	2	58.0	59.0	58.5	(1)	2	<0.008	<0.008	<0.008	✓	2	38.0	55.0	46.5	✓	2	46	56	51	✓
Cape Lambert TWS	2	120.0	160.0	140.0	(1)	2	<0.008	0.010	<0.008	✓	2	39.0	65.0	52.0	✓	2	130	190	160	✓
Derby	2	160.0	170.0	165.0	(1)	2	<0.008	<0.008	<0.008	✓	2	85.0	90.0	87.5	✓	2	13	16	15	✓
Fitzroy Crossing	2	180.0	180.0	180.0	(1)	2	<0.008	<0.008	<0.008	✓	2	43.0	44.0	43.5	✓	2	160	160	160	✓
Halls Creek	2	340.0	340.0	340.0	(1)	2	<0.008	<0.008	<0.008	✓	2	175.0	230.0	202.5	✓	2	330	350	340	(2)
Hedland	2	190.0	220.0	205.0	(1)	2	<0.008	<0.008	<0.008	✓	2	110.0	130.0	120.0	✓	2	200	210	205	(2)
Karratha	2	130.0	260.0	195.0	(1)	2	<0.008	<0.008	<0.008	✓	2	43.0	135.0	89.0	✓	2	150	350	250	(3)
Kununurra	4	190.0	210.0	202.5	(1)	4	<0.008	<0.008	<0.008	✓	4	16.0	19.0	17.5	✓	4	160	170	168	✓
Marble Bar	2	360.0	430.0	395.0	(1)	2	<0.008	<0.008	<0.008	✓	2	215.0	220.0	217.5	✓	2	340	370	355	(2)
Newman	2	160.0	160.0	160.0	(1)	2	<0.008	<0.008	<0.008	✓	2	75.0	80.0	77.5	✓	2	150	160	155	✓
Nullagine	2	160.0	200.0	180.0	(1)	2	<0.008	<0.008	<0.008	✓	2	70.0	100.0	85.0	✓	2	190	190	190	✓
Onslow TWS	2	170.0	210.0	190.0	(1)	2	<0.008	<0.008	<0.008	✓	2	95.0	115.0	105.0	✓	2	200	200	200	✓
Point Samson	2	130.0	170.0	150.0	(1)	2	<0.008	0.010	<0.008	✓	2	41.0	80.0	60.5	✓	2	140	200	170	✓
Roeboorne	2	130.0	170.0	150.0	(1)	2	<0.008	<0.008	<0.008	✓	2	43.0	85.0	64.0	✓	2	130	210	170	✓
Wickham	2	130.0	260.0	195.0	(1)	2	0.010	0.014	0.012	✓	2	44.0	125.0	84.5	✓	2	140	310	225	(3)
Wyndham	2	42.0	42.0	42.0	(1)	2	0.025	0.030	0.028	✓	2	25.0	29.0	27.0	✓	2	33	39	36	✓

(1) No guideline value available as per ADWG 2011. (2) Elevated hardness is characteristic of the source supplying this locality. (3) Elevated hardness is a characteristic of the source supplying this locality for part of the year (Millstream).

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Table 29 Aesthetic (Non-health related) Variables

North 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	
Broome	2	<0.003	<0.003	<0.003	✓	2	<0.002	<0.002	<0.002	✓	2	7.95	7.99	7.97	✓	2	90.0	95.0	92.5	(1)
Burrup LNG	2	<0.003	<0.003	<0.003	✓	2	<0.002	<0.002	<0.002	✓	2	8.25	8.43	8.34	✓	2	50.0	55.0	52.5	✓
Burrup Supply	2	<0.003	0.004	<0.003	✓	2	<0.002	<0.002	<0.002	✓	2	8.18	8.45	8.32	✓	2	50.0	55.0	52.5	✓
Camballin	2	0.025	0.035	0.030	✓	2	<0.002	0.003	<0.002	✓	2	7.17	7.39	7.28	✓	2	23.0	25.0	24.0	✓
Cape Lambert TWS	2	0.004	0.004	0.004	✓	2	<0.002	<0.002	<0.002	✓	2	7.74	8.00	7.87	✓	2	18.0	50.0	34.0	✓
Derby	2	0.008	0.020	0.014	✓	2	<0.002	<0.002	<0.002	✓	2	7.58	7.61	7.60	✓	2	15.0	16.0	15.5	✓
Fitzroy Crossing	2	<0.003	<0.003	<0.003	✓	2	<0.002	<0.002	<0.002	✓	2	7.17	7.94	7.56	✓	2	21.0	22.0	21.5	✓
Halls Creek	2	<0.003	<0.003	<0.003	✓	2	<0.002	<0.002	<0.002	✓	2	7.75	7.96	7.86	✓	2	46.0	47.0	46.5	✓
Hedland	2	<0.003	<0.003	<0.003	✓	2	<0.002	<0.002	<0.002	✓	2	7.83	7.88	7.86	✓	2	50.0	55.0	52.5	✓
Karratha	2	<0.003	<0.003	<0.003	✓	2	<0.002	<0.002	<0.002	✓	2	7.82	8.30	8.06	✓	2	17.0	60.0	38.5	✓
Kununurra	4	<0.003	<0.003	<0.003	✓	4	0.004	0.016	0.007	✓	4	7.56	7.65	7.62	✓	4	49.0	55.0	53.5	✓
Marble Bar	2	<0.003	<0.003	<0.003	✓	2	<0.002	<0.002	<0.002	✓	2	7.31	7.37	7.34	✓	2	38.0	41.0	39.5	✓
Newman	2	<0.003	<0.003	<0.003	✓	2	<0.002	<0.002	<0.002	✓	2	7.02	7.13	7.08	✓	2	18.0	19.0	18.5	✓
Nullagine	2	<0.003	0.004	<0.003	✓	2	<0.002	<0.002	<0.002	✓	2	7.07	7.23	7.15	✓	2	26.0	32.0	29.0	✓
Onslow TWS	2	<0.003	<0.003	<0.003	✓	2	<0.002	<0.002	<0.002	✓	2	8.03	8.16	8.10	✓	2	75.0	80.0	77.5	✓
Point Samson	2	<0.003	<0.003	<0.003	✓	2	<0.002	<0.002	<0.002	✓	2	8.10	8.23	8.17	✓	2	24.0	50.0	37.0	✓
Roeboorne	2	<0.003	<0.003	<0.003	✓	2	<0.002	<0.002	<0.002	✓	2	7.81	7.84	7.83	✓	2	18.0	55.0	36.5	✓
Wickham	2	0.004	0.010	0.007	✓	2	<0.002	<0.002	<0.002	✓	2	8.01	8.16	8.09	✓	2	32.0	55.0	43.5	✓
Wyndham	2	<0.003	0.004	<0.003	✓	2	<0.002	<0.002	<0.002	✓	2	7.71	8.17	7.94	✓	2	2.9	8.0	5.5	✓

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

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Table 30 Aesthetic (Non-health related) Variables

North West Region	Aesthetic (Non-health related) Variables																			
Locality	Sodium					TDS					True Colour					Turbidity				
	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	
Broome	2	93.0	93.0	93.0	✓	2	452	472	462	✓	2	<1	<1	<1	✓	2	<0.1	<0.1	<0.1	✓
Burrup LNG	2	28.0	32.0	30.0	✓	2	384	391	388	✓	2	<1	<1	<1	✓	2	<0.1	<0.1	<0.1	✓
Burrup Supply	2	29.0	34.0	31.5	✓	2	380	403	392	✓	2	<1	<1	<1	✓	2	<0.1	0.2	<0.1	✓
Camballin	2	37.0	44.0	40.5	✓	2	236	264	250	✓	2	<1	<1	<1	✓	2	0.1	0.1	0.1	✓
Cape Lambert TWS	2	37.0	41.0	39.0	✓	2	343	452	398	✓	2	<1	<1	<1	✓	2	<0.1	<0.1	<0.1	✓
Derby	2	110.0	135.0	122.5	✓	2	416	467	442	✓	2	<1	<1	<1	✓	2	0.2	0.5	0.4	✓
Fitzroy Crossing	2	36.0	37.0	36.5	✓	2	390	393	392	✓	2	<1	<1	<1	✓	2	<0.1	0.1	<0.1	✓
Halls Creek	2	180.0	190.0	185.0	(1)	2	999	1080	1040	(2)	2	<1	<1	<1	✓	2	<0.1	<0.1	<0.1	✓
Hedland	2	94.0	110.0	102.0	✓	2	599	648	624	(2)	2	<1	<1	<1	✓	2	<0.1	<0.1	<0.1	✓
Karratha	2	46.0	77.0	61.5	✓	2	385	778	582	✓	2	<1	<1	<1	✓	2	<0.1	<0.1	<0.1	✓
Kununurra	4	20.0	32.0	28.5	✓	4	371	424	407	✓	4	<1	<1	<1	✓	4	<0.1	0.2	<0.1	✓
Marble Bar	2	200.0	215.0	207.5	(1)	2	1092	1201	1147	(2)	2	<1	<1	<1	✓	2	0.1	0.2	0.2	✓
Newman	2	56.0	64.0	60.0	✓	2	439	442	441	✓	2	<1	<1	<1	✓	2	<0.1	0.2	<0.1	✓
Nullagine	2	55.0	89.0	72.0	✓	2	470	574	522	✓	2	<1	<1	<1	✓	2	<0.1	<0.1	<0.1	✓
Onslow TWS	2	51.0	57.0	54.0	✓	2	551	573	562	✓	2	<1	<1	<1	✓	2	<0.1	0.1	<0.1	✓
Point Samson	2	39.0	45.0	42.0	✓	2	359	501	430	✓	2	<1	<1	<1	✓	2	<0.1	<0.1	<0.1	✓
Roeboorne	2	47.0	48.0	47.5	✓	2	363	513	438	✓	2	<1	<1	<1	✓	2	<0.1	<0.1	<0.1	✓
Wickham	2	34.0	70.0	52.0	✓	2	352	738	545	✓	2	<1	<1	<1	✓	2	<0.1	<0.1	<0.1	✓
Wyndham	2	19.0	19.0	19.0	✓	2	115	126	121	✓	2	<1	<1	<1	✓	2	<0.1	0.1	<0.1	✓

(1) Elevated sodium is characteristic of the source supplying this locality. (2) Elevated TDS is a characteristic of the source supplying this locality.