

Drinking Water Quality Annual Report Data 01/07/2020 to 30/06/2021

Table 28 Aesthetic (Non-health related) Variables

North West Region	Aesthetic (Non-health related) Variables																			
Locality	Alkalinity (as CaCO <sub>3</sub> )					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	74.0	75.0	74.5	(1)	2	<0.008	<0.008	<0.008	✓	2	95.0	105.0	100.0	✓	2	52	53	53	✓
Burrup	2	160.0	210.0	185.0	(1)	2	<0.008	<0.008	<0.008	✓	2	65.0	110.0	87.5	✓	2	180	260	220	(2)
Camballin	2	57.0	61.0	59.0	(1)	2	<0.008	<0.008	<0.008	✓	2	35.0	55.0	45.0	✓	2	42	52	47	✓
Cape Lambert TWS	2	220.0	220.0	220.0	(1)	2	<0.008	<0.008	<0.008	✓	2	80.0	105.0	92.5	✓	2	240	270	255	(2)
Derby	2	130.0	150.0	140.0	(1)	2	<0.008	<0.008	<0.008	✓	2	90.0	95.0	92.5	✓	2	17	19	18	✓
Fitzroy Crossing	2	170.0	190.0	180.0	(1)	2	<0.008	<0.008	<0.008	✓	2	35.0	45.0	40.0	✓	2	150	160	155	✓
Halls Creek	3	330.0	370.0	353.3	(1)	3	<0.008	<0.008	<0.008	✓	3	160.0	170.0	165.0	✓	3	300	340	323	(2)
Hedland	3	160.0	200.0	183.3	(1)	3	<0.008	<0.008	<0.008	✓	3	110.0	160.0	136.7	✓	3	180	240	210	(2)
Karratha	2	120.0	210.0	165.0	(1)	2	<0.008	<0.008	<0.008	✓	2	50.0	90.0	70.0	✓	2	130	250	190	✓
Kununurra	4	190.0	220.0	207.5	(1)	4	<0.008	<0.008	<0.008	✓	4	17.0	18.0	17.8	✓	4	160	170	168	✓
Marble Bar	2	360.0	370.0	365.0	(1)	2	<0.008	<0.008	<0.008	✓	2	180.0	180.0	180.0	✓	2	260	260	260	(2)
Newman	10	130.0	150.0	139.0	(1)	10	<0.008	<0.008	<0.008	✓	10	60.0	85.0	72.0	✓	10	140	160	153	✓
Nullagine	2	120.0	150.0	135.0	(1)	2	<0.008	<0.008	<0.008	✓	2	75.0	95.0	85.0	✓	2	160	210	185	✓
Onslow TWS	2	160.0	180.0	170.0	(1)	2	<0.008	<0.008	<0.008	✓	2	70.0	110.0	90.0	✓	2	170	180	175	✓
Point Samson	2	210.0	220.0	215.0	(1)	2	<0.008	<0.008	<0.008	✓	2	85.0	105.0	95.0	✓	2	250	270	260	(3)
Roebourne	2	120.0	200.0	160.0	(1)	2	<0.008	<0.008	<0.008	✓	2	48.0	100.0	74.0	✓	2	120	250	185	✓
Wickham	2	120.0	210.0	165.0	(1)	2	<0.008	<0.008	<0.008	✓	2	48.0	100.0	74.0	✓	2	130	250	190	✓
Wyndham	3	43.0	51.0	47.7	(1)	3	0.014	0.018	0.016	✓	3	32.0	35.0	34.0	✓	3	40	46	44	✓

(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 (Millstream) supplying this locality for part of the year.

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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	7.91	8.34	8.13	✓	2	90.0	100.0	95.0	(1)
Burrup	2	<0.003	<0.003	<0.003	✓	2	<0.002	<0.002	<0.002	✓	2	8.11	8.22	8.17	✓	2	55.0	55.0	55.0	✓
Camballin	2	0.008	0.015	0.012	✓	2	<0.002	<0.002	<0.002	✓	2	7.18	7.24	7.21	✓	2	23.0	25.0	24.0	✓
Cape Lambert TWS	2	<0.003	<0.003	<0.003	✓	2	<0.002	<0.002	<0.002	✓	2	8.03	8.10	8.07	✓	2	50.0	55.0	52.5	✓
Derby	2	0.006	0.008	0.007	✓	2	<0.002	<0.002	<0.002	✓	2	7.64	7.86	7.75	✓	2	16.0	17.0	16.5	✓
Fitzroy Crossing	2	<0.003	0.015	0.008	✓	2	<0.002	<0.002	<0.002	✓	2	7.34	7.35	7.35	✓	2	21.0	22.0	21.5	✓
Halls Creek	3	<0.003	<0.003	<0.003	✓	3	<0.002	<0.002	<0.002	✓	3	7.78	7.87	7.84	✓	3	45.0	50.0	48.0	✓
Hedland	3	<0.003	<0.003	<0.003	✓	3	<0.002	<0.002	<0.002	✓	3	7.78	8.12	7.99	✓	3	50.0	55.0	53.3	✓
Karratha	2	<0.003	<0.003	<0.003	✓	2	<0.002	<0.002	<0.002	✓	2	8.04	8.10	8.07	✓	2	21.0	55.0	38.0	✓
Kununurra	4	<0.003	<0.003	<0.003	✓	4	0.003	0.014	0.009	✓	4	7.54	7.92	7.66	✓	4	55.0	55.0	55.0	✓
Marble Bar	2	<0.003	<0.003	<0.003	✓	2	<0.002	<0.002	<0.002	✓	2	7.39	7.67	7.53	✓	2	42.0	44.0	43.0	✓
Newman	10	<0.003	0.008	<0.003	✓	10	<0.002	<0.002	<0.002	✓	10	6.80	7.28	7.02	✓	10	17.0	19.0	18.1	✓
Nullagine	2	<0.003	<0.003	<0.003	✓	2	<0.002	<0.002	<0.002	✓	2	7.14	7.18	7.16	✓	2	32.0	34.0	33.0	✓
Onslow TWS	2	<0.003	<0.003	<0.003	✓	2	<0.002	<0.002	<0.002	✓	2	7.99	8.22	8.11	✓	2	70.0	75.0	72.5	✓
Point Samson	2	<0.003	<0.003	<0.003	✓	2	<0.002	<0.002	<0.002	✓	2	8.13	8.20	8.17	✓	2	50.0	55.0	52.5	✓
Roebourne	2	<0.003	0.015	0.008	✓	2	<0.002	0.004	<0.002	✓	2	7.73	7.90	7.82	✓	2	25.0	55.0	40.0	✓
Wickham	2	<0.003	<0.003	<0.003	✓	2	<0.002	<0.002	<0.002	✓	2	7.98	8.23	8.11	✓	2	24.0	55.0	39.5	✓
Wyndham	3	<0.003	0.004	<0.003	✓	3	<0.002	<0.002	<0.002	✓	3	7.88	8.12	7.99	✓	3	7.0	8.0	7.6	✓

(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	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	
Broome	2	78.0	80.0	79.0	✓	2	399	417	408	✓	2	<1	<1	<1	✓	2	<0.1	0.2	<0.1	✓
Burrup	2	39.0	56.0	47.5	✓	2	444	626	535	✓	2	<1	<1	<1	✓	2	<0.1	0.2	<0.1	✓
Camballin	2	36.0	40.0	38.0	✓	2	231	257	244	✓	2	<1	<1	<1	✓	2	<0.1	0.2	<0.1	✓
Cape Lambert TWS	2	48.0	58.0	53.0	✓	2	580	636	608	(1)	2	<1	<1	<1	✓	2	0.1	0.2	0.2	✓
Derby	2	99.0	105.0	102.0	✓	2	392	407	400	✓	2	<1	<1	<1	✓	2	<0.1	0.2	<0.1	✓
Fitzroy Crossing	2	32.0	39.0	35.5	✓	2	358	404	381	✓	2	<1	<1	<1	✓	2	0.1	0.1	0.1	✓
Halls Creek	3	135.0	145.0	140.0	✓	3	936	955	946	(1)	3	<1	<1	<1	✓	3	<0.1	0.3	<0.1	✓
Hedland	3	69.0	97.0	83.3	✓	3	513	656	593	✓	3	<1	<1	<1	✓	3	<0.1	0.2	<0.1	✓
Karratha	2	40.0	50.0	45.0	✓	2	338	587	463	✓	2	<1	<1	<1	✓	2	0.1	0.1	0.1	✓
Kununurra	4	27.0	29.0	28.0	✓	4	399	434	415	✓	4	<1	<1	<1	✓	4	<0.1	0.2	<0.1	✓
Marble Bar	2	170.0	185.0	177.5	✓	2	974	1016	995	(1)	2	<1	<1	<1	✓	2	<0.1	0.3	0.2	✓
Newman	10	47.0	55.0	51.2	✓	10	368	418	394	✓	10	<1	<1	<1	✓	10	<0.1	0.2	<0.1	✓
Nullagine	2	47.0	67.0	57.0	✓	2	404	511	458	✓	2	<1	<1	<1	✓	2	0.1	0.1	0.1	✓
Onslow TWS	2	30.0	50.0	40.0	✓	2	439	538	489	✓	2	<1	<1	<1	✓	2	0.2	0.2	0.2	✓
Point Samson	2	51.0	58.0	54.5	✓	2	580	634	607	(1)	2	<1	<1	<1	✓	2	0.2	0.3	0.3	✓
Roebourne	2	38.0	51.0	44.5	✓	2	333	593	463	✓	2	<1	<1	<1	✓	2	<0.1	0.1	<0.1	✓
Wickham	2	40.0	52.0	46.0	✓	2	338	604	471	✓	2	<1	<1	<1	✓	2	<0.1	<0.1	<0.1	✓
Wyndham	3	21.0	22.0	21.3	✓	3	136	149	142	✓	3	<1	<1	<1	✓	3	0.1	0.3	0.2	✓

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