

Drinking Water Quality Annual Report Data 01/07/2022 to 30/06/2023

Table 28 Aesthetic (Non-health related) Variables

North 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					
		Min	Max	Mean			Min	Max	Mean			Min	Max	Mean						
Broome	2	69	80	74.5	(1)	2	<0.008	<0.008	<0.008	✓	2	90	100	95	✓	2	47	51	49	✓
Burrup	2	140	160	150	(1)	2	<0.008	<0.008	<0.008	✓	2	50	75	63	✓	2	160	210	185	✓
Camballin	2	56	57	56.5	(1)	2	<0.008	<0.008	<0.008	✓	2	39	39	39	✓	2	41	46	44	✓
Cape Lambert	2	140	210	175	(1)	2	<0.008	<0.008	<0.008	✓	2	55	100	78	✓	2	140	250	195	✓
Derby	4	150	170	157.5	(1)	4	<0.008	<0.008	<0.008	✓	4	85	95	90	✓	4	15	16	16	✓
Fitzroy Crossing	2	180	180	180	(1)	2	<0.008	<0.008	<0.008	✓	2	37	50	44	✓	2	160	160	160	✓
Halls Creek	2	320	340	330	(1)	2	<0.008	<0.008	<0.008	✓	2	175	180	178	✓	2	330	330	330	(2)
Hedland	4	160	180	167.5	(1)	4	<0.008	<0.008	<0.008	✓	4	140	155	145	✓	4	210	230	218	(2)
Karratha	2	140	190	165	(1)	2	<0.008	<0.008	<0.008	✓	2	55	90	73	✓	2	150	230	190	✓
Kununurra	4	200	220	210	(1)	4	<0.008	<0.008	<0.008	✓	4	18	20	19	✓	4	160	170	165	✓
Marble Bar	3	320	360	336.7	(1)	3	<0.008	<0.008	<0.008	✓	3	165	175	170	✓	3	260	280	270	(2)
Newman	3	130	150	140	(1)	3	<0.008	<0.008	<0.008	✓	3	70	75	72	✓	3	130	150	140	✓
Nullagine	2	140	150	145	(1)	2	<0.008	<0.008	<0.008	✓	2	65	85	75	✓	2	150	190	170	✓
Onslow	4	160	180	170	(1)	4	<0.008	<0.008	<0.008	✓	4	75	90	85	✓	4	160	180	170	✓
Point Samson	2	140	220	180	(1)	2	<0.008	<0.008	<0.008	✓	2	60	105	83	✓	2	160	270	215	(2)
Roebourne	2	150	150	150	(1)	2	<0.008	<0.008	<0.008	✓	2	65	75	70	✓	2	160	170	165	✓
Wickham	2	150	150	150	(1)	2	<0.008	<0.008	<0.008	✓	2	65	65	65	✓	2	150	180	165	✓
Wyndham	4	42	46	44.5	(1)	4	<0.008	0.014	<0.008	✓	4	37	60	46	✓	4	42	70	56	✓

(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 29 Aesthetic (Non-health related) Variables

North West Region	Iron			Manganese			pH			Silicon										
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						
Broome	2	<0.003	0.004	<0.003	✓	2	<0.002	<0.002	<0.002	✓	2	7.88	8.07	7.98	✓	2	90	95	93	(1)
Burrup	2	<0.003	0.004	<0.003	✓	2	<0.002	<0.002	<0.002	✓	2	8.29	8.52	8.41	✓	2	50	60	55	✓
Camballin	2	0.008	0.010	0.009	✓	2	<0.002	<0.002	<0.002	✓	2	7.27	7.56	7.42	✓	2	23	23	23	✓
Cape Lambert	2	<0.003	0.015	0.008	✓	2	<0.002	<0.002	<0.002	✓	2	7.86	7.91	7.89	✓	2	27	50	39	✓
Derby	4	0.004	0.030	0.011	✓	4	<0.002	<0.002	<0.002	✓	4	7.64	7.90	7.76	✓	4	15	16	15	✓
Fitzroy Crossing	2	<0.003	<0.003	<0.003	✓	2	<0.002	<0.002	<0.002	✓	2	7.39	7.44	7.42	✓	2	20	21	21	✓
Halls Creek	2	<0.003	<0.003	<0.003	✓	2	<0.002	<0.002	<0.002	✓	2	7.72	8.09	7.91	✓	2	44	47	46	✓
Hedland	4	<0.003	0.004	<0.003	✓	4	<0.002	<0.002	<0.002	✓	4	7.68	8.15	7.88	✓	4	50	55	53	✓
Karratha	2	<0.003	<0.003	<0.003	✓	2	<0.002	<0.002	<0.002	✓	2	8.03	8.20	8.12	✓	2	27	50	39	✓
Kununurra	4	<0.003	<0.003	<0.003	✓	4	0.006	0.012	0.009	✓	4	7.58	7.92	7.71	✓	4	55	55	55	✓
Marble Bar	3	<0.003	0.004	<0.003	✓	3	<0.002	<0.002	<0.002	✓	3	7.44	7.81	7.61	✓	3	38	41	40	✓
Newman	3	0.004	0.008	0.006	✓	3	<0.002	<0.002	<0.002	✓	3	7.23	7.42	7.32	✓	3	16	18	17	✓
Nullagine	2	0.006	0.010	0.008	✓	2	<0.002	<0.002	<0.002	✓	2	7.29	7.52	7.41	✓	2	34	35	35	✓
Onslow	4	<0.003	0.008	<0.003	✓	4	<0.002	<0.002	<0.002	✓	4	7.99	8.19	8.07	✓	4	70	75	74	✓
Point Samson	2	<0.003	0.006	<0.003	✓	2	<0.002	<0.002	<0.002	✓	2	7.65	8.12	7.89	✓	2	27	50	39	✓
Roebourne	2	<0.003	0.004	<0.003	✓	2	<0.002	<0.002	<0.002	✓	2	7.72	7.95	7.84	✓	2	29	34	32	✓
Wickham	2	<0.003	0.004	<0.003	✓	2	<0.002	<0.002	<0.002	✓	2	7.73	7.90	7.82	✓	2	29	33	31	✓
Wyndham	4	<0.003	0.006	<0.003	✓	4	<0.002	<0.002	<0.002	✓	4	7.63	7.86	7.74	✓	4	6.4	8.4	7.5	✓

(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	Sodium			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	
Broome	2	70	78	74	✓	2	381	417	399	✓	2	<1	<1	<1	✓	2	<0.1	0.2	<0.1	✓
Burrup	2	32	44	38	✓	2	383	486	435	✓	2	<1	<1	<1	✓	2	<0.1	0.2	<0.1	✓
Camballin	2	34	35	35	✓	2	224	226	225	✓	2	<1	<1	<1	✓	2	<0.1	0.3	0.2	✓
Cape Lambert	2	50	56	53	✓	2	402	605	504	✓	2	<1	<1	<1	✓	2	<0.1	<0.1	<0.1	✓
Derby	4	115	130	119	✓	4	421	455	433	✓	4	<1	<1	<1	✓	4	<0.1	0.2	<0.1	✓
Fitzroy Crossing	2	31	42	37	✓	2	372	413	393	✓	2	<1	<1	<1	✓	2	<0.1	<0.1	<0.1	✓
Halls Creek	2	145	145	145	✓	2	930	947	939	(1)	2	<1	<1	<1	✓	2	<0.1	<0.1	<0.1	✓
Hedland	4	74	89	82	✓	4	569	619	590	✓	4	<1	<1	<1	✓	4	<0.1	0.2	<0.1	✓
Karratha	2	51	51	51	✓	2	405	555	480	✓	2	<1	<1	<1	✓	2	<0.1	<0.1	<0.1	✓
Kununurra	4	28	33	30	✓	4	411	432	418	✓	4	<1	<1	<1	✓	4	<0.1	0.2	<0.1	✓
Marble Bar	3	165	170	168	✓	3	912	967	936	(1)	3	<1	<1	<1	✓	3	<0.1	0.2	<0.1	✓
Newman	3	52	63	57	✓	3	376	418	394	✓	3	<1	<1	<1	✓	3	0.1	0.1	0.1	✓
Nullagine	2	48	57	53	✓	2	418	469	444	✓	2	<1	<1	<1	✓	2	<0.1	<0.1	<0.1	✓
Onslow	4	41	44	42	✓	4	474	496	485	✓	4	<1	<1	<1	✓	4	<0.1	0.2	<0.1	✓
Point Samson	2	55	61	58	✓	2	426	636	531	✓	2	<1	<1	<1	✓	2	<0.1	<0.1	<0.1	✓
Roebourne	2	47	52	50	✓	2	435	442	439	✓	2	<1	<1	<1	✓	2	<0.1	<0.1	<0.1	✓
Wickham	2	47	50	49	✓	2	429	439	434	✓	2	<1	<1	<1	✓	2	0.2	0.2	0.2	✓
Wyndham	4	18	23	21	✓	4	138	171	154	✓	4	<1	<1	<1	✓	4	<0.1	0.3	0.2	✓

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