

# Chemical Analysis

## Mt Crosby

June 2008

Test Description		Units	MAX	MIN	MEAN	NHMRC*
pH			7.9	7.7	7.8	6.5-8.5
Conductivity	25 <sup>o</sup> C	uS/cm	661	427	526	
Total Dissolved Salts	est.	mg/L	423	273	336	
Alkalinity (Total)	as CaCO <sub>3</sub>	mg/L	85	63	73	
Colour (True)		PCU	2.2	1.4	1.7	15
Turbidity (Raw)		NTU	0.2	<0.1	<0.1	5
Langelier Index			-0.1	-0.5	-0.3	
Calcium Hardness	as CaCO <sub>3</sub>	mg/L	67	55	59	
Magnesium Hardness	as CaCO <sub>3</sub>	mg/L	76	51	64	
Total Hardness	as CaCO <sub>3</sub>	mg/L	143	106	123	200
Aluminium	as Al	mg/L	0.053	0.022	0.032	0.2
Arsenic	as As	mg/L	<0.005	<0.005	<0.005	0.007
Barium	as Ba	mg/L	0.036	0.029	0.033	0.7
Cadmium	as Cd	mg/L	<0.001	<0.001	<0.001	0.002
Calcium	as Ca	mg/L	27	22	24	
Chloride	as Cl	mg/L	138	66	97	250
Chromium	as Cr	mg/L	<0.002	<0.002	<0.002	0.05
Copper	as Cu	mg/L	0.003	0.001	0.002	1
Iron	as Fe	mg/L	0.01	<0.01	<0.01	0.3
Lead	as Pb	mg/L	<0.01	<0.01	<0.01	0.01
Magnesium	as Mg	mg/L	18	12	16	
Manganese	as Mn	mg/L	0.020	0.007	0.012	0.1
Mercury	as Hg	ug/L	<0.1	<0.1	<0.1	1
Nickel	as Ni	mg/L	<0.002	<0.002	<0.002	0.02
Orthophosphate	as P	mg/L	0.024	0.003	0.009	
Potassium	as K	mg/L	4.6	3.7	4.2	
Silica	as SiO <sub>2</sub>	mg/L	9.7	3.3	6.2	
Sodium	as Na	mg/L	75	37	52	180
Sulphur	as SO <sub>4</sub>	mg/L	33	25	30	250
Zinc	as Zn	mg/L	<0.001	<0.001	<0.001	3

\* National Health & Medical Research Council's Australian Drinking Water Guidelines. Where no limits are stated, these are not considered as hazardous to health.

Units abbreviation	Units
µS/cm	micro Siemens per centimetre
mg/L	milligrams per litre
PCU	Platinum colour unit
NTU	nephelometric turbidity unit

## North Pine

June 2008

Test Description		Units	MAX	MIN	MEAN	NHMRC*
pH			8.0	7.7	7.8	6.5-8.5
Conductivity	25°C	uS/cm	352	343	349	
Total Dissolved Salts	est.	mg/L	225	219	223	
Alkalinity (Total)	as CaCO <sub>3</sub>	mg/L	73	70	72	
Colour (True)		PCU	1.8	1.1	1.4	15
Turbidity (Raw)		NTU	0.3	0.1	0.2	5
Langelier Index			-0.2	-0.6	-0.4	
Calcium Hardness	as CaCO <sub>3</sub>	mg/L	52	45	49	
Magnesium Hardness	as CaCO <sub>3</sub>	mg/L	45	44	44	
Total Hardness	as CaCO <sub>3</sub>	mg/L	97	89	93	200
Aluminium	as Al	mg/L	0.040	0.026	0.033	0.2
Arsenic	as As	mg/L	<0.005	<0.005	<0.005	0.007
Barium	as Ba	mg/L	0.013	0.012	0.013	0.7
Cadmium	as Cd	mg/L	<0.001	<0.001	<0.001	0.002
Calcium	as Ca	mg/L	21	18	20	
Chloride	as Cl	mg/L	44	41	42	250
Chromium	as Cr	mg/L	<0.002	<0.002	<0.002	0.05
Copper	as Cu	mg/L	0.002	0.001	0.002	1
Iron	as Fe	mg/L	0.02	<0.01	0.01	0.3
Lead	as Pb	mg/L	<0.01	<0.01	<0.01	0.01
Magnesium	as Mg	mg/L	11	11	11	
Manganese	as Mn	mg/L	0.010	0.006	0.008	0.1
Mercury	as Hg	ug/L	<0.1	<0.1	<0.1	1
Nickel	as Ni	mg/L	<0.002	<0.002	<0.002	0.02
Orthophosphate	as P	mg/L	0.012	0.005	0.008	
Potassium	as K	mg/L	3.3	3.2	3.3	
Silica	as SiO <sub>2</sub>	mg/L	6.8	6.3	6.6	
Sodium	as Na	mg/L	33	31	32	180
Sulphur	as SO <sub>4</sub>	mg/L	39	32	37	250
Zinc	as Zn	mg/L	<0.001	<0.001	<0.001	3

\* National Health & Medical Research Council's Australian Drinking Water Guidelines. Where no limits are stated, these are not considered as hazardous to health.

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## **Enoggera**

The Enoggera Treatment Plant is currently shut down.