



Drinking Water Quality Summary - June 2016

Hunter Water provides safe and reliable drinking water to over half a million customers in the Lower Hunter. The drinking water we supply is routinely tested throughout our water supply systems. Results are based on samples representative of water supplied to customers' taps. Results for microbiological and key physical/chemical parameters are summarised below:

Whole of Hunter Water

Whole of Hunter Water - key health analytes

Analyte	Units of measure	ADWG health guideline value	Performance standard (assessment over previous 12 months)		% of E. coli results < 1 over the last 12 months	Met performance standard
<i>E. coli</i>	MPN/100mL	Should not be detected in 100mL	At least 98% of test results <1		99.94%	Yes
Analyte	Units of Measure	ADWG health guideline value	Performance standard (assessment over previous 12 months)	Average for Month	95th Percentile over the last 12 months	Met performance standard
Fluoride	mg/L	1.5	95th percentile of test results less than respective ADWG health guideline value	0.65	0.98	Yes
Chlorine	mg/L	5		0.74	1.38	Yes
Copper	mg/L	2		0.006	0.022	Yes
Lead	mg/L	0.01		0.000	0.001	Yes
Manganese	mg/L	0.5		0.002	0.013	Yes
Trihalomethanes	mg/L	0.25		0.091	0.158	Yes

Whole of Hunter Water - key aesthetic analytes

Analyte	Units of Measure	ADWG aesthetic guideline value	Performance standard (assessment over previous 12 months)	Average for Month	12 month average result	Met performance standard
Iron	mg/L	0.3	Average of test results less than respective ADWG aesthetic guideline value	0.025	0.030	Yes
Aluminium	mg/L	0.2		0.057	0.055	Yes
Copper	mg/L	1		0.006	0.006	Yes
Zinc	mg/L	3		0.004	0.004	Yes
Turbidity	NTU	5		0.2	0.3	Yes
True colour	HU	15		5	5	Yes
pH	pH units	6.5-9.2	Average of test results between 6.5 - 9.2 pH units	7.54	7.59	Yes

Brief explanation of key parameters:

or for more detail see:

Map showing water quality zones:

[Key Physical, Chemical and Microbiological Parameters](#)

[Australian Drinking Water Guidelines 2011](#)

[Water Quality Zones at Hunter Water](#)

Water Quality Zones

Chichester Zone - key health analytes

Analyte	Units of Measure	ADWG health guideline value	Performance standard (assessment over previous 12 months)		% of E. coli results < 1 over the last 12 months	Met performance standard
<i>E. coli</i>	MPN/100mL	Should not be detected in 100mL	At least 98% of test results <1		100.00%	Yes
Analyte	Units of Measure	ADWG health guideline value	Performance standard (assessment over previous 12 months)	Average for Month	95th Percentile over the last 12 months	Met performance standard
Fluoride	mg/L	1.5	95th percentile of test results less than respective ADWG health guideline value	0.90	0.95	Yes
Chlorine	mg/L	5		0.75	1.08	Yes
Copper	mg/L	2		0.021	0.016	Yes
Lead	mg/L	0.01		0.000	0.001	Yes
Manganese	mg/L	0.5		0.003	0.015	Yes
Trihalomethanes	mg/L	0.25		0.102	0.160	Yes

Chichester Zone – key aesthetic analytes

Analyte	Units of Measure	ADWG aesthetic guideline value	Performance standard (assessment over previous 12 months)	Average for Month	12 month average result	Met performance standard
Iron	mg/L	0.3	Average of test results less than respective ADWG aesthetic guideline value	0.018	0.024	Yes
Aluminium	mg/L	0.2		0.041	0.048	Yes
Copper	mg/L	1		0.021	0.006	Yes
Zinc	mg/L	3		0.004	0.004	Yes
Turbidity	NTU	5		0.2	0.3	Yes
True colour	HU	15		5	5	Yes
pH	pH units	6.5-9.2	Average of test results between 6.5 - 9.2 pH units	7.63	7.65	Yes

Grahamstown Zone - key health analytes

Analyte	Units of Measure	ADWG health guideline value	Performance standard (assessment over previous 12 months)	Average for Month	% of E. coli results < 1 over the last 12 months	Met performance standard
<i>E. coli</i>	MPN/100mL	Should not be detected in 100mL	At least 98% of test results <1		99.89%	Yes
Analyte	Units of Measure	ADWG health guideline value	Performance standard (assessment over previous 12 months)	Average for Month	95th Percentile over the last 12 months	Met performance standard
Fluoride	mg/L	1.5	95th percentile of test results less than respective ADWG health guideline value	0.21	0.98	Yes
Chlorine	mg/L	5		0.78	1.44	Yes
Copper	mg/L	2		0.003	0.015	Yes
Lead	mg/L	0.01		0.001	0.001	Yes
Manganese	mg/L	0.5		0.002	0.014	Yes
Trihalomethanes	mg/L	0.25		0.097	0.158	Yes

Grahamstown Zone – key aesthetic analytes

Analyte	Units of Measure	ADWG aesthetic guideline value	Performance standard (assessment over previous 12 months)	Average for Month	12 month average result	Met performance standard
Iron	mg/L	0.3	Average of test results less than respective ADWG aesthetic guideline value	0.024	0.030	Yes
Aluminium	mg/L	0.2		0.062	0.075	Yes
Copper	mg/L	1		0.003	0.006	Yes
Zinc	mg/L	3		0.004	0.003	Yes
Turbidity	NTU	5		0.2	0.3	Yes
True colour	HU	15		5	5	Yes
pH	pH units	6.5-9.2	Average of test results between 6.5 - 9.2 pH units	7.45	7.55	Yes

Water Quality Zones

Lemon Tree Passage Zone - key health analytes

Analyte	Units of Measure	ADWG health guideline value	Performance standard (assessment over previous 12 months)	Average for Month	% of E. coli results < 1 over the last 12 months	Met performance standard
<i>E. coli</i>	MPN/100mL	Should not be detected in 100mL	At least 98% of test results <1		100.00%	Yes

Analyte	Units of Measure	ADWG health guideline value	Performance standard (assessment over previous 12 months)	Average for Month	95th Percentile over the last 12 months	Met performance standard
Fluoride	mg/L	1.5	95th percentile of test results less than respective ADWG health guideline value	0.94	1.01	Yes
Chlorine	mg/L	5		0.72	1.35	Yes
Copper	mg/L	2		0.004	0.009	Yes
Lead	mg/L	0.01		0.000	0.001	Yes
Manganese	mg/L	0.5		0.003	0.008	Yes
Trihalomethanes	mg/L	0.25		0.094	0.139	Yes

Lemon Tree Passage Zone - key aesthetic analytes

Analyte	Units of Measure	ADWG aesthetic guideline value	Performance standard (assessment over previous 12 months)	Average for Month	12 month average result	Met performance standard
Iron	mg/L	0.3	Average of test results less than respective ADWG aesthetic guideline value	0.039	0.032	Yes
Aluminium	mg/L	0.2		0.037	0.035	Yes
Copper	mg/L	1		0.004	0.006	Yes
Zinc	mg/L	3		0.002	0.006	Yes
Turbidity	NTU	5		0.3	0.2	Yes
True colour	HU	15		5	5	Yes
pH	pH units	6.5-9.2	Average of test results between 6.5 - 9.2 pH units	7.60	7.56	Yes

Anna Bay / Nelson Bay Zone - key health analytes

Analyte	Units of Measure	ADWG health guideline value	Performance standard (assessment over previous 12 months)	Average for Month	% of E. coli results < 1 over the last 12 months	Met performance standard
<i>E. coli</i>	MPN/100mL	Should not be detected in 100mL	At least 98% of test results <1		100.00%	Yes

Analyte	Units of Measure	ADWG health guideline value	Performance standard (assessment over previous 12 months)	Average for Month	95th Percentile over the last 12 months	Met performance standard
Fluoride	mg/L	1.5	95th percentile of test results less than respective ADWG health guideline value	0.56	0.85	Yes
Chlorine	mg/L	5		0.61	1.39	Yes
Copper	mg/L	2		0.007	0.022	Yes
Lead	mg/L	0.01		0.000	0.001	Yes
Manganese	mg/L	0.5		0.002	0.009	Yes
Trihalomethanes	mg/L	0.25		0.064	0.099	Yes

Anna Bay / Nelson Bay Zone - key aesthetic analytes

Analyte	Units of Measure	ADWG aesthetic guideline value	Performance standard (assessment over previous 12 months)	Average for Month	12 month average result	Met performance standard
Iron	mg/L	0.3	Average of test results less than respective ADWG aesthetic guideline value	0.037	0.040	Yes
Aluminium	mg/L	0.2		0.075	0.058	Yes
Copper	mg/L	1		0.007	0.007	Yes
Zinc	mg/L	3		0.003	0.005	Yes
Turbidity	NTU	5		0.4	0.3	Yes
True colour	HU	15		5	5	Yes
pH	pH units	6.5-9.2	Average of test results between 6.5 - 9.2 pH units	7.58	7.52	Yes

Water Quality Zones

Gresford Zone - key health analytes

Analyte	Units of Measure	ADWG health guideline value	Performance standard (assessment over previous 12 months)	Average for Month	% of E. coli results < 1 over the last 12 months	Met performance standard
<i>E. coli</i>	MPN/100mL	Should not be detected in 100mL	At least 98% of test results <1		100.00%	Yes
Analyte	Units of Measure	ADWG health guideline value	Performance standard (assessment over previous 12 months)	Average for Month	95th Percentile over the last 12 months	Met performance standard
Chlorine	mg/L	5	95th percentile of test results less than respective ADWG health guideline value	0.29	1.07	Yes

Gresford Zone - key aesthetic analytes

Analyte	Units of Measure	ADWG aesthetic guideline value	Performance standard (assessment over previous 12 months)	Average for Month	12 month average result	Met performance standard
pH	pH units	6.5-9.2	Average of test results between 6.5 - 9.2 pH units	8.00	7.92	Yes

PFOS and PFOA Results for Hunter Water Source Waters

Analyte	Units of Measure	Guideline Value	Grahamstown WTP	Dungog WTP	Nelson Bay WTP	Anna Bay WTP	Lemon Tree Passage WTP	Gresford WTP
PFOS	µg/L	0.07*	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PFOA	µg/L	0.07*	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

* The US EPA Guideline Value for drinking water is individual or combined concentrations of PFOA and PFOS below level of 0.07µg/L.