

Water Quality Summary - September 2023

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.

Whole of Hunter Water Distribution System

Drinking water results for the distribution system are based on samples representative of water supplied to customer's taps. Distribution system results for microbiological and key physical/chemical parameters are summarised below.

Whole of Hunter Water Distribution System - key health analytes

The strains that strains of the strains and strains an							
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	
E. coli	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		0.97	1.08	Yes	
Chlorine	mg/L	5.0		0.87	1.67	Yes	
Copper	mg/L	2.0	95th percentile of test results less than respective ADWG health guideline	0.006	0.013	Yes	
Lead	mg/L	0.01	value	0.000	0.001	Yes	
Manganese	mg/L	0.5		0.011	0.012	Yes	
Trihalomethanes	mg/L	0.25		0.077	0.139	Yes	

Whole of Hunter Water Distribution System - PFOS, PFHxS & PFOA

Analyte	Units of measure	ADWG health guideline value	Performance standard (assessment over previous 12 months)	Average for Month	Maximum detection over the last 12 months	Met performance standard
PFOS + PFHxS	ug/L	0.07	100% of test results less than respective ADWG health guideline	<0.004	0.004	Yes
PFOA	ug/L	0.56	value	<0.002	<0.002	Yes

Whole of Hunter Water Distribution System - 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		0.046	0.035	Yes
Aluminium	mg/L	0.2		0.036	0.051	Yes
Copper	mg/L	1.0	Average of test results less than	0.006	0.006	Yes
Zinc	mg/L	3.0	respective ADWG aesthetic guideline	0.003	0.003	Yes
Manganese	mg/L	0.1	value	0.011	0.005	Yes
Turbidity	NTU	5.0		0.4	0.4	Yes
Colour-True	HU	15.0		5	5	Yes
рН	pH units	6.5-9.2	Average of test results between 6.5-9.2 pH units	7.56	7.59	Yes

Brief explanation of key parameters:	Key Physical, Chemical and Microbiological Parameters
A 95th percentile is a statistical method to evaluate the long-term performance standard for Health-rela Drinking Water Guidelines 2011 (ADWG).	ted analytes. Additional information is available in Section 10.3.2 and Information Sheet 3.3 of the Australian
For more detail please refer:	Australian Drinking Water Guidelines 2011
Map showing water quality zones:	Water Quality Zones at Hunter Water

Water Quality Zones						
Anna Bay and Nelson Bay Zone - key health and	alytes					
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 performand standard
E. coli	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 performand standard
Fluoride	mg/L	1.5		0.99	1.10	Yes
Chlorine	mg/L	5.0		1.10	2.30	Yes
Copper	mg/L	2.0	95th percentile of test results less than	0.005	0.031	Yes
Lead	mg/L	0.01	respective ADWG health guideline value	0.000	0.001	Yes
Manganese	mg/L	0.5		0.006	0.011	Yes
Trihalomethanes	mg/L	0.25		0.044	0.083	Yes
Anna Bay and Nelson Bay Zone - PFOS, PFHxS	& PFOA				1	1
Analyte	Units of measure	ADWG health guideline value	Performance standard (assessment over previous 12 months)	Average for Month	Maximum detection over the last 12 months	Met performand standard
PFOS + PFHxS	ug/L	0.07	100% of test results less than	<0.004	<0.004	Yes
PFOA	ug/L	0.56	respective ADWG health guideline value	<0.004	<0.004	Yes
Anna Bay and Nelson Bay Zone - key aesthetic		0.30	value	<0.002	V0.002	163
za, ana resoni za, zone - key describite						
Analyte	Units of measure	ADWG aesthetic guideline value	Performance standard (assessment over previous 12 months)	Average for Month	12 month average result	Met performand standard
Iron	mg/L	0.3		0.028	0.033	Yes
Aluminium	mg/L	0.2		0.032	0.043	Yes
Copper	mg/L	1.0	Average of test results less than	0.005	0.008	Yes
Zinc	mg/L	3.0	respective ADWG aesthetic guideline value	0.002	0.004	Yes
Manganese	mg/L	0.1	value	0.006	0.003	Yes
Turbidity	NTU	5.0		0.2	0.4	Yes
Colour-True	HU	15.0		5	5	Yes
рН	pH units	6.5-9.2	Average of test results between 6.5-9.2 pH units	7.48	7.46	Yes
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	Met performand standard
					the last 12 months	standard
E. coli	MPN/100mL	Should not be detected in 100mL	At least 98% of test results <1			Yes
	MPN/100mL Units of measure		At least 98% of test results <1 Performance standard (assessment over previous 12 months)	Average for Month	months	
Analyte	Units of measure	ADWG health guideline value	Performance standard (assessment	Month	95th Percentile over the last 12 months	Yes Met performand standard
Analyte Fluoride		detected in 100mL	Performance standard (assessment		months 100.00% 95th Percentile over the last 12	Yes Met performance
Analyte Fluoride Chlorine	Units of measure	ADWG health guideline value	Performance standard (assessment over previous 12 months) 95th percentile of test results less than	Month 0.90	95th Percentile over the last 12 months	Yes Met performand standard Yes
Analyte Fluoride Chlorine Copper	Units of measure mg/L mg/L mg/L mg/L	ADWG health guideline value 1.5 5.0	Performance standard (assessment over previous 12 months)	0.90 1.05	months 100.00% 95th Percentile over the last 12 months 1.00 1.40	Yes Met performand standard Yes Yes
Analyte Fluoride Chlorine Copper Lead Manganese	Units of measure mg/L mg/L mg/L mg/L mg/L	ADWG health guideline value 1.5 5.0 2.0 0.01	Performance standard (assessment over previous 12 months) 95th percentile of test results less than respective ADWC health guideline	0.90 1.05 0.006 0.000 0.002	months 100.00% 95th Percentile over the last 12 months 1.00 1.40 0.009 0.000 0.000	Yes Met performand standard Yes Yes Yes Yes Yes Yes
Analyte Fluoride Chlorine Copper Lead Manganese Trihalomethanes	Units of measure mg/L mg/L mg/L mg/L	ADWG health guideline value 1.5 5.0 2.0 0.01	Performance standard (assessment over previous 12 months) 95th percentile of test results less than respective ADWC health guideline	0.90 1.05 0.006 0.000	months 100.00% 95th Percentile over the last 12 months 1.00 1.40 0.009 0.000	Yes Met performan standard Yes Yes Yes Yes Yes
Analyte Fluoride Chlorine Copper Lead Manganese Trihalomethanes	Units of measure mg/L mg/L mg/L mg/L mg/L	ADWG health guideline value 1.5 5.0 2.0 0.01	Performance standard (assessment over previous 12 months) 95th percentile of test results less than respective ADWC health guideline	0.90 1.05 0.006 0.000 0.002	months 100.00% 95th Percentile over the last 12 months 1.00 1.40 0.009 0.000 0.000	Yes Met performand standard Yes Yes Yes Yes Yes Yes
Analyte Chlorine Copper Lead Manganese Trihalomethanes Chichester Zone - PFOS, PFHxS & PFOA	Units of measure mg/L mg/L mg/L mg/L mg/L	ADWG health guideline value 1.5 5.0 2.0 0.01	Performance standard (assessment over previous 12 months) 95th percentile of test results less than respective ADWC health guideline	0.90 1.05 0.006 0.000 0.002	months 100.00% 95th Percentile over the last 12 months 1.00 1.40 0.009 0.000 0.000	Yes Met performand standard Yes Yes Yes Yes Yes Yes Yes Ye
Analyte Fluoride Chlorine Copper Lead Manganese Trihalomethanes Chichester Zone - PFOS, PFHxS & PFOA	Units of measure mg/L mg/L mg/L mg/L mg/L mg/L mg/L	ADWG health guideline value 1.5 5.0 2.0 0.01 0.5 0.25 ADWG health guideline value	Performance standard (assessment over previous 12 months) 95th percentile of test results less than respective ADWG health guideline value Performance standard (assessment over previous 12 months) 100% of test results less than	0.90 1.05 0.006 0.000 0.002 0.054 Average for Month	months 100.00% 95th Percentile over the last 12 months 1.00 1.40 0.009 0.000 0.000 0.004 0.098 Maximum detection over the last 12 months	Yes Met performand standard Yes Yes Yes Yes Yes Yes Yes Met performand standard
Analyte Fluoride Chlorine Copper Lead Manganese Trihalomethanes Chichester Zone - PFOS, PFHxS & PFOA Analyte	Units of measure mg/L mg/L mg/L mg/L mg/L mg/L mg/L Units of measure	ADWG health guideline value 1.5 5.0 2.0 0.01 0.5 0.25 ADWG health guideline value	Performance standard (assessment over previous 12 months) 95th percentile of test results less than respective ADWC health guideline value Performance standard (assessment over previous 12 months) 100% of test results less than respective ADWC health guideline	0.90 1.05 0.006 0.000 0.002 0.054 Average for Month	## months 100.00% 95th Percentile over the last 12 months 1.00 1.40 0.009 0.000 0.000 0.004 0.098 Maximum detection over the last 12 months <0.004	Yes Met performand standard Yes Yes Yes Yes Yes Yes Yes Ye
Analyte Fluoride Chlorine Copper Lead Manganese Trihalomethanes Chichester Zone - PFOS, PFHxS & PFOA Analyte PFOS + PFHxS	Units of measure mg/L mg/L mg/L mg/L mg/L mg/L Units of measure ug/L	ADWG health guideline value 1.5 5.0 2.0 0.01 0.5 0.25 ADWG health guideline value	Performance standard (assessment over previous 12 months) 95th percentile of test results less than respective ADWG health guideline value Performance standard (assessment over previous 12 months) 100% of test results less than	0.90 1.05 0.006 0.000 0.002 0.054 Average for Month	months 100.00% 95th Percentile over the last 12 months 1.00 1.40 0.009 0.000 0.000 0.004 0.098 Maximum detection over the last 12 months	Yes Met performand standard Yes Yes Yes Yes Yes Yes Yes Met performand standard
Fluoride Chlorine Copper Lead Manganese Trihalomethanes Chichester Zone - PFOS, PFHxS & PFOA Analyte PFOS + PFHxS	Units of measure mg/L mg/L mg/L mg/L mg/L mg/L Units of measure ug/L	ADWG health guideline value 1.5 5.0 2.0 0.01 0.5 0.25 ADWG health guideline value	Performance standard (assessment over previous 12 months) 95th percentile of test results less than respective ADWC health guideline value Performance standard (assessment over previous 12 months) 100% of test results less than respective ADWC health guideline	0.90 1.05 0.006 0.000 0.002 0.054 Average for Month	## months 100.00% 95th Percentile over the last 12 months 1.00 1.40 0.009 0.000 0.000 0.004 0.098 Maximum detection over the last 12 months <0.004	Yes Met performand standard Yes Yes Yes Yes Yes Yes Yes Ye
Fluoride Chlorine Copper Lead Manganese Trihalomethanes Chichester Zone - PFOS, PFHxS & PFOA Analyte PFOS + PFHxS PFOA Chichester Zone - key aesthetic analytes	Units of measure mg/L mg/L mg/L mg/L mg/L mg/L Units of measure ug/L	ADWG health guideline value 1.5 5.0 2.0 0.01 0.5 0.25 ADWG health guideline value	Performance standard (assessment over previous 12 months) 95th percentile of test results less than respective ADWC health guideline value Performance standard (assessment over previous 12 months) 100% of test results less than respective ADWC health guideline	0.90 1.05 0.006 0.000 0.002 0.054 Average for Month	## months 100.00% 95th Percentile over the last 12 months 1.00 1.40 0.009 0.000 0.000 0.004 0.098 Maximum detection over the last 12 months <0.004	Yes Met performand standard Yes Yes Yes Yes Yes Yes Yes Ye
Analyte Chloride Chlorine Copper Lead Manganese Trihalomethanes Chichester Zone - PFOS, PFHxS & PFOA Analyte PFOS + PFHxS PFOA Chichester Zone - key aesthetic analytes Analyte	Units of measure mg/L mg/L mg/L mg/L mg/L mg/L ug/L Units of measure ug/L ug/L	ADWG health guideline value 1.5 5.0 2.0 0.01 0.5 0.25 ADWG health guideline value 0.07 0.56	Performance standard (assessment over previous 12 months) 95th percentile of test results less than respective ADWG health guideline value Performance standard (assessment over previous 12 months) 100% of test results less than respective ADWG health guideline value Performance standard (assessment	0.90 1.05 0.006 0.000 0.002 0.054 Average for Month <0.004 <0.002	months 100.00% 95th Percentile over the last 12 months 1.00 1.40 0.009 0.000 0.000 0.004 0.098 Maximum detection over the last 12 months <0.004 <0.002	Yes Met performant standard Yes Yes Yes Yes Yes Yes Yes Ye
Analyte Chlorine Copper Lead Manganese Trihalomethanes Chichester Zone - PFOS, PFHxS & PFOA Analyte PFOS + PFHxS PFOA Chichester Zone - key aesthetic analytes Analyte Iron Aluminium	Units of measure mg/L mg/L mg/L mg/L mg/L mg/L Units of measure ug/L ug/L Units of measure	ADWG health guideline value 1.5 5.0 2.0 0.01 0.5 0.25 ADWG health guideline value 0.07 0.56 ADWG aesthetic guideline value 0.3 0.2	Performance standard (assessment over previous 12 months) 95th percentile of test results less than respective ADWG health guideline value Performance standard (assessment over previous 12 months) 100% of test results less than respective ADWG health guideline value Performance standard (assessment	Month 0.90 1.05 0.006 0.000 0.002 0.054 Average for Month <0.002 Average for Month 0.002 0.020 0.045	months	Yes Met performan standard Yes Yes Yes Yes Yes Yes Yes Yes Yes Met performan standard Met performan standard
Analyte Fluoride Chlorine Copper Lead Manganese Trihalomethanes Chichester Zone - PFOS, PFHxS & PFOA Analyte PFOS + PFHxS PFOA Chichester Zone - key aesthetic analytes Analyte Iron Aluminium Copper	Units of measure mg/L mg/L mg/L mg/L mg/L mg/L Units of measure ug/L ug/L Units of measure	ADWG health guideline value 1.5 5.0 2.0 0.01 0.5 0.25 ADWG health guideline value 0.07 0.56 ADWG aesthetic guideline value 0.3 0.2 1.0	Performance standard (assessment over previous 12 months) 95th percentile of test results less than respective ADWG health guideline value Performance standard (assessment over previous 12 months) 100% of test results less than respective ADWG health guideline value Performance standard (assessment over previous 12 months) Average of test results less than	Month 0.90 1.05 0.006 0.000 0.002 0.054 Average for Month <0.004 <0.002 Average for Month 0.020 0.045 0.006 0.006	months	Yes Met performanistandard Yes Yes Yes Yes Yes Yes Yes Yes Yes Met performanistandard Yes Yes Yes Yes
Analyte Chlorine Copper Lead Manganese Trihalomethanes Chichester Zone - PFOS, PFHxS & PFOA Analyte PFOS + PFHxS PFOA Chichester Zone - key aesthetic analytes Analyte Iron Aluminium Copper Zinc	Units of measure mg/L mg/L mg/L mg/L mg/L mg/L ug/L Units of measure ug/L Units of measure mg/L ug/L ug/L ug/L ug/L ug/L	ADWG health guideline value 1.5 5.0 2.0 0.01 0.5 0.25 ADWG health guideline value 0.07 0.56 ADWG aesthetic guideline value 0.3 0.2 1.0 3.0	Performance standard (assessment over previous 12 months) 95th percentile of test results less than respective ADWG health guideline value Performance standard (assessment over previous 12 months) 100% of test results less than respective ADWG health guideline value Performance standard (assessment over previous 12 months) Average of test results less than respective ADWG aesthetic guideline	Month 0.90 1.05 0.006 0.002 0.054 Average for Month <0.002 Average for Month <0.002 Average for Month 0.020 0.020 0.045 0.006 0.002	months 100.00%	Yes Met performan standard Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye
Analyte Chlorine Copper Lead Manganese Trihalomethanes Chichester Zone - PFOS, PFHxS & PFOA Analyte PFOS + PFHxS PFOA Chichester Zone - key aesthetic analytes Analyte ron Aluminium Copper Copper Cinc Manganese	Units of measure mg/L mg/L mg/L mg/L mg/L mg/L mg/L Units of measure ug/L Units of measure ug/L ug/L Units of measure	ADWG health guideline value 1.5 5.0 2.0 0.01 0.5 0.25 ADWG health guideline value 0.07 0.56 ADWG aesthetic guideline value 0.3 0.2 1.0 3.0 0.1	Performance standard (assessment over previous 12 months) 95th percentile of test results less than respective ADWG health guideline value Performance standard (assessment over previous 12 months) 100% of test results less than respective ADWG health guideline value Performance standard (assessment over previous 12 months) Average of test results less than	Month 0.90 1.05 0.006 0.002 0.002 0.045 0.006 0.002 0.045 0.002 0.045 0.002 0.006 0.006 0.002	months 100.00% 95th Percentile over the last 12 months 1.00 1.40 0.009 0.0004 0.098 Maximum detection over the last 12 months <0.004 <0.002 12 month average result 0.046 0.083 0.005 0.002 0.005 0.002 0.005 0.002 0.005	Yes Met performanstandard Yes Yes Yes Yes Yes Yes Yes Ye
Analyte Fluoride Chlorine Copper Lead Manganese Trihalomethanes Chichester Zone - PFOS, PFHxS & PFOA Analyte PFOS + PFHxS PFOA Chichester Zone - key aesthetic analytes Analyte Iron Aluminium Copper Zinc Manganese Turbidity	Units of measure mg/L mg/L mg/L mg/L mg/L mg/L Units of measure ug/L Units of measure ug/L Units of measure mg/L mg/L Mg/L	ADWG health guideline value 1.5 5.0 2.0 0.01 0.5 0.25 ADWG health guideline value 0.07 0.56 ADWG aesthetic guideline value 0.3 0.2 1.0 3.0 0.1 5.0	Performance standard (assessment over previous 12 months) 95th percentile of test results less than respective ADWG health guideline value Performance standard (assessment over previous 12 months) 100% of test results less than respective ADWG health guideline value Performance standard (assessment over previous 12 months) Average of test results less than respective ADWG aesthetic guideline	Month 0.90 1.05 0.006 0.002 0.004 0.020 0.045 0.002 0.045 0.002	months 100.00%	Yes Met performant standard Yes Yes Yes Yes Yes Yes Yes Ye
Analyte Fluoride Chlorine Copper Lead Manganese Trihalomethanes Chichester Zone - PFOS, PFHxS & PFOA Analyte PFOS + PFHxS PFOA Chichester Zone - key aesthetic analytes Analyte Iron Aluminium Copper Zinc Manganese Turbidity Colour-True	Units of measure mg/L mg/L mg/L mg/L mg/L mg/L mg/L Units of measure ug/L Units of measure ug/L ug/L Units of measure	ADWG health guideline value 1.5 5.0 2.0 0.01 0.5 0.25 ADWG health guideline value 0.07 0.56 ADWG aesthetic guideline value 0.3 0.2 1.0 3.0 0.1	Performance standard (assessment over previous 12 months) 95th percentile of test results less than respective ADWG health guideline value Performance standard (assessment over previous 12 months) 100% of test results less than respective ADWG health guideline value Performance standard (assessment over previous 12 months) Average of test results less than respective ADWG aesthetic guideline	Month 0.90 1.05 0.006 0.002 0.002 0.045 0.006 0.002 0.045 0.002 0.045 0.002 0.006 0.006 0.002	months 100.00% 95th Percentile over the last 12 months 1.00 1.40 0.009 0.0004 0.098 Maximum detection over the last 12 months <0.004 <0.002 12 month average result 0.046 0.083 0.005 0.002 0.005 0.002 0.005 0.002 0.005	Yes Met performanstandard Yes Yes Yes Yes Yes Yes Yes Ye

Grahamstown 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 performand standard
E. coli	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 performand standard
Fluoride	mg/L	1.5		0.99	1.00	Yes
Chlorine	mg/L	5.0		0.71	1.45	Yes
Copper	mg/L	2.0	95th percentile of test results less than	0.006	0.013	Yes
Lead	mg/L	0.01	respective ADWG health guideline value	0.000	0.001	Yes
Manganese	mg/L	0.5	Value	0.016	0.014	Yes
Trihalomethanes	mg/L	0.25		0.084	0.176	Yes
Grahamstown Zone - PFOS, PFHxS & PFO						
Analyte	Units of measure	ADWG health guideline value	Performance standard (assessment over previous 12 months)	Average for Month	Maximum detection over the last 12 months	Met performan standard
PFOS + PFHxS	ug/L	0.07	100% of test results less than	<0.004	0.004	Yes
PFOA	ug/L	0.56	respective ADWG health guideline value	<0.002	<0.002	Yes
Grahamstown Zone - key aesthetic analyte		0.50	value	10.002	10.002	163
,						
Analyte	Units of measure	ADWG aesthetic guideline value	Performance standard (assessment over previous 12 months)	Average for Month	12 month average result	Met performan standard
ron	mg/L	0.3		0.061	0.028	Yes
Aluminium	mg/L	0.2		0.036	0.053	Yes
Copper	mg/L	1.0	Average of test regults loss than	0.006	0.005	Yes
žinc	mg/L	3.0	Average of test results less than respective ADWG aesthetic guideline	0.004	0.003	Yes
Manganese	mg/L	0.1	value	0.016	0.005	Yes
Turbidity	NTU	5.0		0.4	0.3	Yes
Colour-True	HU	15.0		5	5	Yes
Н	pH units	6.5-9.2	Average of test results between 6.5-9.2 pH units	7.51	7.54	Yes
Gresford Zone - key health analytes						1
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 performand standard
E. coli	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 performan standard
Chlorine	mg/L	5.0	95th percentile of test results less than respective ADWG health guideline value	1.12	1.41	Yes
Gresford Zone - PFOS, PFHxS & PFOA	'					
Analyte	Units of measure	ADWG health guideline value	Performance standard (assessment over previous 12 months)	Average for Month #	Maximum detection over the last 12 months	Met performan standard
PFOS + PFHxS	ug/L	0.07	100% of test results less than	<0.004	<0.004	Yes
PFOA	ug/L	0.56	respective ADWG health guideline value	<0.002	<0.002	Yes
Gresford Zone - key aesthetic analytes	-9-	0.50	value	NO.002	\0.00Z	169
Analyte	Units of measure	ADWG aesthetic guideline value	Performance standard (assessment over previous 12 months)	Average for Month	12 month average result	Met performar standard
furbidity	NTU	5.0	Average of test results less than respective ADWG aesthetic guideline value	0.2	0.1	Yes
DH	pH units	6.5-9.2	Average of test results between 6.5-9.2	8.37	8.45	Yes

Lemon Tree Passage Zone - key health ar	nalytes					
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
E. coli	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		0.99	1.00	Yes
Chlorine	mg/L	5.0		1.05	1.78	Yes
Copper	mg/L	2.0	95th percentile of test results less than respective ADWG health guideline	0.003	0.010	Yes
Lead	mg/L	0.01	value	0.000	0.001	Yes
Manganese	mg/L	0.5		0.012	0.012	Yes
Trihalomethanes	mg/L	0.25		0.109	0.136	Yes
Lemon Tree Passage Zone - PFOS, PFHx	S & PFOA					
Analyte	Units of measure	ADWG health guideline value	Performance standard (assessment over previous 12 months)	Average for Month	Maximum detection over the last 12 months	Met performance standard
PFOS + PFHxS	ug/L	0.07	100% of test results less than	<0.004	<0.004	Yes
PFOA	ug/L	0.56	respective ADWG health guideline value	<0.002	<0.002	Yes
Lemon Tree Passage Zone - key aesthetic	c 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		0.052	0.043	Yes
Aluminium	mg/L	0.2	1	0.036	0.037	Yes
			1			

PFOS, PFHxS and PFOA Results for Clear Water Tanks - September 2023

mg/L

mg/L

NTU

HU

pH units

Clear water tanks (CWTs) are the final point at each water treatment plant before water enters the distribution system for delivery to customers. Maximum drinking water results in the CWTs of the water treatment plants monitored during the month are summarised below.

1.0

0.1

5.0

15.0

6.5-9.2

Average of test results less than respective ADWG aesthetic guidelin value

Average of test results between 6.5-9.2

pH units

0.003

0.012

5

7.50

0.005

0.004

0.006

0.4

7.52

Yes

Yes

Analyte	Units of measure	ADWG health guideline value	Grahamstown CWT
PFOS + PFHxS	ug/L	0.07	<0.004
PFOA	ug/L	0.56	<0.002

PFOS, PFHxS and PFOA Results for Raw Waters - September 2023

Raw water monitoring points are representative of water received at the water treatment plants, prior to any treatment occurring. Maximum raw water results of the water treatment plants monitored during the month are summarised below.

Analyte	Units of measure	ADWG health guideline value	Grahamstown Raw - East Main ^	Grahamstown Raw - West Main ^	Lemon Tree Passage WTP - Raw Water
PFOS + PFHxS	ug/L	0.07	0.004	<0.004	<0.004
PFOA	ug/L	0.56	<0.002	<0.002	<0.002

Notes

Copper

Manganes

Colour-True

Turbidity

Zinc

рН

^ Water sourced from the Tomago Borefield -when operational -is delivered to Grahamstown WTP via the East'Main. When the Tomago Borefield is not being used as part of the drinking water supply mix for the Lower Hunter, the East'and West'monitoring points are both representative of water sourced from Grahamstown Dam.

One sample is collected per month in the Gresford Zone

^{*} Gresford WTP can be supplied from either the Allyn or Paterson Rivers. The plant was supplied from the Paterson River for the month.