CERTIFICATE OF ANALYSIS with GUIDELINE COMPARISON

Work Order	: **EP2610057**	Page	: 1 of 13
Client	: **GASCOYNE WATER COOPERATIVE LTD**	Laboratory	: Environmental Division Perth
Contact	: Lisa Sweetman	Contact	: Customer Services EP
Address	: 50 BOUNDARY ROAD PO BOX 5 CARNARVON WESTERN AUSTRALIA, AUSTRALIA 6701	Address	: 26 Rigali Way Wangara WA Australia 6065
Telephone	: ----	Telephone	: +61-8-9406 1301
Project	: 3 Site Water Quality Testing		
Order number	: ----		
C-O-C number	: ----	No. of samples received	: 3
Site	: Town Sites	No. of samples analysed	: 3
Sampled by	: Carnarvon Plumbing	Issue Date	: 23-Jun-2026 10:25
Quote number	: EP2024GASWAT0004 (EP24GASWAT0004_V2)	Date Samples Received	: 17-Jun-2026 14:20

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. All pages of this report have been checked and approved for release. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to Assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	Position (Accreditation Category)
Canhuang Ke	Inorganics Supervisor (Perth Inorganics, Wangara, WA)
Isabelle Carver	Laboratory Technician (Perth Microbiology, Wangara, WA)
Vinitha Kesavan	Senior Microbiologist (Perth Microbiology, Wangara, WA)

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.
Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.
Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Where a result is required to meet compliance limits, the associated uncertainty **must be** considered. Refer to the ALS Contract Terms and Conditions for details, and EnviroMail 53 for a guide on how to interpret the measurement of uncertainty (MU).

Work Order Specific Comments

- MF = membrane filtration
- CFU = colony forming unit
- As per QWI – EN55-3 Data Interpreting Procedures, Ionic balances are typically calculated using Major Anions - Chloride, Alkalinity and Sulfate; and Major Cations - Calcium, Magnesium, Potassium and Sodium. Where applicable and dependent upon sample matrix, the Ionic Balance may also include the additional contribution of Ammonia, Dissolved Metals by ICPMS and H+ to the Cations and Nitrate, SiO2 and Fluoride to the Anions.
- MW006 is ALS's internal code and is equivalent to AS4276.5.
- As per QWI-EN/55-3 Ionic Balance % is only reported when the anion sum exceeds or is equal to 3.0 meq/L. When the anion sum is less than 3.0 meq/L the acceptable difference is 0.2 meq/l and ionic balance % is not reported.
- MW006 and MW007:Analysis Commenced:Date:17/06/2026.Time:3:30PM.
- Microbiological Comment: In accordance with ALS work instruction QWI-MIC/04, membrane filtration result is reported an approximate (~) when the count of colonies on the filtered membrane is outside the range of 10 - 100cfu.
- MW007 is ALS's internal code and is equivalent to AS4276.5.
- Sodium Adsorption Ratio (where reported): Where results for Na, Ca or Mg are <LOR, a concentration at half the reported LOR is incorporated into the SAR calculation. This represents a conservative approach for Na relative to the assumption that <LOR = zero concentration and a conservative approach for Ca & Mg relative to the assumption that <LOR is equivalent to the LOR concentration.
- ED045G: The presence of Thiocyanate, Thiosulfate and Sulfite can positively contribute to the chloride result, thereby may bias results higher than expected. Results should be scrutinised accordingly.

Analytical Results

Irrigation and General Water Use Long-term Trigger Values (Primary Industries, ANZECC 2000)

Sub-Matrix: **WATER**

		Sample ID	186 North River Road		Long-term Trigger Values (LTV) in Irrigation Water (Long-term use - up to 100 years)		
		Laboratory sample ID	EP2610057001				
		Sampling date / time	16-Jun-2026 16:05				
Parameter	CAS Number	LOR / Unit	Result	MU	Low	High	Unit
ED045G: Chloride by Discrete Analyser							
Chloride	16887-00-6	1 mg/L	**120**	± 10	----	25	mg/L
ED093F: Dissolved Major Cations							
Sodium	7440-23-5	1 mg/L	**72**	± 7	----	115	mg/L
EG020F: Dissolved Metals by ICP-MS							
Aluminium	7429-90-5	0.01 mg/L	<0.01	- -	----	5	mg/L
Arsenic	7440-38-2	0.001 mg/L	**0.002**	± 0.004	----	0.1	mg/L
Cadmium	7440-43-9	0.0001 mg/L	<0.0001	- -	----	0.01	mg/L
Copper	7440-50-8	0.001 mg/L	<0.001	- -	----	0.2	mg/L
Lead	7439-92-1	0.001 mg/L	<0.001	- -	----	2	mg/L
Manganese	7439-96-5	0.001 mg/L	<0.001	- -	----	0.2	mg/L
Molybdenum	7439-98-7	0.001 mg/L	**0.002**	± 0.0003	----	0.01	mg/L
Nickel	7440-02-0	0.001 mg/L	<0.001	- -	----	0.2	mg/L
Selenium	7782-49-2	0.004 mg/L	<0.004	- -	----	0.02	mg/L
Zinc	7440-66-6	0.005 mg/L	<0.005	- -	----	2	mg/L
Boron	7440-42-8	0.05 mg/L	**0.23**	± 0.05	----	0.5	mg/L
Iron	7439-89-6	0.05 mg/L	<0.05	- -	----	0.2	mg/L
EG020T: Total Metals by ICP-MS							
Aluminium	7429-90-5	0.01 mg/L	<0.01	- -	----	5	mg/L
Arsenic	7440-38-2	0.001 mg/L	**0.002**	± 0.0002	----	0.1	mg/L
Cadmium	7440-43-9	0.0001 mg/L	<0.0001		----	0.01	mg/L
Copper	7440-50-8	0.001 mg/L	<0.001	- -	----	0.2	mg/L

Analytical Results

Irrigation and General Water Use Long-term Trigger Values (Primary Industries, ANZECC 2000)

Sub-Matrix: **WATER**

				Sample ID	186 North River Road		Long-term Trigger Values (LTV) in Irrigation Water (Long-term use - up to 100 years)		
				Laboratory sample ID	EP2610057001				
				Sampling date / time	16-Jun-2026 16:05				
Parameter	*CAS Number*	*LOR*	*Unit*		Result	MU	*Low*	*High*	*Unit*
Lead	7439-92-1	0.001	mg/L		<0.001	- -	----	2	mg/L
Manganese	7439-96-5	0.001	mg/L		<0.001	- -	----	0.2	mg/L
Molybdenum	7439-98-7	0.001	mg/L		**0.003**		----	0.01	mg/L
Nickel	7440-02-0	0.001	mg/L		<0.001	- -	----	0.2	mg/L
Selenium	7782-49-2	0.004	mg/L		<0.004	- -	----	0.02	mg/L
Zinc	7440-66-6	0.005	mg/L		<0.005	- -	----	2	mg/L
Boron	7440-42-8	0.05	mg/L		**0.27**	± 0.03	----	0.5	mg/L
Iron	7439-89-6	0.05	mg/L		<0.05		----	0.2	mg/L
EK040P: Fluoride by PC Titrator									
Fluoride	16984-48-8	0.1	mg/L		**0.3**		----	1	mg/L

Aesthetic guideline values

Sub-Matrix: **WATER**

				Sample ID	186 North River Road		Aesthetic Guideline Limits - ADWG 2011 (Version 4.0, June 2025)		
				Laboratory sample ID	EP2610057001				
				Sampling date / time	16-Jun-2026 16:05				
Parameter	*CAS Number*	*LOR*	*Unit*		Result	MU	*Low*	*High*	*Unit*
ED045G: Chloride by Discrete Analyser									
Chloride	16887-00-6	1	mg/L		**120**	± 10	----	250	mg/L
ED093F: Dissolved Major Cations									
Sodium	7440-23-5	1	mg/L		**72**	± 7	----	180	mg/L
ED093F: SAR and Hardness Calculations									
Total Hardness as CaCO3	----	1	mg/L		**169**		----	200	mg/L
EG020F: Dissolved Metals by ICP-MS									
Copper	7440-50-8	0.001	mg/L		<0.001	- -	----	1	mg/L
Manganese	7439-96-5	0.001	mg/L		<0.001	- -	----	0.05	mg/L
Zinc	7440-66-6	0.005	mg/L		<0.005	- -	----	3	mg/L
Iron	7439-89-6	0.05	mg/L		<0.05	- -	----	0.3	mg/L
EG020T: Total Metals by ICP-MS									
Copper	7440-50-8	0.001	mg/L		<0.001	- -	----	1	mg/L
Manganese	7439-96-5	0.001	mg/L		<0.001	- -	----	0.05	mg/L
Zinc	7440-66-6	0.005	mg/L		<0.005	- -	----	3	mg/L
Iron	7439-89-6	0.05	mg/L		<0.05		----	0.3	mg/L
EG052G: Silica by Discrete Analyser									
Reactive Silica	----	0.05	mg/L		**42.6**	± 2.47	----	80	mg/L

Analytical Results

Health based guideline values

Sub-Matrix: **WATER**

		Sample ID	186 North River Road		Health Guideline Limits - ADWG 2011 (Version 4.0, June 2025)		
		Laboratory sample ID	EP2610057001				
		Sampling date / time	16-Jun-2026 16:05				
Parameter	CAS Number	LOR	Unit	Result MU	Low	High	Unit
EG020F: Dissolved Metals by ICP-MS							
Arsenic	7440-38-2	0.001	mg/L	**0.002** ± 0.004	----	0.01	mg/L
Cadmium	7440-43-9	0.0001	mg/L	<0.0001 - -	----	0.002	mg/L
Copper	7440-50-8	0.001	mg/L	<0.001 - -	----	2	mg/L
Lead	7439-92-1	0.001	mg/L	<0.001 - -	----	0.005	mg/L
Manganese	7439-96-5	0.001	mg/L	<0.001 - -	----	0.1	mg/L
Molybdenum	7439-98-7	0.001	mg/L	**0.002** ± 0.0003	----	0.05	mg/L
Nickel	7440-02-0	0.001	mg/L	<0.001 - -	----	0.02	mg/L
Selenium	7782-49-2	0.004	mg/L	<0.004 - -	----	0.004	mg/L
Boron	7440-42-8	0.05	mg/L	**0.23** ± 0.05	----	4	mg/L
EG020T: Total Metals by ICP-MS							
Arsenic	7440-38-2	0.001	mg/L	**0.002** ± 0.0002	----	0.01	mg/L
Cadmium	7440-43-9	0.0001	mg/L	<0.0001	----	0.002	mg/L
Copper	7440-50-8	0.001	mg/L	<0.001 - -	----	2	mg/L
Lead	7439-92-1	0.001	mg/L	<0.001 - -	----	0.005	mg/L
Manganese	7439-96-5	0.001	mg/L	<0.001 - -	----	0.1	mg/L
Molybdenum	7439-98-7	0.001	mg/L	**0.003**	----	0.05	mg/L
Nickel	7440-02-0	0.001	mg/L	<0.001 - -	----	0.02	mg/L
Selenium	7782-49-2	0.004	mg/L	<0.004 - -	----	0.004	mg/L
Boron	7440-42-8	0.05	mg/L	**0.27** ± 0.03	----	4	mg/L
EK040P: Fluoride by PC Titrator							
Fluoride	16984-48-8	0.1	mg/L	**0.3**	----	1.5	mg/L
EK057G: Nitrite as N by Discrete Analyser							
Nitrite as N	14797-65-0	0.01	mg/L	<0.01 - -	----	0.913	mg/L
EK058G: Nitrate as N by Discrete Analyser							
Nitrate as N	14797-55-8	0.01	mg/L	**0.94**	----	11.3	mg/L
MW006: Faecal Coliforms & E.coli by MF							
Thermotolerant Coliforms	----	1	CFU/100mL	<1	----	1	CFU/100mL
Escherichia coli	----	1	CFU/100mL	<1	----	1	CFU/100mL

Microbiology

Sub-Matrix: **WATER**

		Sample ID	186 North River Road		Microbiology		
		Laboratory sample ID	EP2610057001				
		Sampling date / time	16-Jun-2026 16:05				
Parameter	CAS Number	LOR	Unit	Result MU	Low	High	Unit
MW006: Faecal Coliforms & E.coli by MF							
Escherichia coli	----	1	CFU/100mL	<1	----	1	CFU/100mL
MW007: Coliforms by MF							
Coliforms	----	1	CFU/100mL	**~8**	----	1	CFU/100mL

Analytical Results

Sub-Matrix: **WATER**

				Sample ID	186 North River Road		Guideline comparison not requested for sample		
				Laboratory sample ID	EP2610057001				
				Sampling date / time	16-Jun-2026 16:05				
Parameter	*CAS Number*	*LOR*	----		Result	MU	----	----	----
EA010P: Conductivity by PC Titrator									
Electrical Conductivity @ 25°C	----	1	µS/cm		**702**		----	----	----
ED037P: Alkalinity by PC Titrator									
Hydroxide Alkalinity as CaCO3	----	1	mg/L		<1		----	----	----
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L		<1		----	----	----
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L		**108**		----	----	----
Total Alkalinity as CaCO3	----	1	mg/L		**108**	± 16	----	----	----
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA									
Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L		**65**	± 6	----	----	----
ED093F: Dissolved Major Cations									
Calcium	7440-70-2	1	mg/L		**38**	± 3	----	----	----
Magnesium	7439-95-4	1	mg/L		**18**	± 1	----	----	----
Potassium	7440-09-7	1	mg/L		**8**	± 0.6	----	----	----
EG052G: Silica by Discrete Analyser									
Reactive Silica as Silicon	----	0.05	mg/L		**19.9**		----	----	----
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser									
Nitrite + Nitrate as N	----	0.01	mg/L		**0.94**	± 0.05	----	----	----
EN055: Ionic Balance									
ø Total Anions	----	0.01	meq/L		**6.90**		----	----	----
ø Total Cations	----	0.01	meq/L		**6.71**		----	----	----
ø Ionic Balance	----	0.01	%		**1.34**		----	----	----

Analytical Results

Irrigation and General Water Use Long-term Trigger Values (Primary Industries, ANZECC 2000)

Sub-Matrix: **WATER**

				Sample ID	23 McGlades Road		Long-term Trigger Values (LTV) in Irrigation Water (Long-term use - up to 100 years)		
				Laboratory sample ID	EP2610057002				
				Sampling date / time	16-Jun-2026 16:23				
Parameter	*CAS Number*	*LOR*	*Unit*		Result	MU	*Low*	*High*	*Unit*
ED045G: Chloride by Discrete Analyser									
Chloride	16887-00-6	1	mg/L		**170**	± 14	----	25	mg/L
ED093F: Dissolved Major Cations									
Sodium	7440-23-5	1	mg/L		**86**	± 9	----	115	mg/L
EG020F: Dissolved Metals by ICP-MS									
Aluminium	7429-90-5	0.01	mg/L		<0.01	- -	----	5	mg/L
Arsenic	7440-38-2	0.001	mg/L		**0.001**	± 0.004	----	0.1	mg/L
Cadmium	7440-43-9	0.0001	mg/L		<0.0001	- -	----	0.01	mg/L
Copper	7440-50-8	0.001	mg/L		<0.001	- -	----	0.2	mg/L
Lead	7439-92-1	0.001	mg/L		<0.001	- -	----	2	mg/L
Manganese	7439-96-5	0.001	mg/L		<0.001	- -	----	0.2	mg/L
Molybdenum	7439-98-7	0.001	mg/L		**0.002**	± 0.0003	----	0.01	mg/L
Nickel	7440-02-0	0.001	mg/L		<0.001	- -	----	0.2	mg/L
Selenium	7782-49-2	0.004	mg/L		<0.004	- -	----	0.02	mg/L
Zinc	7440-66-6	0.005	mg/L		<0.005	- -	----	2	mg/L
Boron	7440-42-8	0.05	mg/L		**0.26**	± 0.05	----	0.5	mg/L
Iron	7439-89-6	0.05	mg/L		<0.05	- -	----	0.2	mg/L
EG020T: Total Metals by ICP-MS									
Aluminium	7429-90-5	0.01	mg/L		<0.01	- -	----	5	mg/L
Arsenic	7440-38-2	0.001	mg/L		**0.001**	± 0.0002	----	0.1	mg/L
Cadmium	7440-43-9	0.0001	mg/L		<0.0001		----	0.01	mg/L
Copper	7440-50-8	0.001	mg/L		<0.001	- -	----	0.2	mg/L
Lead	7439-92-1	0.001	mg/L		<0.001	- -	----	2	mg/L
Manganese	7439-96-5	0.001	mg/L		<0.001	- -	----	0.2	mg/L
Molybdenum	7439-98-7	0.001	mg/L		**0.002**		----	0.01	mg/L
Nickel	7440-02-0	0.001	mg/L		<0.001	- -	----	0.2	mg/L
Selenium	7782-49-2	0.004	mg/L		<0.004	- -	----	0.02	mg/L
Zinc	7440-66-6	0.005	mg/L		<0.005	- -	----	2	mg/L
Boron	7440-42-8	0.05	mg/L		**0.28**	± 0.03	----	0.5	mg/L
Iron	7439-89-6	0.05	mg/L		<0.05		----	0.2	mg/L
EK040P: Fluoride by PC Titrator									
Fluoride	16984-48-8	0.1	mg/L		**0.3**		----	1	mg/L

Analytical Results

Aesthetic guideline values

Sub-Matrix: **WATER**

		Sample ID	23 McGlades Road		Aesthetic Guideline Limits - ADWG 2011 (Version 4.0, June 2025)		
		Laboratory sample ID	EP2610057002				
		Sampling date / time	16-Jun-2026 16:23				
Parameter	CAS Number	LOR	Unit	Result	MU	Low	High	Unit
ED045G: Chloride by Discrete Analyser								
Chloride	16887-00-6	1	mg/L	**170**	± 14	----	250	mg/L
ED093F: Dissolved Major Cations								
Sodium	7440-23-5	1	mg/L	**86**	± 9	----	180	mg/L
ED093F: SAR and Hardness Calculations								
Total Hardness as CaCO3	----	1	mg/L	**220**		----	200	mg/L
EG020F: Dissolved Metals by ICP-MS								
Copper	7440-50-8	0.001	mg/L	<0.001	- -	----	1	mg/L
Manganese	7439-96-5	0.001	mg/L	<0.001	- -	----	0.05	mg/L
Zinc	7440-66-6	0.005	mg/L	<0.005	- -	----	3	mg/L
Iron	7439-89-6	0.05	mg/L	<0.05	- -	----	0.3	mg/L
EG020T: Total Metals by ICP-MS								
Copper	7440-50-8	0.001	mg/L	<0.001	- -	----	1	mg/L
Manganese	7439-96-5	0.001	mg/L	<0.001	- -	----	0.05	mg/L
Zinc	7440-66-6	0.005	mg/L	<0.005	- -	----	3	mg/L
Iron	7439-89-6	0.05	mg/L	<0.05		----	0.3	mg/L
EG052G: Silica by Discrete Analyser								
Reactive Silica	----	0.05	mg/L	**51.1**	± 2.97	----	80	mg/L

Analytical Results

Health based guideline values

Sub-Matrix: **WATER**

		Sample ID	23 McGlades Road		Health Guideline Limits - ADWG 2011 (Version 4.0, June 2025)		
		Laboratory sample ID	EP2610057002				
		Sampling date / time	16-Jun-2026 16:23				
Parameter	CAS Number	LOR	Unit	Result MU	Low	High	Unit
EG020F: Dissolved Metals by ICP-MS							
Arsenic	7440-38-2	0.001	mg/L	**0.001** ± 0.004	----	0.01	mg/L
Cadmium	7440-43-9	0.0001	mg/L	<0.0001 - -	----	0.002	mg/L
Copper	7440-50-8	0.001	mg/L	<0.001 - -	----	2	mg/L
Lead	7439-92-1	0.001	mg/L	<0.001 - -	----	0.005	mg/L
Manganese	7439-96-5	0.001	mg/L	<0.001 - -	----	0.1	mg/L
Molybdenum	7439-98-7	0.001	mg/L	**0.002** ± 0.0003	----	0.05	mg/L
Nickel	7440-02-0	0.001	mg/L	<0.001 - -	----	0.02	mg/L
Selenium	7782-49-2	0.004	mg/L	<0.004 - -	----	0.004	mg/L
Boron	7440-42-8	0.05	mg/L	**0.26** ± 0.05	----	4	mg/L
EG020T: Total Metals by ICP-MS							
Arsenic	7440-38-2	0.001	mg/L	**0.001** ± 0.0002	----	0.01	mg/L
Cadmium	7440-43-9	0.0001	mg/L	<0.0001	----	0.002	mg/L
Copper	7440-50-8	0.001	mg/L	<0.001 - -	----	2	mg/L
Lead	7439-92-1	0.001	mg/L	<0.001 - -	----	0.005	mg/L
Manganese	7439-96-5	0.001	mg/L	<0.001 - -	----	0.1	mg/L
Molybdenum	7439-98-7	0.001	mg/L	**0.002**	----	0.05	mg/L
Nickel	7440-02-0	0.001	mg/L	<0.001 - -	----	0.02	mg/L
Selenium	7782-49-2	0.004	mg/L	<0.004 - -	----	0.004	mg/L
Boron	7440-42-8	0.05	mg/L	**0.28** ± 0.03	----	4	mg/L
EK040P: Fluoride by PC Titrator							
Fluoride	16984-48-8	0.1	mg/L	**0.3**	----	1.5	mg/L
EK057G: Nitrite as N by Discrete Analyser							
Nitrite as N	14797-65-0	0.01	mg/L	<0.01 - -	----	0.913	mg/L
EK058G: Nitrate as N by Discrete Analyser							
Nitrate as N	14797-55-8	0.01	mg/L	**0.80**	----	11.3	mg/L
MW006: Faecal Coliforms & E.coli by MF							
Thermotolerant Coliforms	----	1	CFU/100mL	**~2**	----	1	CFU/100mL
Escherichia coli	----	1	CFU/100mL	<1	----	1	CFU/100mL

Microbiology

Sub-Matrix: **WATER**

		Sample ID	23 McGlades Road		Microbiology		
		Laboratory sample ID	EP2610057002				
		Sampling date / time	16-Jun-2026 16:23				
Parameter	CAS Number	LOR	Unit	Result MU	Low	High	Unit
MW006: Faecal Coliforms & E.coli by MF							
Escherichia coli	----	1	CFU/100mL	<1	----	1	CFU/100mL
MW007: Coliforms by MF							
Coliforms	----	1	CFU/100mL	**19**	----	1	CFU/100mL

Analytical Results

Sub-Matrix: **WATER**

				Sample ID	23 McGlades Road		Guideline comparison not requested for sample		
				Laboratory sample ID	EP2610057002				
				Sampling date / time	16-Jun-2026 16:23				
Parameter	*CAS Number*	*LOR*	----		Result	MU	----	----	----
EA010P: Conductivity by PC Titrator									
Electrical Conductivity @ 25°C	----	1	µS/cm		**881**		----	----	----
ED037P: Alkalinity by PC Titrator									
Hydroxide Alkalinity as CaCO3	----	1	mg/L		<1		----	----	----
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L		<1		----	----	----
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L		**136**		----	----	----
Total Alkalinity as CaCO3	----	1	mg/L		**136**	± 21	----	----	----
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA									
Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L		**74**	± 7	----	----	----
ED093F: Dissolved Major Cations									
Calcium	7440-70-2	1	mg/L		**52**	± 5	----	----	----
Magnesium	7439-95-4	1	mg/L		**22**	± 2	----	----	----
Potassium	7440-09-7	1	mg/L		**9**	± 0.6	----	----	----
EG052G: Silica by Discrete Analyser									
Reactive Silica as Silicon	----	0.05	mg/L		**23.9**		----	----	----
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser									
Nitrite + Nitrate as N	----	0.01	mg/L		**0.80**	± 0.05	----	----	----
EN055: Ionic Balance									
ø Total Anions	----	0.01	meq/L		**9.05**		----	----	----
ø Total Cations	----	0.01	meq/L		**8.38**		----	----	----
ø Ionic Balance	----	0.01	%		**3.88**		----	----	----

Analytical Results

Irrigation and General Water Use Long-term Trigger Values (Primary Industries, ANZECC 2000)

Sub-Matrix: **WATER**

				Sample ID	50 Boundary road		Long-term Trigger Values (LTV) in Irrigation Water (Long-term use - up to 100 years)		
				Laboratory sample ID	EP2610057003				
				Sampling date / time	16-Jun-2026 16:40				
Parameter	*CAS Number*	*LOR*	*Unit*		Result	MU	*Low*	*High*	*Unit*
ED045G: Chloride by Discrete Analyser									
Chloride	16887-00-6	1	mg/L		**114**	± 9	----	25	mg/L
ED093F: Dissolved Major Cations									
Sodium	7440-23-5	1	mg/L		**75**	± 8	----	115	mg/L
EG020F: Dissolved Metals by ICP-MS									
Aluminium	7429-90-5	0.01	mg/L		<0.01	- -	----	5	mg/L
Arsenic	7440-38-2	0.001	mg/L		**0.002**	± 0.004	----	0.1	mg/L
Cadmium	7440-43-9	0.0001	mg/L		<0.0001	- -	----	0.01	mg/L
Copper	7440-50-8	0.001	mg/L		<0.001	- -	----	0.2	mg/L
Lead	7439-92-1	0.001	mg/L		<0.001	- -	----	2	mg/L
Manganese	7439-96-5	0.001	mg/L		<0.001	- -	----	0.2	mg/L
Molybdenum	7439-98-7	0.001	mg/L		**0.002**	± 0.0003	----	0.01	mg/L
Nickel	7440-02-0	0.001	mg/L		<0.001	- -	----	0.2	mg/L
Selenium	7782-49-2	0.004	mg/L		<0.004	- -	----	0.02	mg/L
Zinc	7440-66-6	0.005	mg/L		<0.005	- -	----	2	mg/L
Boron	7440-42-8	0.05	mg/L		**0.23**	± 0.05	----	0.5	mg/L
Iron	7439-89-6	0.05	mg/L		<0.05	- -	----	0.2	mg/L
EG020T: Total Metals by ICP-MS									
Aluminium	7429-90-5	0.01	mg/L		<0.01	- -	----	5	mg/L
Arsenic	7440-38-2	0.001	mg/L		**0.002**	± 0.0002	----	0.1	mg/L
Cadmium	7440-43-9	0.0001	mg/L		<0.0001		----	0.01	mg/L
Copper	7440-50-8	0.001	mg/L		<0.001	- -	----	0.2	mg/L
Lead	7439-92-1	0.001	mg/L		<0.001	- -	----	2	mg/L
Manganese	7439-96-5	0.001	mg/L		<0.001	- -	----	0.2	mg/L
Molybdenum	7439-98-7	0.001	mg/L		**0.002**		----	0.01	mg/L
Nickel	7440-02-0	0.001	mg/L		<0.001	- -	----	0.2	mg/L
Selenium	7782-49-2	0.004	mg/L		<0.004	- -	----	0.02	mg/L
Zinc	7440-66-6	0.005	mg/L		<0.005	- -	----	2	mg/L
Boron	7440-42-8	0.05	mg/L		**0.24**	± 0.03	----	0.5	mg/L
Iron	7439-89-6	0.05	mg/L		<0.05		----	0.2	mg/L
EK040P: Fluoride by PC Titrator									
Fluoride	16984-48-8	0.1	mg/L		**0.2**		----	1	mg/L

Analytical Results

Aesthetic guideline values

Sub-Matrix: **WATER**

				Sample ID	50 Boundary road		Aesthetic Guideline Limits - ADWG 2011 (Version 4.0, June 2025)		
				Laboratory sample ID	EP2610057003				
				Sampling date / time	16-Jun-2026 16:40				
Parameter	*CAS Number*	*LOR*	*Unit*		Result	MU	*Low*	*High*	*Unit*
ED045G: Chloride by Discrete Analyser									
Chloride	16887-00-6	1	mg/L		**114**	± 9	----	250	mg/L
ED093F: Dissolved Major Cations									
Sodium	7440-23-5	1	mg/L		**75**	± 8	----	180	mg/L
ED093F: SAR and Hardness Calculations									
Total Hardness as CaCO3	----	1	mg/L		**157**		----	200	mg/L
EG020F: Dissolved Metals by ICP-MS									
Copper	7440-50-8	0.001	mg/L		<0.001	- -	----	1	mg/L
Manganese	7439-96-5	0.001	mg/L		<0.001	- -	----	0.05	mg/L
Zinc	7440-66-6	0.005	mg/L		<0.005	- -	----	3	mg/L
Iron	7439-89-6	0.05	mg/L		<0.05	- -	----	0.3	mg/L
EG020T: Total Metals by ICP-MS									
Copper	7440-50-8	0.001	mg/L		<0.001	- -	----	1	mg/L
Manganese	7439-96-5	0.001	mg/L		<0.001	- -	----	0.05	mg/L
Zinc	7440-66-6	0.005	mg/L		<0.005	- -	----	3	mg/L
Iron	7439-89-6	0.05	mg/L		<0.05		----	0.3	mg/L
EG052G: Silica by Discrete Analyser									
Reactive Silica	----	0.05	mg/L		**43.7**	± 2.53	----	80	mg/L

Analytical Results

Health based guideline values

Sub-Matrix: **WATER**

		Sample ID	50 Boundary road		Health Guideline Limits - ADWG 2011 (Version 4.0, June 2025)		
		Laboratory sample ID	EP2610057003				
		Sampling date / time	16-Jun-2026 16:40				
Parameter	CAS Number	LOR	Unit	Result MU	Low	High	Unit
EG020F: Dissolved Metals by ICP-MS							
Arsenic	7440-38-2	0.001	mg/L	**0.002** ± 0.004	----	0.01	mg/L
Cadmium	7440-43-9	0.0001	mg/L	<0.0001 - -	----	0.002	mg/L
Copper	7440-50-8	0.001	mg/L	<0.001 - -	----	2	mg/L
Lead	7439-92-1	0.001	mg/L	<0.001 - -	----	0.005	mg/L
Manganese	7439-96-5	0.001	mg/L	<0.001 - -	----	0.1	mg/L
Molybdenum	7439-98-7	0.001	mg/L	**0.002** ± 0.0003	----	0.05	mg/L
Nickel	7440-02-0	0.001	mg/L	<0.001 - -	----	0.02	mg/L
Selenium	7782-49-2	0.004	mg/L	<0.004 - -	----	0.004	mg/L
Boron	7440-42-8	0.05	mg/L	**0.23** ± 0.05	----	4	mg/L
EG020T: Total Metals by ICP-MS							
Arsenic	7440-38-2	0.001	mg/L	**0.002** ± 0.0002	----	0.01	mg/L
Cadmium	7440-43-9	0.0001	mg/L	<0.0001	----	0.002	mg/L
Copper	7440-50-8	0.001	mg/L	<0.001 - -	----	2	mg/L
Lead	7439-92-1	0.001	mg/L	<0.001 - -	----	0.005	mg/L
Manganese	7439-96-5	0.001	mg/L	<0.001 - -	----	0.1	mg/L
Molybdenum	7439-98-7	0.001	mg/L	**0.002**	----	0.05	mg/L
Nickel	7440-02-0	0.001	mg/L	<0.001 - -	----	0.02	mg/L
Selenium	7782-49-2	0.004	mg/L	<0.004 - -	----	0.004	mg/L
Boron	7440-42-8	0.05	mg/L	**0.24** ± 0.03	----	4	mg/L
EK040P: Fluoride by PC Titrator							
Fluoride	16984-48-8	0.1	mg/L	**0.2**	----	1.5	mg/L
EK057G: Nitrite as N by Discrete Analyser							
Nitrite as N	14797-65-0	0.01	mg/L	**0.01** ± 0.005	----	0.913	mg/L
EK058G: Nitrate as N by Discrete Analyser							
Nitrate as N	14797-55-8	0.01	mg/L	**0.93**	----	11.3	mg/L
MW006: Faecal Coliforms & E.coli by MF							
Thermotolerant Coliforms	----	1	CFU/100mL	<1	----	1	CFU/100mL
Escherichia coli	----	1	CFU/100mL	<1	----	1	CFU/100mL

Microbiology

Sub-Matrix: **WATER**

		Sample ID	50 Boundary road		Microbiology		
		Laboratory sample ID	EP2610057003				
		Sampling date / time	16-Jun-2026 16:40				
Parameter	CAS Number	LOR	Unit	Result MU	Low	High	Unit
MW006: Faecal Coliforms & E.coli by MF							
Escherichia coli	----	1	CFU/100mL	<1	----	1	CFU/100mL
MW007: Coliforms by MF							
Coliforms	----	1	CFU/100mL	**~3**	----	1	CFU/100mL

Analytical Results

Sub-Matrix: **WATER**

				Sample ID	50 Boundary road		Guideline comparison not requested for sample		
				Laboratory sample ID	EP2610057003				
				Sampling date / time	16-Jun-2026 16:40				
Parameter	*CAS Number*	*LOR*	----		Result	MU	----	----	----
EA010P: Conductivity by PC Titrator									
Electrical Conductivity @ 25°C	----	1	µS/cm		**681**		----	----	----
ED037P: Alkalinity by PC Titrator									
Hydroxide Alkalinity as CaCO3	----	1	mg/L		<1		----	----	----
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L		<1		----	----	----
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L		**96**		----	----	----
Total Alkalinity as CaCO3	----	1	mg/L		**96**	± 15	----	----	----
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA									
Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L		**66**	± 6	----	----	----
ED093F: Dissolved Major Cations									
Calcium	7440-70-2	1	mg/L		**35**	± 3	----	----	----
Magnesium	7439-95-4	1	mg/L		**17**	± 1	----	----	----
Potassium	7440-09-7	1	mg/L		**8**	± 0.5	----	----	----
EG052G: Silica by Discrete Analyser									
Reactive Silica as Silicon	----	0.05	mg/L		**20.4**		----	----	----
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser									
Nitrite + Nitrate as N	----	0.01	mg/L		**0.94**	± 0.05	----	----	----
EN055: Ionic Balance									
ø Total Anions	----	0.01	meq/L		**6.51**		----	----	----
ø Total Cations	----	0.01	meq/L		**6.61**		----	----	----
ø Ionic Balance	----	0.01	%		**0.80**		----	----	----

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