



CERTIFICATE OF ANALYSIS

Work Order : **CA2604656**

Client : **Southern Meats**

Contact : Mick Sperring

Address : Mazamet Road
Goulburn NSW 2580

Telephone : ----

Project : Water Sampling Quarterly

Order number : ----

C-O-C number : ----

Sampler : Mick Sperring

Site : ----

Quote number : Active Quote 2026 - 2027

No. of samples received : 10

No. of samples analysed : 10

Page : 1 of 6

Laboratory : ALS Water

Contact : ALS Water Canberra

Address : 2/33 Couranga Cr, Hume Canberra ACT Australia 2620

Telephone : +61 2 6202 5400

Date Samples Received : 05-Aug-2026 12:35

Date Analysis Commenced : 06-Aug-2026

Issue Date : 24-Aug-2026 16:29



Accreditation No. 992
Accredited for compliance with
ISO/IEC 17025 - Testing

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. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

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
Amanda Gonzalez	Laboratory Technician	Canberra Water Inorganics, Canberra, ACT
Christopher Johnston	Team Leader - Metals	Canberra Water Inorganics, Canberra, ACT
Clare Kennedy	Chemistry Teamleader	Canberra Water Inorganics, Canberra, ACT
Jing Zeng	Analyst	Canberra Water Inorganics, Canberra, ACT



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.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contract for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- Water samples collected by ALS according to one of the following procedures : Potable = EN67.5, Pools = EN67.3, Lakes/ Reservoirs = EN67.4, River/Stream = EN67.6, Beach = EN67.9, Wastewater = EN67.10, Groundwater = EN67.11
- Result for pH in water tested in the laboratory may be indicative only as holding time is generally not achievable.



Analytical Results

Sub-Matrix: WATER
 (Matrix: WATER)

Sample ID

				STHMEATS1 Ex Daff	STHMEATS2 Circular Anaerobic Lagoon	STHMEATS3 Aerated Lagoon	STHMEATS4 Settling Pond	STHMEATS5 Storage Dam 1
Sampling date / time				05-Aug-2026 06:00	05-Aug-2026 06:00	05-Aug-2026 06:00	05-Aug-2026 06:15	05-Aug-2026 06:15
Compound	CAS Number	LOR	Unit	CA2604656-001	CA2604656-002	CA2604656-003	CA2604656-004	CA2604656-005
				Result	Result	Result	Result	Result
EA005CA: pH								
pH	----	0.01	pH Unit	7.89	6.93	6.79	7.03	8.69
EA010CA: Conductivity								
Electrical Conductivity @ 25°C	----	2	µS/cm	2280	3590	2420	2440	2460
ED009CA: Anions								
Chloride	16887-00-6	0.1	mg/L	154	142	145	146	247
EA015HCA: Total Dissolved Solids								
Total Dissolved Solids	----	10	mg/L	1900	1110	1150	1250	1350
EA025CA: Suspended Solids								
Suspended Solids (SS)	----	2	mg/L	2000	1230	3000	178	98
WP030: Biochemical Oxygen Demand								
Biochemical Oxygen Demand	----	2	mg/L	2990	510	497	29	32
WP026: Chemical Oxygen Demand								
Chemical Oxygen Demand	----	5	mg/L	7730	2260	5890	579	277
EK057CA: Nitrite as N								
Nitrite as N	14797-65-0	0.01	mg/L N	21.6	0.03	128	120	50.4
EK058CA: Nitrate as N								
o Nitrate as N	14797-55-8	0.05	mg/L N	4.00	<0.05	42.0	7.00	41.5
EK059CA: Nitrite plus Nitrate as N								
Nitrite + Nitrate as N	----	0.05	mg/L N	25.6	<0.05	170	127	91.9
EK061: Total Kjeldahl Nitrogen as N								
Total Kjeldahl Nitrogen as N	----	0.05	mg/L N	318	363	160	95.0	49.1
EK062CA: Total Nitrogen as N								
Total Nitrogen as N	----	0.05	mg/L N	344	363	330	222	141
EK067CA: Total Phosphorus as P								
Total Phosphorus as P	----	0.01	mg/L P	40.4	32.8	40.7	27.6	8.24
EG005CA: Total Metals by ICP-OES								
Calcium	7440-70-2	0.10	mg/L	38.1	45.3	59.8	39.6	38.4



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	STHMEATS1 Ex Daff	STHMEATS2 Circular Anaerobic Lagoon	STHMEATS3 Aerated Lagoon	STHMEATS4 Settling Pond	STHMEATS5 Storage Dam 1
Sampling date / time					05-Aug-2026 06:00	05-Aug-2026 06:00	05-Aug-2026 06:00	05-Aug-2026 06:15	05-Aug-2026 06:15
Compound	CAS Number	LOR	Unit	CA2604656-001	CA2604656-002	CA2604656-003	CA2604656-004	CA2604656-005	
Result				Result	Result	Result	Result	Result	Result
EG005CA: Total Metals by ICP-OES - Continued									
Magnesium	7439-95-4	0.10	mg/L	27.4	31.3	34.1	32.3	42.5	
Sodium	7440-23-5	0.1	mg/L	302	302	296	301	322	
EA006: Sodium Adsorption Ratio									
ø Sodium Adsorption Ratio	----	0.01	-	16.8	9.12	8.38	8.39	8.42	



Analytical Results

Sub-Matrix: WATER
 (Matrix: WATER)

Sample ID

				STHMEATS6 Storage Dam 2	STHMEATS7 Run off Dam 1	STHMEATS8 Run off Dam 2	STHMEATS9 Runwaters Creek	STHMEATS10 Runwaters Creek Downstream
Sampling date / time				05-Aug-2026 06:20	05-Aug-2026 06:20	05-Aug-2026 06:20	05-Aug-2026 06:30	05-Aug-2026 06:30
Compound	CAS Number	LOR	Unit	CA2604656-006	CA2604656-007	CA2604656-008	CA2604656-009	CA2604656-010
				Result	Result	Result	Result	Result
EA005CA: pH								
pH	----	0.01	pH Unit	8.37	8.41	8.07	7.82	8.05
EA010CA: Conductivity								
Electrical Conductivity @ 25°C	----	2	µS/cm	2410	2240	5670	1120	1110
ED009CA: Anions								
Chloride	16887-00-6	0.1	mg/L	246	249	1600	151	149
EA015HCA: Total Dissolved Solids								
Total Dissolved Solids	----	10	mg/L	1450	1320	2850	640	605
EA025CA: Suspended Solids								
Suspended Solids (SS)	----	2	mg/L	142	25	19	11	9
EP020CA: Oil and Grease								
Oil and Grease	----	1	mg/L	----	----	----	<1	<1
WP030: Biochemical Oxygen Demand								
Biochemical Oxygen Demand	----	2	mg/L	17	3	2	<2	<2
WP026: Chemical Oxygen Demand								
Chemical Oxygen Demand	----	5	mg/L	228	150	216	17	18
EK057CA: Nitrite as N								
Nitrite as N	14797-65-0	0.01	mg/L N	4.01	0.09	0.10	<0.01	<0.01
EK058CA: Nitrate as N								
ø Nitrate as N	14797-55-8	0.05	mg/L N	80.1	0.48	0.68	<0.05	<0.05
EK059CA: Nitrite plus Nitrate as N								
Nitrite + Nitrate as N	----	0.05	mg/L N	84.1	0.57	0.78	<0.05	<0.05
EK061: Total Kjeldahl Nitrogen as N								
Total Kjeldahl Nitrogen as N	----	0.05	mg/L N	26.9	14.3	6.67	0.36	0.35
EK062CA: Total Nitrogen as N								
Total Nitrogen as N	----	0.05	mg/L N	111	14.9	7.45	0.36	0.35
EK067CA: Total Phosphorus as P								
Total Phosphorus as P	----	0.01	mg/L P	10.9	13.2	1.38	0.02	0.02



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	STHMEATS6 Storage Dam 2	STHMEATS7 Run off Dam 1	STHMEATS8 Run off Dam 2	STHMEATS9 Runowaters Creek	STHMEATS10 Runowaters Creek Downstream
Sampling date / time					05-Aug-2026 06:20	05-Aug-2026 06:20	05-Aug-2026 06:20	05-Aug-2026 06:30	05-Aug-2026 06:30
Compound	CAS Number	LOR	Unit		CA2604656-006	CA2604656-007	CA2604656-008	CA2604656-009	CA2604656-010
				Result	Result	Result	Result	Result	Result
EG005CA: Total Metals by ICP-OES									
Calcium	7440-70-2	0.10	mg/L		33.6	18.2	49.1	69.6	69.9
Magnesium	7439-95-4	0.10	mg/L		44.3	26.4	40.3	43.8	44.1
Sodium	7440-23-5	0.1	mg/L		329	359	903	80.9	78.8
EA006: Sodium Adsorption Ratio									
ø Sodium Adsorption Ratio	----	0.01	-		8.69	12.4	22.5	1.83	1.78