



CERTIFICATE OF ANALYSIS

Work Order : **CA2504535**

Client : **Southern Meats**

Contact : Andy Grealy

Address : Mazamet Road
Goulburn NSW 2580

Telephone : 02 4824 0000

Project : Water Sampling Quarterly

Order number : ----

C-O-C number : ----

Sampler : Mick Sperring

Site : ----

Quote number : ----

No. of samples received : 9

No. of samples analysed : 9

Page : 1 of 6

Laboratory : ALS Water

Contact : Client Services

Address : 2/33 Couranga Cr Hume ACT Australia 2620

Telephone : +61 2 6202 5404

Date Samples Received : 31-Jul-2025 12:40

Date Analysis Commenced : 31-Jul-2025

Issue Date : 11-Aug-2025 16:13



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, Hume, ACT
Clare Kennedy	Analyst	Canberra Water Inorganics, Hume, ACT
Geetha Ramasundara	Chemistry Teamleader	Canberra Water Inorganics, Hume, ACT
Titus Vimalasiri	Metals Teamleader	Canberra Water Inorganics, Hume, 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 Daf	STHMEATS2 Circular Anaerobic Lagoon	STHMEATS3 Aerated Lagoon	STHMEATS4 Settling Pond 2	STHMEATS5 Storage Dam 1
Sampling date / time				31-Jul-2025 06:00	31-Jul-2025 06:00	31-Jul-2025 06:00	31-Jul-2025 06:00	31-Jul-2025 06:00
Compound	CAS Number	LOR	Unit	CA2504535-001	CA2504535-002	CA2504535-003	CA2504535-004	CA2504535-005
				Result	Result	Result	Result	Result
EA005CA: pH								
pH	----	0.01	pH Unit	6.94	7.28	7.44	7.89	8.15
EA010CA: Conductivity								
Electrical Conductivity @ 25°C	----	2	µS/cm	3310	3960	3100	2990	3070
ED009CA: Anions								
Chloride	16887-00-6	0.1	mg/L	130	145	125	128	175
EA015CA: Total Dissolved Solids								
Total Dissolved Solids	----	10	mg/L	2400	1410	1620	1560	1590
EA025CA: Suspended Solids								
Suspended Solids (SS)	----	2	mg/L	633	1940	592	5180	83
EP030CA: Biochemical Oxygen Demand								
Biochemical Oxygen Demand	----	2	mg/L	1240	488	62	258	18
EP026CA: Chemical Oxygen Demand								
Chemical Oxygen Demand	----	5	mg/L	3600	2440	966	4710	305
EK057CA: Nitrite as N								
Nitrite as N	14797-65-0	0.01	mg/L N	42.5	0.04	137	108	64.7
EK058CA: Nitrate as N								
o Nitrate as N	14797-55-8	0.01	mg/L N	22.6	0.95	85.0	64.0	41.3
EK059CA: Nitrite plus Nitrate as N								
Nitrite + Nitrate as N	----	0.05	mg/L N	65.1	0.99	222	172	106
EK061CA: Total Kjeldahl Nitrogen as N								
Total Kjeldahl Nitrogen as N	----	0.05	mg/L N	198	368	104	209	92.0
EK062CA: Total Nitrogen as N								
Total Nitrogen as N	----	0.05	mg/L N	263	369	326	381	198
EK067CA: Total Phosphorus as P								
Total Phosphorus as P	----	0.01	mg/L P	77.7	46.4	48.6	64.0	15.9
EG005CA: Total Metals by ICP-OES								
Calcium	7440-70-2	0.10	mg/L	47.8	53.7	42.8	82.3	36.4



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	STHMEATS1 Ex Daf	STHMEATS2 Circular Anaerobic Lagoon	STHMEATS3 Aerated Lagoon	STHMEATS4 Settling Pond 2	STHMEATS5 Storage Dam 1
Sampling date / time					31-Jul-2025 06:00	31-Jul-2025 06:00	31-Jul-2025 06:00	31-Jul-2025 06:00	31-Jul-2025 06:00
Compound	CAS Number	LOR	Unit	CA2504535-001	CA2504535-002	CA2504535-003	CA2504535-004	CA2504535-005	
Result				Result	Result	Result	Result	Result	Result
EG005CA: Total Metals by ICP-OES - Continued									
Magnesium	7439-95-4	0.10	mg/L	79.0	67.6	72.5	85.7	85.6	
Sodium	7440-23-5	0.1	mg/L	398	330	351	355	339	
EA006CA: Sodium Adsorption Ratio									
ø Sodium Adsorption Ratio	----	0.01	-	8.17	7.36	7.44	7.54	6.87	

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	STHMEATS6 Storage Dam 2	STHMEATS7 Run Off Dam 1	STHMEATS8 Run Off Dam 2	STHMEATS9 Runowaters Creek	----
Sampling date / time				31-Jul-2025 06:30	31-Jul-2025 06:30	31-Jul-2025 06:30	31-Jul-2025 06:45	----	
Compound	CAS Number	LOR	Unit	CA2504535-006	CA2504535-007	CA2504535-008	CA2504535-009	-----	
				Result	Result	Result	Result	----	
EA005CA: pH									
pH	----	0.01	pH Unit	8.15	8.06	7.81	7.86	----	
EA010CA: Conductivity									
Electrical Conductivity @ 25°C	----	2	µS/cm	2800	2300	1990	1110	----	
ED009CA: Anions									
Chloride	16887-00-6	0.1	mg/L	165	180	167	156	----	
EA015CA: Total Dissolved Solids									
Total Dissolved Solids	----	10	mg/L	1330	1340	1290	656	----	
EA025CA: Suspended Solids									
Suspended Solids (SS)	----	2	mg/L	155	57	248	6	----	
EP020CA: Oil and Grease									
Oil and Grease	----	1	mg/L	----	----	----	<1	----	
EP030CA: Biochemical Oxygen Demand									
Biochemical Oxygen Demand	----	2	mg/L	44	16	22	<2	----	
EP026CA: Chemical Oxygen Demand									
Chemical Oxygen Demand	----	5	mg/L	437	300	313	10	----	
EK057CA: Nitrite as N									
Nitrite as N	14797-65-0	0.01	mg/L N	0.35	0.03	1.50	<0.01	----	
EK058CA: Nitrate as N									
ø Nitrate as N	14797-55-8	0.01	mg/L N	2.48	3.04	16.1	0.13	----	
EK059CA: Nitrite plus Nitrate as N									
Nitrite + Nitrate as N	----	0.05	mg/L N	2.83	3.07	17.6	0.13	----	
EK061CA: Total Kjeldahl Nitrogen as N									
Total Kjeldahl Nitrogen as N	----	0.05	mg/L N	138	57.6	28.1	0.53	----	
EK062CA: Total Nitrogen as N									
Total Nitrogen as N	----	0.05	mg/L N	141	60.7	45.7	0.66	----	
EK067CA: Total Phosphorus as P									
Total Phosphorus as P	----	0.01	mg/L P	22.2	20.7	21.2	0.04	----	
EG005CA: Total Metals by ICP-OES									



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	----
Sampling date / time					31-Jul-2025 06:30	31-Jul-2025 06:30	31-Jul-2025 06:30	31-Jul-2025 06:45	----
Compound	CAS Number	LOR	Unit	CA2504535-006	CA2504535-007	CA2504535-008	CA2504535-009	-----	
				Result	Result	Result	Result	----	
EG005CA: Total Metals by ICP-OES - Continued									
Calcium	7440-70-2	0.10	mg/L	28.1	24.6	26.0	72.4	----	
Magnesium	7439-95-4	0.10	mg/L	46.9	25.4	24.8	44.8	----	
Sodium	7440-23-5	0.1	mg/L	332	356	324	82.2	----	
EA006CA: Sodium Adsorption Ratio									
Ø Sodium Adsorption Ratio	----	0.01	-	8.94	11.8	10.9	1.87	----	