



## CERTIFICATE OF ANALYSIS

Work Order : **CA2402992**

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 : 8

No. of samples analysed : 8

Page : 1 of 5

Laboratory : ALS Water Resources Group

Contact : Client Services

Address : 2/33 Couranga Cr Hume ACT Australia 2620

Telephone : +61 2 6202 5404

Date Samples Received : 08-May-2024 11:00

Date Analysis Commenced : 09-May-2024

Issue Date : 15-May-2024 15:56



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	Inorganics, Hume, ACT
Clare Kennedy	Analyst	Inorganics, Hume, ACT
Geetha Ramasundara	Chemistry Teamleader	Inorganics, Hume, ACT
Jing Zeng	Analyst	Inorganics, Hume, ACT
Titus Vimalasiri	Metals Teamleader	Inorganics, Hume, ACT



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## 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.

- For samples collected by ALS WRG, sampling was carried out in accordance with Procedure EN67
  - Result for pH in water tested in the laboratory may be indicative only as holding time is generally not achievable.
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## 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				08-May-2024 06:00	08-May-2024 06:00	08-May-2024 06:00	08-May-2024 06:00	08-May-2024 06:00
Compound	CAS Number	LOR	Unit	CA2402992-001	CA2402992-002	CA2402992-003	CA2402992-004	CA2402992-005
				Result	Result	Result	Result	Result
<b>EA006: Sodium Adsorption Ratio (SAR)</b>								
∅ Sodium Adsorption Ratio	----	0.01	-	21.3	10.1	9.34	9.65	10.8
<b>ED009: Anions</b>								
Chloride	16887-00-6	0.1	mg/L	139	140	134	137	196
<b>EP026: Chemical Oxygen Demand (COD)</b>								
Chemical Oxygen Demand	----	5	mg/L	8740	3290	2600	2550	468
<b>EA005CA: pH</b>								
pH	----	0.01	pH Unit	6.93	7.31	7.94	7.96	7.90
<b>EA010CA: Conductivity</b>								
Electrical Conductivity @ 25°C	----	2	µS/cm	2330	3740	3490	3480	3150
<b>EA015CA: Total Dissolved Solids</b>								
Total Dissolved Solids	----	10	mg/L	2010	1290	1190	1260	1320
<b>EA025CA: Suspended Solids</b>								
Suspended Solids (SS)	----	2	mg/L	2340	1800	2040	590	138
<b>EP030CA: Biochemical Oxygen Demand</b>								
Biochemical Oxygen Demand	----	2	mg/L	1860	803	240	104	26
<b>EK059CA: Nitrite plus Nitrate as N</b>								
Nitrite + Nitrate as N	----	0.05	mg/L N	<0.50	<0.50	<0.50	<0.50	1.76
<b>EK061CA: Total Kjeldahl Nitrogen as N</b>								
Total Kjeldahl Nitrogen as N	----	0.05	mg/L N	424	416	428	426	223
<b>EK062CA: Total Nitrogen as N</b>								
Total Nitrogen as N	----	0.05	mg/L N	424	416	428	426	225
<b>EK067CA: Total Phosphorus as P</b>								
Total Phosphorus as P	----	0.01	mg/L P	66.6	53.2	54.9	53.6	29.1
<b>EG005CA: Total Metals by ICP-OES</b>								
Calcium	7440-70-2	0.10	mg/L	28.8	59.2	60.9	58.1	32.5
Magnesium	7439-95-4	0.10	mg/L	15.7	26.8	27.0	26.5	29.8
Sodium	7440-23-5	0.1	mg/L	292	302	291	288	345



## Analytical Results

Sub-Matrix: WATER (Matrix: WATER)		Sample ID		STHMEATS6 Storage Dam 2	STHMEATS7 Run Off Dam 1	STHMEATS8 Run Off Dam 2	----	----
Sampling date / time		08-May-2024 06:30		08-May-2024 06:30	08-May-2024 06:30	08-May-2024 06:30	----	----
Compound	CAS Number	LOR	Unit	CA2402992-006	CA2402992-007	CA2402992-008	-----	-----
				Result	Result	Result	----	----
<b>EA006: Sodium Adsorption Ratio (SAR)</b>								
ø Sodium Adsorption Ratio	----	0.01	-	11.4	8.07	6.45	----	----
<b>ED009: Anions</b>								
Chloride	16887-00-6	0.1	mg/L	192	109	84.5	----	----
<b>EP026: Chemical Oxygen Demand (COD)</b>								
Chemical Oxygen Demand	----	5	mg/L	504	290	183	----	----
<b>EA005CA: pH</b>								
pH	----	0.01	pH Unit	8.02	7.70	8.19	----	----
<b>EA010CA: Conductivity</b>								
Electrical Conductivity @ 25°C	----	2	µS/cm	3300	1430	1090	----	----
<b>EA015CA: Total Dissolved Solids</b>								
Total Dissolved Solids	----	10	mg/L	1450	796	690	----	----
<b>EA025CA: Suspended Solids</b>								
Suspended Solids (SS)	----	2	mg/L	209	22	10	----	----
<b>EP030CA: Biochemical Oxygen Demand</b>								
Biochemical Oxygen Demand	----	2	mg/L	42	42	5	----	----
<b>EK059CA: Nitrite plus Nitrate as N</b>								
Nitrite + Nitrate as N	----	0.05	mg/L N	<0.50	0.92	2.56	----	----
<b>EK061CA: Total Kjeldahl Nitrogen as N</b>								
Total Kjeldahl Nitrogen as N	----	0.05	mg/L N	230	46.1	15.4	----	----
<b>EK062CA: Total Nitrogen as N</b>								
Total Nitrogen as N	----	0.05	mg/L N	230	47.0	18.0	----	----
<b>EK067CA: Total Phosphorus as P</b>								
Total Phosphorus as P	----	0.01	mg/L P	34.6	16.6	14.3	----	----
<b>EG005CA: Total Metals by ICP-OES</b>								
Calcium	7440-70-2	0.10	mg/L	35.0	20.5	22.0	----	----
Magnesium	7439-95-4	0.10	mg/L	28.7	16.3	14.8	----	----
Sodium	7440-23-5	0.1	mg/L	368	209	162	----	----

