

#### **CERTIFICATE OF ANALYSIS** Work Order Page : CA2500720 : 1 of 6 Client : Southern Meats Laboratory : ALS Water Contact : Mick Sperring Contact : Client Services Address Address : 2/33 Couranga Cr Hume ACT Australia 2620 : Mazamet Road Goulburn NSW 2580 Telephone : -----Telephone : +61 2 6202 5404 Project : Monthly Wastewater **Date Samples Received** : 05-Feb-2025 11:30 Order number Date Analysis Commenced : -----: 06-Feb-2025 C-O-C number Issue Date : -----: 13-Feb-2025 17:07 Sampler : Mick Sperring Site : -----Quote number · \_\_\_\_ Jululo Accreditation No. 992 No. of samples received : 9 Accredited for compliance with

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.

ISO/IEC 17025 - Testing

This Certificate of Analysis contains the following information:

: 9

- 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

No. of samples analysed

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
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.

- 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.



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			05-Feb-2025 06:00	05-Feb-2025 06:00	05-Feb-2025 06:00	05-Feb-2025 06:00	05-Feb-2025 06:00
Compound	CAS Number	LOR	Unit	CA2500720-001	CA2500720-002	CA2500720-003	CA2500720-004	CA2500720-005
				Result	Result	Result	Result	Result
EA005CA: pH								
рН		0.01	pH Unit	7.20	7.61	8.01	8.04	7.95
EA010CA: Conductivity								
Electrical Conductivity @ 25°C		2	µS/cm	2290	4050	2870	2930	3090
ED009CA: Anions								
Chloride	16887-00-6	0.1	mg/L	111	134	163	177	212
FA015CA: Total Dissolved Solids								
Total Dissolved Solids		10	mg/L	2070	1060	1260	1470	1830
			J. J					
EA025CA: Suspended Solids		2	ma/l	2720	1080	052	407	257
Suspended Solids (SS)		2	ilig/E	5720	1000	300	431	231
EP030CA: Biochemical Oxygen Demand								
Biochemical Oxygen Demand		2	mg/L	3960	368	102	84	44
EP026CA: Chemical Oxygen Demand								
Chemical Oxygen Demand		5	mg/L	9440	1970	1420	952	582
EK057CA: Nitrite as N								
Nitrite as N	14797-65-0	0.01	mg/L N	0.11	0.04	0.03	0.02	7.87
Ø Nitrate as N	14797-55-8	0.01	ma/L N	0.06	0.06	0.07	<0.05	1.82
	14707 00 0		<u>g</u>					
EK059CA: Nitrite plus Nitrate as N		0.05		0.47	0.40	0.10	A 45	0.00
Nitrite + Nitrate as N		0.05	mg/L N	0.17	0.10	0.10	0.05	9.69
EK061CA: Total Kjeldahl Nitrogen as N			_					
Total Kjeldahl Nitrogen as N		0.05	mg/L N	401	454	254	213	170
EK062CA: Total Nitrogen as N								
Total Nitrogen as N		0.05	mg/L N	401	454	254	213	180
EK067CA: Total Phosphorus as P								
Total Phosphorus as P		0.01	mg/L P	80.6	54.6	54.8	52.7	30.5
			-					
Calcium	7440 70 2	0.10	ma/l	52 3	52 3	47.9	43.7	36.6
	1440-10-2	0.10	ilig/L	92.9	52.5	-1.5	40.1	50.0

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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
		Sampli	ing date / time	05-Feb-2025 06:00	05-Feb-2025 06:00	05-Feb-2025 06:00	05-Feb-2025 06:00	05-Feb-2025 06:00
Compound	CAS Number	LOR	Unit	CA2500720-001	CA2500720-002	CA2500720-003	CA2500720-004	CA2500720-005
				Result	Result	Result	Result	Result
EG005CA: Total Metals by ICP-OES - Con	tinued							
Magnesium	7439-95-4	0.10	mg/L	21.7	26.4	27.9	28.5	30.8
Sodium	7440-23-5	0.1	mg/L	235	270	290	304	359
EA006CA: Sodium Adsorption Ratio								
ø Sodium Adsorption Ratio		0.01	-	11.4	8.60	8.66	8.96	10.6



Sub-Matrix: WATER (Matrix: WATER)	Sample ID			STHMEATS6	STHMEATS7	STHMEATS8	STHMEATS9	
		Sampli	na date / time	05-Feb-2025 06:30	05-Feb-2025 06:30	05-Feb-2025 06:30	05-Feb-2025 06:45	
Compound	CAS Number LOR Unit		CA2500720-006	CA2500720-007	CA2500720-008	CA2500720-009		
				Result	Result	Result	Result	
EA005CA: pH								
рН		0.01	pH Unit	8.06	8.87	8.37	7.52	
EA010CA: Conductivity								
Electrical Conductivity @ 25°C		2	µS/cm	3270	1700	2520	832	
ED009CA: Anions								
Chloride	16887-00-6	0.1	mg/L	224	175	241	104	
EA015CA: Total Dissolved Solids								
Total Dissolved Solids		10	mg/L	1950	1320	1810	609	
EA025CA: Suspended Solids								
Suspended Solids (SS)		2	mg/L	207	74	66	15	
EP020CA: Oil and Grease								
Oil and Grease		1	mg/L				<1	
EP030CA: Biochemical Oxygen Demand								
Biochemical Oxygen Demand		2	mg/L	50	5	16	<2	
EP026CA: Chemical Oxygen Demand								
Chemical Oxygen Demand		5	mg/L	534	254	462	56	
EK057CA: Nitrite as N								
Nitrite as N	14797-65-0	0.01	mg/L N	5.58	0.10	1.70	<0.01	
EK058CA: Nitrate as N								
ø Nitrate as N	14797-55-8	0.01	mg/L N	1.24	3.26	0.63	<0.05	
EK059CA: Nitrite plus Nitrate as N								
Nitrite + Nitrate as N		0.05	mg/L N	6.82	3.36	2.33	<0.05	
EK061CA: Total Kjeldahl Nitrogen as N								
Total Kjeldahl Nitrogen as N		0.05	mg/L N	173	11.8	51.4	1.34	
EK062CA: Total Nitrogen as N								
Total Nitrogen as N		0.05	mg/L N	180	15.2	53.7	1.34	
EK067CA: Total Phosphorus as P								
Total Phosphorus as P		0.01	mg/L P	30.4	16.6	24.1	0.12	
EG005CA: Total Metals by ICP-OES								

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Sub-Matrix: WATER			Sample ID	STHMEATS6	STHMEATS7	STHMEATS8	STHMEATS9	
				Storage Dam 2	Run Off Dam 1	Run Off Dam 2	Runowaters Creek	
		Sampling date / time		05-Feb-2025 06:30	05-Feb-2025 06:30	05-Feb-2025 06:30	05-Feb-2025 06:45	
Compound	CAS Number	LOR	Unit	CA2500720-006	CA2500720-007	CA2500720-008	CA2500720-009	
				Result	Result	Result	Result	
EG005CA: Total Metals by ICP-OES - C								
Calcium	7440-70-2	0.10	mg/L	35.8	26.3	29.5	49.3	
Magnesium	7439-95-4	0.10	mg/L	30.4	21.0	27.6	29.6	
Sodium	7440-23-5	0.1	mg/L	387	262	385	67.2	
EA006CA: Sodium Adsorption Ratio								
ø Sodium Adsorption Ratio		0.01	-	11.5	9.25	12.0	1.88	