

CERTIFICATE OF ANALYSIS

Work Order : **ES2108614**
Client : **INTEGRA WATER TREATMENT SOLUTIONS**
Contact : **SAMPLE RESULTS**
Address : **UNIT B 195 Port Hacking Rd.
MIRANDA NSW, AUSTRALIA 2228**
Telephone : **+61 9574 0000**
Project : **Alexander Downs Wholesale Meats**
Order number : **----**
C-O-C number : **----**
Sampler : **JEFF MOULDS (INTEGRA)**
Site : **AD/Kurri Meats**
Quote number : **EN/222 NSW Batches only**
No. of samples received : **4**
No. of samples analysed : **4**

Page : 1 of 4
Laboratory : Environmental Division Sydney
Contact : Wael Saleh
Address : 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone : +61 2 8784 8555
Date Samples Received : 11-Mar-2021 12:13
Date Analysis Commenced : 11-Mar-2021
Issue Date : 18-Mar-2021 19:07



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.

<i>Signatories</i>	<i>Position</i>	<i>Accreditation Category</i>
Dian Dao	Senior Chemist - Inorganics	Sydney Inorganics, Smithfield, NSW
Gregory Towers	Technical Officer	Chemistry, Newcastle West, NSW
Ivan Taylor	Analyst	Sydney Inorganics, Smithfield, NSW



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 Contact 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.

- 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.



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	WASTE WATER TREAT PLANT IN	WASTE WATER TREAT PLANT OUT	Pond Number 2	Pond Number 3	----
Sampling date / time				11-Mar-2021 11:00	11-Mar-2021 11:00	11-Mar-2021 11:00	11-Mar-2021 11:00	----	
Compound	CAS Number	LOR	Unit	ES2108614-001	ES2108614-002	ES2108614-003	ES2108614-004	-----	
				Result	Result	Result	Result	----	
EA005: pH									
pH Value	----	0.01	pH Unit	7.33	7.16	7.43	7.86	----	
EA006: Sodium Adsorption Ratio (SAR)									
^ Sodium Adsorption Ratio	----	0.01	-	----	----	----	5.41	----	
EA010P: Conductivity by PC Titrator									
Electrical Conductivity @ 25°C	----	1	µS/cm	1420	1760	1670	1530	----	
EA015: Total Dissolved Solids dried at 180 ± 5 °C									
Total Dissolved Solids @180°C	----	10	mg/L	----	----	----	790	----	
EA025: Total Suspended Solids dried at 104 ± 2°C									
Suspended Solids (SS)	----	5	mg/L	942	2430	192	88	----	
ED093F: Dissolved Major Cations									
Calcium	7440-70-2	1	mg/L	----	----	----	21	----	
Magnesium	7439-95-4	1	mg/L	----	----	----	8	----	
Sodium	7440-23-5	1	mg/L	----	----	----	115	----	
EK055G: Ammonia as N by Discrete Analyser									
Ammonia as N	7664-41-7	0.01	mg/L	----	----	----	71.6	----	
EK057G: Nitrite as N by Discrete Analyser									
Nitrite as N	14797-65-0	0.01	mg/L	----	----	----	0.06	----	
EK058G: Nitrate as N by Discrete Analyser									
Nitrate as N	14797-55-8	0.01	mg/L	----	----	----	0.07	----	
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser									
Nitrite + Nitrate as N	----	0.01	mg/L	----	----	----	0.13	----	
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser									
Total Kjeldahl Nitrogen as N	----	0.1	mg/L	----	----	----	73.3	----	
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser									
^ Total Nitrogen as N	----	0.1	mg/L	----	----	----	73.4	----	
EK067G: Total Phosphorus as P by Discrete Analyser									
Total Phosphorus as P	----	0.01	mg/L	----	----	----	9.76	----	
EP020: Oil and Grease (O&G)									
Oil & Grease	----	5	mg/L	----	----	----	9	----	
EP030: Biochemical Oxygen Demand (BOD)									
Biochemical Oxygen Demand	----	2	mg/L	----	----	----	30	----	
EP030C: Carbonaceous Biochemical Oxygen Demand (CBOD)									
CBOD	----	2	mg/L	----	----	----	29	----	



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Compound	CAS Number	LOR	Unit	ES2108614-001	ES2108614-002	ES2108614-003	ES2108614-004	-----	
				Result	Result	Result	Result	----	
EP030C: Carbonaceous Biochemical Oxygen Demand (CBOD) - Continued									

Inter-Laboratory Testing

Analysis conducted by ALS Newcastle - Water, NATA accreditation no. 825, site no. 1656 (Chemistry) 9854 (Biology).

(WATER) EA005: pH