



CERTIFICATE OF ANALYSIS

Work Order : **ES2429562**
Client : **INTEGRA WATER TREATMENT SOLUTIONS**
Contact : MR JAMES McMAHON
Address : UNIT B 195 PORT HACKING ROAD
MIRANDA NSW, AUSTRALIA 2228
Telephone : +61 02 9574 0000
Project : Alexander Downs Wholesale Meats
Order number : ----
C-O-C number : ----
Sampler : MICHAEL AXE
Site : AD/ Kurri Meats
Quote number : EN/222
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 : 10-Sep-2024 13:40
Date Analysis Commenced : 10-Sep-2024
Issue Date : 17-Sep-2024 11:31



Accreditation No. 825
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

Ankit Joshi

Senior Chemist - Inorganics

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 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.

- EP030: The DO depletion for BOD and CBOD on sample #4 is less than 2 mg/L, this indicates that the sample has been over diluted and the BOD result is less than 17 mg/L and 16 mg/L respectively. The results reported are estimated from the lowest dilution.
- 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

				wastewater treatment plant in	wastewater treatment plant out	Pond Number 2	Pond Number 3	----
Sampling date / time				10-Sep-2024 10:50	10-Sep-2024 10:35	10-Sep-2024 10:40	10-Sep-2024 10:45	----
Compound	CAS Number	LOR	Unit	ES2429562-001	ES2429562-002	ES2429562-003	ES2429562-004	-----
				Result	Result	Result	Result	----
EA005P: pH by PC Titrator								
pH Value	----	0.01	pH Unit	7.23	7.98	8.05	8.24	----
EA006: Sodium Adsorption Ratio (SAR)								
^ Sodium Adsorption Ratio	----	0.01	-	----	----	----	9.22	----
EA010P: Conductivity by PC Titrator								
Electrical Conductivity @ 25°C	----	1	µS/cm	1550	1870	1720	1820	----
EA015: Total Dissolved Solids dried at 180 ± 5 °C								
Total Dissolved Solids @180°C	----	10	mg/L	1750	816	900	844	----
EA025: Total Suspended Solids dried at 104 ± 2°C								
Suspended Solids (SS)	----	5	mg/L	1380	484	316	60	----
ED093F: Dissolved Major Cations								
Calcium	7440-70-2	1	mg/L	----	----	----	20	----
Magnesium	7439-95-4	1	mg/L	----	----	----	8	----
Sodium	7440-23-5	1	mg/L	----	----	----	193	----
Potassium	7440-09-7	1	mg/L	----	----	----	98	----
ED093F: SAR and Hardness Calculations								
^ Sodium Adsorption Ratio	----	0.01	-	11.9	10.3	9.56	----	----
EK055G: Ammonia as N by Discrete Analyser								
Ammonia as N	7664-41-7	0.01	mg/L	----	----	----	74.4	----
EK057G: Nitrite as N by Discrete Analyser								
Nitrite as N	14797-65-0	0.01	mg/L	----	----	----	1.39	----
EK058G: Nitrate as N by Discrete Analyser								
Nitrate as N	14797-55-8	0.01	mg/L	----	----	----	0.47	----
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser								
Nitrite + Nitrate as N	----	0.01	mg/L	----	----	----	1.86	----
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser								
Total Kjeldahl Nitrogen as N	----	0.1	mg/L	----	----	----	78.8	----
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser								
^ Total Nitrogen as N	----	0.1	mg/L	----	----	----	80.7	----



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	wastewater treatment plant in	wastewater treatment plant out	Pond Number 2	Pond Number 3	----
Sampling date / time					10-Sep-2024 10:50	10-Sep-2024 10:35	10-Sep-2024 10:40	10-Sep-2024 10:45	----
Compound	CAS Number	LOR	Unit		ES2429562-001	ES2429562-002	ES2429562-003	ES2429562-004	-----
					Result	Result	Result	Result	----
EK067G: Total Phosphorus as P by Discrete Analyser									
Total Phosphorus as P	----	0.01	mg/L		----	----	----	3.97	----
EP020: Oil and Grease (O&G)									
Oil & Grease	----	5	mg/L		----	----	----	5	----
EP030: Biochemical Oxygen Demand (BOD)									
Biochemical Oxygen Demand	----	2	mg/L		----	----	----	17	----
EP030: Carbonaceous Biochemical Oxygen Demand (CBOD)									
CBOD	----	2	mg/L		----	----	----	16	----