

CERTIFICATE OF ANALYSIS

Work Order : ES2139494

: Paraway Pastoral Company Limited

Contact : Emma Hart

Address : 70 McNamara Street

Orange 2800

Telephone

Client

: OBS EPL 13143 Project

Order number C-O-C number

Sampler · Emma Hart

Site

Quote number : EN/333

No. of samples received : 9 No. of samples analysed : 6

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Laboratory : Environmental Division Sydney

Contact : Customer Services ES

Address : 277-289 Woodpark Road Smithfield NSW Australia 2164

Telephone : +61-2-8784 8555

Date Samples Received : 02-Nov-2021 12:00

Date Analysis Commenced : 02-Nov-2021

Issue Date · 09-Nov-2021 15:38



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 Inorganic Chemist Sydney Inorganics, Smithfield, NSW Ivan Taylor Analyst Sydney Inorganics, Smithfield, NSW Wisam Marassa **Inorganics Coordinator** Sydney Inorganics, Smithfield, NSW Page : 2 of 4
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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 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

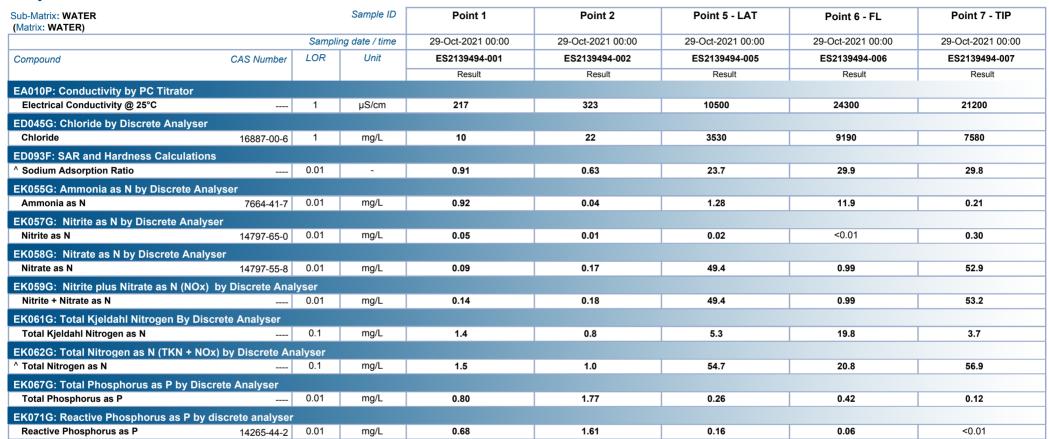
- ^ = This result is computed from individual analyte detections at or above the level of reporting
- ø = ALS is not NATA accredited for these tests.
- ~ = Indicates an estimated value.
- It has been noted that Reactive P is greater than Total P, however this difference is within the limits of experimental variation.
- 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.

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Analytical Results





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Project

Analytical Results



Sub-Matrix: WATER (Matrix: WATER)			Sample ID	Point 8 - NW of feedlot	 	
Sampling date / time				29-Oct-2021 00:00	 	
Compound	CAS Number	LOR	Unit	ES2139494-008	 	
Property				Result	 	
EA010P: Conductivity by PC Titrator						
Electrical Conductivity @ 25°C		1	μS/cm	26500	 	
ED045G: Chloride by Discrete Analys	ser					
Chloride	16887-00-6	1	mg/L	9910	 	
ED093F: SAR and Hardness Calculat	ions					
^ Sodium Adsorption Ratio		0.01	-	35.1	 	
EK055G: Ammonia as N by Discrete	Analyser					
Ammonia as N	7664-41-7	0.01	mg/L	0.92	 	
EK057G: Nitrite as N by Discrete Ana	alyser					
Nitrite as N	14797-65-0	0.01	mg/L	<0.01	 	
EK058G: Nitrate as N by Discrete An	alvser					
Nitrate as N	14797-55-8	0.01	mg/L	30.4	 	
EK059G: Nitrite plus Nitrate as N (NC	Dx) by Discrete Ana	lvser				
Nitrite + Nitrate as N		0.01	mg/L	30.4	 	
EK061G: Total Kjeldahl Nitrogen By [Discrete Analyser					
Total Kjeldahl Nitrogen as N		0.1	mg/L	1.8	 	
EK062G: Total Nitrogen as N (TKN +	NOx) by Discrete Ar	alvser				
^ Total Nitrogen as N		0.1	mg/L	32.2	 	
EK067G: Total Phosphorus as P by D	iscrete Analyser					
Total Phosphorus as P		0.01	mg/L	0.03	 	
EK071G: Reactive Phosphorus as P l	ov discrete analyser					
Reactive Phosphorus as P	14265-44-2		mg/L	0.04	 	