

CERTIFICATE OF ANALYSIS Page Work Order : EP2316733 : 1 of 4 Amendment :1 Client Laboratory : RIVER ENGINEERING Environmental Division Perth Contact Contact : Nick Courts Address Address : 26 Rigali Way Wangara WA Australia 6065 Telephone Telephone : -----Project : The Landing / Walkabout Date Samples Received : 27-Nov-2023 12:45 Order number : LWI Date Analysis Commenced : 27-Nov-2023 C-O-C number Issue Date : -----: 05-Dec-2023 18:50 Sampler

 Site
 Image: Site

 Quote number
 Image: Site

 Quote number
 Image: Site

 No. of samples received
 2

 No. of samples analysed
 2

 Image: Site
 3

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		
Canhuang Ke	Inorganics Supervisor	Perth Inorganics, Wangara, WA		
Chris Lemaitre	Laboratory Manager (Perth)	Perth Inorganics, Wangara, WA		
Vinitha Kesavan	Analyst	Perth Microbiology, Wangara, WA		
Wisam Marassa	Inorganics Coordinator	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.
- MF = membrane filtration
- CFU = colony forming unit
- MW006 is ALS's internal code and is equivalent to AS4276.5.
- MW006:Analysis Commenced:Date:27/11/2023.Time:2:00PM.
- Microbiological Comment: In accordance with ALS work instruction QWI-MIC/04, membrane filtration result is reported an approximate (~) when the count of colonies on the filtered membrane is outside the range
 of 10 100cfu.
- Amendment (05/12/2023): This report has been amended to alter the site sampling time for sample EP2316733_002. All analysis results are as per the previous report.



Analytical Results

			Comple ID				
Sub-Matrix: EFFLUENT (Matrix: WATER)			Sample ID	LWE 1	LWE 2	 	
	Sampling date / time			26-Nov-2023 13:00	26-Nov-2023 18:00	 	
Compound	CAS Number	LOR	Unit	EP2316733-001	EP2316733-002	 	
				Result	Result	 	
EA005P: pH by PC Titrator							
pH Value		0.01	pH Unit	6.86	7.61	 	
EA015: Total Dissolved Solids dried	at 180 ± 5 °C						
Total Dissolved Solids @180°C		10	mg/L	810	822	 	
EA025: Total Suspended Solids dried	d at 104 ± 2°C						
Suspended Solids (SS)		5	mg/L	160	89	 	
ED037P: Alkalinity by PC Titrator							
Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1	<1	 	
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	<1	<1	 	
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	322	402	 	
Total Alkalinity as CaCO3		1	mg/L	322	402	 	
EK055G: Ammonia as N by Discrete	Analyser						
Ammonia as N	7664-41-7	0.01	mg/L	36.6	29.4	 	
EK057G: Nitrite as N by Discrete Ana	alyser						
Nitrite as N	14797-65-0	0.01	mg/L	<0.01	<0.01	 	
EK058G: Nitrate as N by Discrete An	alyser						
Nitrate as N	14797-55-8	0.01	mg/L	<0.01	<0.01	 	
EK059G: Nitrite plus Nitrate as N (NO	Dx) by Discrete Analy	/ser					
Nitrite + Nitrate as N		0.01	mg/L	<0.01	<0.01	 	
EK061G: Total Kjeldahl Nitrogen By I	Discrete Analyser						
Total Kjeldahl Nitrogen as N		0.1	mg/L	40.2	47.2	 	
EK062G: Total Nitrogen as N (TKN +	NOx) by Discrete Ana	lyser					
^ Total Nitrogen as N		0.1	mg/L	40.2	47.2	 	
EK067G: Total Phosphorus as P by D	Discrete Analyser						
Total Phosphorus as P		0.01	mg/L	7.74	7.45	 	
EK071G: Reactive Phosphorus as P I	by discrete analyser						
Reactive Phosphorus as P	14265-44-2	0.01	mg/L	6.55	6.78	 	
EP026SP: Chemical Oxygen Demand	I (Spectrophotometric	;)					
Chemical Oxygen Demand		10	mg/L	883	525	 	



Analytical Results

Sub-Matrix: EFFLUENT (Matrix: WATER)			Sample ID	LWE 1	LWE 2			
		Sampli	ng date / time	26-Nov-2023 13:00	26-Nov-2023 18:00			
Compound	CAS Number	LOR	Unit	EP2316733-001	EP2316733-002			
			1	Result	Result			
EP030: Biochemical Oxygen Demand	(BOD)							
Biochemical Oxygen Demand		2	mg/L	538	288			
MW006: Thermotolerant Coliforms & E.coli by MF								
Escherichia coli		1	CFU/100mL	17000000	1500000			
Faecal Coliforms		1	CFU/100mL	~30000000	4800000			

Inter-Laboratory Testing

Analysis conducted by ALS Sydney, NATA accreditation no. 825, site no. 10911 (Chemistry) 14913 (Biology).

(WATER) EP026SP: Chemical Oxygen Demand (Spectrophotometric)