

CERTIFICATE OF ANALYSIS Page Work Order : ES2314136 : 1 of 5 Client : NSW OFFICE OF ENVIRONMENT AND HERITAGE Laboratory : Environmental Division Sydney Contact : Oeh Forensics Contact : Customer Services ES Address Address : 59 - 61 Goulburn Street P.O. Box A290 Sydney South NSW 1232 Sydney 2000 Telephone : +61 02 9995 5000 Telephone : +61-2-8784 8555 Project · 20230134 **Date Samples Received** : 01-May-2023 13:00 Order number : 4500806025 Date Analysis Commenced : 01-May-2023 C-O-C number Issue Date : -----: 03-May-2023 18:17 Sampler · ____ Site : -----Quote number : EN/222 "hilahow Accreditation No. 825 No. of samples received : 8 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:

: 8

- General Comments
- Analytical Results

No. of samples analysed

• Surrogate Control Limits

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
	Senior Chemist - Inorganics LCMS Coordinator	Sydney Inorganics, Smithfield, NSW Sydney Organics, 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.

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Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	232651	232655	232659	232663	232667
(Sampli	ng date / time	26-Apr-2023 00:00				
Compound	CAS Number	LOR	Unit	ES2314136-001	ES2314136-002	ES2314136-003	ES2314136-004	ES2314136-005
				Result	Result	Result	Result	Result
EK055G: Ammonia as N by Discrete	Analyser							
Ammonia as N	7664-41-7	0.01	mg/L	0.05	0.03	0.04	0.05	0.01
EK059G: Nitrite plus Nitrate as N (N		lvser	U U					
Nitrite + Nitrate as N		0.01	mg/L	0.01	0.01	0.01	<0.01	0.01
EK061G: Total Kjeldahl Nitrogen By	Discrete Analyser		5					
Total Kjeldahl Nitrogen as N	Discrete Analyser	0.1	mg/L	1.5	1.5	1.8	1.8	1.6
EK062G: Total Nitrogen as N (TKN +	NOv) by Discrete Ar							
^ Total Nitrogen as N	NOX) by Discrete An	0.1	mg/L	1.5	1.5	1.8	1.8	1.6
	Diserste Anelyser	0.1	iiig/L					
EK067G: Total Phosphorus as P by Total Phosphorus as P	Discrete Analyser	0.01	mg/L	0.11	0.17	0.20	0.23	0.18
			iiig/L	0.11	V.17	0.20	0.23	0.10
EK071G: Reactive Phosphorus as P			m a ll	-0.01	0.01	0.01	0.01	0.00
Reactive Phosphorus as P	14265-44-2	0.01	mg/L	<0.01	0.01	0.01	0.01	0.02
EP202A: Phenoxyacetic Acid Herbio								
4-Chlorophenoxy acetic acid	122-88-3	10	µg/L	<10	<10	<10	<10	<10
2.4-DB	94-82-6	10	µg/L	<10	<10	<10	<10	<10
Dicamba	1918-00-9	10	µg/L	<10	<10	<10	<10	<10
Mecoprop	93-65-2	10	µg/L	<10	<10	<10	<10	<10
MCPA 2.4-DP	94-74-6	10 10	μg/L	<10 <10	<10 <10	<10	<10 <10	<10
2.4-DP	120-36-5	10	µg/L	<10	<10	<10 <10	<10	<10 <10
Z.4-D Triclopyr	94-75-7	10	μg/L μg/L	<10	<10	<10	<10	<10
Silvex (2.4.5-TP/Fenoprop)	55335-06-3	10	μg/L μg/L	<10	<10	<10	<10	<10
2.4.5-T	93-72-1 93-76-5	10	μg/L μg/L	<10	<10	<10	<10	<10
MCPB	93-76-5 94-81-5	10	μg/L μg/L	<10	<10	<10	<10	<10
Picloram	94-81-5 1918-02-1	10	μg/L	<10	<10	<10	<10	<10
Clopyralid	1702-17-6	10	μg/L	<10	<10	<10	<10	<10
Fluroxypyr	69377-81-7	10	μg/L	<10	<10	<10	<10	<10
2.6-D	575-90-6	10	µg/L	<10	<10	<10	<10	<10
2.4.6-T	575-89-3	10	µg/L	<10	<10	<10	<10	<10
EP204: Glyphosate and AMPA							·	·
Glyphosate	1071-83-6	10	µg/L	<10	<10	<10	<10	<10
AMPA	1066-51-9	10	µg/L	<10	<10	<10	<10	<10
EP202S: Phenoxyacetic Acid Herbic	ide Surrogate					·	• 	·
2.4-Dichlorophenyl Acetic Acid	19719-28-9	10	%	101	103	106	105	102

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Analytical Results

Sub-Matrix: WATER			Sample ID	232671	232675	232679	
(Matrix: WATER)		Sampli	ng date / time	26-Apr-2023 00:00	26-Apr-2023 00:00	26-Apr-2023 00:00	
Compound	CAS Number	LOR	Unit	ES2314136-006	ES2314136-007	ES2314136-008	
Compound	CAS Number	LOK	Onne	Result	Result	Result	
FK0550: Ammonia an Nilw Discusto	Amelian			Result	Result	Result	
EK055G: Ammonia as N by Discrete Ammonia as N		0.01	mg/l	0.03	0.04	0.02	
	7664-41-7		mg/L	0.03	0.04	0.02	
EK059G: Nitrite plus Nitrate as N (N	NOx) by Discrete Ana						
Nitrite + Nitrate as N		0.01	mg/L	0.02	0.04	0.03	
EK061G: Total Kjeldahl Nitrogen By	/ Discrete Analyser						
Total Kjeldahl Nitrogen as N		0.1	mg/L	1.8	1.6	1.0	
EK062G: Total Nitrogen as N (TKN +	+ NOx) by Discrete Ar	nalyser					
^ Total Nitrogen as N		0.1	mg/L	1.8	1.6	1.0	
EK067G: Total Phosphorus as P by	Discrete Analyser						
Total Phosphorus as P		0.01	mg/L	0.20	0.27	0.35	
EK071G: Reactive Phosphorus as P	by discrete analyser						
Reactive Phosphorus as P	14265-44-2	0.01	mg/L	0.02	0.12	0.22	
EP202A: Phenoxyacetic Acid Herbio	cides by LCMS						
4-Chlorophenoxy acetic acid	122-88-3	10	µg/L	<10	<10	<10	
2.4-DB	94-82-6	10	µg/L	<10	<10	<10	
Dicamba	1918-00-9	10	µg/L	<10	<10	<10	
Mecoprop	93-65-2	10	µg/L	<10	<10	<10	
MCPA	94-74-6	10	µg/L	<10	<10	<10	
2.4-DP	120-36-5	10	µg/L	<10	<10	<10	
2.4-D	94-75-7	10	µg/L	<10	<10	<10	
Triclopyr	55335-06-3	10	µg/L	<10	<10	<10	
Silvex (2.4.5-TP/Fenoprop)	93-72-1	10	µg/L	<10	<10	<10	
2.4.5-T	93-76-5	10	µg/L	<10	<10	<10	
MCPB	94-81-5	10	µg/L	<10	<10	<10	
Picloram	1918-02-1	10	µg/L	<10	<10	<10	
Clopyralid	1702-17-6	10	µg/L	<10	<10	<10	
Fluroxypyr	69377-81-7	10	µg/L	<10	<10	<10	
2.6-D	575-90-6	10	µg/L	<10	<10	<10	
2.4.6-T	575-89-3	10	µg/L	<10	<10	<10	
EP204: Glyphosate and AMPA							
Glyphosate	1071-83-6	10	µg/L	<10	<10	<10	
AMPA	1066-51-9	10	µg/L	<10	<10	<10	
EP202S: Phenoxyacetic Acid Herbio	cide Surrogate						
2.4-Dichlorophenyl Acetic Acid	19719-28-9	10	%	100	103	95.7	



Surrogate Control Limits

Sub-Matrix: WATER	Recovery Limits (%)							
Compound	CAS Number	Low	High					
EP202S: Phenoxyacetic Acid Herbicide Surrogate								
2.4-Dichlorophenyl Acetic Acid	19719-28-9	64	140					