



## CERTIFICATE OF ANALYSIS

Work Order	: ES2320882	Page	: 1 of 5
Client	: DEPARTMENT OF PLANNING AND ENVIRONMENT (NSW-DPE)	Laboratory	: Environmental Division Sydney
Contact	: OEH	Contact	: Customer Services ES
Address	: [REDACTED] Lidcombe 2141	Address	: [REDACTED]
Telephone	: ----	Telephone	: [REDACTED]
Project	: 20230217	Date Samples Received	: 22-Jun-2023 16:00
Order number	: 4500806025	Date Analysis Commenced	: 26-Jun-2023
C-O-C number	: ----	Issue Date	: 28-Jun-2023 14:04
Sampler	: Sam Hayes/Lisa Fane		
Site	: ----		
Quote number	: EN/222		
No. of samples received	: 8		
No. of samples analysed	: 8		



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
- 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

[REDACTED]

LCMS Coordinator

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.

- EP204: Poor matrix spike recoveries due to matrix interferences.



## Analytical Results

Sub-Matrix: WATER  
 (Matrix: WATER)

Sample ID

				235424 B1	235425 B2	235426 B3	235427 E1	235428 E2
Sampling date / time				20-Jun-2023 09:50	20-Jun-2023 10:40	20-Jun-2023 14:10	20-Jun-2023 11:20	20-Jun-2023 12:05
Compound	CAS Number	LOR	Unit	ES2320882-001	ES2320882-002	ES2320882-003	ES2320882-004	ES2320882-005
				Result	Result	Result	Result	Result
<b>EP202A: Phenoxyacetic Acid Herbicides by LCMS</b>								
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	94-74-6	10	µg/L	<10	<10	<10	<10	<10
2,4-DP	120-36-5	10	µg/L	<10	<10	<10	<10	<10
2,4-D	94-75-7	10	µg/L	<10	<10	<10	<10	<10
Triclopyr	55335-06-3	10	µg/L	<10	<10	<10	<10	<10
Silvex (2,4,5-TP/Fenoprop)	93-72-1	10	µg/L	<10	<10	<10	<10	<10
2,4,5-T	93-76-5	10	µg/L	<10	<10	<10	<10	<10
MCPB	94-81-5	10	µg/L	<10	<10	<10	<10	<10
Picloram	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
<b>EP204: Glyphosate and AMPA</b>								
Glyphosate	1071-83-6	10	µg/L	<10	<10	<10	<10	<10
AMPA	1066-51-9	10	µg/L	<10	<10	<10	<10	<10
<b>EP202S: Phenoxyacetic Acid Herbicide Surrogate</b>								
2,4-Dichlorophenyl Acetic Acid	19719-28-9	10	%	107	106	101	103	107



## Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	235429 E3	235430 E4	235431 E5	----	----
Sampling date / time					20-Jun-2023 12:55	20-Jun-2023 13:50	20-Jun-2023 14:40	----	----
Compound	CAS Number	LOR	Unit		ES2320882-006	ES2320882-007	ES2320882-008	-----	-----
					Result	Result	Result	----	----
<b>EP202A: Phenoxyacetic Acid Herbicides by LCMS</b>									
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	----	----
<b>EP204: Glyphosate and AMPA</b>									
Glyphosate	1071-83-6	10	µg/L		<10	<10	<10	----	----
AMPA	1066-51-9	10	µg/L		<10	<10	<10	----	----
<b>EP202S: Phenoxyacetic Acid Herbicide Surrogate</b>									
2,4-Dichlorophenyl Acetic Acid	19719-28-9	10	%		105	104	109	----	----



### Surrogate Control Limits

Sub-Matrix: WATER		Recovery Limits (%)	
Compound	CAS Number	Low	High
<b>EP202S: Phenoxyacetic Acid Herbicide Surrogate</b>			
2,4-Dichlorophenyl Acetic Acid	19719-28-9	64	140