



## CERTIFICATE OF ANALYSIS

Work Order	: <b>ES2315117</b>	Page	: 1 of 5
Client	: <b>DEPARTMENT OF PLANNING AND ENVIRONMENT (NSW-DPE)</b>	Laboratory	: Environmental Division Sydney
Contact	: OEH	Contact	: Customer Services ES
Address	: [REDACTED] Lidcombe 2141	Address	: [REDACTED]
Telephone	: ----	Telephone	: +61-2-8784 8555
Project	: 20230146	Date Samples Received	: 08-May-2023 13:10
Order number	: 4500806025	Date Analysis Commenced	: 10-May-2023
C-O-C number	: ----	Issue Date	: 15-May-2023 16:45
Sampler	: ----		
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]

Organic Chemist

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.



## Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	232917	232918	232919	232920	232921
Sampling date / time					03-May-2023 00:00	03-May-2023 00:00	03-May-2023 00:00	03-May-2023 00:00	03-May-2023 00:00
Compound	CAS Number	LOR	Unit	ES2315117-001	ES2315117-002	ES2315117-003	ES2315117-004	ES2315117-005	
				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	%	94.6	97.8	104	91.8	96.3	



## Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	232928	232929	232930	----	----
Sampling date / time				03-May-2023 00:00	03-May-2023 00:00	03-May-2023 00:00	----	----	
Compound	CAS Number	LOR	Unit	ES2315117-006	ES2315117-007	ES2315117-008	-----	-----	
				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	%	112	110	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