



CERTIFICATE OF ANALYSIS

Work Order	: ES2512503	Page	: 1 of 4
Amendment	: 1		
Client	: IMEMS PTY LTD	Laboratory	: Environmental Division Sydney
Contact	: MR PAUL ANDERSON	Contact	: Customer Services ES
Address	: 38 MAIN STREET PALMWOODS QLD, AUSTRALIA 4555	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone	: +61 07 5478 8422	Telephone	: +61-2-8784 8555
Project	: PPP_24010	Date Samples Received	: 01-May-2025 17:15
Order number	: ---	Date Analysis Commenced	: 01-May-2025
C-O-C number	: ---	Issue Date	: 26-May-2025 17:32
Sampler	: Peter Cush/Eden		
Site	: ---		
Quote number	: EN/222		
No. of samples received	: 2		
No. of samples analysed	: 2		



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

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	Senior Chemist - Inorganics	Sydney Inorganics, Smithfield, NSW
Franco Lentini	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
∅ = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- EP234: Poor matrix spike recovery for particular compounds due to matrix interferences and high matrix spike recovery has been noted for particular compounds due to ion enhancement.
- Amendment (26/05/2025): This report has been amended and re-released to allow the reporting of additional analytical data, specifically method EG020T-Cu for samples ES2512503-001 and 002.



Analytical Results

Sub-Matrix: WATER
 (Matrix: WATER)

Sample ID

				Point 7/EPA ID 1(Sediment Pond)	Point 5/EPA ID 2(Triple Interceptor)	----	----	----
Sampling date / time				24-Apr-2025 00:00	24-Apr-2025 00:00	----	----	----
Compound	CAS Number	LOR	Unit	ES2512503-001	ES2512503-002	-----	-----	-----
				Result	Result	----	----	----
EA005P: pH by PC Titrator								
pH Value	----	0.01	pH Unit	7.15	6.83	----	----	----
EA025: Total Suspended Solids dried at 104 ± 2°C								
Suspended Solids (SS)	----	5	mg/L	205	428	----	----	----
EG020F: Dissolved Metals by ICP-MS								
Arsenic	7440-38-2	0.001	mg/L	0.004	0.014	----	----	----
Chromium	7440-47-3	0.001	mg/L	0.001	0.004	----	----	----
Copper	7440-50-8	0.001	mg/L	0.004	0.001	----	----	----
EG020T: Total Metals by ICP-MS								
Arsenic	7440-38-2	0.001	mg/L	0.039	0.021	----	----	----
Chromium	7440-47-3	0.001	mg/L	0.047	0.052	----	----	----
Copper	7440-50-8	0.001	mg/L	0.048	0.052	----	----	----
EG050G LL-T: Total Hexavalent Chromium by Discrete Analyser - Low Level								
Hexavalent Chromium	18540-29-9	0.001	mg/L	<0.001	<0.001	----	----	----
EP020: Oil and Grease (O&G)								
Oil & Grease	----	5	mg/L	<5	8	----	----	----
EP234E: Conazole and Aminopyrimidine Fungicides								
Cyproconazole	94361-06-5	0.02	µg/L	<0.02	<0.02	----	----	----
Cyprodinil	121552-61-2	0.01	µg/L	<0.01	<0.01	----	----	----
Difenoconazole	119446-68-3	0.02	µg/L	<0.02	<0.02	----	----	----
Flusilazole	85509-19-9	0.02	µg/L	<0.02	<0.02	----	----	----
Hexaconazole	79983-71-4	0.02	µg/L	<0.02	<0.02	----	----	----
Myclobutanil	88671-89-0	0.1	µg/L	<0.1	<0.1	----	----	----
Paclobutrazole	76738-62-0	0.05	µg/L	<0.05	<0.05	----	----	----
Penconazole	66246-88-6	0.01	µg/L	<0.01	<0.01	----	----	----
Propiconazole	60207-90-1	0.05	µg/L	4.79	0.48	----	----	----
Pyrimethanil	53112-28-0	0.02	µg/L	<0.02	<0.02	----	----	----
Pyroxsulam	422556-08-9	0.1	µg/L	<0.1	<0.1	----	----	----



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	Point 7/EPA ID 1(Sediment Pond)	Point 5/EPA ID 2(Triple Interceptor)	----	----	----
Sampling date / time					24-Apr-2025 00:00	24-Apr-2025 00:00	----	----	----
Compound	CAS Number	LOR	Unit		ES2512503-001	ES2512503-002	-----	-----	-----
					Result	Result	----	----	----
EP234E: Conazole and Aminopyrimidine Fungicides - Continued									
Tebuconazole	107534-96-3	0.01	µg/L		8.47	1.18	----	----	----
Tetraconazole	112281-77-3	0.1	µg/L		<0.1	<0.1	----	----	----
Triadimefon	43121-43-3	0.1	µg/L		<0.1	<0.1	----	----	----
Triadimenol	55219-65-3	0.1	µg/L		<0.1	<0.1	----	----	----



CERTIFICATE OF ANALYSIS

Work Order : **ES2521101**
Client : **IMEMS PTY LTD**
Contact : **MR PAUL ANDERSON**
Address : **38 MAIN STREET**
PALMWOODS QLD, AUSTRALIA 4555
Telephone : **+61 07 5478 8422**
Project : **24010_PPP**
Order number : **---**
C-O-C number : **---**
Sampler : **CAMERON, PETER CUSH**
Site : **---**
Quote number : **EN/222**
No. of samples received : **22**
No. of samples analysed : **22**

Page : 1 of 8
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 : 10-Jul-2025 15:40
Date Analysis Commenced : 14-Jul-2025
Issue Date : 21-Jul-2025 11:30



Accreditation No. 825
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- Analytical Results

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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
Alex Rossi	Organic Chemist	Sydney Organics, Smithfield, NSW
Ankit Joshi	Senior Chemist - Inorganics	Sydney Inorganics, Smithfield, NSW

Page : 2 of 8
Work Order : ES2521101
Client : IMEMS PTY LTD
Project : 24010_PPP



General Comments

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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.

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Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contract for details.

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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.

- EP234: Poor matrix spike recovery for particular compounds due to matrix interferences and high matrix spike recovery has been noted for particular compounds due to ion enhancement.
- EP234: Poor matrix spike recovery for particular compounds due to matrix interferences and high matrix spike recovery has been noted for particular compounds due to ion enhancement
- EG020: It is recognised that total concentration is less than dissolved for some metal analytes. However, the difference is within experimental variation of the methods.
- EG050F: It has been noted that Filtered Hexavalent Chromium is greater than Total Hexavalent Chromium on sample 3 & 11, however this difference is within the limits of experimental variation.



Analytical Results

Sub-Matrix: GROUNDWATER
 (Matrix: WATER)

Sample ID

Sub-Matrix: GROUNDWATER (Matrix: WATER)				Sample ID	MW1	MW2	MW3	MW4	MW7
Sampling date / time					09-Jul-2025 15:31	09-Jul-2025 13:41	09-Jul-2025 15:20	09-Jul-2025 10:57	09-Jul-2025 11:09
Compound	CAS Number	LOR	Unit		ES2521101-001	ES2521101-002	ES2521101-003	ES2521101-004	ES2521101-005
					Result	Result	Result	Result	Result
EG020F: Dissolved Metals by ICP-MS									
Arsenic	7440-38-2	0.001	mg/L		0.005	<0.001	0.005	0.371	0.016
Chromium	7440-47-3	0.001	mg/L		0.001	<0.001	0.062	1.07	0.197
Copper	7440-50-8	0.001	mg/L		0.013	0.016	0.010	0.164	0.056
EG020T: Total Metals by ICP-MS									
Arsenic	7440-38-2	0.001	mg/L		0.016	0.004	0.006	0.365	0.018
Chromium	7440-47-3	0.001	mg/L		0.016	0.002	0.063	1.10	0.219
Copper	7440-50-8	0.001	mg/L		0.018	0.015	0.010	0.166	0.062
EG050G LL-F: Dissolved Hexavalent Chromium by Discrete Analyser - Low Level									
Hexavalent Chromium	18540-29-9	0.001	mg/L		<0.001	<0.001	0.058	1.11	0.196
EG050G LL-T: Total Hexavalent Chromium by Discrete Analyser - Low Level									
Hexavalent Chromium	18540-29-9	0.001	mg/L		<0.001	<0.001	0.056	1.11	0.202
EP234E: Conazole and Aminopyrimidine Fungicides									
Cyproconazole	94361-06-5	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
Cyprodinil	121552-61-2	0.01	µg/L		<0.01	<0.01	<0.01	<0.01	<0.01
Difenoconazole	119446-68-3	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
Flusilazole	85509-19-9	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
Hexaconazole	79983-71-4	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
Myclobutanil	88671-89-0	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	<0.1
Paclobutrazole	76738-62-0	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	<0.05
Penconazole	66246-88-6	0.01	µg/L		<0.01	<0.01	<0.01	<0.01	<0.01
Propiconazole	60207-90-1	0.05	µg/L		1.41	0.70	1.59	0.45	0.46
Pyrimethanil	53112-28-0	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02
Pyroxsulam	422556-08-9	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	<0.1
Tebuconazole	107534-96-3	0.01	µg/L		2.26	1.18	2.25	0.38	0.48
Tetraconazole	112281-77-3	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	<0.1
Triadimefon	43121-43-3	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	<0.1
Triadimenol	55219-65-3	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	<0.1



Analytical Results

Sub-Matrix: GROUNDWATER
 (Matrix: WATER)

Sample ID

				MW20	MW21	MW22	MW23	MW24
Sampling date / time				09-Jul-2025 15:52	09-Jul-2025 16:13	09-Jul-2025 09:10	09-Jul-2025 15:09	09-Jul-2025 11:34
Compound	CAS Number	LOR	Unit	ES2521101-006	ES2521101-007	ES2521101-008	ES2521101-009	ES2521101-010
				Result	Result	Result	Result	Result
EG020F: Dissolved Metals by ICP-MS								
Arsenic	7440-38-2	0.001	mg/L	0.002	<0.001	0.006	<0.001	<0.001
Chromium	7440-47-3	0.001	mg/L	0.003	<0.001	0.003	0.001	<0.001
Copper	7440-50-8	0.001	mg/L	0.014	0.038	0.020	0.015	0.005
EG020T: Total Metals by ICP-MS								
Arsenic	7440-38-2	0.001	mg/L	0.004	0.010	0.011	<0.001	<0.001
Chromium	7440-47-3	0.001	mg/L	0.003	0.008	0.005	<0.001	0.001
Copper	7440-50-8	0.001	mg/L	0.013	0.042	0.020	0.013	0.004
EG050G LL-F: Dissolved Hexavalent Chromium by Discrete Analyser - Low Level								
Hexavalent Chromium	18540-29-9	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
EG050G LL-T: Total Hexavalent Chromium by Discrete Analyser - Low Level								
Hexavalent Chromium	18540-29-9	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	0.010
EP234E: Conazole and Aminopyrimidine Fungicides								
Cyproconazole	94361-06-5	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Cyprodinil	121552-61-2	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Difenoconazole	119446-68-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Flusilazole	85509-19-9	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Hexaconazole	79983-71-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Myclobutanil	88671-89-0	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Paclobutrazole	76738-62-0	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Penconazole	66246-88-6	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Propiconazole	60207-90-1	0.05	µg/L	0.74	0.68	2.44	0.28	1.37
Pyrimethanil	53112-28-0	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Pyroxsulam	422556-08-9	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Tebuconazole	107534-96-3	0.01	µg/L	1.05	1.06	4.86	0.33	2.46
Tetraconazole	112281-77-3	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Triadimefon	43121-43-3	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Triadimenol	55219-65-3	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1



Analytical Results

Sub-Matrix: GROUNDWATER
 (Matrix: WATER)

Sample ID

Sub-Matrix: GROUNDWATER (Matrix: WATER)				Sample ID	MW25	MW26	MW27	MW28	MW29
Sampling date / time				09-Jul-2025 12:32	09-Jul-2025 12:01	09-Jul-2025 09:30	09-Jul-2025 10:40	09-Jul-2025 16:37	
Compound	CAS Number	LOR	Unit	ES2521101-011	ES2521101-012	ES2521101-013	ES2521101-014	ES2521101-015	
				Result	Result	Result	Result	Result	
EG020F: Dissolved Metals by ICP-MS									
Arsenic	7440-38-2	0.001	mg/L	<0.001	<0.001	0.003	<0.001	<0.001	
Chromium	7440-47-3	0.001	mg/L	0.069	0.025	0.003	1.01	0.001	
Copper	7440-50-8	0.001	mg/L	0.004	0.029	0.010	0.005	0.006	
EG020T: Total Metals by ICP-MS									
Arsenic	7440-38-2	0.001	mg/L	<0.001	<0.001	0.008	0.002	<0.001	
Chromium	7440-47-3	0.001	mg/L	0.071	0.025	0.005	1.04	<0.001	
Copper	7440-50-8	0.001	mg/L	0.003	0.027	0.010	0.006	0.005	
EG050G LL-F: Dissolved Hexavalent Chromium by Discrete Analyser - Low Level									
Hexavalent Chromium	18540-29-9	0.001	mg/L	0.057	0.004	<0.001	1.07	<0.001	
EG050G LL-T: Total Hexavalent Chromium by Discrete Analyser - Low Level									
Hexavalent Chromium	18540-29-9	0.001	mg/L	0.055	0.005	<0.001	1.01	<0.001	
EP234E: Conazole and Aminopyrimidine Fungicides									
Cyproconazole	94361-06-5	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02	
Cyprodinil	121552-61-2	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
Difenoconazole	119446-68-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02	
Flusilazole	85509-19-9	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02	
Hexaconazole	79983-71-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02	
Myclobutanil	88671-89-0	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1	
Paclobutrazole	76738-62-0	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05	
Penconazole	66246-88-6	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
Propiconazole	60207-90-1	0.05	µg/L	1.73	0.18	1.58	2.60	0.28	
Pyrimethanil	53112-28-0	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02	
Pyroxsulam	422556-08-9	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1	
Tebuconazole	107534-96-3	0.01	µg/L	1.28	0.24	2.76	3.02	0.30	
Tetraconazole	112281-77-3	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1	
Triadimefon	43121-43-3	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1	
Triadimenol	55219-65-3	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1	



Analytical Results

Sub-Matrix: GROUNDWATER
 (Matrix: WATER)

Sample ID

Sub-Matrix: GROUNDWATER (Matrix: WATER)				Sample ID	MW30	MW31	MW32	MW33	MW34
Sampling date / time				09-Jul-2025 16:25	09-Jul-2025 12:13	09-Jul-2025 16:02	09-Jul-2025 13:08	09-Jul-2025 13:19	
Compound	CAS Number	LOR	Unit	ES2521101-016	ES2521101-017	ES2521101-018	ES2521101-019	ES2521101-020	
				Result	Result	Result	Result	Result	
EG020F: Dissolved Metals by ICP-MS									
Arsenic	7440-38-2	0.001	mg/L	<0.001	<0.001	0.135	<0.001	0.002	
Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	0.032	<0.001	<0.001	
Copper	7440-50-8	0.001	mg/L	0.006	0.001	0.503	0.005	0.005	
EG020T: Total Metals by ICP-MS									
Arsenic	7440-38-2	0.001	mg/L	<0.001	<0.001	0.242	0.002	0.007	
Chromium	7440-47-3	0.001	mg/L	<0.001	0.001	0.131	0.001	0.005	
Copper	7440-50-8	0.001	mg/L	0.005	<0.001	0.554	0.007	0.005	
EG050G LL-F: Dissolved Hexavalent Chromium by Discrete Analyser - Low Level									
Hexavalent Chromium	18540-29-9	0.001	mg/L	<0.001	<0.001	0.025	<0.001	<0.001	
EG050G LL-T: Total Hexavalent Chromium by Discrete Analyser - Low Level									
Hexavalent Chromium	18540-29-9	0.001	mg/L	<0.001	<0.001	0.028	<0.001	0.002	
EP234E: Conazole and Aminopyrimidine Fungicides									
Cyproconazole	94361-06-5	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02	
Cyprodinil	121552-61-2	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
Difenoconazole	119446-68-3	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02	
Flusilazole	85509-19-9	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02	
Hexaconazole	79983-71-4	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02	
Myclobutanil	88671-89-0	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1	
Paclobutrazole	76738-62-0	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05	
Penconazole	66246-88-6	0.01	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
Propiconazole	60207-90-1	0.05	µg/L	0.95	0.30	11.6	0.26	0.62	
Pyrimethanil	53112-28-0	0.02	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02	
Pyroxsulam	422556-08-9	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1	
Tebuconazole	107534-96-3	0.01	µg/L	1.21	0.36	18.5	0.32	0.73	
Tetraconazole	112281-77-3	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1	
Triadimefon	43121-43-3	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1	
Triadimenol	55219-65-3	0.1	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1	

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 Work Order : ES2521101
 Client : IMEMS PTY LTD
 Project : 24010_PPP



Analytical Results

Sub-Matrix: GROUNDWATER
 (Matrix: WATER)

Sample ID

Sub-Matrix: GROUNDWATER (Matrix: WATER)				Sample ID	MW35	MW36	----	----	----
Sampling date / time				09-Jul-2025 16:50	09-Jul-2025 17:00	----	----	----	
Compound	CAS Number	LOR	Unit	ES2521101-021	ES2521101-022	-----	-----	-----	
				Result	Result	----	----	----	
EG020F: Dissolved Metals by ICP-MS									
Arsenic	7440-38-2	0.001	mg/L	<0.001	<0.001	----	----	----	
Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	----	----	----	
Copper	7440-50-8	0.001	mg/L	0.011	0.001	----	----	----	
EG020T: Total Metals by ICP-MS									
Arsenic	7440-38-2	0.001	mg/L	0.001	<0.001	----	----	----	
Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	----	----	----	
Copper	7440-50-8	0.001	mg/L	0.010	<0.001	----	----	----	
EG050G LL-F: Dissolved Hexavalent Chromium by Discrete Analyser - Low Level									
Hexavalent Chromium	18540-29-9	0.001	mg/L	<0.001	<0.001	----	----	----	
EG050G LL-T: Total Hexavalent Chromium by Discrete Analyser - Low Level									
Hexavalent Chromium	18540-29-9	0.001	mg/L	<0.001	<0.001	----	----	----	
EP234E: Conazole and Aminopyrimidine Fungicides									
Cyproconazole	94361-06-5	0.02	µg/L	<0.02	<0.02	----	----	----	
Cyprodinil	121552-61-2	0.01	µg/L	<0.01	<0.01	----	----	----	
Difenoconazole	119446-68-3	0.02	µg/L	<0.02	<0.02	----	----	----	
Flusilazole	85509-19-9	0.02	µg/L	<0.02	<0.02	----	----	----	
Hexaconazole	79983-71-4	0.02	µg/L	<0.02	<0.02	----	----	----	
Myclobutanil	88671-89-0	0.1	µg/L	<0.1	<0.1	----	----	----	
Paclobutrazole	76738-62-0	0.05	µg/L	<0.05	<0.05	----	----	----	
Penconazole	66246-88-6	0.01	µg/L	<0.01	<0.01	----	----	----	
Propiconazole	60207-90-1	0.05	µg/L	0.53	0.27	----	----	----	
Pyrimethanil	53112-28-0	0.02	µg/L	<0.02	<0.02	----	----	----	
Pyroxsulam	422556-08-9	0.1	µg/L	<0.1	<0.1	----	----	----	
Tebuconazole	107534-96-3	0.01	µg/L	0.59	0.33	----	----	----	
Tetraconazole	112281-77-3	0.1	µg/L	<0.1	<0.1	----	----	----	
Triadimefon	43121-43-3	0.1	µg/L	<0.1	<0.1	----	----	----	
Triadimenol	55219-65-3	0.1	µg/L	<0.1	<0.1	----	----	----	

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Work Order : ES2521101
Client : IMEMS PTY LTD
Project : 24010_PPP





CERTIFICATE OF ANALYSIS

Work Order : **ES2527133**
Client : **IMEMS PTY LTD**
Contact : **MR PAUL ANDERSON**
Address : **38 MAIN STREET
PALMWOODS QLD, AUSTRALIA 4555**
Telephone : **+61 07 5478 8422**
Project : **24010_PPP**
Order number : **---**
C-O-C number : **---**
Sampler : **Eden**
Site : **---**
Quote number : **EN/222**
No. of samples received : **6**
No. of samples analysed : **6**

Page : 1 of 7
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-Sep-2025 12:39
Date Analysis Commenced : 02-Sep-2025
Issue Date : 08-Sep-2025 16:01



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
Alex Rossi	Organic Chemist	Sydney Organics, Smithfield, NSW
Edwandy Fadjjar	Organic Coordinator	Sydney Organics, Smithfield, NSW

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Work Order : ES2527133
Client : IMEMS PTY LTD
Project : 24010_PPP



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.

- EP080: Where reported, Total Xylenes is the sum of the reported concentrations of m&p-Xylene and o-Xylene at or above the LOR.



Analytical Results

Sub-Matrix: WATER
 (Matrix: WATER)

Sample ID

				MB1/MW1	MB2/MW2	MB3/MW3	MB4/MW4	MB5/MW5
Sampling date / time				02-Sep-2025 09:00	02-Sep-2025 09:00	02-Sep-2025 09:00	02-Sep-2025 09:00	02-Sep-2025 09:00
Compound	CAS Number	LOR	Unit	ES2527133-001	ES2527133-002	ES2527133-003	ES2527133-004	ES2527133-005
				Result	Result	Result	Result	Result
EP071 SG: Total Petroleum Hydrocarbons - Silica gel cleanup								
C10 - C14 Fraction	----	50	µg/L	<50	<50	<50	<50	<50
C15 - C28 Fraction	----	100	µg/L	<100	<100	<100	<100	<100
C29 - C36 Fraction	----	50	µg/L	<50	<50	<50	<50	<50
[^] C10 - C36 Fraction (sum)	----	50	µg/L	<50	<50	<50	<50	<50
EP071 SG: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Silica gel cleanup								
>C10 - C16 Fraction	----	100	µg/L	<100	<100	<100	<100	<100
>C16 - C34 Fraction	----	100	µg/L	<100	<100	<100	<100	<100
>C34 - C40 Fraction	----	100	µg/L	<100	<100	<100	<100	<100
[^] >C10 - C40 Fraction (sum)	----	100	µg/L	<100	<100	<100	<100	<100
>C10 - C16 Fraction minus Naphthalene (F2)	----	100	µg/L	<100	<100	<100	<100	<100
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	20	µg/L	<20	<20	<20	<20	<20
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	20	µg/L	<20	<20	<20	<20	<20
[^] C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	µg/L	<20	<20	<20	<20	<20
EP080: BTEXN								
Benzene	71-43-2	1	µg/L	<1	<1	<1	<1	<1
Toluene	108-88-3	2	µg/L	<2	<2	<2	<2	<2
Ethylbenzene	100-41-4	2	µg/L	<2	<2	<2	<2	<2
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	<2	<2	<2	<2
ortho-Xylene	95-47-6	2	µg/L	<2	<2	<2	<2	<2
[^] Total Xylenes	----	2	µg/L	<2	<2	<2	<2	<2
[^] Sum of BTEX	----	1	µg/L	<1	<1	<1	<1	<1
Naphthalene	91-20-3	5	µg/L	<5	<5	<5	<5	<5
EP080S: TPH(V)/BTEX Surrogates								
1,2-Dichloroethane-D4	17060-07-0	2	%	111	106	116	110	113



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	MB1/MW1	MB2/MW2	MB3/MW3	MB4/MW4	MB5/MW5
Sampling date / time					02-Sep-2025 09:00	02-Sep-2025 09:00	02-Sep-2025 09:00	02-Sep-2025 09:00	02-Sep-2025 09:00
Compound	CAS Number	LOR	Unit	ES2527133-001	ES2527133-002	ES2527133-003	ES2527133-004	ES2527133-005	
				Result	Result	Result	Result	Result	
EP080S: TPH(V)/BTEX Surrogates - Continued									
Toluene-D8	2037-26-5	2	%	111	109	117	112	116	
4-Bromofluorobenzene	460-00-4	2	%	110	106	112	108	108	

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 Work Order : ES2527133
 Client : IMEMS PTY LTD
 Project : 24010_PPP



Analytical Results

Sub-Matrix: WATER
 (Matrix: WATER)

Sample ID

				MB7/MW7	----	----	----	----
Sampling date / time				02-Sep-2025 09:00	----	----	----	----
Compound	CAS Number	LOR	Unit	ES2527133-006	-----	-----	-----	-----
Result				----	----	----	----	----
EP071 SG: Total Petroleum Hydrocarbons - Silica gel cleanup								
C10 - C14 Fraction	----	50	µg/L	<50	----	----	----	----
C15 - C28 Fraction	----	100	µg/L	<100	----	----	----	----
C29 - C36 Fraction	----	50	µg/L	<50	----	----	----	----
^ C10 - C36 Fraction (sum)	----	50	µg/L	<50	----	----	----	----
EP071 SG: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Silica gel cleanup								
>C10 - C16 Fraction	----	100	µg/L	<100	----	----	----	----
>C16 - C34 Fraction	----	100	µg/L	<100	----	----	----	----
>C34 - C40 Fraction	----	100	µg/L	<100	----	----	----	----
^ >C10 - C40 Fraction (sum)	----	100	µg/L	<100	----	----	----	----
>C10 - C16 Fraction minus Naphthalene (F2)	----	100	µg/L	<100	----	----	----	----
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	20	µg/L	<20	----	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	20	µg/L	<20	----	----	----	----
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	µg/L	<20	----	----	----	----
EP080: BTEXN								
Benzene	71-43-2	1	µg/L	<1	----	----	----	----
Toluene	108-88-3	2	µg/L	<2	----	----	----	----
Ethylbenzene	100-41-4	2	µg/L	<2	----	----	----	----
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	----	----	----	----
ortho-Xylene	95-47-6	2	µg/L	<2	----	----	----	----
^ Total Xylenes	----	2	µg/L	<2	----	----	----	----
^ Sum of BTEX	----	1	µg/L	<1	----	----	----	----
Naphthalene	91-20-3	5	µg/L	<5	----	----	----	----
EP080S: TPH(V)/BTEX Surrogates								
1,2-Dichloroethane-D4	17060-07-0	2	%	116	----	----	----	----



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	MB7/MW7	----	----	----	----
				Sampling date / time	02-Sep-2025 09:00	----	----	----	----
Compound	CAS Number	LOR	Unit	ES2527133-006	-----	-----	-----	-----	-----
				Result	----	----	----	----	----
EP080S: TPH(V)/BTEX Surrogates - Continued									
Toluene-D8	2037-26-5	2	%	119	----	----	----	----	----
4-Bromofluorobenzene	460-00-4	2	%	112	----	----	----	----	----

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Work Order : ES2527133
Client : IMEMS PTY LTD
Project : 24010_PPP



Surrogate Control Limits

Sub-Matrix: WATER		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP080S: TPH(V)/BTEX Surrogates			
1,2-Dichloroethane-D4	17060-07-0	72	143
Toluene-D8	2037-26-5	75	131
4-Bromofluorobenzene	460-00-4	73	137