



Environmental Forensics Report of Analysis
Project 20230195

Report #: 1731
Date Issued: 19-Jul-2023
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Client Project Reference: Menindee Fish Kill - 34 (IMT 1 Jun 2)

Customer: Department of Planning & Environment

Attention: [REDACTED]

Report Date: 19 July 2023

Project Received: 02 June 2023

EF Project Contact: [REDACTED]
[REDACTED]
[REDACTED]



The following samples were analysed:

Sample ID	Client ID	Sample Type	Client Sampled Date/Time	Aliquot	Client Description
234529	E12	Liquid	01/06/2023 9:52AM		
234534	E12	Liquid	01/06/2023 9:52AM	Field Aliquot	
234535	E12	Liquid	01/06/2023 9:52AM	Laboratory Aliquot	
234536	E12	Liquid	01/06/2023 9:52AM	Field Aliquot	
234537	E12	Liquid	01/06/2023 9:52AM	Field Aliquot	
234561	E12	Liquid	01/06/2023 9:52AM	Laboratory Aliquot	
234530	E15	Liquid	01/06/2023 11:05AM		
234538	E15	Liquid	01/06/2023 11:05AM	Field Aliquot	
234539	E15	Liquid	01/06/2023 11:05AM	Laboratory Aliquot	
234540	E15	Liquid	01/06/2023 11:05AM	Field Aliquot	
234541	E15	Liquid	01/06/2023 11:05AM	Field Aliquot	
234562	E15	Liquid	01/06/2023 11:05AM	Laboratory Aliquot	
234531	E14	Liquid	01/06/2023 11:54AM		
234542	E14	Liquid	01/06/2023 11:54AM	Field Aliquot	
234543	E14	Liquid	01/06/2023 11:54AM	Laboratory Aliquot	
234544	E14	Liquid	01/06/2023 11:54AM	Field Aliquot	
234545	E14	Liquid	01/06/2023 11:54AM	Field Aliquot	
234563	E14	Liquid	01/06/2023 11:54AM	Laboratory Aliquot	
234532	E13	Liquid	01/06/2023 1:23PM		
234546	E13	Liquid	01/06/2023 1:23PM	Field Aliquot	
234547	E13	Liquid	01/06/2023 1:23PM	Laboratory Aliquot	
234548	E13	Liquid	01/06/2023 1:23PM	Field Aliquot	
234549	E13	Liquid	01/06/2023 1:23PM	Field Aliquot	
234564	E13	Liquid	01/06/2023 1:23PM	Laboratory Aliquot	
234533	E11	Liquid	01/06/2023 2:52AM		
234550	E11	Liquid	01/06/2023 2:52AM	Field Aliquot	
234551	E11	Liquid	01/06/2023 2:52AM	Laboratory Aliquot	
234552	E11	Liquid	01/06/2023 2:52AM	Field Aliquot	
234553	E11	Liquid	01/06/2023 2:52AM	Field Aliquot	

Tests not covered by NATA accreditation 3040 are denoted with *

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234565	E11	Liquid	01/06/2023	2:52AM	Laboratory Aliquot	
235306	E11 Unfiltered	Liquid	01/06/2023			Trip 9
235307	E11 Filtered 1	Liquid	01/06/2023			Trip 9
235308	E11 Filtered 2	Liquid	01/06/2023			Trip 9
235309	E12 Unfiltered	Liquid	01/06/2023			Trip 9
235310	E12 Filtered 1	Liquid	01/06/2023			Trip 9
235311	E12 Filtered 2	Liquid	01/06/2023			Trip 9
235312	E13 Unfiltered	Liquid	01/06/2023			Trip 9
235313	E13 Filtered 1	Liquid	01/06/2023			Trip 9
235314	E13 Filtered 2	Liquid	01/06/2023			Trip 9
235315	E14 Unfiltered	Liquid	01/06/2023			Trip 9
235316	E14 Filtered 1	Liquid	01/06/2023			Trip 9
235317	E14 Filtered 2	Liquid	01/06/2023			Trip 9
235318	E15 Unfiltered	Liquid	01/06/2023			Trip 9
235319	E15 Filtered 1	Liquid	01/06/2023			Trip 9
235320	E15 Filtered 2	Liquid	01/06/2023			Trip 9

Report Notes

- This document has been authorised by the person whose name appears in this report.
- This report shall not be reproduced except in full. Samples analysed as received from the client.
- Results reported as 'less than' (<) indicates a result below the practical quantitation limit for the sample matrix and method used.



Project Comments

·Samples 234535, 234539, 234543, 234547, 234551 were sent to ALS Environmental Laboratory (NATA Accreditation no: 825) for the analysis of EP202A: Phenoxyacetic Acid Herbicides by LCMS and EP204: Glyphosate and AMPA. This report summarises data from the attached external report: ES2318696, dated 09-Jun-2023.

·Samples 234537, 234541, 234545, 234549 and 234553 were sent to Sydney Water Laboratory Services (NATA Accreditation no: 63 and 610) for the analysis of Blue-Green Algal ID and Enumeration. Please see detailed results in the attached Phytoplankton Analysis Report no. 286661 dated 22 June 2023.

Samples 234534, 234538, 234542, 234546 and 234550 were sent to Sydney Water Laboratory Services (NATA Accreditation no: 63 and 610) for the analysis of Algal Toxins. Please see the attached Analytical Report No: 286661 dated 22 June 2023, which gives Algal Toxins analysis results and the Blue-Green Algal ID and Enumeration summary results

·Samples 235306 to 235320 were sent to ALS Environmental Laboratory (NATA Accreditation no: 825) for the analysis of Nutrients: EK059G - Nitrite plus Nitrate as N (NO_x) by Discrete Analyser, EK061G - Total Kjeldahl Nitrogen By Discrete Analyser, EK062G - Total Nitrogen as N (TKN + NO_x) by Discrete Analyser, EK067G - Total Phosphorus as P by Discrete Analyser, EK071G - Reactive Phosphorus as P by discrete analyser. This report summarises data from the attached external report: ES2320685, dated 27-Jun-2023.

·Samples 234564 and 234565 were analysed outside the method holding time for Total Suspended Solids



Analysis Results - External Methods*

Area - EXTERNAL

		Sample ID Start Date Client ID	234534 6/06/2023 E12	234537 21/06/2023 E12	234538 6/06/2023 E15	234541 21/06/2023 E15	234542 6/06/2023 E14	234545 21/06/2023 E14	234546 6/06/2023 E13	234549 21/06/2023 E13	234550 6/06/2023 E11	234553 21/06/2023 E11
Analyte												
Algal Enumeration	-			RC		RC		RC		RC		RC
Algal Identification	-			RC		RC		RC		RC		RC
Algal Toxins	-		RC		RC		RC		RC		RC	

Analysis Results - External Methods*

Area - EXTERNAL

		Sample ID Start Date Client ID	234535 6/06/2023 E12	234539 6/06/2023 E15	234543 6/06/2023 E14	234547 6/06/2023 E13	234551 6/06/2023 E11
Analyte							
2.4.5-T	µg/L		<10	<10	<10	<10	<10
2.4.6-T	µg/L		<10	<10	<10	<10	<10
2.4-D	µg/L		<10	<10	<10	<10	<10
2.4-DB	µg/L		<10	<10	<10	<10	<10
2.4-DP	µg/L		<10	<10	<10	<10	<10
2.6-D	µg/L		<10	<10	<10	<10	<10
4-Chlorophenoxy acetic acid	µg/L		<10	<10	<10	<10	<10
AMPA	µg/L		<10	<10	<10	<10	<10
Clopyralid	µg/L		<10	<10	<10	<10	<10
Dicamba	µg/L		<10	<10	<10	<10	<10
Fluroxypyr	µg/L		<10	<10	<10	<10	<10
Glyphosate	µg/L		<10	<10	<10	<10	<10
MCPA	µg/L		<10	<10	<10	<10	<10
MCPB	µg/L		<10	<10	<10	<10	<10
Mecoprop	µg/L		<10	<10	<10	<10	<10
Pricloram	µg/L		<10	<10	<10	<10	<10
Silvex (2.4.5-TP/Fenoprop)	µg/L		<10	<10	<10	<10	<10
Triclopyr	µg/L		<10	<10	<10	<10	<10

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Analysis Results - External Methods*		Sample ID	235306	235307	235308	235309	235310	235311	235312	235313	235314	235315	235316	235317
Area - EXTERNAL		Start Date	22/06/2023	22/06/2023	22/06/2023	22/06/2023	22/06/2023	22/06/2023	22/06/2023	22/06/2023	22/06/2023	22/06/2023	22/06/2023	22/06/2023
		Client ID	E11	E11 Filtered	E11 Filtered	E12	E12 Filtered	E12 Filtered	E13	E13 Filtered	E13 Filtered	E14	E14 Filtered	E14 Filtered
Analyte			Unfiltered	1	2	Unfiltered	1	2	Unfiltered	1	2	Unfiltered	1	2
Nitrite+Nitrate as N	mg/L		0.09		0.10	0.10		0.10	0.13		0.13	0.15		0.15
Reactive Phosphorus as P	mg/L			0.07			0.08			0.08			0.07	
Total Kjeldahl Nitrogen as N	mg/L		1.5		1.0	1.7		1.1	1.6		1.0	1.7		0.9
Total Nitrogen as N	mg/L		1.6		1.1	1.8		1.2	1.7		1.1	1.8		1.0
Total Phosphorus as P	mg/L		0.28		0.13	0.27		0.14	0.31		0.16	0.29		0.14

Analysis Results - External Methods*		Sample ID	235318	235319	235320
Area - EXTERNAL		Start Date	22/06/2023	22/06/2023	22/06/2023
		Client ID	E15	E15 Filtered	E15 Filtered
Analyte			Unfiltered	1	2
Nitrite+Nitrate as N	mg/L		0.15		0.15
Reactive Phosphorus as P	mg/L			0.07	
Total Kjeldahl Nitrogen as N	mg/L		1.8		1.2
Total Nitrogen as N	mg/L		2.0		1.4
Total Phosphorus as P	mg/L		0.29		0.13

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Analysis Results - ICVAASW

Area - INORGANIC

Analyte

		234536	234540	234544	234548	234552
		19/06/2023	19/06/2023	19/06/2023	19/06/2023	19/06/2023
		E12	E15	E14	E13	E11
Mercury	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05

Analysis Results - ICPAES

Area - INORGANIC

Analyte

		234536	234540	234544	234548	234552
		5/06/2023	5/06/2023	5/06/2023	5/06/2023	5/06/2023
		E12	E15	E14	E13	E11
Aluminium (Lab. filtered)	mg/L	<0.04	<0.04	<0.04	<0.04	<0.04
Barium (Lab. filtered)	mg/L	0.11	0.11	0.11	0.11	0.11
Boron (Lab. filtered)	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Calcium (Lab. filtered)	mg/L	34	35	34	34	33
Iron (Lab. filtered)	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Magnesium (Lab. filtered)	mg/L	16	17	16	16	15
Potassium (Lab. filtered)	mg/L	12	12	12	12	12
Sodium (Lab. filtered)	mg/L	44	45	45	44	44
Strontium (Lab. filtered)	mg/L	0.36	0.39	0.37	0.37	0.36
Sulfur (Lab. filtered)	mg/L	2.9	3.0	2.8	2.9	2.8
Titanium (Lab. filtered)	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01

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Analysis Results - ICPMS

Area - INORGANIC

	<i>Sample ID</i>	234536	234540	234544	234548	234552
	<i>Start Date</i>	5/06/2023	5/06/2023	5/06/2023	5/06/2023	5/06/2023
	<i>Client ID</i>	E12	E15	E14	E13	E11
<i>Analyte</i>						
Antimony (Lab. filtered)	mg/L	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Arsenic (Lab. filtered)	mg/L	0.005	0.004	0.005	0.005	0.005
Beryllium (Lab. filtered)	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Cadmium (Lab. filtered)	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Chromium (Lab. filtered)	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Cobalt (Lab. filtered)	mg/L	0.0003	0.0003	0.0003	0.0002	0.0003
Copper (Lab. filtered)	mg/L	0.0019	0.0019	0.0019	0.0022	0.0021
Lead (Lab. filtered)	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Lithium (Lab. filtered)	mg/L	0.0020	0.0021	0.0020	0.0020	0.0019
Manganese (Lab. filtered)	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Molybdenum (Lab. filtered)	mg/L	0.0013	0.0013	0.0013	0.0013	0.0014
Nickel (Lab. filtered)	mg/L	0.0033	0.0032	0.0035	0.0034	0.0033
Selenium (Lab. filtered)	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005
Silver (Lab. filtered)	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Thallium (Lab. filtered)	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Tin (Lab. filtered)	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Vanadium (Lab. filtered)	mg/L	0.011	0.010	0.011	0.011	0.011
Zinc (Lab. filtered)	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001

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Analysis Results - ICPAES

Area - INORGANIC

<i>Sample ID</i>	<i>Start Date</i>	<i>Client ID</i>	234536	234540	234544	234548	234552
			5/06/2023	5/06/2023	5/06/2023	5/06/2023	5/06/2023
			E12	E15	E14	E13	E11

<i>Analyte</i>		234536	234540	234544	234548	234552
Aluminium (acid extractable)	mg/L	6.4	5.5	6.4	7.3	6.0
Barium (acid extractable)	mg/L	0.14	0.14	0.14	0.14	0.14
Boron (acid extractable)	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Calcium (acid extractable)	mg/L	36	36	37	36	36
Iron (acid extractable)	mg/L	5.0	4.2	4.9	5.7	4.6
Magnesium (acid extractable)	mg/L	17	18	18	17	17
Manganese (acid extractable)	mg/L	0.15	0.11	0.13	0.16	0.15
Potassium (acid extractable)	mg/L	13	13	13	13	13
Sodium (acid extractable)	mg/L	45	47	46	45	46
Strontium (acid extractable)	mg/L	0.39	0.40	0.41	0.40	0.39
Sulfur (acid extractable)	mg/L	3.1	3.0	3.0	3.1	3.0
Titanium (acid extractable)	mg/L	0.08	0.07	0.08	0.09	0.08

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Analysis Results - ICPMS

Area - INORGANIC

Sample ID	234536	234540	234544	234548	234552
Start Date	5/06/2023	5/06/2023	5/06/2023	5/06/2023	5/06/2023
Client ID	E12	E15	E14	E13	E11

Analyte		234536	234540	234544	234548	234552
		5/06/2023	5/06/2023	5/06/2023	5/06/2023	5/06/2023
		E12	E15	E14	E13	E11
Antimony (acid extractable)	mg/L	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Arsenic (acid extractable)	mg/L	0.005	0.005	0.005	0.006	0.005
Beryllium (acid extractable)	mg/L	0.0002	0.0001	0.0002	0.0002	0.0002
Cadmium (acid extractable)	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Chromium (acid extractable)	mg/L	0.006	0.005	0.006	0.007	0.006
Cobalt (acid extractable)	mg/L	0.0024	0.0020	0.0024	0.0027	0.0023
Copper (acid extractable)	mg/L	0.0055	0.0051	0.0053	0.0066	0.0055
Lead (acid extractable)	mg/L	0.0020	0.0019	0.0021	0.0024	0.0019
Lithium (acid extractable)	mg/L	0.0036	0.0034	0.0036	0.0040	0.0035
Molybdenum (acid extractable)	mg/L	0.0013	0.0013	0.0013	0.0013	0.0014
Nickel (acid extractable)	mg/L	0.0074	0.0068	0.0073	0.0082	0.0072
Selenium (acid extractable)	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005
Silver (acid extractable)	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Thallium (acid extractable)	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Tin (acid extractable)	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Vanadium (acid extractable)	mg/L	0.022	0.020	0.021	0.023	0.022
Zinc (acid extractable)	mg/L	0.010	0.009	0.010	0.013	0.010

Analysis Results - IGRSS

Area - INORGANIC

Sample ID	234561	234562	234563	234564	234565
Start Date	8/06/2023	8/06/2023	8/06/2023	12/07/2023	12/07/2023
Client ID	E12	E15	E14	E13	E11

Analyte		234561	234562	234563	234564	234565
		8/06/2023	8/06/2023	8/06/2023	12/07/2023	12/07/2023
		E12	E15	E14	E13	E11
Fixed Suspended Solids	mg/L	93	110	120	61	100
Total Suspended Solids	mg/L	110	130	140	85	120
Volatile Suspended Solids	mg/L	14	21	20	24	21

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Analysis Results - QQPEST

Area - ORGANIC

Sample ID	Start Date	Client ID	234529 6/06/2023 E12	234530 6/06/2023 E15	234531 6/06/2023 E14	234532 6/06/2023 E13	234533 6/06/2023 E11
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Analyte		234529 6/06/2023 E12	234530 6/06/2023 E15	234531 6/06/2023 E14	234532 6/06/2023 E13	234533 6/06/2023 E11
Aldrin	µg/L	<0.3	<0.3	<0.3	<0.3	<0.3
Allethrin	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Alpha-Chlordane	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4
alpha-HCH	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4
Ametryn	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Atraton	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Atrazine	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
beta-HCH	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Bifenthrin	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Bioresmethrin	µg/L	<0.3	<0.3	<0.3	<0.3	<0.3
Carbophenothion	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorpyrifos	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4
Cis-permethrin	µg/L	<0.3	<0.3	<0.3	<0.3	<0.3
Crotoxyphos	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Cyfluthrin	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Cypermethrin	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
delta-HCH	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Deltamethrin	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorvos	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4
Dieldrin	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Endosulfan II	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Endosulfan I	µg/L	<0.9	<0.9	<0.9	<0.9	<0.9
Endosulfan Sulfate	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Endrin Aldehyde	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Endrin Ketone	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Endrin	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Fenamiphos	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Fenthion	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4

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Analysis Results - QQPEST

Area - ORGANIC

Analyte

	<i>Sample ID</i>	234529	234530	234531	234532	234533
	<i>Start Date</i>	6/06/2023	6/06/2023	6/06/2023	6/06/2023	6/06/2023
	<i>Client ID</i>	E12	E15	E14	E13	E11
Fenvalerate	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Gamma-Chlordane	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4
gamma-HCH	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4
Heptachlor Epoxide	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Heptachlor	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4
Hexachlorobenzene	µg/L	<0.3	<0.3	<0.3	<0.3	<0.3
Hexazinone	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
L-cyhalothrin	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Malathion	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Methidathion	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Methyl Azinphos	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4
Methyl Chlorpyrifos	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4
Methyl Parathion	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Mevinphos	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4
Oxyfluorfen	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Parathion	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Phorate	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4
Profenofos	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Prometon	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Prometryn	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Propargite	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Propazine	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Propetamphos	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Simazine	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Simetryn	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Sulprofos	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4
Tebuconazole	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Tebuthiuron	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Terbutylazine	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Terbutryn	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachlorvinphos	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Trans-permethrin	µg/L	<0.7	<0.7	<0.7	<0.7	<0.7

Tests not covered by NATA accreditation 3040 are denoted with *

Codes: SN = Sample Note

RN = Result Note

RC = Project Comment



Area - ORGANIC

Sample ID	Client ID	Method	Start Date	Result
234529	E12	OLCSCAN* - LC/MS Scan	05/06/2023	LC/MS scan for approximately 600 pesticides was negative. A list of analysed compounds can be provided on request . Note the list doesn't include glyphosate and quaternary ammonium herbicides (e.g. Paraquat and Diquat).
234530	E15	OLCSCAN* - LC/MS Scan	05/06/2023	LC/MS scan for approximately 600 pesticides was negative. A list of analysed compounds can be provided on request . Note the list doesn't include glyphosate and quaternary ammonium herbicides (e.g. Paraquat and Diquat).
234531	E14	OLCSCAN* - LC/MS Scan	05/06/2023	LC/MS scan for approximately 600 pesticides was negative. A list of analysed compounds can be provided on request . Note the list doesn't include glyphosate and quaternary ammonium herbicides (e.g. Paraquat and Diquat).
234532	E13	OLCSCAN* - LC/MS Scan	05/06/2023	LC/MS scan for approximately 600 pesticides was negative. A list of analysed compounds can be provided on request . Note the list doesn't include glyphosate and quaternary ammonium herbicides (e.g. Paraquat and Diquat).
234533	E11	OLCSCAN* - LC/MS Scan	05/06/2023	LC/MS scan for approximately 600 pesticides was negative. A list of analysed compounds can be provided on request . Note the list doesn't include glyphosate and quaternary ammonium herbicides (e.g. Paraquat and Diquat).

The sample(s) referred to in this report were analysed by the following method(s):

Method code	Method description	Area
External Methods*	External Methods - Analysis completed externally	EXTERNAL
External Methods*	External Methods - Analysis completed externally	EXTERNAL
External Methods*	External Methods - Analysis completed externally	EXTERNAL
ICVAASW	Mercury by Cold Vapour Atomic Absorption Spectroscopy	INORGANIC
ICPAES	Dissolved element analysis by Inductively Coupled Plasma-Atomic Emission Spectrometry (ICPAES)	INORGANIC
ICPMS	Dissolved Metals by Inductively Coupled Plasma Mass Spectrometry (ICP-MS)	INORGANIC
ICPAES	Acid extractable element analysis by Inductively Coupled Plasma-Atomic Emission Spectrometry (ICPAES)	INORGANIC
ICPMS	Acid extractable Metals by Inductively Coupled Plasma Mass Spectrometry (ICP-MS)	INORGANIC
IGRTSS	Total Suspended Solids (TSS) (includes Volatile and Fixed Suspended Solids)	INORGANIC
QQQPEST	Determination of Multiresidue Pesticides by GCMSMS	ORGANIC
OLCSCAN*	Qualitative LC/MS scan	ORGANIC

The results in this report were authorised by:

Name	Title	Area
██████████	Senior Scientist	EXTERNAL
██████████	Scientist	INORGANIC
██████████	Scientist	ORGANIC

Tests not covered by NATA accreditation 3040 are denoted with *

Codes: SN = Sample Note

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