



**Environmental Forensics Report of Analysis**  
**Project 20230175**

**Report #:** 1703  
**Date Issued:** 06-Jul-2023  
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**Client Project Reference: Menindee Fish Kill - 28 (18 May 202**

Customer: Department of Planning & Environment

Attention: [REDACTED]

Report Date: 06 July 2023

Project Received: 19 May 2023

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



**The following samples were analysed:**

Sample ID	Client ID	Sample Type	Client Sampled Date/Time	Aliquot
233898	E11	Liquid	18/05/2023 2:30PM	
233903	E11	Liquid	18/05/2023 2:30PM	Field Aliquot
233908	E11	Liquid	18/05/2023 2:30PM	Field Aliquot
233913	E11	Liquid	18/05/2023 2:30PM	Field Aliquot
233918	E11	Liquid	18/05/2023 2:30PM	Field Aliquot
233923	E11	Liquid	18/05/2023 2:30PM	Field Aliquot
233928	E11	Liquid	18/05/2023 2:30PM	Field Aliquot
233929	E11	Liquid	18/05/2023 2:30PM	Field Aliquot
233930	E11	Liquid	18/05/2023 2:30PM	Field Aliquot
233899	E12	Liquid	18/05/2023 9:30AM	
233904	E12	Liquid	18/05/2023 9:30AM	Field Aliquot
233909	E12	Liquid	18/05/2023 9:30AM	Field Aliquot
233914	E12	Liquid	18/05/2023 9:30AM	Field Aliquot
233919	E12	Liquid	18/05/2023 9:30AM	Field Aliquot
233924	E12	Liquid	18/05/2023 9:30AM	Field Aliquot
233931	E12	Liquid	18/05/2023 9:30AM	Field Aliquot
233932	E12	Liquid	18/05/2023 9:30AM	Field Aliquot
233933	E12	Liquid	18/05/2023 9:30AM	Field Aliquot
233900	E13	Liquid	18/05/2023 12:40PM	
233905	E13	Liquid	18/05/2023 12:40PM	Field Aliquot
233910	E13	Liquid	18/05/2023 12:40PM	Field Aliquot
233915	E13	Liquid	18/05/2023 12:40PM	Field Aliquot
233920	E13	Liquid	18/05/2023 12:40PM	Field Aliquot
233925	E13	Liquid	18/05/2023 12:40PM	Field Aliquot
233934	E13	Liquid	18/05/2023 12:40PM	Field Aliquot
233935	E13	Liquid	18/05/2023 12:40PM	Field Aliquot
233936	E13	Liquid	18/05/2023 12:40PM	Field Aliquot
233901	E14	Liquid	18/05/2023 11:40AM	
233906	E14	Liquid	18/05/2023 11:40AM	Field Aliquot

Tests not covered by NATA accreditation 3040 are denoted with \*

Codes: SN = Sample Note

RN = Result Note

RC = Project Comment



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233911	E14	Liquid	18/05/2023	11:40AM	Field Aliquot
233916	E14	Liquid	18/05/2023	11:40AM	Field Aliquot
233921	E14	Liquid	18/05/2023	11:40AM	Field Aliquot
233926	E14	Liquid	18/05/2023	11:40AM	Field Aliquot
233937	E14	Liquid	18/05/2023	11:40AM	Field Aliquot
233938	E14	Liquid	18/05/2023	11:40AM	Field Aliquot
233939	E14	Liquid	18/05/2023	11:40AM	Field Aliquot
233902	E15	Liquid	18/05/2023	10:40AM	
233907	E15	Liquid	18/05/2023	10:40AM	Field Aliquot
233912	E15	Liquid	18/05/2023	10:40AM	Field Aliquot
233917	E15	Liquid	18/05/2023	10:40AM	Field Aliquot
233922	E15	Liquid	18/05/2023	10:40AM	Field Aliquot
233927	E15	Liquid	18/05/2023	10:40AM	Field Aliquot
233940	E15	Liquid	18/05/2023	10:40AM	Field Aliquot
233941	E15	Liquid	18/05/2023	10:40AM	Field Aliquot
233942	E15	Liquid	18/05/2023	10:40AM	Field Aliquot

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#### 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 233928 to 233942 were sent to ALS Environmental Laboratory (NATA Accreditation no: 825) for the analysis of Nutrients: EK055G - Ammonia as N by Discrete Analyser, EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser, EK061F - Filtered Total Kjeldahl Nitrogen as N (TKN), EK061G - Total Kjeldahl Nitrogen By Discrete Analyser, EK062F- Filtered Total Nitrogen as N, EK062G - Total Nitrogen as N (TKN + NOx) by Discrete Analyser, EK067FG - Filtered Total Phosphorus as P 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: ES2317065, dated 30-May-2023.

Samples 233898 to 233902 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: ES2317065, dated 30-May-2023.

·Samples 233918 to 233922 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. 285930 dated 9 June 2023.

Samples 233908 to 233912 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: 285930 dated 9 June 2023, which gives Algal Toxins analysis results and the Blue-Green Algal ID and Enumeration summary results.



**Analysis Results - External Methods\***

**Area - EXTERNAL**

		Sample ID	233908	233918	233909	233919	233910	233920	233911	233921	233912	233922
		Start Date	29/05/2023	7/06/2023	29/05/2023	7/06/2023	29/05/2023	7/06/2023	29/05/2023	7/06/2023	29/05/2023	7/06/2023
		Client ID	E11	E11	E12	E12	E13	E13	E14	E14	E15	E15
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	233898	233899	233900	233901	233902
		Start Date	23/05/2023	23/05/2023	23/05/2023	23/05/2023	23/05/2023
		Client ID	E11	E12	E13	E14	E15
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
Picloram	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\***

**Area - EXTERNAL**

Analyte	mg/L	Sample ID	233928	233929	233930	233931	233932	233933	233934	233935	233936	233937	233938	233939
		Start Date	23/05/2023	23/05/2023	23/05/2023	23/05/2023	23/05/2023	23/05/2023	23/05/2023	23/05/2023	23/05/2023	23/05/2023	23/05/2023	23/05/2023
Client ID		E11 Filtered	E11 Filtered	E11 Unfiltered	E12 Filtered	E12 Filtered	E12 Unfiltered	E13 Filtered	E13 Filtered	E13 Unfiltered	E14 Filtered	E14 Filtered	E14 Unfiltered	
^ Filtered Total Nitrogen as N			1.0			0.9			0.9			0.9		
^ Total Nitrogen as N				1.4			1.5			1.7				1.6
Ammonia as N		0.03			0.04			0.03			0.01			
Dissolved TKN as N			0.9			0.8			0.8			0.8		
Filtered Total Phosphorus as P			0.14			0.13			0.14			0.12		
Nitrite+Nitrate as N		0.06	0.06	0.06	0.09	0.12	0.08	0.11	0.11	0.10	0.05	0.06	0.04	
Reactive Phosphorus as P		0.13			0.12			0.13			0.10			
Total Kjeldahl Nitrogen as N				1.3			1.4			1.6				1.6
Total Phosphorus as P				0.24			0.29			0.29				0.29

**Analysis Results - External Methods\***

**Area - EXTERNAL**

Analyte	mg/L	Sample ID	233940	233941	233942
		Start Date	23/05/2023	23/05/2023	23/05/2023
Client ID		E15 Filtered	E15 Filtered	E15 Unfiltered	
^ Filtered Total Nitrogen as N			0.9		
^ Total Nitrogen as N					1.6
Ammonia as N		0.01			
Dissolved TKN as N			0.8		
Filtered Total Phosphorus as P			0.12		
Nitrite+Nitrate as N		0.10	0.10	0.09	
Reactive Phosphorus as P		0.10			
Total Kjeldahl Nitrogen as N				1.5	
Total Phosphorus as P				0.25	

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**Analysis Results - ICVAASW**

**Area - INORGANIC**

**Analyte**

		233913	233914	233915	233916	233917
		30/05/2023	30/05/2023	30/05/2023	30/05/2023	30/05/2023
		E11	E12	E13	E14	E15
Mercury	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05

**Analysis Results - ICPAES**

**Area - INORGANIC**

**Analyte**

		233913	233914	233915	233916	233917
		22/05/2023	22/05/2023	22/05/2023	22/05/2023	22/05/2023
		E11	E12	E13	E14	E15
Aluminium (Lab. filtered)	mg/L	<0.04	<0.04	<0.04	<0.04	<0.04
Barium (Lab. filtered)	mg/L	0.11	0.10	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	33	32	31	33	33
Iron (Lab. filtered)	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Magnesium (Lab. filtered)	mg/L	16	16	15	17	17
Potassium (Lab. filtered)	mg/L	12	12	12	12	12
Sodium (Lab. filtered)	mg/L	44	44	44	46	46
Strontium (Lab. filtered)	mg/L	0.36	0.36	0.34	0.36	0.37
Sulfur (Lab. filtered)	mg/L	3.2	3.1	3.1	3.1	3.1
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>	<i>233913</i>	<i>233914</i>	<i>233915</i>	<i>233916</i>	<i>233917</i>
<i>Start Date</i>	22/05/2023	22/05/2023	22/05/2023	22/05/2023	22/05/2023
<i>Client ID</i>	E11	E12	E13	E14	E15

<i>Analyte</i>					
Antimony (Lab. filtered)	mg/L	<0.0005	<0.0005	<0.0005	<0.0005
Arsenic (Lab. filtered)	mg/L	0.004	0.005	0.004	0.004
Beryllium (Lab. filtered)	mg/L	<0.0001	<0.0001	<0.0001	<0.0001
Cadmium (Lab. filtered)	mg/L	<0.0001	<0.0001	<0.0001	<0.0001
Chromium (Lab. filtered)	mg/L	<0.001	<0.001	<0.001	<0.001
Cobalt (Lab. filtered)	mg/L	0.0003	0.0003	0.0002	0.0002
Copper (Lab. filtered)	mg/L	0.0020	0.0019	0.0019	0.0016
Lead (Lab. filtered)	mg/L	<0.0001	<0.0001	<0.0001	<0.0001
Lithium (Lab. filtered)	mg/L	0.0019	0.0019	0.0018	0.0019
Manganese (Lab. filtered)	mg/L	<0.001	<0.001	<0.001	<0.001
Molybdenum (Lab. filtered)	mg/L	0.0013	0.0012	0.0012	0.0012
Nickel (Lab. filtered)	mg/L	0.0032	0.0032	0.0033	0.0030
Selenium (Lab. filtered)	mg/L	<0.005	<0.005	<0.005	<0.005
Silver (Lab. filtered)	mg/L	<0.0001	<0.0001	<0.0001	<0.0001
Thallium (Lab. filtered)	mg/L	<0.0001	<0.0001	<0.0001	<0.0001
Tin (Lab. filtered)	mg/L	<0.0002	<0.0002	<0.0002	<0.0002
Vanadium (Lab. filtered)	mg/L	0.012	0.011	0.011	0.0099
Zinc (Lab. filtered)	mg/L	<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>
233913	22/05/2023	E11
233914	22/05/2023	E12
233915	22/05/2023	E13
233916	22/05/2023	E14
233917	22/05/2023	E15

<i>Analyte</i>		233913	233914	233915	233916	233917
Aluminium (acid extractable)	mg/L	5.2	5.5	5.5	4.7	4.8
Barium (acid extractable)	mg/L	0.13	0.13	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	34	34	35	35	35
Iron (acid extractable)	mg/L	4.3	4.8	4.8	4.0	4.1
Magnesium (acid extractable)	mg/L	18	18	18	19	19
Manganese (acid extractable)	mg/L	0.14	0.14	0.13	0.13	0.12
Potassium (acid extractable)	mg/L	14	14	14	14	14
Sodium (acid extractable)	mg/L	47	46	47	48	49
Strontium (acid extractable)	mg/L	0.39	0.39	0.39	0.40	0.40
Sulfur (acid extractable)	mg/L	3.3	3.2	3.3	3.3	3.4
Titanium (acid extractable)	mg/L	0.08	0.08	0.08	0.06	0.07

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**Analysis Results - ICPMS**

**Area - INORGANIC**

<i>Sample ID</i>	<i>Start Date</i>	<i>Client ID</i>	233913	233914	233915	233916	233917
			22/05/2023	22/05/2023	22/05/2023	22/05/2023	22/05/2023
			E11	E12	E13	E14	E15

<i>Analyte</i>						
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	0.005	0.005
Beryllium (acid extractable)	mg/L	0.0001	0.0001	0.0001	0.0001	0.0001
Cadmium (acid extractable)	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Chromium (acid extractable)	mg/L	0.005	0.005	0.005	0.004	0.004
Cobalt (acid extractable)	mg/L	0.0020	0.0021	0.0023	0.0020	0.0019
Copper (acid extractable)	mg/L	0.0045	0.0046	0.0049	0.0042	0.0042
Lead (acid extractable)	mg/L	0.0012	0.0012	0.0013	0.0012	0.0012
Lithium (acid extractable)	mg/L	0.0030	0.0030	0.0031	0.0029	0.0029
Molybdenum (acid extractable)	mg/L	0.0013	0.0012	0.0012	0.0012	0.0012
Nickel (acid extractable)	mg/L	0.0064	0.0064	0.0066	0.0062	0.0063
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	0.020	0.020	0.020	0.019	0.019
Zinc (acid extractable)	mg/L	0.008	0.008	0.009	0.007	0.008

**Analysis Results - IGRSS**

**Area - INORGANIC**

<i>Sample ID</i>	<i>Start Date</i>	<i>Client ID</i>	233923	233924	233925	233926	233927
			23/05/2023	23/05/2023	23/05/2023	23/05/2023	23/05/2023
			E11	E12	E13	E14	E15

<i>Analyte</i>						
Fixed Suspended Solids	mg/L	68	45	64	58	64
Total Suspended Solids	mg/L	81	53	76	71	77
Volatile Suspended Solids	mg/L	13	8	12	13	14

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Analysis Results - QQPEST

Area - ORGANIC

Sample ID	Start Date	Client ID	233903 23/05/2023 E11	233904 23/05/2023 E12	233905 23/05/2023 E13	233906 23/05/2023 E14	233907 23/05/2023 E15
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Analyte		233903 23/05/2023 E11	233904 23/05/2023 E12	233905 23/05/2023 E13	233906 23/05/2023 E14	233907 23/05/2023 E15
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

Sample ID	233903	233904	233905	233906	233907
Start Date	23/05/2023	23/05/2023	23/05/2023	23/05/2023	23/05/2023
Client ID	E11	E12	E13	E14	E15

Analyte		233903	233904	233905	233906	233907
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
233903	E11	OLCSCAN* - LC/MS Scan	26/05/2023	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).
233904	E12	OLCSCAN* - LC/MS Scan	26/05/2023	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).
233905	E13	OLCSCAN* - LC/MS Scan	26/05/2023	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).
233906	E14	OLCSCAN* - LC/MS Scan	26/05/2023	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).
233907	E15	OLCSCAN* - LC/MS Scan	26/05/2023	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

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Codes: SN = Sample Note

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