



Environmental Forensics Report of Analysis

Project 20230143

Report #: 1647

Date Issued: 24-May-2023

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Client Project Reference: Menindee Fish Kill - 14 (30 April 202

Customer: Department of Planning & Environment

Attention: [Redacted]

Report Date: 24 May 2023

Project Received: 02 May 2023

EF Project Contact:

[Redacted]

[Redacted]

[Redacted]

The following samples were analysed:

Sample ID	Client ID	Sample Type	Client Sampled Date/Time	Aliquot
232824	E1	Liquid	30/04/2023 12:05PM	
232832	E1	Liquid	30/04/2023 12:05PM	Field Aliquot
232840	E1	Liquid	30/04/2023 12:05PM	Field Aliquot
232848	E1	Liquid	30/04/2023 12:05PM	Field Aliquot
232856	E1	Liquid	30/04/2023 12:05PM	Laboratory Aliquot
232825	E2	Liquid	30/04/2023 12:45PM	
232833	E2	Liquid	30/04/2023 12:45PM	Field Aliquot
232841	E2	Liquid	30/04/2023 12:45PM	Field Aliquot
232849	E2	Liquid	30/04/2023 12:45PM	Field Aliquot
232857	E2	Liquid	30/04/2023 12:45PM	Laboratory Aliquot
232826	E3	Liquid	30/04/2023 1:45PM	
232834	E3	Liquid	30/04/2023 1:45PM	Field Aliquot
232842	E3	Liquid	30/04/2023 1:45PM	Field Aliquot
232850	E3	Liquid	30/04/2023 1:45PM	Field Aliquot
232858	E3	Liquid	30/04/2023 1:45PM	Laboratory Aliquot
232827	E4	Liquid	30/04/2023 2:00PM	
232835	E4	Liquid	30/04/2023 2:00PM	Field Aliquot
232843	E4	Liquid	30/04/2023 2:00PM	Field Aliquot
232851	E4	Liquid	30/04/2023 2:00PM	Field Aliquot
232859	E4	Liquid	30/04/2023 2:00PM	Laboratory Aliquot
232828	E5	Liquid	30/04/2023 3:00PM	
232836	E5	Liquid	30/04/2023 3:00PM	Field Aliquot
232844	E5	Liquid	30/04/2023 3:00PM	Field Aliquot
232852	E5	Liquid	30/04/2023 3:00PM	Field Aliquot
232860	E5	Liquid	30/04/2023 3:00PM	Laboratory Aliquot
232829	B1	Liquid	30/04/2023 10:45PM	
232837	B1	Liquid	30/04/2023 10:45PM	Field Aliquot
232845	B1	Liquid	30/04/2023 10:45PM	Field Aliquot
232853	B1	Liquid	30/04/2023 10:45PM	Field Aliquot

Tests not covered by NATA accreditation 3040 are denoted with *

Codes: SN = Sample Note

RC = Project Comment



232861	B1	Liquid	30/04/2023	10:45PM	Laboratory Aliquot
232830	B2	Liquid	30/04/2023	11:30PM	
232838	B2	Liquid	30/04/2023	11:30PM	Field Aliquot
232846	B2	Liquid	30/04/2023	11:30PM	Field Aliquot
232854	B2	Liquid	30/04/2023	11:30PM	Field Aliquot
232862	B2	Liquid	30/04/2023	11:30PM	Laboratory Aliquot
232831	B3	Liquid	30/04/2023	2:25PM	
232839	B3	Liquid	30/04/2023	2:25PM	Field Aliquot
232847	B3	Liquid	30/04/2023	2:25PM	Field Aliquot
232855	B3	Liquid	30/04/2023	2:25PM	Field Aliquot
232863	B3	Liquid	30/04/2023	2:25PM	Laboratory Aliquot
233050	E1 MFK-Z-1_20230430	Liquid	30/04/2023		
233051	E2 MFK-Z-2_20230430	Liquid	30/04/2023		
233052	E3 MFK-Z-3_20230430	Liquid	30/04/2023		
233053	B1 MFK-Z-17_20230430	Liquid	30/04/2023		
233054	B2 MFK-Z-18_20230430	Liquid	30/04/2023		

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.
- Solid samples are reported on a dry weight basis and biota samples are reported on an as received basis unless specified otherwise.

Project Comments

- Samples 232824, 232825, 232826, 232827, 232828, 232829, 232830, 232831 were sent to ALS Environmental Laboratory (NATA Accreditation no: 825) for the analysis of EK055G: Ammonia as N by Discrete Analyser, EK057G: Nitrite as N by Discrete Analyser, EK058G: Nitrate as N by Discrete Analyser, EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser, EK061G: Total Kjeldahl Nitrogen By Discrete Analyser, EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser, EK067G: Total Phosphorus as P by Discrete Analyser, EK071G: Reactive Phosphorus as P by discrete analyser, EP202A: Phenoxyacetic Acid Herbicides by LCMS, EP202S: Phenoxyacetic Acid Herbicide Surrogate, EP204: Glyphosate and AMPA. This report summarises data from the attached external report: ES2314517, dated 10-May-2023.
- Samples 232840 to 232847 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. 284807 dated 19 May 2023.
- Samples 232856 to 232863 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: 284807 dated 19 May 2023, which gives Algal Toxins analysis results and the Blue-Green Algal ID and Enumeration summary results.
- Samples 233050 to 233054 were analysed outside the method holding time for TSS analysis.

Analysis Results - External Methods*

Area - EXTERNAL

Analyte	Sample ID	Start Date	Client ID	RC	RC	RC	RC	RC	RC	RC	RC	RC	RC	RC	RC	RC	RC
Algal Enumeration	-			RC													
Algal Identification	-			RC													
Algal Toxins	-				RC												

Analysis Results - External Methods*

Area - EXTERNAL

Analyte	Sample ID	Start Date	Client ID	RC	RC	RC	RC	RC	RC	RC	RC	RC	RC	RC	RC	RC	RC
Algal Enumeration	-			RC													
Algal Identification	-			RC													
Algal Toxins	-				RC												

Tests not covered by NATA accreditation 3040 are denoted with *
Codes: SN = Sample Note
RN = Result Note
RC = Project Comment

Analysis Results - External Methods*		Sample ID	232824	232825	232826	232827	232828	232829	232830	232831
Area - EXTERNAL		Start Date	3/05/2023	3/05/2023	3/05/2023	3/05/2023	3/05/2023	3/05/2023	3/05/2023	3/05/2023
Analyte	Client ID	E1	E2	E3	E4	E5	B1	B2	B3	
2,4,5-T	µg/L	<10	<10	<10	<10	<10	<10	<10	<10	<10
2,4,6-T	µg/L	<10	<10	<10	<10	<10	<10	<10	<10	<10
2,4-D	µg/L	<10	<10	<10	<10	<10	<10	<10	<10	<10
2,4-DB	µg/L	<10	<10	<10	<10	<10	<10	<10	<10	<10
2,4-DP	µg/L	<10	<10	<10	<10	<10	<10	<10	<10	<10
2,6-D	µg/L	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Chlorophenoxy acetic acid	µg/L	<10	<10	<10	<10	<10	<10	<10	<10	<10
Ammonia as N	mg/L	0.04	0.03	0.02	0.05	0.05	0.05	0.03	<0.01	<0.01
AMPA	µg/L	<10	<10	<10	<10	<10	<10	<10	<10	<10
Clopyralid	µg/L	<10	<10	<10	<10	<10	<10	<10	<10	<10
Dicamba	µg/L	<10	<10	<10	<10	<10	<10	<10	<10	<10
Fluroxypyr	µg/L	<10	<10	<10	<10	<10	<10	<10	<10	<10
Glyphosate	µg/L	<10	<10	<10	<10	<10	<10	<10	<10	<10
MCPA	µg/L	<10	<10	<10	<10	<10	<10	<10	<10	<10
MCPB	µg/L	<10	<10	<10	<10	<10	<10	<10	<10	<10
Mecoprop	µg/L	<10	<10	<10	<10	<10	<10	<10	<10	<10
Nitrate as N	mg/L	0.02	0.03	0.02	0.04	0.04	0.02	<0.01	<0.01	<0.01
Nitrite as N	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrite+Nitrate as N	mg/L	0.02	0.03	0.02	0.04	0.04	0.02	<0.01	<0.01	<0.01
Picloram	µg/L	<10	<10	<10	<10	<10	<10	<10	<10	<10
Reactive Phosphorus as P	mg/L	0.03	0.03	0.02	0.02	0.13	<0.01	0.03	0.22	0.22
Silvex (2,4,5-TP/Fenoprop)	µg/L	<10	<10	<10	<10	<10	<10	<10	<10	<10
Total Kjeldahl Nitrogen as N	mg/L	1.2	1.3	1.6	1.8	1.2	1.3	1.3	0.8	0.8
Total Nitrogen as N	mg/L	1.2	1.3	1.6	1.8	1.2	1.3	1.3	0.8	0.8
Total Phosphorus as P	mg/L	0.14	0.17	0.19	0.22	0.28	0.13	0.17	0.35	0.35
Triclopyr	µg/L	<10	<10	<10	<10	<10	<10	<10	<10	<10

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Analysis Results - ICVAASW
Area - INORGANIC

Analyte	Sample ID	Start Date	Client ID	µg/L
Mercury	232848	4/05/2023	E1	<0.05
	232849	4/05/2023	E2	<0.05
	232850	4/05/2023	E3	<0.05
	232851	4/05/2023	E4	<0.05
	232852	4/05/2023	E5	<0.05
	232853	4/05/2023	B1	<0.05
	232854	4/05/2023	B2	<0.05
	232855	4/05/2023	B3	<0.05

Analysis Results - ICPAES
Area - INORGANIC

Analyte	Sample ID	Start Date	Client ID	mg/L
Aluminium (Lab. filtered)	232848	3/05/2023	E1	<0.04
Barium (Lab. filtered)	232849	3/05/2023	E2	<0.04
Boron (Lab. filtered)	232850	3/05/2023	E3	<0.04
Calcium (Lab. filtered)	232851	3/05/2023	E4	<0.04
Iron (Lab. filtered)	232852	3/05/2023	E5	<0.04
Magnesium (Lab. filtered)	232853	3/05/2023	B1	<0.04
Potassium (Lab. filtered)	232854	3/05/2023	B2	<0.04
Sodium (Lab. filtered)	232855	3/05/2023	B3	<0.04
Strontium (Lab. filtered)	232848	3/05/2023	E1	0.13
Sulfur (Lab. filtered)	232849	3/05/2023	E2	0.13
Titanium (Lab. filtered)	232850	3/05/2023	E3	0.13
	232851	3/05/2023	E4	0.13
	232852	3/05/2023	E5	0.11
	232853	3/05/2023	B1	0.13
	232854	3/05/2023	B2	0.13
	232855	3/05/2023	B3	0.09
	232848	3/05/2023	E1	<0.1
	232849	3/05/2023	E2	<0.1
	232850	3/05/2023	E3	<0.1
	232851	3/05/2023	E4	<0.1
	232852	3/05/2023	E5	<0.1
	232853	3/05/2023	B1	<0.1
	232854	3/05/2023	B2	<0.1
	232855	3/05/2023	B3	<0.1
	232848	3/05/2023	E1	38
	232849	3/05/2023	E2	38
	232850	3/05/2023	E3	39
	232851	3/05/2023	E4	38
	232852	3/05/2023	E5	34
	232853	3/05/2023	B1	40
	232854	3/05/2023	B2	38
	232855	3/05/2023	B3	28
	232848	3/05/2023	E1	19
	232849	3/05/2023	E2	19
	232850	3/05/2023	E3	19
	232851	3/05/2023	E4	19
	232852	3/05/2023	E5	15
	232853	3/05/2023	B1	20
	232854	3/05/2023	B2	18
	232855	3/05/2023	B3	12
	232848	3/05/2023	E1	12
	232849	3/05/2023	E2	12
	232850	3/05/2023	E3	12
	232851	3/05/2023	E4	12
	232852	3/05/2023	E5	11
	232853	3/05/2023	B1	12
	232854	3/05/2023	B2	12
	232855	3/05/2023	B3	11
	232848	3/05/2023	E1	52
	232849	3/05/2023	E2	51
	232850	3/05/2023	E3	52
	232851	3/05/2023	E4	51
	232852	3/05/2023	E5	43
	232853	3/05/2023	B1	56
	232854	3/05/2023	B2	51
	232855	3/05/2023	B3	35
	232848	3/05/2023	E1	0.42
	232849	3/05/2023	E2	0.42
	232850	3/05/2023	E3	0.42
	232851	3/05/2023	E4	0.42
	232852	3/05/2023	E5	0.36
	232853	3/05/2023	B1	0.44
	232854	3/05/2023	B2	0.41
	232855	3/05/2023	B3	0.29
	232848	3/05/2023	E1	4.0
	232849	3/05/2023	E2	4.0
	232850	3/05/2023	E3	4.0
	232851	3/05/2023	E4	3.9
	232852	3/05/2023	E5	3.6
	232853	3/05/2023	B1	4.4
	232854	3/05/2023	B2	3.8
	232855	3/05/2023	B3	3.3
	232848	3/05/2023	E1	<0.01
	232849	3/05/2023	E2	<0.01
	232850	3/05/2023	E3	<0.01
	232851	3/05/2023	E4	<0.01
	232852	3/05/2023	E5	<0.01
	232853	3/05/2023	B1	<0.01
	232854	3/05/2023	B2	<0.01
	232855	3/05/2023	B3	<0.01

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Analysis Results - ICPMS
Area - INORGANIC

Analyte	Sample ID Start Date Client ID	232848 3/05/2023 E1	232849 3/05/2023 E2	232850 3/05/2023 E3	232851 3/05/2023 E4	232852 3/05/2023 E5	232853 3/05/2023 B1	232854 3/05/2023 B2	232855 3/05/2023 B3
Antimony (Lab. filtered)	mg/L	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Arsenic (Lab. filtered)	mg/L	0.002	0.002	0.002	0.002	0.004	0.002	0.002	0.006
Beryllium (Lab. filtered)	mg/L	<0.0001	<0.0001	<0.0001	<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	<0.0001	<0.0001	<0.0001
Chromium (Lab. filtered)	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cobalt (Lab. filtered)	mg/L	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0001
Copper (Lab. filtered)	mg/L	0.0013	0.0013	0.0011	0.0012	0.0019	0.0009	0.0014	0.0028
Lead (Lab. filtered)	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Lithium (Lab. filtered)	mg/L	0.0019	0.0019	0.0019	0.0019	0.0017	0.0019	0.0018	0.0015
Manganese (Lab. filtered)	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Molybdenum (Lab. filtered)	mg/L	0.0016	0.0016	0.0016	0.0016	0.0013	0.0016	0.0016	0.0010
Nickel (Lab. filtered)	mg/L	0.0029	0.0028	0.0028	0.0030	0.0027	0.0027	0.0029	0.0022
Selenium (Lab. filtered)	mg/L	<0.005	<0.005	<0.005	<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	<0.0001	<0.0001	<0.0001
Thallium (Lab. filtered)	mg/L	<0.0001	<0.0001	<0.0001	<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	<0.0002	<0.0002	<0.0002
Vanadium (Lab. filtered)	mg/L	0.0056	0.0054	0.0048	0.0050	0.011	0.0032	0.0059	0.019
Zinc (Lab. filtered)	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

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Analysis Results - ICPAES
Area - INORGANIC

Analyte	Sample ID	Start Date	Client ID	232848	232849	232850	232851	232852	232853	232854	232855
		3/05/2023	E1	E2	E3	E4	E5	B1	B2	B3	
Aluminium (acid extractable)		mg/L	2.9	2.7	2.1	2.4	5.7	1.5	3.4	8.4	
Barium (acid extractable)		mg/L	0.15	0.15	0.16	0.15	0.15	0.16	0.15	0.13	
Boron (acid extractable)		mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Calcium (acid extractable)		mg/L	40	39	40	40	36	41	39	30	
Iron (acid extractable)		mg/L	2.5	2.4	2.0	2.3	4.9	1.4	3.0	7.2	
Magnesium (acid extractable)		mg/L	20	20	20	20	17	21	20	14	
Manganese (acid extractable)		mg/L	0.14	0.14	0.13	0.14	0.11	0.15	0.15	0.07	
Potassium (acid extractable)		mg/L	13	13	13	13	13	12	13	13	
Sodium (acid extractable)		mg/L	54	53	55	54	45	58	53	36	
Strontium (acid extractable)		mg/L	0.44	0.43	0.45	0.45	0.39	0.46	0.44	0.32	
Sulfur (acid extractable)		mg/L	4.2	4.1	4.3	4.2	3.8	4.5	4.1	3.5	
Titanium (acid extractable)		mg/L	0.05	0.04	0.03	0.03	0.11	0.02	0.06	0.14	

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Analysis Results - ICPMS
Area - INORGANIC

Analyte	Sample ID Start Date Client / ID	232848 3/05/2023 E1	232849 3/05/2023 E2	232850 3/05/2023 E3	232851 3/05/2023 E4	232852 3/05/2023 E5	232853 3/05/2023 B1	232854 3/05/2023 B2	232855 3/05/2023 B3
Antimony (acid extractable)	mg/L	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Arsenic (acid extractable)	mg/L	0.003	0.003	0.003	0.003	0.005	0.002	0.003	0.006
Beryllium (acid extractable)	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	0.0002	<0.0001	0.0001	0.0002
Cadmium (acid extractable)	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Chromium (acid extractable)	mg/L	0.003	0.003	0.002	0.002	0.005	0.002	0.004	0.008
Cobalt (acid extractable)	mg/L	0.0015	0.0015	0.0014	0.0015	0.0019	0.0013	0.0017	0.0020
Copper (acid extractable)	mg/L	0.0029	0.0030	0.0025	0.0026	0.0047	0.0032	0.0033	0.0066
Lead (acid extractable)	mg/L	0.0009	0.0009	0.0009	0.0010	0.0013	0.0008	0.0010	0.0016
Lithium (acid extractable)	mg/L	0.0028	0.0028	0.0026	0.0026	0.0034	0.0025	0.0029	0.0041
Molybdenum (acid extractable)	mg/L	0.0016	0.0016	0.0016	0.0016	0.0013	0.0016	0.0016	0.0010
Nickel (acid extractable)	mg/L	0.0052	0.0051	0.0047	0.0051	0.0064	0.0040	0.0055	0.0075
Selenium (acid extractable)	mg/L	<0.005	<0.005	<0.005	<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	<0.0001	<0.0001	<0.0001
Thallium (acid extractable)	mg/L	<0.0001	<0.0001	<0.0001	<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	<0.0002	<0.0002	<0.0002
Vanadium (acid extractable)	mg/L	0.012	0.012	0.010	0.011	0.020	0.0080	0.013	0.030
Zinc (acid extractable)	mg/L	0.005	0.005	0.004	0.005	0.009	0.003	0.005	0.012

Analysis Results - IGR TSS
Area - INORGANIC

Analyte	Sample ID Start Date Client / ID	233050 11/05/2023 E1 MFK-Z-1 _20230430	233051 11/05/2023 E2 MFK-Z-2 _20230430	233052 12/05/2023 E3 MFK-Z-3 _20230430	233053 12/05/2023 B1 MFK-Z-1 7_20230430	233054 12/05/2023 B2 MFK-Z-1 8_20230430
Fixed Suspended Solids	mg/L	25	28	28	18	39
Total Suspended Solids	mg/L	35	38	40	27	51
Volatile Suspended Solids	mg/L	10	11	12	9	12

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Analysis Results - QQPEST
Area - ORGANIC

Analyte	Sample ID Start Date Client ID	232832 4/05/2023 E1	232833 4/05/2023 E2	232834 4/05/2023 E3	232835 4/05/2023 E4	232836 4/05/2023 E5	232837 4/05/2023 B1	232838 4/05/2023 B2	232839 4/05/2023 B3
Fenvalerate	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Gamma-Chlordane	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
gamma-HCH	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Heptachlor Epoxide	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Heptachlor	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Hexachlorobenzene	µg/L	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Hexazinone	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
L-cyhalothrin	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Malathion	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Methidathion	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Methyl Azinphos	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Methyl Chlorpyrifos	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Methyl Parathion	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Mevinphos	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Oxyfluorfen	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Parathion	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Phorate	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Profenofos	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Prometon	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Promethyn	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Propagite	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Propazine	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Propelamphos	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Simazine	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Simethyn	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Sulprofos	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Tebuconazole	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tebuthiuron	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Terbutylazine	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Terbutyn	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachlorvinphos	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trans-permethrin	µg/L	<0.7	<0.7	<0.7	<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
232832	E1	OLSCAN* - LC/MS Scan	08/05/2023	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).
232833	E2	OLSCAN* - LC/MS Scan	08/05/2023	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).
232834	E3	OLSCAN* - LC/MS Scan	08/05/2023	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).
232835	E4	OLSCAN* - LC/MS Scan	08/05/2023	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).
232836	E5	OLSCAN* - LC/MS Scan	08/05/2023	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).
232837	B1	OLSCAN* - LC/MS Scan	08/05/2023	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).
232838	B2	OLSCAN* - LC/MS Scan	08/05/2023	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).
232839	B3	OLSCAN* - LC/MS Scan	08/05/2023	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
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
OLSCAN*	Qualitative LC/MS scan	ORGANIC

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Project:

20230143

Report #:

1647

Date Issued:

24-May-2023

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The results in this report were authorised by:

Name	Title	Area
[REDACTED]	Senior Scientist	EXTERNAL
[REDACTED]	Scientist	INORGANIC
[REDACTED]	Scientist	ORGANIC

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