



**Environmental Forensics Report of Analysis**  
**Project 20230117**

**Report #:** 1609  
*Date Issued:* 25-Apr-2023  
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**Client Project Reference: Menindee Fish Kill 8**

Customer: Environmental Protection Agency

Attention: [Redacted]

Report Date: 25 April 2023

Project Received: 12 April 2023

EF Project Contact:

[Redacted]  
[Redacted]  
[Redacted]



**The following samples were analysed:**

Sample ID	Client ID	Sample Type	Client Sampled Date/Time	Aliquot
232236	Murray - Fort Courage	Liquid	11/04/2023 3:13PM	
232242	Murray - Fort Courage	Liquid	11/04/2023 3:13PM	Field Aliquot
232243	Murray - Fort Courage	Liquid	11/04/2023 3:13PM	Field Aliquot
232244	Murray - Fort Courage	Liquid	11/04/2023 3:13PM	Field Aliquot
232245	Murray - Fort Courage	Liquid	11/04/2023 3:13PM	Field Aliquot
232246	Murray - Fort Courage	Liquid	11/04/2023 3:13PM	Field Aliquot
232237	Murray - Merbein	Liquid	11/04/2023 9:29AM	
232247	Murray - Merbein	Liquid	11/04/2023 9:29AM	Field Aliquot
232248	Murray - Merbein	Liquid	11/04/2023 9:29AM	Field Aliquot
232249	Murray - Merbein	Liquid	11/04/2023 9:29AM	Field Aliquot
232250	Murray - Merbein	Liquid	11/04/2023 9:29AM	Field Aliquot
232251	Murray - Merbein	Liquid	11/04/2023 9:29AM	Field Aliquot
232238	Darling - Ellerslie	Liquid	11/04/2023 10:52AM	
232252	Darling - Ellerslie	Liquid	11/04/2023 10:52AM	Field Aliquot
232253	Darling - Ellerslie	Liquid	11/04/2023 10:52AM	Field Aliquot
232254	Darling - Ellerslie	Liquid	11/04/2023 10:52AM	Field Aliquot
232255	Darling - Ellerslie	Liquid	11/04/2023 10:52AM	Field Aliquot
232256	Darling - Ellerslie	Liquid	11/04/2023 10:52AM	Field Aliquot
232239	Darling - Burtundy	Liquid	11/04/2023 11:32AM	
232257	Darling - Burtundy	Liquid	11/04/2023 11:32AM	Field Aliquot
232258	Darling - Burtundy	Liquid	11/04/2023 11:32AM	Field Aliquot
232259	Darling - Burtundy	Liquid	11/04/2023 11:32AM	Field Aliquot
232260	Darling - Burtundy	Liquid	11/04/2023 11:32AM	Field Aliquot
232261	Darling - Burtundy	Liquid	11/04/2023 11:32AM	Field Aliquot
232240	Darling - Tapio	Liquid	11/04/2023 10:25AM	
232262	Darling - Tapio	Liquid	11/04/2023 10:25AM	Field Aliquot
232263	Darling - Tapio	Liquid	11/04/2023 10:25AM	Field Aliquot
232264	Darling - Tapio	Liquid	11/04/2023 10:25AM	Field Aliquot
232265	Darling - Tapio	Liquid	11/04/2023 10:25AM	Field Aliquot

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

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232266	Darling - Tapio	Liquid	11/04/2023	10:25AM	Field Aliquot
232241	GDA - Silver City Hwy	Liquid	11/04/2023	2:08PM	
232267	GDA - Silver City Hwy	Liquid	11/04/2023	2:08PM	Field Aliquot
232268	GDA - Silver City Hwy	Liquid	11/04/2023	2:08PM	Field Aliquot
232269	GDA - Silver City Hwy	Liquid	11/04/2023	2:08PM	Field Aliquot
232270	GDA - Silver City Hwy	Liquid	11/04/2023	2:08PM	Field Aliquot
232271	GDA - Silver City Hwy	Liquid	11/04/2023	2:08PM	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.
- 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 232242, 232247, 232252, 232257, 232262, 232267 were sent to ALS Environmental Laboratory (NATA Accreditation no: 825) for the analysis of EK055G: Ammonia 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, EP204: Glyphosate and AMPA. Samples 232244, 232249, 232254, 232259, 232264, 232269 were sent to ALS Environmental Laboratory (NATA Accreditation no: 825) for the analysis of MW006: Faecal Coliforms & E.coli by MF, MW023: Enterococci by Membrane Filtration. This report summarises data from the attached external report: ES2312060, dated 19-Apr-2023.

·Samples 232246, 232251, 232256, 232261, 232266 and 232271 were sent to Sydney Water (NATA Accreditation no: 610 and 63 ) for the analysis of Algal Enumeration, Algal Identification. Samples 232243, 232248, 232253, 232258, 232263 and 232268 were sent to Sydney Water (NATA Accreditation no: 610 and 63) for the analysis of Algal Toxins. Please see the attached Report No: 283368 dated 24 April 2023.

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<b>Analysis Results - External Methods*</b>		<i>Sample ID</i>	232243	232246	232248	232251	232253	232256	232258	232261	232263	232266	232268	232271
<b>Area - EXTERNAL</b>		<i>Start Date</i>	21/04/2023	21/04/2023	21/04/2023	21/04/2023	21/04/2023	21/04/2023	21/04/2023	21/04/2023	21/04/2023	21/04/2023	21/04/2023	21/04/2023
		<i>Client ID</i>	Murray - Fort	Murray - Fort	Murray - Merbein	Murry - Merbein	Darling - Ellerslie	Darling - Ellerslie	Darling - Burtundy	Darling - Burtundy	Darling - Tapio	Darling - Tapio	GDA - Silver City Hwy	GDA - Silver City Hwy
<i>Analyte</i>														
Algal Enumeration	-			RC		RC		RC		RC		RC		RC
Algal Identification	-			RC		RC		RC		RC		RC		RC
Algal Toxicity	-		RC		RC		RC		RC		RC		RC	

<b>Analysis Results - External Methods*</b>		<i>Sample ID</i>	232244	232249	232254	232259	232264	232269
<b>Area - EXTERNAL</b>		<i>Start Date</i>	13/04/2023	13/04/2023	13/04/2023	13/04/2023	13/04/2023	13/04/2023
		<i>Client ID</i>	Murray - Fort	Murray - Merbein	Darling - Ellerslie	Darling - Burtundy	Darling - Tapio	GDA - Silver City Hwy
<i>Analyte</i>								
Enterococci	cfu/100mL		56	30	120	~14	26	32
Escherichia coli	cfu/100mL		28	20	56	24	52	~2
Faecal Coliforms	cfu/100mL		38	48	56	30	52	~2

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**Analysis Results - External Methods\***

**Area - EXTERNAL**

*Analyte*

	<i>Sample ID</i>	<i>Start Date</i>	<i>Client ID</i>	232242	232247	232252	232257	232262	232267
				13/04/2023	13/04/2023	13/04/2023	13/04/2023	13/04/2023	13/04/2023
				Murray - Fort	Murray - Merbein	Darling - Ellerslie	Darling - Burtundy	Darling - Tapio	GDA - Silver City Hwy
2.4.5-T	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2.4.6-T	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2.4-D	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2.4-DB	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2.4-DP	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2.6-D	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4-Chlorophenoxy acetic acid	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Ammonia as N	mg/L	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Clopyralid	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dicamba	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Fluroxypyr	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Glyphosate	µg/L	<10	<10	<10	<10	<10	<10	<10	<10
MCPA	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MCPB	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Mecoprop	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrite+Nitrate as N	mg/L	0.08	0.11	0.68	0.57	0.73	<0.01	<0.01	<0.01
Picloram	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Reactive Phosphorus as P	mg/L	0.01	<0.01	0.12	0.12	0.15	<0.01	<0.01	<0.01
Silvex (2,4,5-TP/Fenoprop)	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total Kjeldahl Nitrogen as N	mg/L	2.0	0.8	1.6	1.6	1.4	2.3	2.3	2.3
Total Nitrogen as N	mg/L	2.1	0.9	2.3	2.2	2.1	2.3	2.3	2.3
Total Phosphorus as P	mg/L	0.25	0.06	0.48	0.31	0.34	0.17	0.17	0.17
Triclopyr	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

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**Analysis Results - ICVAASW**

**Area - INORGANIC**

		Sample ID	232245	232250	232255	232260	232265	232270
		Start Date	14/04/2023	14/04/2023	14/04/2023	14/04/2023	14/04/2023	14/04/2023
		Client ID	Murray - Fort	Murray - Merbein	Darling - Ellerslie	Darling - Burtundy	Darling - Tapio	GDA - Silver City Hwy
Analyte								
Mercury	µg/L		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

**Analysis Results - ICPAES**

**Area - INORGANIC**

		Sample ID	232245	232250	232255	232260	232265	232270
		Start Date	13/04/2023	13/04/2023	13/04/2023	13/04/2023	13/04/2023	13/04/2023
		Client ID	Murray - Fort	Murray - Merbein	Darling - Ellerslie	Darling - Burtundy	Darling - Tapio	GDA - Silver City Hwy
Analyte								
Aluminium (Lab. filtered)	mg/L		<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Barium (Lab. filtered)	mg/L		0.08	0.03	0.11	0.11	0.11	0.09
Boron (Lab. filtered)	mg/L		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Calcium (Lab. filtered)	mg/L		25	11	32	33	31	28
Iron (Lab. filtered)	mg/L		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Magnesium (Lab. filtered)	mg/L		14	8.4	14	14	14	16
Potassium (Lab. filtered)	mg/L		11	3.2	12	12	12	14
Sodium (Lab. filtered)	mg/L		47	32	41	42	41	51
Strontium (Lab. filtered)	mg/L		0.30	0.10	0.34	0.35	0.33	0.37
Sulfur (Lab. filtered)	mg/L		2.9	2.7	3.1	3.2	3.2	2.8
Titanium (Lab. filtered)	mg/L		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

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**Analysis Results - ICPMS**  
**Area - INORGANIC**

	<i>Sample ID</i>	232245	232250	232255	232260	232265	232270
	<i>Start Date</i>	13/04/2023	13/04/2023	13/04/2023	13/04/2023	13/04/2023	13/04/2023
	<i>Client ID</i>	Murray - Fort	Murray - Merbein	Darling - Ellerslie	Darling - Burtundy	Darling - Tapio	GDA - Silver City Hwy
<i>Analyte</i>							
Antimony (Lab. filtered)	mg/L	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Arsenic (Lab. filtered)	mg/L	0.004	<0.001	0.004	0.004	0.005	0.006
Beryllium (Lab. filtered)	mg/L	<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
Chromium (Lab. filtered)	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cobalt (Lab. filtered)	mg/L	0.0005	<0.0001	0.0002	0.0002	0.0002	0.0007
Copper (Lab. filtered)	mg/L	0.0012	0.0006	0.0019	0.0018	0.0022	0.0014
Lead (Lab. filtered)	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Lithium (Lab. filtered)	mg/L	0.0024	0.0018	0.0018	0.0018	0.0018	0.0027
Manganese (Lab. filtered)	mg/L	<0.001	<0.001	<0.001	<0.001	0.003	<0.001
Molybdenum (Lab. filtered)	mg/L	<0.0005	<0.0005	0.0005	0.0006	0.0011	0.0010
Nickel (Lab. filtered)	mg/L	0.0022	0.0007	0.0033	0.0031	0.0032	0.0024
Selenium (Lab. filtered)	mg/L	<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
Thallium (Lab. filtered)	mg/L	<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
Vanadium (Lab. filtered)	mg/L	0.0099	0.0004	0.013	0.013	0.014	0.016
Zinc (Lab. filtered)	mg/L	<0.001	<0.001	<0.001	<0.001	0.002	<0.001

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

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**Analysis Results - ICPAES**

**Area - INORGANIC**

	<i>Sample ID</i>	232245	232250	232255	232260	232265	232270
	<i>Start Date</i>	13/04/2023	13/04/2023	13/04/2023	13/04/2023	13/04/2023	13/04/2023
	<i>Client ID</i>	Murray - Fort	Murray - Merbein	Darling - Ellerslie	Darling - Burtundy	Darling - Tapio	GDA - Silver City Hwy
<i>Analyte</i>							
Aluminium (acid extractable)	mg/L	2.2	0.29	4.9	4.3	4.7	1.7
Barium (acid extractable)	mg/L	0.10	0.04	0.14	0.14	0.13	0.11
Boron (acid extractable)	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Calcium (acid extractable)	mg/L	27	12	34	35	34	29
Iron (acid extractable)	mg/L	1.9	0.4	4.9	4.3	4.7	1.6
Magnesium (acid extractable)	mg/L	15	8.6	15	15	15	17
Manganese (acid extractable)	mg/L	0.12	0.11	0.11	0.09	0.07	0.13
Potassium (acid extractable)	mg/L	12	3.4	13	13	13	14
Sodium (acid extractable)	mg/L	48	32	42	43	42	51
Strontium (acid extractable)	mg/L	0.32	0.10	0.36	0.37	0.35	0.39
Sulfur (acid extractable)	mg/L	3.1	2.7	3.1	3.3	3.2	2.9
Titanium (acid extractable)	mg/L	0.05	<0.01	0.02	0.02	0.02	0.01

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**Analysis Results - ICPMS**

**Area - INORGANIC**

	<i>Sample ID</i>	232245	232250	232255	232260	232265	232270
	<i>Start Date</i>	13/04/2023	13/04/2023	13/04/2023	13/04/2023	13/04/2023	13/04/2023
	<i>Client ID</i>	Murray - Fort	Murray - Merbein	Darling - Ellerslie	Darling - Burtundy	Darling - Tapio	GDA - Silver City Hwy
<i>Analyte</i>							
Antimony (acid extractable)	mg/L	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Arsenic (acid extractable)	mg/L	0.005	0.001	0.005	0.005	0.005	0.006
Beryllium (acid extractable)	mg/L	<0.0001	<0.0001	0.0002	0.0002	0.0002	<0.0001
Cadmium (acid extractable)	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Chromium (acid extractable)	mg/L	0.002	<0.001	0.005	0.004	0.005	0.002
Cobalt (acid extractable)	mg/L	0.0020	0.0005	0.0024	0.0021	0.0020	0.0019
Copper (acid extractable)	mg/L	0.0032	0.0011	0.0055	0.0051	0.0060	0.0033
Lead (acid extractable)	mg/L	0.0011	0.0004	0.0021	0.0018	0.0017	0.0010
Lithium (acid extractable)	mg/L	0.0032	0.0019	0.0030	0.0030	0.0030	0.0031
Molybdenum (acid extractable)	mg/L	0.0013	<0.0005	0.0012	0.0013	0.0012	0.0015
Nickel (acid extractable)	mg/L	0.0042	0.0010	0.0070	0.0067	0.0068	0.0043
Selenium (acid extractable)	mg/L	<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
Thallium (acid extractable)	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Tin (acid extractable)	mg/L	0.0006	<0.0002	<0.0002	0.0031	<0.0002	<0.0002
Vanadium (acid extractable)	mg/L	0.017	0.0016	0.024	0.023	0.024	0.020
Zinc (acid extractable)	mg/L	0.005	0.001	0.010	0.009	0.011	0.005

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**Analysis Results - QQPEST**  
**Area - ORGANIC**

Analyte	Sample ID Start Date Client ID	232236	232237	232238	232239	232240	232241
		14/04/2023 Murray - Fort	14/04/2023 Murray - Merbein	14/04/2023 Darling - Ellerslie	14/04/2023 Darling - Burtundy	14/04/2023 Darling - Tapio	14/04/2023 GDA - Silver City Hwy
Aldrin	µg/L	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Allethrin	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Alpha-Chlordane	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
alpha-HCH	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Ametryn	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Atraton	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Atrazine	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
beta-HCH	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bifenthrin	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bioresmethrin	µg/L	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Carbophenothion	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorpyrifos	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Cis-permethrin	µg/L	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Crotoxyphos	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Cyfluthrin	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Cypermethrin	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
delta-HCH	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Deltamethrin	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorvos	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Dieldrin	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Endosulfan II	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Endosulfan I	µg/L	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
Endosulfan Sulfate	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Endrin Aldehyde	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Endrin Ketone	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Endrin	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenamiphos	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenthion	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4

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**Analysis Results - QQPEST**  
**Area - ORGANIC**

Analyte	Sample ID Start Date Client ID	232236	232237	232238	232239	232240	232241
		14/04/2023 Murray - Fort	14/04/2023 Murray - Merbein	14/04/2023 Darling - Ellerslie	14/04/2023 Darling - Burtundy	14/04/2023 Darling - Tapio	14/04/2023 GDA - Silver City Hwy
Fenvalerate	µg/L	<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
gamma-HCH	µg/L	<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
Heptachlor	µg/L	<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
Hexazinone	µg/L	<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
Malathion	µg/L	<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
Methyl Azinphos	µg/L	<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
Methyl Parathion	µg/L	<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
Oxyfluorfen	µg/L	<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
Phorate	µg/L	<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
Prometon	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Prometryn	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Propargite	µg/L	<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
Propetamphos	µg/L	<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
Simetryn	µg/L	<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
Tebuconazole	µg/L	<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
Terbutylazine	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Terbutryn	µg/L	<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
Trans-permethrin	µg/L	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7

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**Area - ORGANIC**

Sample ID	Client ID	Method	Start Date	Result
232236	Murray - Fort Courage	OLCSCAN* - LC/MS Scan	14/04/2023	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).
232237	Murray - Merbein	OLCSCAN* - LC/MS Scan	14/04/2023	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).
232238	Darling - Ellerslie	OLCSCAN* - LC/MS Scan	14/04/2023	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).
232239	Darling - Burtundy	OLCSCAN* - LC/MS Scan	14/04/2023	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).
232240	Darling - Tapio	OLCSCAN* - LC/MS Scan	14/04/2023	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).
232241	GDA - Silver City Hwy	OLCSCAN* - LC/MS Scan	14/04/2023	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
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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