



Environmental Forensics Report of Analysis
Project 20230330

Report #: 1938
Date Issued: 17-Oct-2023
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Client Project Reference: Darling-Barka River Health 3 - 11 Au

Customer: Department of Planning & Environment

Attention: [REDACTED]

Report Date: 17 October 2023

Project Received: 11 August 2023

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

[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]



The following samples were analysed:

Sample ID	Client ID	Sample Type	Client Sampled Date/Time
237399	MFK-Z-B3 - Sed Grain Size	Solid	08/08/2023 2:05PM
237400	MFK-Z-B3 - Sed Isotopes	Solid	08/08/2023 2:05PM
237401	MFK-Z-B3 - Sed Metals	Solid	08/08/2023 2:05PM
237402	MFK-Z-B3 - Sed Organics	Solid	08/08/2023 2:05PM
237403	MFK-Z-P8 - Sed Grain Size	Solid	08/08/2023 2:30PM
237404	MFK-Z-P8 - Sed Isotopes	Solid	08/08/2023 2:30PM
237405	MFK-Z-P8 - Sed Metals	Solid	08/08/2023 2:30PM
237406	MFK-Z-P8 - Sed Organics	Solid	08/08/2023 2:30PM
237407	MFK-Z-P7 - Sed Grain Size	Solid	08/08/2023 2:20PM
237408	MFK-Z-P7 - Sed Isotopes	Solid	08/08/2023 2:20PM
237409	MFK-Z-P7 - Sed Metals	Solid	08/08/2023 2:20PM
237410	MFK-Z-P7 - Sed Organics	Solid	08/08/2023 2:20PM
237411	MFK-Z-P6 - Sed Grain Size	Solid	08/08/2023 1:28PM
237412	MFK-Z-P6 - Sed Isotopes	Solid	08/08/2023 1:28PM
237413	MFK-Z-P6 - Sed Metals	Solid	08/08/2023 1:28PM
237414	MFK-Z-P6 - Sed Organics	Solid	08/08/2023 1:28PM
237415	MFK-Z-P5 - Sed Grain Size	Solid	08/08/2023 1:10PM
237416	MFK-Z-P5 - Sed Isotopes	Solid	08/08/2023 1:10PM
237417	MFK-Z-P5 - Sed Metals	Solid	08/08/2023 1:10PM
237418	MFK-Z-P5 - Sed Organics	Solid	08/08/2023 1:10PM
237419	MFK-Z-P4 - Sed Grain Size	Solid	08/08/2023 11:20AM
237420	MFK-Z-P4 - Sed Isotopes	Solid	08/08/2023 11:20AM
237421	MFK-Z-P4 - Sed Metals	Solid	08/08/2023 11:20AM
237422	MFK-Z-P4 - Sed Organics	Solid	08/08/2023 11:20AM
237423	MFK-Z-P3 - Sed Grain Size	Solid	08/08/2023 12:35PM
237424	MFK-Z-P3 - Sed Isotopes	Solid	08/08/2023 12:35PM
237425	MFK-Z-P3 - Sed Metals	Solid	08/08/2023 12:35PM
237426	MFK-Z-P3 - Sed Organics	Solid	08/08/2023 12:35PM
237427	MFK-Z-P2 - Sed Grain Size	Solid	08/08/2023 12:20PM

Tests not covered by NATA accreditation 3040 are denoted with *

Codes: SN = Sample Note

RN = Result Note

RC = Project Comment



237428	MFK-Z-P2 - Sed Isotopes	Solid	08/08/2023	12:20PM
237429	MFK-Z-P2 - Sed Metals	Solid	08/08/2023	12:20PM
237430	MFK-Z-P2 - Sed Organics	Solid	08/08/2023	12:20PM
237431	MFK-Z-P1 - Sed Grain Size	Solid	08/08/2023	12:00PM
237432	MFK-Z-P1 - Sed Isotopes	Solid	08/08/2023	12:00PM
237433	MFK-Z-P1 - Sed Metals	Solid	08/08/2023	12:00PM
237434	MFK-Z-P1 - Sed Organics	Solid	08/08/2023	12:00PM
237435	MFK-Z-E5 - Sed Grain Size	Solid	08/08/2023	2:55PM
237436	MFK-Z-E5 - Sed Isoptopes	Solid	08/08/2023	2:55PM
237437	MFK-Z-E5 - Sed Metals	Solid	08/08/2023	2:55PM
237438	MFK-Z-E5 - Sed Organics	Solid	08/08/2023	2:55PM
237439	MFK-Z-E4 - Sed Grain Size	Solid	08/08/2023	1:55PM
237440	MFK-Z-E4 - Sed Isoptopes	Solid	08/08/2023	1:55PM
237441	MFK-Z-E4 - Sed Metals	Solid	08/08/2023	1:55PM
237442	MFK-Z-E4 - Sed Organics	Solid	08/08/2023	1:55PM
237443	MFK-Z-E3 - Sed Grain Size	Solid	08/08/2023	10:40AM
237444	MFK-Z-E3 - Sed Isoptopes	Solid	08/08/2023	10:40AM
237445	MFK-Z-E3 - Sed Metals	Solid	08/08/2023	10:40AM
237446	MFK-Z-E3 - Sed Organics	Solid	08/08/2023	10:40AM
237447	MFK-Z-E1 - Sed Grain Size	Solid	08/08/2023	11:45AM
237448	MFK-Z-E1 - Sed Isoptopes	Solid	08/08/2023	11:45AM
237449	MFK-Z-E1 - Sed Metals	Solid	08/08/2023	11:45AM
237450	MFK-Z-E1 - Sed Organics	Solid	08/08/2023	11:45AM
237451	MFK-Z-E2 - Sed Grain Size	Solid	08/08/2023	12:55PM
237452	MFK-Z-E2 - Sed Isotopes	Solid	08/08/2023	12:55PM
237453	MFK-Z-E2 - Sed Metals	Solid	08/08/2023	12:55PM
237454	MFK-Z-E2 - Sed Organics	Solid	08/08/2023	12:55PM
237455	MFK-Z-E1 - TSS	Liquid	09/08/2023	11:08AM
237456	MFK-Z-E1 - Chlorophyll	Liquid	09/08/2023	11:08AM
237457	MFK-Z-E1 - Algal	Liquid	09/08/2023	11:08AM

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237458	MFK-Z-E1 - Nutrients Unfiltered	Liquid	09/08/2023	11:08AM
237459	MFK-Z-E1 - Nutrients Filtered 1	Liquid	09/08/2023	11:08AM
237460	MFK-Z-E1 - Nutrients Filtered 2	Liquid	09/08/2023	11:08AM
237461	MFK-Z-E1 - Isotopes	Liquid	09/08/2023	11:08AM
237462	MFK-Z-E2 - TSS	Liquid	09/08/2023	11:40AM
237463	MFK-Z-E2 - Chlorophyll	Liquid	09/08/2023	11:40AM
237464	MFK-Z-E2 - Algal	Liquid	09/08/2023	11:40AM
237465	MFK-Z-E2 - Nutrients Unfiltered	Liquid	09/08/2023	11:40AM
237466	MFK-Z-E2 - Nutrients Filtered 1	Liquid	09/08/2023	11:40AM
237467	MFK-Z-E2 - Nutrients Filtered 2	Liquid	09/08/2023	11:40AM
237468	MFK-Z-E2 - Isotopes	Liquid	09/08/2023	11:40AM
237469	MFK-Z-E3 - TSS	Liquid	09/08/2023	12:15PM
237470	MFK-Z-E3 - Chlorophyll	Liquid	09/08/2023	12:15PM
237471	MFK-Z-E3 - Algal	Liquid	09/08/2023	12:15PM
237472	MFK-Z-E3 - Nutrients Unfiltered	Liquid	09/08/2023	12:15PM
237473	MFK-Z-E3 - Nutrients Filtered 1	Liquid	09/08/2023	12:15PM
237474	MFK-Z-E3 - Nutrients Filtered 2	Liquid	09/08/2023	12:15PM
237475	MFK-Z-E3 - Isotopes	Liquid	09/08/2023	12:15PM
237476	MFK-Z-E4 - TSS	Liquid	09/08/2023	12:28PM
237477	MFK-Z-E4 - Chlorophyll	Liquid	09/08/2023	12:28PM
237478	MFK-Z-E4 - Algal	Liquid	09/08/2023	12:28PM
237479	MFK-Z-E4 - Nutrients Unfiltered	Liquid	09/08/2023	12:28PM
237480	MFK-Z-E4 - Nutrients Filtered 1	Liquid	09/08/2023	12:28PM
237481	MFK-Z-E4 - Nutrients Filtered 2	Liquid	09/08/2023	12:28PM
237482	MFK-Z-E4 - Isotopes	Liquid	09/08/2023	12:28PM

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237483	MFK-Z-E5 - TSS	Liquid	09/08/2023	1:05PM
237484	MFK-Z-E5 - Chlorophyll	Liquid	09/08/2023	1:05PM
237485	MFK-Z-E5 - Algal	Liquid	09/08/2023	1:05PM
237486	MFK-Z-E5 - Nutrients Unfiltered	Liquid	09/08/2023	1:05PM
237487	MFK-Z-E5 - Nutrients Filtered 1	Liquid	09/08/2023	1:05PM
237488	MFK-Z-E5 - Nutrients Filtered 2	Liquid	09/08/2023	1:05PM
237489	MFK-Z-E5 - Isotopes	Liquid	09/08/2023	1:05PM
237490	MFK-Z-B1 - TSS	Liquid	09/08/2023	9:40AM
237491	MFK-Z-B1 - Chlorophyll	Liquid	09/08/2023	9:40AM
237492	MFK-Z-B1 - Algal	Liquid	09/08/2023	9:40AM
237493	MFK-Z-B1 - Nutrients Unfiltered	Liquid	09/08/2023	9:40AM
237494	MFK-Z-B1 - Nutrients Filtered 1	Liquid	09/08/2023	9:40AM
237495	MFK-Z-B1 - Nutrients Filtered 2	Liquid	09/08/2023	9:40AM
237496	MFK-Z-B1 - Isotopes	Liquid	09/08/2023	9:40AM
237497	MFK-Z-B2 - TSS	Liquid	09/08/2023	2:05PM
237498	MFK-Z-B2 - Chlorophyll	Liquid	09/08/2023	2:05PM
237499	MFK-Z-B2 - Algal	Liquid	09/08/2023	2:05PM
237500	MFK-Z-B2 - Nutrients Unfiltered	Liquid	09/08/2023	2:05PM
237501	MFK-Z-B2 - Nutrients Filtered 1	Liquid	09/08/2023	2:05PM
237502	MFK-Z-B2 - Nutrients Filtered 2	Liquid	09/08/2023	2:05PM
237503	MFK-Z-B2 - Isotopes	Liquid	09/08/2023	2:05PM
237504	MFK-Z-B3 - TSS	Liquid	09/08/2023	12:41PM
237505	MFK-Z-B3 - Chlorophyll	Liquid	09/08/2023	12:41PM
237506	MFK-Z-B3 - Algal	Liquid	09/08/2023	12:41PM
237507	MFK-Z-B3 - Nutrients Unfiltered	Liquid	09/08/2023	12:41PM
237508	MFK-Z-B3 - Nutrients Filtered 1	Liquid	09/08/2023	12:41PM

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237509	MFK-Z-B3 - Nutrients Filtered 2	Liquid	09/08/2023	12:41PM
237510	MFK-Z-B3 - Isotopes	Liquid	09/08/2023	12:41PM
237511	MFK-Z-B2 - Sed Grain Size	Solid	09/08/2023	2:05PM
237512	MFK-Z-B2 - Sed Isotopes	Solid	09/08/2023	2:05PM
237513	MFK-Z-B2 - Sed Metals	Solid	09/08/2023	2:05PM
237514	MFK-Z-B2 - Sed Organics	Solid	09/08/2023	2:05PM

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 237469, 237476, 237483, 237490, 237497, 237504 were sent to ALS Environmental Laboratory (NATA Accreditation no: 825) for the analysis of EA025: Total Suspended Solids dried at 104 ± 2°C, Fixed/Volatile Suspended Solids.
Samples 237455, 237458, 237459, 237460, 237462, 237465, 237466, 237467, 237472, 237473, 237474, 237479, 237480, 237481, 237486, 237487, 237488, 237493, 237494, 237495, 237500, 237501, 237502, 237507, 237509, 237508 were sent to ALS Environmental Laboratory (NATA Accreditation no: 825) for the analysis of Nutrients. This report summarises data from the attached external report: ES2327323, dated 21-Aug-2023.

· Samples 237457, 237464, 237471, 237478, 237485, 237492, 237499, 237506 were sent to Sydney Water Corporation (NATA Accreditation no: 63) for the analysis of MA71CEN T : Blue-Green ID & Enumeration, Including ASU & Biovolumes, MA91 : Individual Species Total Count, Total BioVol, Total ASU. Please see the attached external report: 290314, dated 31/08/2023.



Analysis Results - External Methods*		Sample ID	237457	237464	237471	237478	237485	237492	237499	237506
Area - EXTERNAL		Start Date	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023	29/08/2023
Analyte		Client ID	MFK-Z-E1 - Algal	MFK-Z-E2 - Algal	MFK-Z-E3 - Algal	MFK-Z-E4 - Algal	MFK-Z-E5 - Algal	MFK-Z-B1 - Algal	MFK-Z-B2 - Algal	MFK-Z-B3 - Algal
Algal Enumeration	-	RC	RC	RC	RC	RC	RC	RC	RC	RC
Algal Identification	-	RC	RC	RC	RC	RC	RC	RC	RC	RC

Analysis Results - External Methods*		Sample ID	237458	237459	237460	237465	237466	237467	237472	237473	237474	237479	237480	237481
Area - EXTERNAL		Start Date	15/08/2023	15/08/2023	15/08/2023	15/08/2023	15/08/2023	15/08/2023	15/08/2023	15/08/2023	15/08/2023	15/08/2023	15/08/2023	15/08/2023
Analyte		Client ID	MFK-Z-E1 - Nutrients	MFK-Z-E1 - Nutrients	MFK-Z-E1 - Nutrients	MFK-Z-E2 - Nutrients	MFK-Z-E2 - Nutrients	MFK-Z-E2 - Nutrients	MFK-Z-E3 - Nutrients	MFK-Z-E3 - Nutrients	MFK-Z-E3 - Nutrients	MFK-Z-E4 - Nutrients	MFK-Z-E4 - Nutrients	MFK-Z-E4 - Nutrients
^ Filtered Total Nitrogen as N	mg/L		0.7			0.7			0.8			0.7		
^ Total Nitrogen as N	mg/L	0.2			<0.1			0.6			1.1			
Ammonia as N	mg/L				<0.01			<0.01			<0.01		<0.01	
Dissolved TKN as N	mg/L		0.7			0.7			0.8			0.7		
Filtered Total Phosphorus as P	mg/L		0.04			0.02			0.03			0.02		
Nitrite+Nitrate as N	mg/L	<0.01	0.02	<0.01	<0.01	0.02	<0.01	<0.01	0.01	<0.01	<0.01	0.02	<0.01	
Reactive Phosphorus as P	mg/L			0.02			0.02			0.03			0.02	
Total Kjeldahl Nitrogen as N	mg/L	0.2			<0.1				0.6			1.1		
Total Phosphorus as P	mg/L	0.02			<0.01				0.07			0.11		

Analysis Results - External Methods*		Sample ID	237486	237487	237488	237493	237494	237495	237500	237501	237502	237507	237508	237509
Area - EXTERNAL		Start Date	15/08/2023	15/08/2023	15/08/2023	15/08/2023	15/08/2023	15/08/2023	15/08/2023	15/08/2023	15/08/2023	15/08/2023	15/08/2023	15/08/2023
Analyte		Client ID	MFK-Z-E5 - Nutrients	MFK-Z-E5 - Nutrients	MFK-Z-E5 - Nutrients	MFK-Z-B1 - Nutrients	MFK-Z-B1 - Nutrients	MFK-Z-B1 - Nutrients	MFK-Z-B2 - Nutrients	MFK-Z-B2 - Nutrients	MFK-Z-B2 - Nutrients	MFK-Z-B3 - Nutrients	MFK-Z-B3 - Nutrients	MFK-Z-B3 - Nutrients
^ Filtered Total Nitrogen as N	mg/L		0.6			0.6			0.9			0.8		
^ Total Nitrogen as N	mg/L	1.2			1.0			1.0			0.9			
Ammonia as N	mg/L			<0.01				<0.01		0.04			0.07	
Dissolved TKN as N	mg/L		0.6			0.6			0.8			0.8		
Filtered Total Phosphorus as P	mg/L		0.04			<0.01			0.03			0.26		
Nitrite+Nitrate as N	mg/L	0.01	0.02	<0.01	0.01	0.02	<0.01	0.01	0.06	<0.01	0.01	0.02	<0.01	
Reactive Phosphorus as P	mg/L			0.05				<0.01		0.02			0.31	
Total Kjeldahl Nitrogen as N	mg/L	1.2			1.0			1.0			0.9			
Total Phosphorus as P	mg/L	0.17			0.09			0.14			0.33			

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Analysis Results - External Methods*

Area - EXTERNAL

		Sample ID	237455	237462	237469	237476	237483	237490	237497	237504
		Start Date	15/08/2023	15/08/2023	15/08/2023	15/08/2023	15/08/2023	15/08/2023	15/08/2023	15/08/2023
		Client ID	MFK-Z-E1 - TSS	MFK-Z-E2 - TSS	MFK-Z-E3 - TSS	MFK-Z-E4 - TSS	MFK-Z-E5 - TSS	MFK-Z-B1 - TSS	MFK-Z-B2 - TSS	MFK-Z-B3 - TSS
Fixed Suspended Solids @ 550°C	mg/L		24	12	6	5	9	<0.1	17	6
Suspended Solids (SS)	mg/L		42	24	22	20	31	23	43	28
Volatile Suspended Solids @ 550°C	mg/L		18	12	16	15	22	23	26	22

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Area - FORENSIC

Sample ID	Client ID	Method	Start Date	Result
237399	MFK-Z-B3 - Sed Grain Size	FMPSDA* - Particle size	25/09/2023	See attached spreadsheet - 20230330 Particle size analysis
237403	MFK-Z-P8 - Sed Grain Size	FMPSDA* - Particle size	25/09/2023	See attached spreadsheet - 20230330 Particle size analysis
237407	MFK-Z-P7 - Sed Grain Size	FMPSDA* - Particle size	25/09/2023	See attached spreadsheet - 20230330 Particle size analysis
237411	MFK-Z-P6 - Sed Grain Size	FMPSDA* - Particle size	25/09/2023	See attached spreadsheet - 20230330 Particle size analysis
237415	MFK-Z-P5 - Sed Grain Size	FMPSDA* - Particle size	25/09/2023	See attached spreadsheet - 20230330 Particle size analysis
237419	MFK-Z-P4 - Sed Grain Size	FMPSDA* - Particle size	25/09/2023	See attached spreadsheet - 20230330 Particle size analysis
237423	MFK-Z-P3 - Sed Grain Size	FMPSDA* - Particle size	25/09/2023	See attached spreadsheet - 20230330 Particle size analysis
237427	MFK-Z-P2 - Sed Grain Size	FMPSDA* - Particle size	25/09/2023	See attached spreadsheet - 20230330 Particle size analysis
237431	MFK-Z-P1 - Sed Grain Size	FMPSDA* - Particle size	25/09/2023	See attached spreadsheet - 20230330 Particle size analysis
237435	MFK-Z-E5 - Sed Grain Size	FMPSDA* - Particle size	25/09/2023	See attached spreadsheet - 20230330 Particle size analysis
237439	MFK-Z-E4 - Sed Grain Size	FMPSDA* - Particle size	25/09/2023	See attached spreadsheet - 20230330 Particle size analysis
237443	MFK-Z-E3 - Sed Grain Size	FMPSDA* - Particle size	25/09/2023	See attached spreadsheet - 20230330 Particle size analysis
237447	MFK-Z-E1 - Sed Grain Size	FMPSDA* - Particle size	25/09/2023	See attached spreadsheet - 20230330 Particle size analysis
237451	MFK-Z-E2 - Sed Grain Size	FMPSDA* - Particle size	25/09/2023	See attached spreadsheet - 20230330 Particle size analysis
237511	MFK-Z-B2 - Sed Grain Size	FMPSDA* - Particle size	25/09/2023	See attached spreadsheet - 20230330 Particle size analysis

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Analysis Results - ICPAES

Area - INORGANIC

Analyte

	<i>Sample ID</i>	237401	237405	237409	237413	237417	237421	237425	237429	237433	237437	237441	237445
	<i>Start Date</i>	24/08/2023	24/08/2023	24/08/2023	24/08/2023	24/08/2023	24/08/2023	24/08/2023	24/08/2023	24/08/2023	24/08/2023	24/08/2023	24/08/2023
	<i>Client ID</i>	MFK-Z-B3 -	MFK-Z-P8 -	MFK-Z-P7 -	MFK-Z-P6 -	MFK-Z-P5 -	MFK-Z-P4 -	MFK-Z-P3 -	MFK-Z-P2 -	MFK-Z-P1 -	MFK-Z-E5 -	MFK-Z-E4 -	MFK-Z-E3 -
		Sed Metals	Sed Metals	Sed Metals	Sed Metals	Sed Metals	Sed Metals	Sed Metals	Sed Metals	Sed Metals	Sed Metals	Sed Metals	Sed Metals
Aluminium (acid extractable)	mg/kg (dry weight)	10000	4400	6200	15000	10000	26000	28000	26000	25000	3000	20000	30000
Arsenic (acid extractable)	mg/kg (dry weight)	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Barium (acid extractable)	mg/kg (dry weight)	210	30	41	83	62	150	150	150	160	21	110	160
Beryllium (acid extractable)	mg/kg (dry weight)	<1	<1	<1	<1	<1	<1	1	<1	<1	<1	<1	1
Boron (acid extractable)	mg/kg (dry weight)	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Cadmium (acid extractable)	mg/kg (dry weight)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Calcium (acid extractable)	mg/kg (dry weight)	63000	1300	1800	3800	2900	7900	6100	6100	6500	790	4900	6700
Chromium (acid extractable)	mg/kg (dry weight)	12	6	8	18	13	32	34	32	31	5	24	36
Cobalt (acid extractable)	mg/kg (dry weight)	12	4	5	9	8	13	14	14	14	3	11	14
Copper (acid extractable)	mg/kg (dry weight)	10	4	6	12	9	21	21	20	20	<3	16	25
Iron (acid extractable)	mg/kg (dry weight)	12000	4900	6700	15000	11000	27000	29000	27000	26000	3300	20000	30000
Lead (acid extractable)	mg/kg (dry weight)	7	2	3	6	4	9	10	10	9	14	8	11
Lithium (acid extractable)	mg/kg (dry weight)	4	2	2	5	4	9	10	9	9	1	7	10
Magnesium (acid extractable)	mg/kg (dry weight)	7100	1100	1500	3300	2400	5800	5900	5600	5600	670	4200	6200
Manganese (acid extractable)	mg/kg (dry weight)	900	160	210	440	260	810	940	990	1000	82	600	870
Molybdenum (acid extractable)	mg/kg (dry weight)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Nickel (acid extractable)	mg/kg (dry weight)	11	5	6	13	11	24	25	23	23	3	17	25
Phosphorus (acid extractable)	mg/kg (dry weight)	930	140	190	390	260	660	720	670	680	78	550	710
Potassium (acid extractable)	mg/kg (dry weight)	2100	950	1200	2800	1900	4700	4900	4700	4500	640	3600	5400
Selenium (acid extractable)	mg/kg (dry weight)	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Silver (acid extractable)	mg/kg (dry weight)	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Sodium (acid extractable)	mg/kg (dry weight)	240	94	130	270	150	510	570	500	510	60	360	510
Strontium (acid extractable)	mg/kg (dry weight)	370	15	20	41	33	90	72	72	74	9	54	76
Sulfur (acid extractable)	mg/kg (dry weight)	360	170	210	550	280	870	720	740	670	100	630	960
Thallium (acid extractable)	mg/kg (dry weight)	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Tin (acid extractable)	mg/kg (dry weight)	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Titanium (acid extractable)	mg/kg (dry weight)	96	57	71	96	100	99	78	86	130	110	130	130
Vanadium (acid extractable)	mg/kg (dry weight)	25	13	17	35	28	59	61	57	56	9	48	71
Zinc (acid extractable)	mg/kg (dry weight)	22	11	15	33	23	57	60	56	55	7	44	66

Tests not covered by NATA accreditation 3040 are denoted with *

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Analysis Results - ICPAES

Area - INORGANIC

Sample ID	237449	237453	237513
Start Date	24/08/2023	24/08/2023	24/08/2023
Client ID	MFK-Z-E1 - Sed Metals	MFK-Z-E2 - Sed Metals	MFK-Z-B2 - Sed Metals

Analyte

Analyte	Unit	237449	237453	237513
Aluminium (acid extractable)	mg/kg (dry weight)	27000	19000	4700
Arsenic (acid extractable)	mg/kg (dry weight)	<3	<3	<3
Barium (acid extractable)	mg/kg (dry weight)	150	110	54
Beryllium (acid extractable)	mg/kg (dry weight)	<1	<1	<1
Boron (acid extractable)	mg/kg (dry weight)	<10	<10	<10
Cadmium (acid extractable)	mg/kg (dry weight)	<1	<1	<1
Calcium (acid extractable)	mg/kg (dry weight)	6200	5200	5800
Chromium (acid extractable)	mg/kg (dry weight)	33	24	7
Cobalt (acid extractable)	mg/kg (dry weight)	14	11	5
Copper (acid extractable)	mg/kg (dry weight)	20	16	4
Iron (acid extractable)	mg/kg (dry weight)	28000	20000	5700
Lead (acid extractable)	mg/kg (dry weight)	10	7	7
Lithium (acid extractable)	mg/kg (dry weight)	9	7	2
Magnesium (acid extractable)	mg/kg (dry weight)	5700	4500	1500
Manganese (acid extractable)	mg/kg (dry weight)	820	590	240
Molybdenum (acid extractable)	mg/kg (dry weight)	<1	<1	<1
Nickel (acid extractable)	mg/kg (dry weight)	23	17	5
Phosphorus (acid extractable)	mg/kg (dry weight)	650	510	380
Potassium (acid extractable)	mg/kg (dry weight)	4800	3700	1100
Selenium (acid extractable)	mg/kg (dry weight)	<4	<4	<4
Silver (acid extractable)	mg/kg (dry weight)	<0.6	<0.6	<0.6
Sodium (acid extractable)	mg/kg (dry weight)	470	370	170
Strontium (acid extractable)	mg/kg (dry weight)	71	55	46
Sulfur (acid extractable)	mg/kg (dry weight)	580	600	250
Thallium (acid extractable)	mg/kg (dry weight)	<2	<2	<2
Tin (acid extractable)	mg/kg (dry weight)	<2	<2	<2
Titanium (acid extractable)	mg/kg (dry weight)	160	110	85
Vanadium (acid extractable)	mg/kg (dry weight)	59	47	13
Zinc (acid extractable)	mg/kg (dry weight)	57	43	12

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Analysis Results - IMSGR

Area - INORGANIC

Analyte

	Sample ID	237401	237402	237405	237406	237409	237410	237413	237414	237417	237418	237421	237422
	Start Date	24/08/2023	23/08/2023	24/08/2023	23/08/2023	24/08/2023	23/08/2023	24/08/2023	23/08/2023	24/08/2023	23/08/2023	24/08/2023	23/08/2023
	Client ID	MFK-Z-B3 - Sed Metals	MFK-Z-B3 - Sed	MFK-Z-P8 - Sed Metals	MFK-Z-P8 - Sed	MFK-Z-P7 - Sed Metals	MFK-Z-P7 - Sed	MFK-Z-P6 - Sed Metals	MFK-Z-P6 - Sed	MFK-Z-P5 - Sed Metals	MFK-Z-P5 - Sed	MFK-Z-P4 - Sed Metals	MFK-Z-P4 - Sed
Moisture (105°C)	% w/w	26	30	31	33	39	35	57	56	41	48	72	74

Analysis Results - IMSGR

Area - INORGANIC

Analyte

	Sample ID	237425	237426	237429	237430	237433	237434	237437	237438	237441	237442	237445	237446
	Start Date	24/08/2023	23/08/2023	24/08/2023	23/08/2023	24/08/2023	23/08/2023	24/08/2023	23/08/2023	24/08/2023	23/08/2023	24/08/2023	23/08/2023
	Client ID	MFK-Z-P3 - Sed Metals	MFK-Z-P3 - Sed	MFK-Z-P2 - Sed Metals	MFK-Z-P2 - Sed	MFK-Z-P1 - Sed Metals	MFK-Z-P1 - Sed	MFK-Z-E5 - Sed Metals	MFK-Z-E5 - Sed	MFK-Z-E4 - Sed Metals	MFK-Z-E4 - Sed	MFK-Z-E3 - Sed Metals	MFK-Z-E3 - Sed
Moisture (105°C)	% w/w	76	75	74	73	74	74	23	23	67	64	73	75

Analysis Results - IMSGR

Area - INORGANIC

Analyte

	Sample ID	237449	237450	237453	237454	237513	237514
	Start Date	24/08/2023	23/08/2023	24/08/2023	23/08/2023	24/08/2023	23/08/2023
	Client ID	MFK-Z-E1 - Sed Metals	MFK-Z-E1 - Sed	MFK-Z-E2 - Sed Metals	MFK-Z-E2 - Sed	MFK-Z-B2 - Sed Metals	MFK-Z-B2 - Sed
Moisture (105°C)	% w/w	73	71	68	64	27	34

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Analysis Results - QQPEST

Area - ORGANIC

Analyte	Sample ID Start Date Client ID	237402	237406	237410	237414	237418	237422	237426	237430	237434	237438	237442	237446
		22/08/2023 MFK-Z-B3 - Sed	22/08/2023 MFK-Z-P8 - Sed	22/08/2023 MFK-Z-P7 - Sed	22/08/2023 MFK-Z-P6 - Sed	22/08/2023 MFK-Z-P5 - Sed	22/08/2023 MFK-Z-P4 - Sed	22/08/2023 MFK-Z-P3 - Sed	22/08/2023 MFK-Z-P2 - Sed	22/08/2023 MFK-Z-P1 - Sed	22/08/2023 MFK-Z-E5 - Sed	22/08/2023 MFK-Z-E4 - Sed	22/08/2023 MFK-Z-E3 - Sed
Aldrin	µg/kg (dry weight)	<29	<30	<31	<45	<38	<77	<80	<74	<77	<26	<56	<80
Allethrin	µg/kg (dry weight)	<29	<30	<31	<45	<38	<77	<80	<74	<77	<26	<56	<80
alpha-Chlordane	µg/kg (dry weight)	<29	<30	<31	<45	<38	<77	<80	<74	<77	<26	<56	<80
alpha-HCH	µg/kg (dry weight)	<29	<30	<31	<45	<38	<77	<80	<74	<77	<26	<56	<80
Ametryn	µg/kg (dry weight)	<29	<30	<31	<45	<38	<77	<80	<74	<77	<26	<56	<80
Atraton	µg/kg (dry weight)	<140	<150	<150	<230	<190	<380	<400	<370	<380	<130	<280	<400
Atrazine	µg/kg (dry weight)	<29	<30	<31	<45	<38	<77	<80	<74	<77	<26	<56	<80
beta-HCH	µg/kg (dry weight)	<29	<30	<31	<45	<38	<77	<80	<74	<77	<26	<56	<80
Bifenthrin	µg/kg (dry weight)	<29	<30	<31	<45	<38	<77	<80	<74	<77	<26	<56	<80
Carbophenothion	µg/kg (dry weight)	<140	<150	<150	<230	<190	<380	<400	<370	<380	<130	<280	<400
Chlorpyrifos	µg/kg (dry weight)	<29	<30	<31	<45	<38	<77	<80	<74	<77	<26	<56	<80
cis-Permethrin	µg/kg (dry weight)	<140	<150	<150	<230	<190	<380	<400	<370	<380	<130	<280	<400
Crotoxypfos	µg/kg (dry weight)	<29	<30	<31	<45	<38	<77	<80	<74	<77	<26	<56	<80
Cyfluthrin	µg/kg (dry weight)	<140	<150	<150	<230	<190	<380	<400	<370	<380	<130	<280	<400
delta-HCH	µg/kg (dry weight)	<29	<30	<31	<45	<38	<77	<80	<74	<77	<26	<56	<80
Deltamethrin	µg/kg (dry weight)	<140	<150	<150	<230	<190	<380	<400	<370	<380	<130	<280	<400
Diazinon	µg/kg (dry weight)	<29	<30	<31	<45	<38	<77	<80	<74	<77	<26	<56	<80
Dieldrin	µg/kg (dry weight)	<29	<30	<31	<45	<38	<77	<80	<74	<77	<26	<56	<80
Dimethoate	µg/kg (dry weight)	<29	<30	<31	<45	<38	<77	<80	<74	<77	<26	<56	<80
Endosulfan II	µg/kg (dry weight)	<57	<60	<62	<91	<77	<150	<160	<150	<150	<52	<110	<160
Endosulfan I	µg/kg (dry weight)	<57	<60	<62	<91	<77	<150	<160	<150	<150	<52	<110	<160
Endosulfan Sulfate	µg/kg (dry weight)	<57	<60	<62	<91	<77	<150	<160	<150	<150	<52	<110	<160
Endrin Ketone	µg/kg (dry weight)	<29	<30	<31	<45	<38	<77	<80	<74	<77	<26	<56	<80
Endrin	µg/kg (dry weight)	<29	<30	<31	<45	<38	<77	<80	<74	<77	<26	<56	<80
Ethion	µg/kg (dry weight)	<140	<150	<150	<230	<190	<380	<400	<370	<380	<130	<280	<400
Fenamiphos	µg/kg (dry weight)	<29	<30	<31	<45	<38	<77	<80	<74	<77	<26	<56	<80
Fenitrothion	µg/kg (dry weight)	<29	<30	<31	<45	<38	<77	<80	<74	<77	<26	<56	<80
Fenthion	µg/kg (dry weight)	<29	<30	<31	<45	<38	<77	<80	<74	<77	<26	<56	<80
Fenvalerate	µg/kg (dry weight)	<140	<150	<150	<230	<190	<380	<400	<370	<380	<130	<280	<400
gamma-Chlordane	µg/kg (dry weight)	<29	<30	<31	<45	<38	<77	<80	<74	<77	<26	<56	<80
gamma-HCH	µg/kg (dry weight)	<29	<30	<31	<45	<38	<77	<80	<74	<77	<26	<56	<80
Heptachlor Epoxide	µg/kg (dry weight)	<29	<30	<31	<45	<38	<77	<80	<74	<77	<26	<56	<80

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Analysis Results - QQPEST

Area - ORGANIC

Analyte	Sample ID Start Date Client ID	237402	237406	237410	237414	237418	237422	237426	237430	237434	237438	237442	237446
		22/08/2023 MFK-Z-B3 - Sed	22/08/2023 MFK-Z-P8 - Sed	22/08/2023 MFK-Z-P7 - Sed	22/08/2023 MFK-Z-P6 - Sed	22/08/2023 MFK-Z-P5 - Sed	22/08/2023 MFK-Z-P4 - Sed	22/08/2023 MFK-Z-P3 - Sed	22/08/2023 MFK-Z-P2 - Sed	22/08/2023 MFK-Z-P1 - Sed	22/08/2023 MFK-Z-E5 - Sed	22/08/2023 MFK-Z-E4 - Sed	22/08/2023 MFK-Z-E3 - Sed
Heptachlor	µg/kg (dry weight)	<29	<30	<31	<45	<38	<77	<80	<74	<77	<26	<56	<80
Hexachlorobenzene	µg/kg (dry weight)	<29	<30	<31	<45	<38	<77	<80	<74	<77	<26	<56	<80
Hexazinone	µg/kg (dry weight)	<140	<150	<150	<230	<190	<380	<400	<370	<380	<130	<280	<400
L-Cyhalothrin	µg/kg (dry weight)	<140	<150	<150	<230	<190	<380	<400	<370	<380	<130	<280	<400
Malathion	µg/kg (dry weight)	<29	<30	<31	<45	<38	<77	<80	<74	<77	<26	<56	<80
Methidathion	µg/kg (dry weight)	<29	<30	<31	<45	<38	<77	<80	<74	<77	<26	<56	<80
Methyl Chlorpyrifos	µg/kg (dry weight)	<29	<30	<31	<45	<38	<77	<80	<74	<77	<26	<56	<80
Methyl Parathion	µg/kg (dry weight)	<29	<30	<31	<45	<38	<77	<80	<74	<77	<26	<56	<80
Oxyfluorfen	µg/kg (dry weight)	<29	<30	<31	<45	<38	<77	<80	<74	<77	<26	<56	<80
Parathion	µg/kg (dry weight)	<29	<30	<31	<45	<38	<77	<80	<74	<77	<26	<56	<80
Phorate	µg/kg (dry weight)	<29	<30	<31	<45	<38	<77	<80	<74	<77	<26	<56	<80
Profenofos	µg/kg (dry weight)	<29	<30	<31	<45	<38	<77	<80	<74	<77	<26	<56	<80
Prometon	µg/kg (dry weight)	<29	<30	<31	<45	<38	<77	<80	<74	<77	<26	<56	<80
Prometryn	µg/kg (dry weight)	<29	<30	<31	<45	<38	<77	<80	<74	<77	<26	<56	<80
Propargite	µg/kg (dry weight)	<140	<150	<150	<230	<190	<380	<400	<370	<380	<130	<280	<400
Propazine	µg/kg (dry weight)	<29	<30	<31	<45	<38	<77	<80	<74	<77	<26	<56	<80
Propetamphos	µg/kg (dry weight)	<29	<30	<31	<45	<38	<77	<80	<74	<77	<26	<56	<80
Simazine	µg/kg (dry weight)	<29	<30	<31	<45	<38	<77	<80	<74	<77	<26	<56	<80
Simetryn	µg/kg (dry weight)	<29	<30	<31	<45	<38	<77	<80	<74	<77	<26	<56	<80
Sulprofos	µg/kg (dry weight)	<140	<150	<150	<230	<190	<380	<400	<370	<380	<130	<280	<400
Tebuconazole	µg/kg (dry weight)	<29	<30	<31	<45	<38	<77	<80	<74	<77	<26	<56	<80
Terbutylazine	µg/kg (dry weight)	<29	<30	<31	<45	<38	<77	<80	<74	<77	<26	<56	<80
Terbutryn	µg/kg (dry weight)	<29	<30	<31	<45	<38	<77	<80	<74	<77	<26	<56	<80
Tetrachlorvinphos	µg/kg (dry weight)	<29	<30	<31	<45	<38	<77	<80	<74	<77	<26	<56	<80
trans-Permethrin	µg/kg (dry weight)	<140	<150	<150	<230	<190	<380	<400	<370	<380	<130	<280	<400

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Analysis Results - QQPEST

Area - ORGANIC

Analyte	Sample ID Start Date Client ID	237450	237454	237514
		22/08/2023 MFK-Z-E1 - Sed	22/08/2023 MFK-Z-E2 - Sed	22/08/2023 MFK-Z-B2 - Sed
Aldrin	µg/kg (dry weight)	<69	<56	<30
Allethrin	µg/kg (dry weight)	<69	<56	<30
alpha-Chlordane	µg/kg (dry weight)	<69	<56	<30
alpha-HCH	µg/kg (dry weight)	<69	<56	<30
Ametryn	µg/kg (dry weight)	<69	<56	<30
Atraton	µg/kg (dry weight)	<340	<280	<150
Atrazine	µg/kg (dry weight)	<69	<56	<30
beta-HCH	µg/kg (dry weight)	<69	<56	<30
Bifenthrin	µg/kg (dry weight)	<69	<56	<30
Carbophenothion	µg/kg (dry weight)	<340	<280	<150
Chlorpyrifos	µg/kg (dry weight)	<69	<56	<30
cis-Permethrin	µg/kg (dry weight)	<340	<280	<150
Crotoxyphos	µg/kg (dry weight)	<69	<56	<30
Cyfluthrin	µg/kg (dry weight)	<340	<280	<150
delta-HCH	µg/kg (dry weight)	<69	<56	<30
Deltamethrin	µg/kg (dry weight)	<340	<280	<150
Diazinon	µg/kg (dry weight)	<69	<56	<30
Dieldrin	µg/kg (dry weight)	<69	<56	<30
Dimethoate	µg/kg (dry weight)	<69	<56	<30
Endosulfan II	µg/kg (dry weight)	<140	<110	<61
Endosulfan I	µg/kg (dry weight)	<140	<110	<61
Endosulfan Sulfate	µg/kg (dry weight)	<140	<110	<61
Endrin Ketone	µg/kg (dry weight)	<69	<56	<30
Endrin	µg/kg (dry weight)	<69	<56	<30
Ethion	µg/kg (dry weight)	<340	<280	<150
Fenamiphos	µg/kg (dry weight)	<69	<56	<30
Fenitrothion	µg/kg (dry weight)	<69	<56	<30
Fenthion	µg/kg (dry weight)	<69	<56	<30
Fenvalerate	µg/kg (dry weight)	<340	<280	<150
gamma-Chlordane	µg/kg (dry weight)	<69	<56	<30
gamma-HCH	µg/kg (dry weight)	<69	<56	<30
Heptachlor Epoxide	µg/kg (dry weight)	<69	<56	<30

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Analysis Results - QQPEST

Area - ORGANIC

	Sample ID	237450	237454	237514
	Start Date	22/08/2023	22/08/2023	22/08/2023
Analyte	Client ID	MFK-Z-E1 - Sed	MFK-Z-E2 - Sed	MFK-Z-B2 - Sed
Heptachlor	µg/kg (dry weight)	<69	<56	<30
Hexachlorobenzene	µg/kg (dry weight)	<69	<56	<30
Hexazinone	µg/kg (dry weight)	<340	<280	<150
L-Cyhalothrin	µg/kg (dry weight)	<340	<280	<150
Malathion	µg/kg (dry weight)	<69	<56	<30
Methidathion	µg/kg (dry weight)	<69	<56	<30
Methyl Chlorpyrifos	µg/kg (dry weight)	<69	<56	<30
Methyl Parathion	µg/kg (dry weight)	<69	<56	<30
Oxyfluorfen	µg/kg (dry weight)	<69	<56	<30
Parathion	µg/kg (dry weight)	<69	<56	<30
Phorate	µg/kg (dry weight)	<69	<56	<30
Profenofos	µg/kg (dry weight)	<69	<56	<30
Prometon	µg/kg (dry weight)	<69	<56	<30
Prometryn	µg/kg (dry weight)	<69	<56	<30
Propargite	µg/kg (dry weight)	<340	<280	<150
Propazine	µg/kg (dry weight)	<69	<56	<30
Propetamphos	µg/kg (dry weight)	<69	<56	<30
Simazine	µg/kg (dry weight)	<69	<56	<30
Simetryn	µg/kg (dry weight)	<69	<56	<30
Sulprofos	µg/kg (dry weight)	<340	<280	<150
Tebuconazole	µg/kg (dry weight)	<69	<56	<30
Terbutylazine	µg/kg (dry weight)	<69	<56	<30
Terbutryn	µg/kg (dry weight)	<69	<56	<30
Tetrachlorvinphos	µg/kg (dry weight)	<69	<56	<30
trans-Permethrin	µg/kg (dry weight)	<340	<280	<150

Sample ID Client ID Method Start Date Result

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Area - ORGANIC

237402	MFK-Z-B3 - Sed Organics	OLCSCAN* - LC/MS Scan	22/08/2023	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).
237406	MFK-Z-P8 - Sed Organics	OLCSCAN* - LC/MS Scan	22/08/2023	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).
237410	MFK-Z-P7 - Sed Organics	OLCSCAN* - LC/MS Scan	22/08/2023	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).
237414	MFK-Z-P6 - Sed Organics	OLCSCAN* - LC/MS Scan	22/08/2023	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).
237418	MFK-Z-P5 - Sed Organics	OLCSCAN* - LC/MS Scan	22/08/2023	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).
237422	MFK-Z-P4 - Sed Organics	OLCSCAN* - LC/MS Scan	22/08/2023	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).
237426	MFK-Z-P3 - Sed Organics	OLCSCAN* - LC/MS Scan	22/08/2023	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).
237430	MFK-Z-P2 - Sed Organics	OLCSCAN* - LC/MS Scan	22/08/2023	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).
237434	MFK-Z-P1 - Sed Organics	OLCSCAN* - LC/MS Scan	22/08/2023	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).
237438	MFK-Z-E5 - Sed Organics	OLCSCAN* - LC/MS Scan	22/08/2023	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).
237442	MFK-Z-E4 - Sed Organics	OLCSCAN* - LC/MS Scan	22/08/2023	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).
237446	MFK-Z-E3 - Sed Organics	OLCSCAN* - LC/MS Scan	22/08/2023	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).
237450	MFK-Z-E1 - Sed Organics	OLCSCAN* - LC/MS Scan	22/08/2023	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).
237454	MFK-Z-E2 - Sed Organics	OLCSCAN* - LC/MS Scan	22/08/2023	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).
237514	MFK-Z-B2 - Sed Organics	OLCSCAN* - LC/MS Scan	22/08/2023	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).

Tests not covered by NATA accreditation 3040 are denoted with *

Codes: SN = Sample Note

RN = Result Note

RC = Project Comment



Area - OTHER

Sample ID	Client ID	Method	Start Date	Result
237456	MFK-Z-E1 - Chlorophyll	Hold* - Hold	11/08/2023	Sample returned to client.
237461	MFK-Z-E1 - Isotopes	Hold* - Hold	11/08/2023	Sample returned to client.
237463	MFK-Z-E2 - Chlorophyll	Hold* - Hold	11/08/2023	Sample returned to client.
237468	MFK-Z-E2 - Isotopes	Hold* - Hold	11/08/2023	Sample returned to client.
237470	MFK-Z-E3 - Chlorophyll	Hold* - Hold	11/08/2023	Sample returned to client.
237475	MFK-Z-E3 - Isotopes	Hold* - Hold	11/08/2023	Sample returned to client.
237477	MFK-Z-E4 - Chlorophyll	Hold* - Hold	11/08/2023	Sample returned to client.
237482	MFK-Z-E4 - Isotopes	Hold* - Hold	11/08/2023	Sample returned to client.
237484	MFK-Z-E5 - Chlorophyll	Hold* - Hold	11/08/2023	Sample returned to client.
237489	MFK-Z-E5 - Isotopes	Hold* - Hold	11/08/2023	Sample returned to client.
237491	MFK-Z-B1 - Chlorophyll	Hold* - Hold	11/08/2023	Sample returned to client.
237496	MFK-Z-B1 - Isotopes	Hold* - Hold	11/08/2023	Sample returned to client.
237498	MFK-Z-B2 - Chlorophyll	Hold* - Hold	11/08/2023	Sample returned to client.
237503	MFK-Z-B2 - Isotopes	Hold* - Hold	11/08/2023	Sample returned to client.
237505	MFK-Z-B3 - Chlorophyll	Hold* - Hold	11/08/2023	Sample returned to client.
237510	MFK-Z-B3 - Isotopes	Hold* - Hold	11/08/2023	Sample returned to client.

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Area - OTHER

237400	MFK-Z-B3 - Sed Isotopes	Hold* - Hold	11/08/2023	Sample returned to client.
237404	MFK-Z-P8 - Sed Isotopes	Hold* - Hold	11/08/2023	Sample returned to client.
237408	MFK-Z-P7 - Sed Isotopes	Hold* - Hold	11/08/2023	Sample returned to client.
237412	MFK-Z-P6 - Sed Isoptopes	Hold* - Hold	11/08/2023	Sample returned to client.
237416	MFK-Z-P5 - Sed Isoptopes	Hold* - Hold	11/08/2023	Sample returned to client.
237420	MFK-Z-P4 - Sed Isoptopes	Hold* - Hold	11/08/2023	Sample returned to client.
237424	MFK-Z-P3 - Sed Isotopes	Hold* - Hold	11/08/2023	Sample returned to client.
237428	MFK-Z-P2 - Sed Isotopes	Hold* - Hold	11/08/2023	Sample returned to client.
237432	MFK-Z-P1 - Sed Isotopes	Hold* - Hold	11/08/2023	Sample returned to client.
237436	MFK-Z-E5 - Sed Isoptopes	Hold* - Hold	11/08/2023	Sample returned to client.
237440	MFK-Z-E4 - Sed Isoptopes	Hold* - Hold	11/08/2023	Sample returned to client.
237444	MFK-Z-E3 - Sed Isoptopes	Hold* - Hold	11/08/2023	Sample returned to client.
237448	MFK-Z-E1 - Sed Isoptopes	Hold* - Hold	11/08/2023	Sample returned to client.
237452	MFK-Z-E2 - Sed Isotopes	Hold* - Hold	11/08/2023	Sample returned to client.
237512	MFK-Z-B2 - Sed Isotopes	Hold* - Hold	11/08/2023	Sample returned to client.

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

<i>Method code</i>	<i>Method description</i>	<i>Area</i>
External Methods*	External Methods - Analysis completed externally	EXTERNAL
External Methods*	External Methods - Analysis completed externally	EXTERNAL
External Methods*	External Methods - Analysis completed externally	EXTERNAL
FMPSDA*	Determination of Particle Size by Light Scattering	FORENSIC
ICPAES	Acid extractable element analysis by Inductively Coupled Plasma-Atomic Emission Spectrometry (ICPAES)	INORGANIC
IMSGR	Moisture in Solids - oven dried - with variations at 40°C and/or 105°C	INORGANIC
QQQPEST	Determination of Multiresidue Pesticides by GCMSMS	ORGANIC
OLCSCAN*	Qualitative LC/MS scan	ORGANIC
Hold*	Sample held pending further requests for analysis	OTHER

The results in this report were authorised by:

<i>Name</i>	<i>Title</i>	<i>Area</i>
████████████████████	Scientist	EXTERNAL
████████████████████	Scientist	FORENSIC
████████████████████	Scientist	INORGANIC
██████████	Senior Scientist	ORGANIC
████████████████████	Scientist	OTHER

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Codes: SN = Sample Note

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