



21 June 2024

For: Brian Betts

Authored by: Strider Duerinckx

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2324-181-02	A	6/6/24	Client
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Appendix A Laboratory Reports

1 Introduction

Earth Water Consulting Pty Limited (EWC) was engaged by Brian Betts (the "Client") to undertake an Environmental Site Assessment (ESA) of former banana plantation land at 29 & 30 Charlesworth Bay Road, Korora) (the "Site") (Figure 1).

1.1 Objectives

The objective of this investigation was to undertake an assessment of the property to CHCC and NSW EPA (1997) requirements to ensure that potential soil contamination as a result of former banana cultivation would not limit the proposed residential land use.

1.2 Suitability to Undertake Works

Strider Duerinckx has project managed and signs off on this investigation. Strider is an environmental geologist with 25 years experience in contaminated sites investigations including numerous banana plantation assessments. Strider is a CEnvP (Site Contamination Specialist) accredited.

2 Proposed Development

It is understood that it is proposed to develop the two properties comprising 8,276m² in area for residential land use, with six (6) new lots between 752m² and 900m², with associated building envelopes (Figure 2). The Site is the last mainly undeveloped land on the street and represents infill development. All surrounding properties have been developed.

3 Scope of Work

The assessment included:

- A desktop review of aerial photographs and historical ownership records to confirm banana plantation locations and any decommissioned packing sheds, fuel or chemical storage areas;
- Based on NSW EPA (1997) guidelines and a site inspection, composite sampling in a grid across the proposed development area plus discrete sampling of previously developed areas; and
- Presentation of this contamination report including sample descriptions, sample locations, sample analytical results, and conclusions regarding the presence or absence of shallow surface contamination, and recommendations for further investigations or remediation (as required).

4 Site Description

4.1 Site Identification

The Site is a composite of 29 and 30 Charlesworth Bay Road (Table 1 and Figure 1).

Table 1: Property Details

Street Address	Lot	DP	Property Size (m ²)
29 Charlesworth Bay Road, Korora	5	270532	7,321
30 Charlesworth Bay Road, Korora	4	270532	955

4.2 Location and Features

The Site is located on a small community access road at the eastern end of Charlesworth Bay Road and to the south of Charlesworth Bay (Figure 1).

The Site sits on the western side of Diggers Head, which is a steep coastal headland, dropping sharply to the north, east and south and bordered by ocean. Lot 5 covers the majority of the Site and is mostly cleared residential land with the primary residence located at the eastern end. The lots are divided by the access road, with sections situated to the north and south.

The two lots are bordered by C1 National Parks and Nature Reserves zoned area to the north, east and south, and are located within an R2 Low Density Residential area.



Photograph 1 – Looking east from the access road across Lot 5 with the existing dwelling at top left of picture and Proposed Lots 9-11 on the RH side.

4.3 Surrounding Land Use

The surrounding land use includes developed residential land to the south and west and Coffs Coast Regional Park to the east and north.

5 Site History

5.1 Mapped BP Land

A review of the Coffs Harbour City Council LEP mapping indicates that a significant portion of the Site and surrounds to the south and west are mapped as having been under banana cultivation between 1943 and 1994 (Figure 3). The total area of the Site impacted by the historical banana plantation is ~6,800m², but of that only 4,000m² is proposed to be redeveloped in Lots 8-13.

5.2 Previous Environmental Investigations

No previous environmental investigations are known to have been undertaken on the Site.

The Site is mapped by CHCC as BCL1, which means identified as previous banana cultivation area and not yet sampled or classified.

5.3 Aerial Photographs

A review of aerial photographs from 1954-2010 (Table 2) indicates that the Site was located on a broadacre banana cultivation area. The banana cultivation on the property was present in 1954 and 1973, but not present in 1984 and later. A shed was present to the east of the existing dwelling between 1964 – 1973 (Figure 4), however was located outside the development area and mainly offsite to the east.

Year	Site Details	Adjacent Properties
1954	Site is cleared with some signs of agricultural development. Banana cultivation is present. No structures are present.	No residential development. Relic native bush to the south, southwest and along the western edge of Charlesworth Bay. Patches of cleared agricultural land to the southwest, west and northwest. Charlesworth Bay Road is not sealed. Diggers Head to the east is mostly cleared.
1964	Dwelling is present on 29 Charlesworth Bay Road. A large portion of the Site is under banana cultivation.	Banana cultivation is evident to the south and west of the target property. Further clearing has occurred to the southwest. An access track is present from the end of Charlesworth Bay Road to Charlesworth Bay and a track is present to the south of the property connecting Diggers Beach to Charlesworth Bay Road. A dwelling is present at the location of what is now Timber Top Drive.
1973	The existing dwelling has been expanded and a shed	Banana cultivation is ongoing to the west and south of the Site. A dam is present west of Charlesworth Bay.

Table 2: Historical Photographs

29 & 30 Charlesworth Bay Road, Korora

Year	Site Details	Adjacent Properties
	is present to the east of the dwelling. The Site is still under banana cultivation.	Two new dwellings are present along the northern side of Charlesworth Bay Road.
1984	Banana cultivation has ceased at the Site. The shed to the east of the dwelling has been removed.	Banana cultivation is ongoing at the western end of modern-day Timbertops Drive. Paddocks to the south of the Site are fallow. A dirt track is present linking the Site to the end of Diggers Head.
1989	As per 1984.	A residence is present to the west of the Site boundary. No banana cultivation is present. Charlesworth Bay Road and Firman Drive are sealed. Extensive clearing is evident to the northwest, west and southwest of the Site. The Solitary Islands Aquarium has been constructed to the west of the Site and Anuka Beach Resort is present to the south of the Site. Charlesworth Bay Resort is present to the west of Charlesworth Bay.
1994	As per 1989 except with some maturation of landscape vegetation.	As per 1989 except further residential expansion to the south, southwest and west. Diggers Headland Place has been constructed and sealed.
2004	As per 1994.	Further residential expansion to the west, southwest and south. Meadowlands Crescent, Timbertops Drive and Driftwood Close are present to the southwest. Diggers Head has established vegetation.
2010	As per 2004.	As per 2004 except the dwelling at 31 Charlesworth Bay Road to the east of the Site is present.

5.4 NSW EPA Records

A search of the NSW EPA's contaminated land record revealed no investigation or remediation notices have been issued on the Site or adjacent properties for contamination or 'significant risk of harm' under Section 58 of the Contaminated Land Management Act 1997.

A search of the public register under Section 308 of the Protection of the Environment Operations Act indicated that no current and recently surrendered licenses have been held for potentially contaminating activities on the Site or adjacent properties.

5.5 Previous Ownership Records

A search of historical owners was undertaken of the Site. The results are summarised in Table 3.

Table 3: Historical Ownership

Date	Detail
10.12.1907	Betsy McLean (Married Woman)
(1907 to 1913)	Betsy McLean (Married Woman)
13.10.1913	Murdoch McLean (Hotelkeeper)
(1913 to 1914)	(Transmission Application – not investigated)
23.05.1914	James Pettit Hammond (Farmer)
(1914 to 1931)	
26.02.1931	Frederick Sydney Billyard (Builder)
(1931 to 1939)	
23.10.1939	Harold Lochtie Bunny (Farmer)
(1939 to 1953)	
18.11.1953	Robert Needham Limbert (Banana Grower)
(1953 to 1956)	(Obert Needhan Linbert (Banana Grower)
12.12.1956	Modern Home Builders Pty Limited
(1956 to 1959)	Modern nome Builders Fty Limited
23.06.1959	Christopher James Humphreys (Poultry Farmer)
(1959 to 1966)	Mauda Ada Humphreys (Married Woman)
05.04.1966	Phillip Clive Hogbin (Company Director)
(1966 to 1972)	Ada Phyllis Hogbin (Married Woman)
22.02.1972	Clive Hogbin Holdings Pty Ltd
(1972 to 1980)	Cive hogoin holdings Fty Ltd
04.05.1980	Keith Tolhurst
(1980 to 1997)	Betty May Tolhurst
12.06.1997	Betty May Tolhurst
(1997 to 2024)	
06.05.2024	# Brian Edward Betts
(2024 to date)	# Leesa Gay Betts

5.6 Summary of Site History

The historical review confirmed that the Site was under banana cultivation between at least 1954 to 1984 and banana cultivation continued on surrounding farms until at least 1989. Little change occurred at the Site between 1984 and present, with the only exception being the construction of the adjacent dwelling at 31 Charlesworth Bay Road prior to 2010.

The Site transferred ownership through various people from 1907 onwards, with "farmers" holding the property from 1914 until 1953, when a banana grower purchased the property. Residential

expansion dominated the surrounding landscape between 1989 and 2004, with all surrounding agricultural activities ceasing prior to 1989.

6 Potential Areas and Contaminants of Concern

Based on the site history and a walkover, Areas of Environmental Concern (AECs) and associated Contaminants of Concern (CoC) were identified for the Site. These are presented in Table 4. Table 4: Potential AEC and CoC

AEC	Potential Contaminating Activity	CoC	Likelihood of Contamination	Comment
1	Broadscale shallow contamination from banana cultivation	OCP (Aldrin, dieldrin and DDT), heavy metals (arsenic and lead)	Moderate for OCP (dieldrin) and metals (arsenic and lead)	In 1994, the NSW EPA, Department of Agriculture and Coffs Harbour City Council undertook a study of banana
2	Shed potential hotspot.	OCP, As and Pb	Moderate	plantations in the Coffs Harbour area, and developed a specific set of guidelines to assess these former agricultural properties. A number of typical CoC were identified and contaminant distribution models developed.
Notes OCP = O	rganochlorine Pesticide	s		

7 Investigation Criteria

The soil investigation levels for banana plantation contamination (OCP, arsenic and lead) were adopted from the NSW EPA (1997) Guidelines. These are comparable to health-based investigation levels for residential sites with access to soil for home grown vegetables at less than the 10% of the daily intake, that are provided in NEPM (NEPC 2013) Guidelines. The investigation criteria are shown in the attached Table LR1.

8 Sampling Program

The sampling program was based on the NSW EPA (1997) Guidelines which were developed specifically for former banana plantation properties. Sampling was undertaken on 13 May 2024, and on 11 June 2024, by a trained EWC environmental scientist. In accordance with s2.1.1 for a 6,800m² former broadacre plantation area, 28 samples are required at about an 11.9m grid, composited with a maximum of 4 subsamples per composite (C-1 to C-7). Additional sampling was conducted to clear the remainder of the area to be redeveloped at about a 12m grid, despite it not being mapped as former banana plantation, with four samples composited (C-8 and C-9).

In accordance with s2.1.2 further sampling was conducted on the residual Lot around the existing dwelling with 5 discrete samples taken to the west, south and east of the building (D-1 to D-5.

In accordance with s2.2 for potential hotspots around former packing sheds, two samples were collected in a 5m grid around the former shed location at the eastern property boundary for discrete analysis (D-6 and D-7) (Figure 4).

A total of 43 sample locations were collected in a grid and the first 36 samples composited into 9 composites for analysis. The remaining 7 samples were analysed as discrete samples. All composite and discrete samples were analysed for Arsenic (As), Lead (Pb) and OCP pesticides.

9 Results

9.1 Sample Descriptions

The sampling locations are presented in Figure 4, with sample details provided in Table 5.

Table 5: Sample Descriptions

Sample ID	Depth	Description	Composite ID
S-1	0-75mm	Topsoil, grey brown clay loam	C-1
S-2	0-75mm	Topsoil, grey brown clay loam	C-1
S-3	0-75mm	Topsoil, grey brown clay loam	C-1
S-4	0-75mm	Topsoil, grey brown clay loam	C-1
S-5	0-75mm	Topsoil, grey brown clay loam	C-2
S-6	0-75mm	Topsoil, grey brown clay loam	C-2
S-7	0-75mm	Topsoil, grey brown clay loam	C-2
S-8	0-75mm	Topsoil, grey brown clay loam	C-2
S-9	0-75mm	Topsoil, grey brown clay loam	C-3
S-10	0-75mm	Topsoil, grey brown clay loam	C-3
S-11	0-75mm	Topsoil, grey brown clay loam	C-3
S-12	0-75mm	Topsoil, grey brown clay loam	C-3
S-13	0-75mm	Topsoil, grey brown clay loam	C-4
S-14	0-75mm	Topsoil, grey brown clay loam	C-4
S-15	0-75mm	Topsoil, grey brown clay loam	C-4
S-16	0-75mm	Topsoil, grey brown clay loam	C-4

Sample ID	Depth	Description	Composite ID
S-17	0-75mm	Topsoil, grey brown clay loam	C-5
S-18	0-75mm	Topsoil, grey brown clay loam	C-5
S-19	0-75mm	Topsoil, grey brown clay loam	C-5
S-20	0-75mm	Topsoil, grey brown clay loam	C-5
S-21	0-75mm	Topsoil, grey brown clay loam	C-6
S-22	0-75mm	Topsoil, grey brown clay loam	C-6
S-23	0-75mm	Topsoil, grey brown clay loam	C-6
S-24	0-75mm	Topsoil, grey brown clay loam	C-6
S-25	0-75mm	Topsoil, grey brown clay loam	C-7
S-26	0-75mm	Topsoil, grey brown clay loam	C-7
S-27	0-75mm	Topsoil, grey brown clay loam	C-7
S-28	0-75mm	Topsoil, grey brown clay loam	C-7
S-29	0-75mm	Topsoil, grey brown clay loam	C-8
S-30	0-75mm	Topsoil, grey brown clay loam	C-8
S-31	0-75mm	Topsoil, grey brown clay loam	C-8
S-32	0-75mm	Topsoil, grey brown clay loam	C-8
S-33	0-75mm	Topsoil, grey brown clay loam	C-9
S-34	0-75mm	Topsoil, grey brown clay loam	C-9
S-35	0-75mm	Topsoil, grey brown clay loam	C-9
S-36	0-75mm	Topsoil, grey brown clay loam	C-9
D-1	0-75mm	Topsoil, grey brown clay loam	Discrete
D-2	0-75mm	Topsoil, grey brown clay loam	Discrete
D-3	0-75mm	Topsoil, grey brown clay loam	Discrete
D-4	0-75mm	Topsoil, grey brown clay loam	Discrete
D-5	0-75mm	Topsoil, grey brown clay loam	Discrete
D-6	0-75mm	Topsoil, grey brown clay loam	Discrete
D-7	0-75mm	Topsoil, grey brown clay loam	Discrete

10 Analytical Results

Samples were forwarded under Chain of Custody conditions at Eurofins Laboratory for analysis. The laboratory reports are included in Appendix A and the soil analytical results are summarised in the attached Table LR1.

10.1 Soil Analytical Results

Comparison of composite sample results to the investigation criteria indicated that:

- Concentrations of OCP were reported below the laboratory Limit of Reporting (LOR) for all samples analysed; and
- Concentrations of arsenic and lead were reported below the Investigation Criteria for all samples analysed.

Comparison of discrete sample results to the investigation criteria indicated that:

- Concentrations of OCP were reported below the laboratory Limit of Reporting (LOR) for all samples analysed; and
- Concentrations of arsenic and lead were reported below the Investigation Criteria for all samples analysed.

95% Upper Confidence Limits (UCLs) were not required to be calculated as all results were reported to less than the Investigation Criteria.

10.2 Quality Assurance and Quality Control

10.2.1 Field Quality Control

Environmental sampling activities were based on industry accepted standard practices.

The sampling equipment was decontaminated between sampling locations by washing with detergent and rinsing with clean water. A new pair of disposable gloves was used when handling each soil sample. Samples were collected in laboratory supplied jars and shipped in a chilled esky to the laboratory.

10.2.2 Laboratory Quality Control

Primary samples were submitted to Eurofins Laboratory, which is a national laboratory that undertakes analyses to NATA accredited analytical methodologies, and participates in NATA endorsed laboratory round robin analyses. Laboratory Quality Control included testing and reporting of reagent blanks, laboratory control samples (LCS), matrix spikes and surrogates spikes, and laboratory duplicates to assess laboratory quality control.

The laboratory quality assurance results are included within the laboratory reports attached in Appendix A. No exceptions to the laboratory quality control reportable limits were noted.

10.2.3 Data Quality Check

The quality assurance and quality control of the field and laboratory methods is considered sufficiently robust for the investigation undertaken. Given this, it is concluded that the analytical results dataset reliably represents soil concentrations in the field as sampled.

11 Conclusions and Recommendations

The field and analytical results confirm that historical usage of the property as a banana plantation has not resulted in any significant arsenic, lead or OCP contamination across the Site. All results were well below the investigation criteria for residential landuse.

As such the entire Site is considered suitable for the proposed and ongoing residential redevelopment, and no further investigations or remediation of soils is required for the residential use of the Site.

12 References

Coffs Harbour City Council. 2017. Contaminated Land Management Policy

Coffs Harbour City Council. 2018. Contaminated Land Management Procedure

Coffs Harbour City Council Local Environmental Plan 2013.

NEPC. 2013. National Environment Protection (Assessment of Site Contamination) Measure. Schedule B1-Schedule B1 Guideline on Investigation Levels For Soil and Groundwater. National Environment Protection Council.

NSW EPA. 1997. Guidelines for Assessing Banana Plantation Sites. Reprinted 2003.



Table LR1: Summary of Soil Analytical Results

Sample ID		LOR		Investigatio	n Criteria	ı	C-1	C-2	C-3	C-4	C-5	C-6	C-7	C-8	C-9	D-1	D-2	D-3	D-4	D-5	D-6	D-7
Date Collected			NSW EPA		NEPM					13/05/202	4							11/06/202	24			
Type of Sample								Composite							Discrete							
Depth Collected	Units	Eurofins	BP	HIL (A)	EIL	HSL (A)	0 - 75	0 - 75	0 - 75	0 - 75	0 - 75	0 - 75	0 - 75	0 - 75	0 - 75	0 - 75	0 - 75	0 - 75	0 - 75	0 - 75	0 - 75	0 - 75
% Moisture	%	1	-	-	-	-	32	35	26	37	31	33	33	29	21	26	31	28	21	17	28	25
Heavy Metals		-		-				-		_	_	-	_						_			
Arsenic	mg/kg	2	100	100	100	-	17	21	14	18	17	24	21	23	7.1	4.9	22	16	16	8.3	27	16
Lead	mg/kg	5	300	300	1100	-	16	16	17	19	22	21	25	23	22	27	18	19	18	30	18	18
Organochlorine Pesticides		-	-	-																		
4.4'-DDD	mg/kg	0.05	-	-	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	mg/kg	0.05	-	-	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	mg/kg	0.05	50	-	180	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
a-BHC	mg/kg	0.05	-	-	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	mg/kg	0.05	-	-	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin and Dieldrin (Total)*	mg/kg	0.05	10	6	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
b-BHC	mg/kg	0.05	-	-	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chlordanes - Total	mg/kg	0.1	-	50	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
d-BHC	mg/kg	0.05	-	-	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	mg/kg	0.05	-	240	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	mg/kg	0.05	-	-	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	mg/kg	0.05	-	- 270	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	mg/kg	0.05	-	7	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	mg/kg	0.05	-	-	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	mg/kg	0.05	-	10	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	mg/kg	0.05	-	-	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	mg/kg	0.05	-	-	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
g-BHC (Lindane)	mg/kg	0.05	-	-	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	mg/kg	0.05	-	6	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	mg/kg	0.05	-	-	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene (HCB)	mg/kg	0.05	-	10	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	mg/kg	0.05	-	300	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	mg/kg	0.1	-	20	-	-	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

Notes

Indicates sample concentration exceeds investigation criteria

Indicates sample concentration exceeds investigation criteria value by >250%

















™ Mapped Band	^{FIGURE} Figure 3							
	SHEET 1 OF1 ISSUE A							
	DESA for 29 & 30 Charlesworth Bay Road, Korora							
AUTHOR	PROJECT							
SD	04/06/24	1:500	2324–181					

LEGEND

Property Boundary

BP Extent

BP Extent on the Site



•

Sample Location

Contour Line (1m)

AUTHOR	DATE	SCALE
SD	19/06/24	1

ocations	^{FIGURE} Figure 4
	sheet 1 of 1 ^{issue} A
lesworth	CLIENT Brian Betts
	PROJECT
1:500	2324–181





Earth Water Consulting Pty Limited 2-16 Lourdes Avenue Urunga **NSW 2455**





NATA Accredited Accreditation Number 1261 Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention:

Strider Duerinckx

Report Project name Project ID **Received Date** 1096852-S 27+29 CHARLESWORTH BAY RD 2324-181 May 14, 2024

Client Sample ID			C-1	C-2	C-3	C-4
Sample Matrix			Soil	Soil	Soil	Soil
			S24-	S24-	S24-	S24-
Eurofins Sample No.			Му0037667	My0037672	Му0037677	My0037682
Date Sampled			May 13, 2024	May 13, 2024	May 13, 2024	May 13, 2024
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	85	80	78	85
Tetrachloro-m-xylene (surr.)	1	%	77	74	75	75
Heavy Metals						
Arsenic	2	mg/kg	17	21	14	18
Lead	5	mg/kg	16	16	17	19
Sample Properties						
% Moisture	1	%	32	35	26	37



Client Sample ID			C-5	C-6	C-7
Sample Matrix			Soil	Soil	Soil
			S24-	S24-	S24-
Eurofins Sample No.			My0037687	My0037692	Му0037697
Date Sampled			May 13, 2024	May 13, 2024	May 13, 2024
Test/Reference	LOR	Unit			
Organochlorine Pesticides		_			
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	83	81	89
Tetrachloro-m-xylene (surr.)	1	%	77	77	77
Heavy Metals					
Arsenic	2	mg/kg	17	24	21
Lead	5	mg/kg	22	21	25
Sample Properties					
% Moisture	1	%	31	33	33



Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description Organochlorine Pesticides	Testing Site Sydney	Extracted May 21, 2024	Holding Time 14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water		,	
Heavy Metals	Sydney	May 21, 2024	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
% Moisture	Sydney	May 14, 2024	14 Days
- Method: LTM-GEN-7080 Moisture			

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veb: ww	w.eurofins.com.au nviroSales@eurofins.com	6 Monterey Ro Dandenong S VIC 3175 +61 3 8564 50	South Grovedale VIC 3216	Girraween NSW 2145 5000 +61 2 9900 840 NATA# 1261	Canberra Road Unit 1,2 Dacre Stree Mitchell ACT 2911 0 +61 2 6113 8091 NATA# 1261 Site# 25466	Murarı QLD 4	5mallwoo rie 4172 7 3902 # 1261	od Place 4600	Newcastl 1/2 Frost I Mayfield V NSW 230 +61 2 496 NATA# 12 Site# 250	t Welshpool WA 6106 448 +61 8 6253 4444 NATA# 2377	Perth ProMicro 46-48 Banksia Road Welshpool WA 6106 +61 8 6253 4444 NATA# 2561 Site# 2554	Auckland 35 O'Rorke Road Penrose, Auckland 1061 +64 9 526 4551 IANZ# 1327	Auckland (Focus) Unit C1/4 Pacific Rise, Mount Wellington, Auckland 1061 +64 9 525 0568 IANZ# 1308	Christchurch 43 Detroit Drive Rolleston, Christchurch 7675 +64 3 343 5201 IANZ# 1290	Tauranga 1277 Cameron Ro Gate Pa, Tauranga 3112 +64 9 525 0568 IANZ# 1402
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	ject Name: ject ID:	27+29 CHAF 2324-181	RLESWORTI	H BAY RD							E	urofins Analytical	Services Manago	er : Andrew B	lack
Sample Detail					Arsenic	Lead	Organochlorine Pesticides	Moisture Set							
Sydn	ey Laboratory -	NATA # 1261	Site # 18217			x	x	x	X						
	ey Laboratory - 'nal Laboratory	NATA # 1261	Site # 18217			x	x	x	x						
Exter	nal Laboratory	NATA # 1261 Sample Date	1	Matrix	LAB ID	X	X	X	×						
Exter No	C-1 I		Sampling	Matrix Soil	LAB ID S24-My0037667	x	x	x	x						
Exter No	C-1 I C-2 I	Sample Date May 13, 2024 May 13, 2024	Sampling	Matrix Soil Soil	S24-My0037667 S24-My0037672	X X	X X	x x x	X X X						
Exter No 1 2 3	nal LaboratorySample IDC-1IC-2IC-3I	Sample Date May 13, 2024 May 13, 2024 May 13, 2024	Sampling	Matrix Soil Soil Soil	S24-My0037667 S24-My0037672 S24-My0037677	X X X	X X X	x x x x	X X X X						
Exter No	Imal Laboratory Sample ID C-1 I C-2 I C-3 I C-4 I	Sample Date May 13, 2024 May 13, 2024	Sampling	Matrix Soil Soil Soil Soil	S24-My0037667 S24-My0037672 S24-My0037677 S24-My0037682	X X X X	X X X X X	X X X X X	X X X X X						
Exter No 1 2 3 4 5	Image: Constraint of the second sec	Sample Date May 13, 2024 May 13, 2024 May 13, 2024 May 13, 2024 May 13, 2024	Sampling	Matrix Soil Soil Soil Soil Soil	S24-My0037667 S24-My0037672 S24-My0037677 S24-My0037682 S24-My0037687	X X X X X X	x x x x x x x	X X X X X X	X X X X X X X						
Exter No 1 2 3 4 5 6	Image: Constraint of the second sec	Sample Date May 13, 2024 May 13, 2024	Sampling	Matrix Soil Soil Soil Soil Soil Soil	S24-My0037667 S24-My0037672 S24-My0037677 S24-My0037682	X X X X	X X X X X	X X X X X	X X X X X						



Internal Quality Control Review and Glossary

General

- 1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follow guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013. They are included in this QC report where applicable. Additional QC data may be available on request.
- 2. Unless otherwise stated, all soil/sediment/solid results are reported on a dry weight basis.
- 3. Unless otherwise stated, all biota/food results are reported on a wet weight basis on the edible portion.
- 4. For CEC results where the sample's origin is unknown or environmentally contaminated, the results should be used advisedly.
- 5. Actual LORs are matrix dependent. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- 6. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds where annotated.
- 7. SVOC analysis on waters is performed on homogenised, unfiltered samples unless noted otherwise.
- 8. Samples were analysed on an 'as received' basis.
- 9. Information identified in this report with blue colour indicates data provided by customers that may have an impact on the results.
- 10. This report replaces any interim results previously issued.

Holding Times

Please refer to the 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours before sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and despite any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the sampling date; therefore, compliance with these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether, the holding time is seven days; however, for all other VOCs, such as BTEX or C6-10 TRH, the holding time is 14 days.

Units		
mg/kg: milligrams per kilogram	mg/L: milligrams per litre	ppm: parts per million
μg/L: micrograms per litre	ppb: parts per billion	%: Percentage
org/100 mL: Organisms per 100 millilitres	NTU: Nephelometric Turbidity Units	MPN/100 mL: Most Probable Number of organisms per 100 millilitres
CFU: Colony Forming Unit	Colour: Pt-Co Units (CU)	

Terms

I Inite

Terms	
APHA	American Public Health Association
CEC	Cation Exchange Capacity
COC	Chain of Custody
СР	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where moisture has been determined on a solid sample, the result is expressed on a dry weight basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples, these are performed on laboratory-certified clean sands and in the case of water samples, these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC represents the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a similar compound to the analyte target is reported as percentage recovery. See below for acceptance criteria.
твто	Tributyltin oxide (bis-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment; however, free tributyltin was measured, and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 6.0
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should only be used as a guide and may be different when site-specific Sampling Analysis and Quality Plan (SAQP) have been implemented.

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is <30%; however, the following acceptance guidelines are equally applicable:

Results <10 times the LOR:	No Limit
Results between 10-20 times the LOR:	RPD must lie between 0-50%
Results >20 times the LOR:	RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range, not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 - 150%, VOC recoveries 50 - 150%

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 6.0, where no positive PFAS results have been reported or reviewed, and no data was affected.

QC Data General Comments

- 1. Where a result is reported as less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
- 2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown are not data from your samples.
- 3. pH and Free Chlorine analysed in the laboratory Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
- 4. Recovery Data (Spikes & Surrogates) where chromatographic interference does not allow the determination of recovery, the term "INT" appears against that analyte.
- 5. For Matrix Spikes and LCS results, a dash "-" in the report means that the specific analyte was not added to the QC sample.
- 6. Duplicate RPDs are calculated from raw analytical data; thus, it is possible to have two sets of data.



Quality Control Results

Test	Units	Result 1	Acceptanc Limits	e Pass Limits	Qualifying Code
Method Blank					
Heavy Metals					
Arsenic	mg/kg	< 2	2	Pass	
Lead	mg/kg	< 5	5	Pass	
Method Blank		•	· · · · ·		
Organochlorine Pesticides					
Chlordanes - Total	mg/kg	< 0.1	0.1	Pass	
4.4'-DDD	mg/kg	< 0.05	0.05	Pass	
4.4'-DDE	mg/kg	< 0.05	0.05	Pass	
4.4'-DDT	mg/kg	< 0.05	0.05	Pass	
a-HCH	mg/kg	< 0.05	0.05	Pass	
Aldrin	mg/kg	< 0.05	0.05	Pass	
b-HCH	mg/kg	< 0.05	0.05	Pass	
d-HCH	mg/kg	< 0.05	0.05	Pass	
Dieldrin	mg/kg	< 0.05	0.05	Pass	
Endosulfan I	mg/kg	< 0.05	0.05	Pass	
Endosulfan II	mg/kg	< 0.05	0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05	0.05	Pass	
Endrin	mg/kg	< 0.05	0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05	0.05	Pass	
Endrin ketone	mg/kg	< 0.05	0.05	Pass	
g-HCH (Lindane)	mg/kg	< 0.05	0.05	Pass	
Heptachlor	mg/kg	< 0.05	0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05	0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05	0.05	Pass	
Methoxychlor	mg/kg	< 0.05	0.05	Pass	
Toxaphene	mg/kg	< 0.00	0.5	Pass	
LCS - % Recovery		< 0.0	0.0	1 400	
Heavy Metals					
Arsenic	%	107	80-120	Pass	
Lead	%	95	80-120	Pass	
LCS - % Recovery	70		00120	1 433	
Organochlorine Pesticides				1	
Chlordanes - Total	%	92	70-130	Pass	
4.4'-DDD	%	96	70-130	Pass	
4.4'-DDE	%	94	70-130	Pass	
4.4-DDL 4.4'-DDT	%	112	70-130	Pass	
a-HCH	%	94	70-130	Pass	
Aldrin	%	94	70-130	Pass	
	%	93			
b-HCH d-HCH	%		70-130	Pass	
		91	70-130	Pass	
Dieldrin	%	90	70-130	Pass	
Endosulfan I	%	96	70-130	Pass	
Endosulfan II	%	95	70-130	Pass	
Endosulfan sulphate	%	100	70-130	Pass	
Endrin	%	101	70-130	Pass	
Endrin aldehyde	%	87	70-130	Pass	
Endrin ketone	%	99	70-130	Pass	
g-HCH (Lindane)	%	94	70-130	Pass	
Heptachlor	%	92	70-130	Pass	
Heptachlor epoxide	%	85	70-130	Pass	
Hexachlorobenzene	%	92	70-130	Pass	
Methoxychlor	%	103	70-130	Pass	



Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S24-My0055678	NCP	%	106			75-125	Pass	
Lead	S24-My0055678	NCP	%	98			75-125	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	S24-My0037687	CP	%	31	32	1.9	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S24-My0037697	СР	mg/kg	21	17	20	30%	Pass	
Lead	S24-My0037697	CP	mg/kg	25	21	18	30%	Pass	



Comments

Sample Integrity	
Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Authorised by:

Andrew Black Mickael Ros Roopesh Rangarajan Roopesh Rangarajan Analytical Services Manager Senior Analyst-Metal Senior Analyst-Organic Senior Analyst-Sample Properties

Glenn Jackson Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested
- * Indicates NATA accreditation does not cover the performance of this service
- Measurement uncertainty of test data is available on request or please click here.

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Quote ID i	Nº		ų.	PO d	0	a,	11								500ml	125ml	200mL.Au	S00mL I	Jar (Glas	Other()
Na	Client Sample ID	Sampled Date/Time	Matrix Solia (S)	Compo	As	2					1.5									Sample Comments
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Submission of samples to the laboratory will be dearned as acceptance of Eurofins | mgl Standard Terms and Conditions unleas agreed otherwise. A copy of Eurofins | mgl Standard Terms and Conditions is available on request.

	CHAIN OF CUSTODY RECOR	Unit Unit	ney Laboratory F3 Bld.F 16 Mars Road Lane 300 8400 EnviroSampleNS1	N@eurofins.com	97 3002 460	allwood Place Murarrie QLD 417		Perth Labo Unit 2 91 Lea 08 9251 960	ach Highway Kewdale W	ratory ch Highway Kewdale WA 6105 EnviroSampleWA@eurofins.com				Melbourne Laboratory 2 Klingslon Town Close Oakleigh VIC 3166 03 8564 5000 EnviroSampleVic@eurofins.com			
Company	Earth Water Consulting Pty Limited	Project N	23	24-181	worth Bas	Project Manager	Shide				mpler(s)		A.				
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	CHAIN OF CUSTODY RECORD Eurofins mgf ABN 50 005 085 521	Sydney Laboratory Unit F3 BK/F 16 Mars Road Lane Cove West NSW 2066 02 9300 8400 EnviroSampleNSW@eurofins.com	Unii 1 21 Smallwood Place Murairie QLD 4172 07 3902 4600 EnviroSampleQLD@eurofins.com	Perth Laboratory Unit 2 91 Leach Highway Kewdale WA 6105 08 9251 9600 EnviroSampleWA@eurofins.com	Melbourne Laboratory 2 Kingston Town Close Oakleigh VIC 3166 08 8564 5000 EnviroSampleVic@eurofins.com			
Company	Earth Water Consulting Pty Limited	Project Ne 2324 - 1825-	Project Manager Shide		A S			
Address	Unit 6 / 1A MArina Crescent, Urunga NSW 2455	Project Ne 2:324 - 15 200- Project Name 27+29 Clorlesure	EDD Format ESdat, EQuis are	Handed over by	A S			
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Earth Water Consulting Pty Limited 2-16 Lourdes Avenue Urunga NSW 2455



NATA

NATA Accredited Accreditation Number 1261 Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Strider Duerinckx

Report Project name Project ID Received Date **1106794-S** 29+30 CHARLESWORTH BAY 2324-181 Jun 12, 2024

Client Sample ID			C-8	C-9	D-1	D-2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S24-Jn0026311	S24-Jn0026316	S24-Jn0026317	S24-Jn0026318
Date Sampled			Jun 11, 2024	Jun 11, 2024	Jun 11, 2024	Jun 11, 2024
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	87	95	111	85
Tetrachloro-m-xylene (surr.)	1	%	101	94	95	67
Heavy Metals	-					
Arsenic	2	mg/kg	23	7.1	4.9	22
Lead	5	mg/kg	23	22	27	18
Sample Properties						
% Moisture	1	%	29	21	26	31



Client Sample ID			D-3	D-4	D-5	D-6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S24-Jn0026319	S24-Jn0026320	S24-Jn0026321	S24-Jn0026322
Date Sampled			Jun 11, 2024	Jun 11, 2024	Jun 11, 2024	Jun 11, 2024
Test/Reference	LOR	Unit				
Organochlorine Pesticides	ł	·				
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	83	83	96	108
Tetrachloro-m-xylene (surr.)	1	%	67	65	65	100
Heavy Metals						
Arsenic	2	mg/kg	16	16	8.3	27
Lead	5	mg/kg	19	18	30	18
Sample Properties						
% Moisture	1	%	28	21	17	28

Client Sample ID Sample Matrix Eurofins Sample No. Date Sampled			D-7 Soil S24-Jn0026323 Jun 11, 2024
Test/Reference	LOR	Unit	
Organochlorine Pesticides			
Chlordanes - Total	0.1	mg/kg	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05
a-HCH	0.05	mg/kg	< 0.05
Aldrin	0.05	mg/kg	< 0.05
b-HCH	0.05	mg/kg	< 0.05
d-HCH	0.05	mg/kg	< 0.05
Dieldrin	0.05	mg/kg	< 0.05



Client Sample ID Sample Matrix			D-7 Soil
Eurofins Sample No.			S24-Jn0026323
Date Sampled			Jun 11, 2024
Test/Reference	LOR	Unit	
Organochlorine Pesticides			
Endosulfan I	0.05	mg/kg	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05
Endrin	0.05	mg/kg	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05
Heptachlor	0.05	mg/kg	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05
Toxaphene	0.5	mg/kg	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1
Dibutylchlorendate (surr.)	1	%	86
Tetrachloro-m-xylene (surr.)	1	%	66
Heavy Metals			
Arsenic	2	mg/kg	16
Lead	5	mg/kg	18
Sample Properties			
% Moisture	1	%	25



Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description Organochlorine Pesticides	Testing Site Sydney	Extracted Jun 13, 2024	Holding Time 14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water		, -	2
Heavy Metals - Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS	Sydney	Jun 13, 2024	28 Days
% Moisture	Sydney	Jun 12, 2024	14 Days
- Method: LTM-GEN-7080 Moisture			

			Environment	Testing	Australia Pty Lt	d						Eurofins ARL	Pty Ltd	Eurofins ProMicro Pty Ltd	Eurofins Enviro	onment Testing NZ	Ltd		
	eurofin	ABN: 50 005										ABN: 91 05 0159	898	ABN: 47 009 120 549	NZBN: 9429046024954				
web: w	ww.eurofins.com.au EnviroSales@eurofins.co	6 Monterey I Dandenong VIC 3175 +61 3 8564	South Groved VIC 32	ewalan Stre dale 16 3564 5000 1261	Girraween NSW 2145	Mitchell ACT 2911	Brisbane t1/21 Smallwood Place Murarrie QLD 4172 T: +61 7 3902 4600 NATA# 1261 Site# 20794 & 2780		od Place	Mayfield West NSW 2304		Perth 46-48 Banksia Road Welshpool WA 6106 +61 8 6253 4444 NATA# 2377 9 Site# 2370		Perth ProMicro 46-48 Banksia Road Welshpool WA 6106 +61 8 6253 4444 NATA# 2561 Site# 2554	Auckland 35 O'Rorke Road Penrose, Auckland 1061 +64 9 526 4551 IANZ# 1327	Auckland (Focus) Unit C1/4 Pacific Rise Mount Wellington, Auckland 1061 +64 9 525 0568 IANZ# 1308	Christchurch 43 Detroit Drive Rolleston, Christchurch 7675 +64 3 343 5201 IANZ# 1290	Tauranga 1277 Cameron Road Gate Pa, Tauranga 3112 +64 9 525 0568 IANZ# 1402	
Company Name: Earth Water Consulting Pty Limited Address: 2-16 Lourdes Avenue Urunga NSW 2455 Project Name: 29+30 CHARLESWORTH BAY Project ID: 2324-181												Order No.: Report #: Phone: Fax:	2324-1 110679 0402 6	94 5083 96	Received: Due: Priority: Contact Na	Jun 19, 5 Day	Duerinckx		
Sample Detail						Arsenic	Lead	Organochlorine Pesticides	Moisture Set					-					
Syd	ney Laboratory	- NATA # 1261	Site # 18	217			х	X	Х	Х									
	ernal Laboratory																		
No	Sample ID	Sample Date	Samplii Time	ng	Matrix	LAB ID													
1	C-8	Jun 11, 2024		Soi	1 5	S24-Jn0026311	х	X	Х	Х									
2	C-9	Jun 11, 2024		Soi		S24-Jn0026316	Х	Х	Х	х									
3	D-1	Jun 11, 2024		Soi		S24-Jn0026317	Х	Х	Х	х									
4	D-2	Jun 11, 2024		Soi		S24-Jn0026318	Х	Х	Х	Х									
5	D-3	Jun 11, 2024		Soi	1	S24-Jn0026319	Х	Х	Х	Х									
6	D-4	Jun 11, 2024		Soi	.	S24-Jn0026320	Х	Х	Х	Х									
7	D-5	Jun 11, 2024		Soi	5	S24-Jn0026321	Х	Х	Х	Х									
8	D-6	Jun 11, 2024		Soi	ı (S24-Jn0026322	Х	X	х	х									
9	D-7	Jun 11, 2024		Soi	I 5	S24-Jn0026323	Х	X	Х	х									
Test	Counts						9	9	9	9									



Internal Quality Control Review and Glossary

General

- 1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follow guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013. They are included in this QC report where applicable. Additional QC data may be available on request.
- 2. Unless otherwise stated, all soil/sediment/solid results are reported on a dry weight basis.
- 3. Unless otherwise stated, all biota/food results are reported on a wet weight basis on the edible portion.
- 4. For CEC results where the sample's origin is unknown or environmentally contaminated, the results should be used advisedly.
- 5. Actual LORs are matrix dependent. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- 6. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds where annotated.
- 7. SVOC analysis on waters is performed on homogenised, unfiltered samples unless noted otherwise.
- 8. Samples were analysed on an 'as received' basis.
- 9. Information identified in this report with blue colour indicates data provided by customers that may have an impact on the results.
- 10. This report replaces any interim results previously issued.

Holding Times

Please refer to the 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours before sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and despite any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the sampling date; therefore, compliance with these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether, the holding time is seven days; however, for all other VOCs, such as BTEX or C6-10 TRH, the holding time is 14 days.

Units		
mg/kg: milligrams per kilogram	mg/L: milligrams per litre	ppm: parts per million
μg/L: micrograms per litre	ppb: parts per billion	%: Percentage
org/100 mL: Organisms per 100 millilitres	NTU: Nephelometric Turbidity Units	MPN/100 mL: Most Probable Number of organisms per 100 millilitres
CFU: Colony Forming Unit	Colour: Pt-Co Units (CU)	

Terms

I Inite

Terms	
APHA	American Public Health Association
CEC	Cation Exchange Capacity
COC	Chain of Custody
СР	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where moisture has been determined on a solid sample, the result is expressed on a dry weight basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples, these are performed on laboratory-certified clean sands and in the case of water samples, these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC represents the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a similar compound to the analyte target is reported as percentage recovery. See below for acceptance criteria.
твто	Tributyltin oxide (bis-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment; however, free tributyltin was measured, and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 6.0
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should only be used as a guide and may be different when site-specific Sampling Analysis and Quality Plan (SAQP) have been implemented.

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is ≤30%; however, the following acceptance guidelines are equally applicable:

Results <10 times the LOR:	No Limit
Results between 10-20 times the LOR:	RPD must lie between 0-50%
Results >20 times the LOR:	RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range, not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 - 150%, VOC recoveries 50 - 150%

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 6.0, where no positive PFAS results have been reported or reviewed, and no data was affected.

QC Data General Comments

- 1. Where a result is reported as less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
- 2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown are not data from your samples.
- 3. pH and Free Chlorine analysed in the laboratory Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
- 4. Recovery Data (Spikes & Surrogates) where chromatographic interference does not allow the determination of recovery, the term "INT" appears against that analyte.
- 5. For Matrix Spikes and LCS results, a dash "-" in the report means that the specific analyte was not added to the QC sample.
- 6. Duplicate RPDs are calculated from raw analytical data; thus, it is possible to have two sets of data



Quality Control Results

Test	Units	Result 1	Acceptance Limits	Pass Limits	Qualifying Code
Method Blank	· · · · ·				
Organochlorine Pesticides					
Chlordanes - Total	mg/kg	< 0.1	0.1	Pass	
4.4'-DDD	mg/kg	< 0.05	0.05	Pass	
4.4'-DDE	mg/kg	< 0.05	0.05	Pass	
4.4'-DDT	mg/kg	< 0.05	0.05	Pass	
a-HCH	mg/kg	< 0.05	0.05	Pass	
Aldrin	mg/kg	< 0.05	0.05	Pass	
b-HCH	mg/kg	< 0.05	0.05	Pass	
d-HCH	mg/kg	< 0.05	0.05	Pass	
Dieldrin	mg/kg	< 0.05	0.05	Pass	
Endosulfan I	mg/kg	< 0.05	0.05	Pass	
Endosulfan II	mg/kg	< 0.05	0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05	0.05	Pass	
Endrin	mg/kg	< 0.05	0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05	0.05	Pass	
Endrin ketone	mg/kg	< 0.05	0.05	Pass	
g-HCH (Lindane)	mg/kg	< 0.05	0.05	Pass	
Heptachlor	mg/kg	< 0.05	0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05	0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05	0.05	Pass	
Methoxychlor	mg/kg	< 0.05	0.05	Pass	
Toxaphene	mg/kg	< 0.5	0.5	Pass	
Method Blank	l iiig/kg	< 0.5	0.5	газэ	
Heavy Metals					
Arsenic	mg/kg	< 2	2	Pass	
Lead		< 5	5	Pass	
LCS - % Recovery	mg/kg	< 5	5	F 455	
Organochlorine Pesticides					
Chlordanes - Total	%	80	70-130	Pass	
4.4'-DDD	%	84	70-130	Pass	
4.4-DDE	%	92	70-130	Pass	
4.4-DDE 4.4'-DDT		92	70-130		
	<u>%</u>	80		Pass	
a-HCH			70-130	Pass	
Aldrin	%	84	70-130	Pass	
b-HCH	%	91	70-130	Pass	
d-HCH	%	81	70-130	Pass	
Dieldrin	%	91	70-130	Pass	
Endosulfan I	%	88	70-130	Pass	
Endosulfan II	%	85	70-130	Pass	
Endosulfan sulphate	%	81	70-130	Pass	
Endrin	%	124	70-130	Pass	
Endrin aldehyde	%	82	70-130	Pass	
Endrin ketone	%	75	70-130	Pass	
g-HCH (Lindane)	%	91	70-130	Pass	
Heptachlor	%	111	70-130	Pass	
Heptachlor epoxide	%	89	70-130	Pass	
Hexachlorobenzene	%	89	70-130	Pass	
Methoxychlor	%	105	70-130	Pass	
LCS - % Recovery		 			
Heavy Metals					ļ
Arsenic	%	99	80-120	Pass	
Lead	%	101	80-120	Pass	



Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery							1	1	
Heavy Metals				Result 1					
Arsenic	S24-Jn0026311	CP	%	90			75-125	Pass	
Lead	S24-Jn0026311	CP	%	93			75-125	Pass	
Spike - % Recovery				•					
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S24-Jn0026320	CP	%	77			70-130	Pass	
4.4'-DDD	S24-Jn0026320	CP	%	78			70-130	Pass	
4.4'-DDE	S24-Jn0026320	CP	%	85			70-130	Pass	
4.4'-DDT	S24-Jn0026320	CP	%	81			70-130	Pass	
a-HCH	S24-Jn0026320	CP	%	74			70-130	Pass	
Aldrin	S24-Jn0026320	CP	%	80			70-130	Pass	
b-HCH	S24-Jn0026320	CP	%	70			70-130	Pass	
d-HCH	S24-Jn0026320	CP	%	73			70-130	Pass	
Dieldrin	S24-Jn0026320	CP	%	85			70-130	Pass	
Endosulfan I	S24-Jn0026320	CP	%	86			70-130	Pass	
Endosulfan II	S24-Jn0026320	CP	%	79			70-130	Pass	
Endosulfan sulphate	S24-Jn0026320	CP	%	76			70-130	Pass	
Endrin	S24-Jn0026320	CP	%	127			70-130	Pass	
Endrin aldehyde	S24-Jn0026320	CP	%	90			70-130	Pass	
Endrin ketone	S24-Jn0026320	CP	%	72			70-130	Pass	
g-HCH (Lindane)	S24-Jn0026320	CP	%	87			70-130	Pass	
Heptachlor	S24-Jn0026320	СР	%	101			70-130	Pass	
Heptachlor epoxide	S24-Jn0026320	CP	%	86			70-130	Pass	
Hexachlorobenzene	S24-Jn0026320	CP	%	85			70-130	Pass	
Methoxychlor	S24-Jn0026320	CP	%	102			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate		oource					Linits	Linits	Oode
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S24-Jn0027662	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S24-Jn0027662	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S24-Jn0027662	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S24-Jn0027662	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	S24-Jn0027662	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S24-Jn0027662	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	S24-Jn0027662	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	S24-Jn0027662	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S24-Jn0027662	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S24-Jn0027662	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S24-Jn0027662	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S24-Jn0027662	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S24-Jn0027662	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
				< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehvde		NCP	ma/ka	< 0.0.0					
Endrin aldehyde Endrin ketone	S24-Jn0027662	NCP NCP	mg/kg ma/ka						
Endrin ketone	S24-Jn0027662 S24-Jn0027662	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone g-HCH (Lindane)	S24-Jn0027662 S24-Jn0027662 S24-Jn0027662	NCP NCP	mg/kg mg/kg	< 0.05 < 0.05	< 0.05 < 0.05	<1 <1	30% 30%	Pass Pass	
Endrin ketone g-HCH (Lindane) Heptachlor	S24-Jn0027662 S24-Jn0027662 S24-Jn0027662 S24-Jn0027662 S24-Jn0027662	NCP NCP NCP	mg/kg mg/kg mg/kg	< 0.05 < 0.05 < 0.05	< 0.05 < 0.05 < 0.05	<1 <1 <1	30% 30% 30%	Pass Pass Pass	
Endrin ketone g-HCH (Lindane) Heptachlor Heptachlor epoxide	S24-Jn0027662 S24-Jn0027662 S24-Jn0027662 S24-Jn0027662 S24-Jn0027662 S24-Jn0027662	NCP NCP NCP NCP	mg/kg mg/kg mg/kg mg/kg	< 0.05 < 0.05 < 0.05 < 0.05	< 0.05 < 0.05 < 0.05 < 0.05	<1 <1 <1 <1	30% 30% 30% 30%	Pass Pass Pass Pass	
Endrin ketone g-HCH (Lindane) Heptachlor Heptachlor epoxide Hexachlorobenzene	S24-Jn0027662 S24-Jn0027662 S24-Jn0027662 S24-Jn0027662 S24-Jn0027662 S24-Jn0027662 S24-Jn0027662 S24-Jn0027662	NCP NCP NCP NCP NCP	mg/kg mg/kg mg/kg mg/kg	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05	<1 <1 <1 <1 <1 <1	30% 30% 30% 30% 30%	Pass Pass Pass Pass Pass	
Endrin ketone g-HCH (Lindane) Heptachlor Heptachlor epoxide Hexachlorobenzene Methoxychlor	S24-Jn0027662 S24-Jn0027662 S24-Jn0027662 S24-Jn0027662 S24-Jn0027662 S24-Jn0027662 S24-Jn0027662 S24-Jn0027662 S24-Jn0027662	NCP NCP NCP NCP NCP NCP	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	<1 <1 <1 <1 <1 <1 <1	30% 30% 30% 30% 30%	Pass Pass Pass Pass Pass Pass	
Endrin ketone g-HCH (Lindane) Heptachlor Heptachlor epoxide Hexachlorobenzene Methoxychlor Toxaphene	S24-Jn0027662 S24-Jn0027662 S24-Jn0027662 S24-Jn0027662 S24-Jn0027662 S24-Jn0027662 S24-Jn0027662 S24-Jn0027662	NCP NCP NCP NCP NCP	mg/kg mg/kg mg/kg mg/kg	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05	<1 <1 <1 <1 <1 <1	30% 30% 30% 30% 30%	Pass Pass Pass Pass Pass	
Endrin ketone g-HCH (Lindane) Heptachlor Heptachlor epoxide Hexachlorobenzene Methoxychlor Toxaphene Duplicate	S24-Jn0027662 S24-Jn0027662 S24-Jn0027662 S24-Jn0027662 S24-Jn0027662 S24-Jn0027662 S24-Jn0027662 S24-Jn0027662 S24-Jn0027662	NCP NCP NCP NCP NCP NCP	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.5	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.5	<1 <1 <1 <1 <1 <1 <1 <1 <1	30% 30% 30% 30% 30%	Pass Pass Pass Pass Pass Pass	
Endrin ketone g-HCH (Lindane) Heptachlor Heptachlor epoxide Hexachlorobenzene Methoxychlor Toxaphene	S24-Jn0027662 S24-Jn0027662 S24-Jn0027662 S24-Jn0027662 S24-Jn0027662 S24-Jn0027662 S24-Jn0027662 S24-Jn0027662 S24-Jn0027662	NCP NCP NCP NCP NCP NCP	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	< 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05	<1 <1 <1 <1 <1 <1 <1	30% 30% 30% 30% 30%	Pass Pass Pass Pass Pass Pass	Q15



Duplicate												
Sample Properties	Result 1	Result 2	RPD									
% Moisture	S24-Jn0026319	CP	%	28	26	7.8	30%	Pass				



Comments

Sample Integrity	
Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

 Code
 Description

 Q15
 The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised by:

Adam Bateup Fang Yee Tan Roopesh Rangarajan Roopesh Rangarajan Analytical Services Manager Senior Analyst-Metal Senior Analyst-Organic Senior Analyst-Sample Properties

Glenn Jackson Managing Director

Final Report - this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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Address Contact Name Phone Ne Special Directions	Strider Duerinckx 0402608395 24 - 181 Earth Water Consulting.	Analyses as requered power spect, Teah to Farred and multitures to mined Suffic young.		30 (Charle	5001	H Bà	Roy							Em		ivoice		A . stride	S.
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Eurofins Environment Testing Australia Ply Ltd trading as Eurofins | mgt

Submission of samplas to the laboratory will be deemed as acceptance of Eurofins | ngl Standard Terms and Conditions unless agreed otherwise. A copy of Eurofins | ngl Standard Terms and Conditions is available on request.

SHEET 1 of 2.

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Page tot 1 DS3866-128 (Director of Control) Approval b., C. D. Preuz, Approved on, 12 June 2018