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13 November 2024

Department Planning, Housing and Infrastructure
Industry Assessments
Development Assessments

Your Ref: SSD -10479 PA

Our Ref: LTR037-01-19-609 Advise location of disposal material.docx

Attention: David Schwebel

Email: David.Schwebel@planning.nsw.gov.au

Dear David

RE: 200 Aldington Road Kemps Creek SSD 10479
Unexpected Finds Procedure CoC D83

The Applicant has identified contaminated material during bulk earthworks. This is being managed in accordance with the Unexpected Contamination Finds Procedure within the CEMP.

The material identified as contaminated is to be disposed of in accordance with the POEO Act and associated regulations. Condition D83 requires that the details of the final disposal location and results of associated testing be submitted to the planning Secretary prior to removal of the contaminated material from the site.

Please find attached:

- **Material Analysis and Classification Report**, ADE Consulting Group Ref A101023.1725.07.MAC2.v1f dated 10/10/24.

The contaminated material is being disposed of at **Cleanaway Kemps Creek Resource Recovery Park, 1725 Elizabeth Drive, Kemps Creek NSW 2178.**

Should you have any questions, please don't hesitate to contact the undersigned.

Yours sincerely,

Yours sincerely,

Debbie Fransen
Senior Project Manager

ADE CONSULTING GROUP
SOLUTIONS THROUGH INNOVATION

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Material Analysis and Classification Report

200 Aldington Road, Kemps Creek NSW

Document information

Report Title:	Material Analysis and Classification Report
Prepared for:	AT&L on behalf of Stockland Fife Kemps Creek Pty Ltd
Project Address:	200 Aldington Road, Kemps Creek NSW
File Reference:	A101023.1725.07
Report reference:	MAC2.v1f

Document control

Version	Date	Author	Revision description	Reviewer
v1f	10/10/2024	Linda Lenihan	Final for issue	Santo Ragusa

For and on behalf of
ADE Consulting Group Pty Ltd
ABN: 14 617 358 80

Prepared by:

Linda Lenihan
10/October/
2024

Linda Lenihan
Senior Environmental Consultant

Reviewed by:

Santo Ragusa
Principal Environmental Consultant

1 Summary

Table 1. Summary of site information.

Site information	
Client:	AT&L on behalf of Stockland Fife Kemps Creek Pty Ltd
Date of field work:	10/10/2024
Site address:	200 Aldington Road, Kemps Creek NSW
Subject Area:	Approximately 475 metres (m) north of the Simmons site compound at 200 Aldington Road (refer to **Appendix A – Figure**).
Background Information:	ADE Consulting Group (ADE) was advised by the client that the stockpiled soil material had been sourced from recent asbestos segregation activities occurring within the project. It is understood that the material has originated from batches of material which contained levels of asbestos above acceptable limits (refer to **Appendix A – Figure**).
Stockpile Volume:	Approximately 1,050 m^3 ☐advised by client. ☒estimated by ADE. 35 m (Length) x 10 m (Width) x 3m (Height).
Material Description:	The stockpiled soil materials generally consisted of: • Silty Sandy CLAY: low to medium plasticity, medium brown, with fine grained sand, with sub-angular gravels, moist. Foreign materials including but not limited to asbestos containing materials (ACM), bricks, tile and plastic were observed within the stockpiled materials. No strong visual or olfactory indicators of acid sulfate soils (ASS), paint chips or hydrocarbon odours/staining were noted within the stockpiled materials (refer to **Appendix B – Photographs**).
Acid Sulfate risk:	A review of the ASS risk mapping located at NSW Department of Planning, Industry and Environment 2024 online portal Espade v2.1 (environment.nsw.gov.au/eS-pade2WebApp), was undertaken to establish the potential for ASS at the source site. The source site was identified as no data available regarding ASS risk (refer to **Appendix C – Supporting Documents**). At the time of the inspection, no strong visual or olfactory indicators of ASS (staining, odour, seashells etc.) were noted during the field works. Based on the desktop review and field observations, ADE considered that the materials are unlikely to contain ASS and no further assessment was warranted.
EPA online records:	A review of the NSW Environment Protection Authority (EPA) *'Contaminated land – record of notices'* and the *'List of NSW Contaminated sites notified to the EPA'* listed by the NSW EPA under the Contaminated Land Management Act 1997, confirmed that the source site and surrounding lands within close proximity (<250m) were not listed on any EPA records (refer to **Appendix C – Supporting Documents**).
Per- and polyfluoroalkyl substances (PFAS) risk:	A review of the NSW EPA's PFAS Investigation Program map did not identify the Site as a PFAS legacy site. Additionally, no activities associated with PFAS were conducted at the source site (refer to **Appendix C – Supporting Documents**). Based on the desktop review, it is in the opinion of ADE that the site is 'low risk' with regards to the potential PFAS contamination.
Potential contaminating activities:	Potentially contaminating activities were considered to include: • Local construction activities and material handling processes. • Historical potential for importation and use of uncontrolled fill. • Confirmed asbestos contamination due to asbestos segregation activities.
Regulatory framework:	The soil materials in the subject area were compared/classified in accordance with: ☒ *NSW Environment Protection Authority (NSW EPA) (2014). Waste Classification Guidelines - Part 1: Classifying waste.*
Soil disposal options:	☒ Off-site disposal

2 Sampling and Analysis

Table 2. Summary of sampling and analysis.

Sampling plan				
Contaminants of potential concern:	Based on the client's request and regulatory requirements, the following contaminants of potential concern were analysed: ☒ Heavy Metals – Arsenic, Cadmium, Chromium, Copper, Lead, Mercury, Nickel, and Zinc; ☒ Benzene, Toluene, Ethyl-Benzene and Total Xylenes (BTEX); ☒ Total Petroleum Hydrocarbons (TPHs); ☒ Polycyclic Aromatic Hydrocarbons (PAHs); ☒ Polychlorinated Biphenyls (PCBs); ☒ Organochlorine Pesticides (OCPs); ☒ Organophosphorus Pesticides (OPPs); and ☒ Asbestos			
Sampling guidance:	The samples were collected in accordance/consideration with: ☒ Table 4 and 5 as referenced within the NSW EPA (2022). *Sampling design part 1 – application (Contaminated Land Guidelines)*.			
Sampling Plan:	Number of sampling locations: 10 Number of samples per location: 1 Sample Type: Discrete Sampling Pattern: Systematic Depth of samples (Sample ID-metres below stockpile surface [m BSS]): MAC2_TP1 (0.2), MAC2_TP2 (0.3), MAC2_TP3 (0.2), MAC2_TP4 (0.3), MAC2_TP5 (0.3), MAC2_TP6 (0.3), MAC2_TP7 (0.3), MAC2_TP8 (0.3), MAC2_TP9 (0.2) and MAC2_TP10 (0.3).			
	Heavy metals, BTEX, TPHs, PAHs, PCBs, OCPs, OPPs	10	Asbestos (500mL NEPM)	12
	Asbestos ID (65g bag)	-	Asbestos ID (Bulk)	5
Sampling method:	☒ Test Pit (via client supplied excavator) ☐ Borehole ☐ Other Representative test pits were advanced across the stockpile to a maximum depth of 0.3 m BSS. All samples were collected using dedicated nitrile gloves within the centre of the excavator bucket to minimise potential cross-contamination between sampling locations. All samples requiring chemical analysis were placed in glass jars with Teflon lined lids and relocated into a pre-chilled cooler carrier. All samples requiring asbestos analysis were placed within polyethylene zip-lock bags.			
Decontamination procedure:	ADE's standard decontamination procedures were undertaken before collecting each of the samples to avoid the possibility of cross-contamination. Dedicated disposable materials (e.g., nitrile gloves) were used which were changed between each sample. As such, additional decontamination procedures were not deemed necessary. All disposable sampling equipment and rubbish was collected and removed prior to leaving the site.			
Statistical evaluation:	In accordance with the nominated guidelines, the sample results were evaluated by: ☒ Maximum concentration.			
Additional analysis and methods:	☐ Toxicity Characteristics Leaching Procedure (TCLP) ☐ Australian Standard Leaching Procedure (ASLP) ☐ Silica gel clean-up ☐ Quad analysis ☐ High volume analysis			
Laboratory:	Sydney Laboratory Services (SLS) Pty Ltd.			
Laboratory results:	Refer to **Table 4** for a summary of analytical results and **Appendix D – Results Table**.			
Sample photos:	Refer to **Appendix B – Photographs**.			

3 Waste Classification Assessment

Table 3 below summarises Step 1 to Step 6 of the NSW EPA (2014), *Waste Classification Guidelines: Part 1 – Classifying Waste*.

Table 3. Step 1 to Step 6 of *Waste Classification Guidelines Part 1: Classifying Waste 2014.*

Steps 1 to Step 6 of Waste Classification Guidelines Part 1: Classifying Waste 2014		
Step 1: Is the material special waste? (Clinical and related waste, asbestos waste, waste tyres, and anything classified as special waste under an EPA gazettal notice)	☒ Yes ☐ No No asbestos was detected in 12 x 500 mL NEPM samples submitted for analysis. Chrysotile, amosite and crocidolite asbestos was detected within the 5 fibre cement samples which were analysed for asbestos as per AS4964:2004. All asbestos containing material were identified to be >7mm in size and returned negative for the presence of respirable fibres via trace analysis (Refer to **Appendix E – Analytical reports and chain of custody**).	
Step 2: Is the waste liquid waste?	☐ Yes ☒ No	
Step 3: Is the waste pre-classified?	☐ Yes ☒ No	
Step 4: Does the waste possess hazardous characteristics?	☐ Yes ☒ No	
Step 5: Chemical characterisation of the soil materials	Refer to **Table 4** for a summary of the analytical results. A full set of analytical results and regulatory guidelines screening criteria are shown in **Appendix D – Results Table**. **Summary of Results** All 10 samples submitted for analysis reported chemical concentrations below the specific Contaminant Threshold (CT) for 'General Solid Waste' (CT1). Based on the chemical analysis, the stockpiled materials are therefore considered to be chemically suitable for classification as 'General Solid Waste'.	
Step 6: Is the waste putrescible or non-putrescible?	☐ Putrescible ☒ Non-putrescible	Non-putrescible materials typically do not: • readily decay under standard conditions; • emit offensive odours; or • attract vermin or other vectors (such as flies, birds and rodents).
Waste classification conclusion:	Based on the data and evidence collected over the course of the investigation, it is the opinion of ADE that: Asbestos ☒ was ☐ was not observed within the stockpile and detected within select representative samples analysed for asbestos. Indicators of ASS, paint chips, hydrocarbon staining/odours ☐ was ☒ were not observed within the stockpiled soil materials inspected, and The concentrations of Heavy Metals, TRHs/TPHs, BTEX, PAHs, PCBs, OCPs and OPPs ☒ meet ☐ do not meet The NSW EPA (2014) criteria assigned for '**General Solid Waste**'. The material being excavated and transported for off-site disposal must be from the subject stockpiled soil materials shown below in **Appendix A – Figure** and must be consistent with the waste description provided. If there are any unexpected finds that are not consistent with this classification, please contact ADE immediately.	

Table 4. Summary of analytical results and chemical characterisation of the subject stockpiled soil material.

Analytes	Assessment Criteria		Results			Chemical Characterisation as GSW
	Maximum Values of Total Concentration Assigned for General Solid Waste CT1/CT2 (mg/kg)	Maximum Values of Total Concentration Assigned for General Solid Waste TCLP1 (mg/L) / SCC1 (mg/kg)	Maximum Total Concentration Detected (mg/kg)[3]	95% Upper Confidence Limit (UCL)	Toxicity Leaching Characteristic Procedure (TCLP) (mg/L)	
PAHs						
PAH total	200/800	NA/200	<0.3	-	-	Acceptable
Benzo(a)pyrene	0.8/3.2	0.04/10	<0.3	-	-	Acceptable
OCPs						
Endosulfan[1]	60/240	3/108	<0.2	-	-	Acceptable
OPPs						
Chlorpyrifos	4/16	0.2/7.5	<0.1	-	-	Acceptable
PCBs						
PCBs (Sum of total)	50/50	NA/<50	<0.5	-	-	Acceptable
TPHs						
TPH $C_6 - C_9$	650/2,600	NA/650	<25	-	-	Acceptable
TPH $C_{10} - C_{36}$	10,000/40,000	NA/10,000	<100	-	-	Acceptable
BTEX						
Benzene	10/40	0.5/18	<0.5	-	-	Acceptable
Toluene	288/1,152	14.4/518	<0.5	-	-	Acceptable
Ethyl-benzene	600/2,400	30/1,080	<1.0	-	-	Acceptable
Xylenes	1,000/4,000	50/1,800	<2.0	-	-	Acceptable
Metals						
Arsenic	100/400	5.0/500	14.3	-	-	Acceptable
Cadmium	20/80	1.0/100	1.18	-	-	Acceptable
Chromium (total) [2]	100/400	5/1,900	20.4	-	-	Acceptable
Copper	NA	NA	25.6	-	-	Acceptable
Lead	100/400	5/1,500	37.9	-	-	Acceptable
Mercury	4/16	0.2/50	<0.1	-	-	Acceptable
Nickel	40/160	2/1,050	15.3	-	-	Acceptable
Zinc	NA	NA	114.4	-	-	Acceptable

Notes to Table 4

NA.- Not Applicable

1. Endosulfan (CAS Registry Number 115-29-7) means the total of Endosulfan I (CAS Registry Number 959-98-8), Endosulfan II (CAS Registry Number 891-86-1) and Endosulfan sulfate (CAS Registry Number 1031-07-8).
2. Chromium (Total).
3. Results have been rounded to the next significant figure where appropriate.

NA Not Applicable.

4 Classification

Table 5. Material classification & ADE comments.

Material Classification	
Material description:	The stockpiled soil materials generally consisted of: • Silty Sandy CLAY: low to medium plasticity, medium brown, with fine grained sand, with sub-angular gravels, moist. Foreign materials including but not limited to ACM, bricks, tiles and plastic were observed within the stockpiled materials. No strong visual or olfactory indicators of ASS, paint chips or hydrocarbon odours/staining were noted within the stockpiled materials.
Approximate volume:	Approximately 1,050 m^3
Classification:	**Special Waste – Asbestos (General Solid Waste [non-putrescible]).**
Notes:	The material must be transported to a licensed facility which can accept asbestos contaminated waste. The material must also be transported through a licensed transportation service which can handle asbestos contaminated waste transportation. All material disturbance activities, material handling and disposal must be managed in accordance with the projects asbestos management plan (AMP) – if applicable.

5 Quality assurance / quality control (QA / QC)

A summary of the completed QA/QC assessment for the investigation is shown below in **Table 6**.

Table 6. Summary of the QA/QC assessment.

QA/QC Analysis		
Sample collection & handling measures appropriate?		☒ Yes ☐ No
Field QA/QC samples	No field quality control samples were collected as part of the investigation.	☐ Yes ☐ No ☒ N/A
Are the laboratory internal QA/QC results acceptable?		☒ Yes ☐ No
Were all field instruments calibrated?		☐ Yes ☐ No ☒ N/A
Field & laboratory data usable? Does ADE consider that the analytical results are representative of the conditions of the sampling locations at the time of sampling and are directly usable for the purpose of this assessment.		☒ Yes ☐ No

6 Bibliography

- Contaminated Land Management Act 1997 (NSW).
- National Environment Protection Council. (2013). National Environment Protection (Assessment of Site Contamination) Measure, 1999.
- New South Wales Environment Protection Authority. (2014). Waste Classification Guidelines Part 1: Classifying Waste.
- New South Wales Environment Protection Authority. (2020). Consultants reporting on contaminated land – Contaminated land guidelines.
- New South Wales Environment Protection Authority. (2022). Sampling design part 1 – application (Contaminated Land Guidelines).
- New South Wales Environment Protection Authority. (2024). Contaminated Land – Record of Notices from http://www.epa.nsw.gov.au/prclmapp/aboutregister.aspx
- New South Wales Environment Protection Authority. (2024). List of NSW contaminated sites notified to EPA from http://www.epa.nsw.gov.au/clm/publiclist.htm
- Protection of the Environment Operations Act 1997.
- Protection of the Environment Operations (Waste) Regulation 2014.
- Standards Australia. (2004). Australian Standard AS4964-2004: Method for the qualitative identification of asbestos in bulk samples. Sydney, NSW .
- WA DoH (2021). Guidelines for the Assessment, Remediation and Management of Asbestos Contaminated Sites, in Western Australia

7 Limitations

This report has been prepared for the exclusive use of the client and is limited to the scope of the work agreed in the terms and conditions of contract (including assumptions, limitations and qualifications, circumstances, and constraints). ADE has relied upon the accuracy of information and data provided to it by the client and others.

ADE has used a degree of care and skill ordinarily exercised in similar investigations by reputable members of the environmental industry in Australia. No other warranty, expressed or implied, is made or intended. No one section or part of a section, of this report should be taken as giving an overall idea of this report. Each section must be read in conjunction with the whole of this report, including its appendixes and attachments. The report is an integral document and must be read in its entirety.

To the fullest extent permitted by law, ADE does not accept or assume responsibility to any third party (other than the client) for the investigative work, the report or the opinions given. The scope of work conducted, and report herein may not meet the specific needs (of which ADE is not aware) of third parties. ADE cannot be held liable for third party reliance on this document. Any third party who relies upon this report does so at its own risk.

The subsurface environment can present substantial uncertainty due to it complex heterogeneity. The conclusions presented in this report are based on limited investigation of conditions at specific sampling locations chosen to be as representative as possible under the given circumstances. However, it is possible that this investigation may not have encountered all areas of contamination at the site due to the limited sampling and testing program undertaken.

The material subject to classification pertains only to the site and subject area outlined within the report and must be consistent with the waste description reported. If there are any unexpected finds that are not consistent with this classification, ADE must be notified immediately.

ADE does not verify the accuracy or completeness of, or adopt as its own, the information or data supplied by others and excludes all liability with respect to such information and data. To the extent that conditions differ from assumptions set out in the report, and to the extent that information provided to ADE is inaccurate or incomplete or has changed since it was provided to ADE, the opinions expressed in this report may not be valid and should be reviewed.

ADE's professional opinions are based upon its professional judgement, experience, training, and results from analytical data. In some cases, further testing and analysis may be required, thus producing different results and/or opinions. ADE has limited its investigation to the scope agreed upon with its client.

This Limitation and Disclaimer must accompany every copy of this report. Should you have any queries, please do not hesitate to contact us on 1300 796 922.

Appendix A – Figure

REGIONAL MAP
SOURCE: http://www.whereis.com/

LEGEND

STOCKPILE

TP TEST PIT LOCATION

NOTE:
ALL LOCATIONS ARE APPROXIMATE
DIMENSIONS IN METRES.

AERIAL IMAGE SOURCE: MAPS.AU.NEARMAP.COM, 29 AUG 2024.

revision	no.	description	drawn	approved	date
	A	FIRST ISSUE	MC	LL	09/10/24

0 12 24 36 48 60
SCALE 1:1200 @A3 METRES

drawn	MC
approved	LL
date	09/10/2024
scale	AS SHOWN
original size	A3

client: AT&L PTY LTD

project: MATERIAL ANALYSIS AND CLASSIFICATION
200 ALDINGTON ROAD, KEMPS CREEK, NSW

title: STOCKPILE AND SAMPLE LOCATION PLAN

project no: A101023.1725.07 | figure no: FIGURE 1 | rev: A

Sydney Office
ADE Consulting Group Pty Ltd
Unit 6 / 7 Millennium Court, Silverwater, NSW 2128
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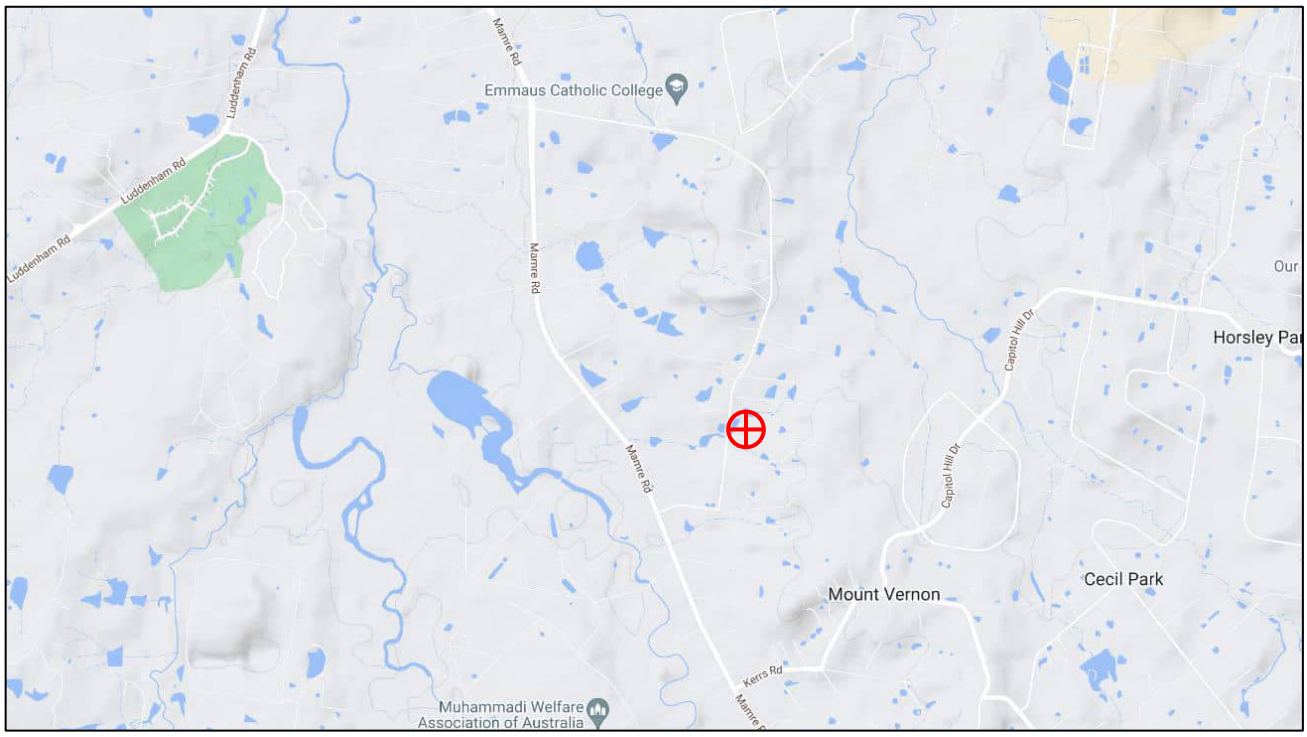
Appendix B – Photographs

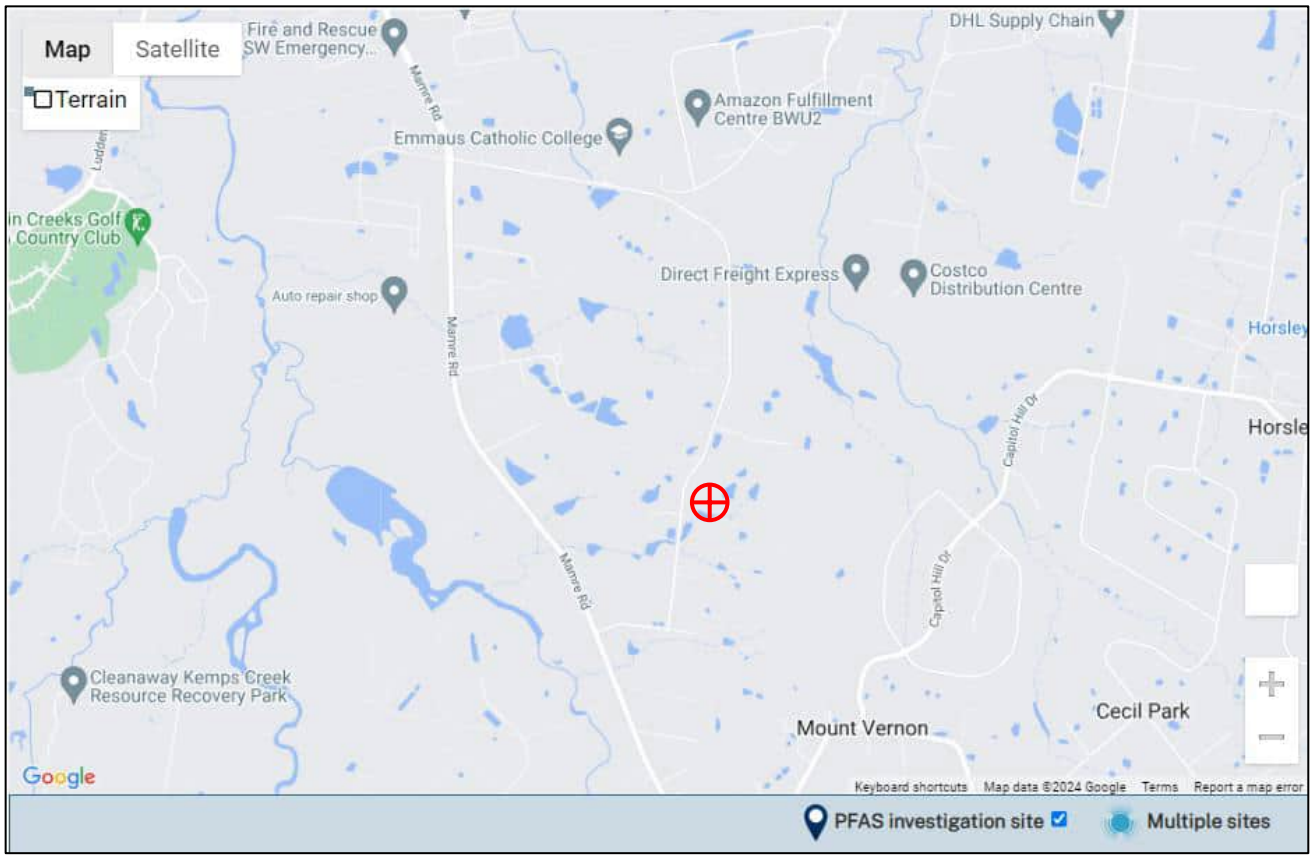
Photograph 1. Subject stockpile. Date: 09/10/2024.

Photograph 2. Fibre cement containing chrysotile, amosite and crocidolite asbestos encountered within subject stockpile. Date: 09/10/2024.

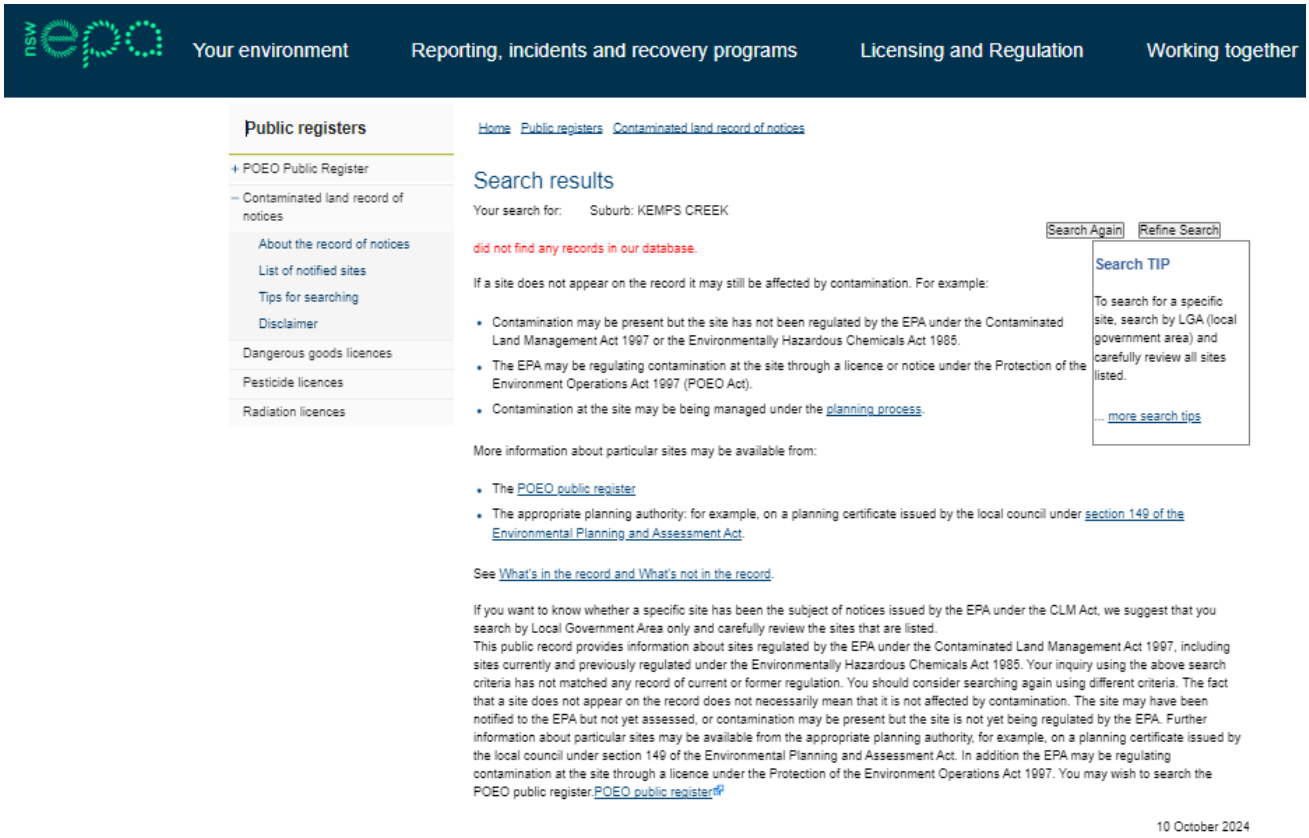
Appendix C – Supporting Documents



Supporting Figure 1. Acid Sulfate Soil Map showing the source site is located within an area with 'no data' (screenshot adapted from NSW Government eSpade https://www.environment.nsw.gov.au/eSpade2WebApp, accessed on 10/10/2024).



Supporting Figure 2. A review of the NSW EPA's PFAS Investigation Program map did not identify the source location as containing a PFAS legacy site. Additionally, no activities associated with PFAS were conducted at the source site (retrieved on 10/10/2024 from: https://www.epa.nsw.gov.au/your-environment/contaminated-land/pfas-investigation-program).



Supporting Figure 3. A search of the 'Contaminated Land - Record of Notices' listed by the NSW EPA under the Contaminated Land Management Act 1997, did not identify any notified sites within the suburb of Kemps Creek (screenshot adapted from https://apps.epa.nsw.gov.au/prclmapp/searchregister.aspx, accessed on 10/10/2024).

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
KEMBLA GRANGE	ShawCor Australia	66 West Dapto ROAD	Other Petroleum	Regulation under CLM Act not required	-34.46875328	150.8106326
KEMBLAWARRA	Griffins Bay, Lake Illawarra	Shellharbour ROAD	Landfill	Regulation under CLM Act not required	-34.49653984	150.8943776
KEMPS CREEK	Caltex-branded Service Station	1163 Mamre ROAD	Service Station	Regulation under CLM Act not required	-33.86972102	150.7966074
KEMPSEY	Kempsey Showground	19 Sea STREET	Unclassified	Contamination being managed via the planning process (EP&A Act)	-31.07334836	152.8308795

Supporting Figure 4. Image of *the 'List of NSW Contaminated Sites Notified sites to the EPA'* listed by the NSW EPA under the *Contaminated Land Management Act 1997*, which identified one notified site within the suburb of Kemps Creek, NSW. All listed notified sites were outside a 250 m radius of the source site and were listed as 'Regulation under CLM Act not required' (screenshot adapted from https://www.epa.nsw.gov.au/your-environment/contaminated-land/notified-and-regulated-contaminated-land/list-of-notified-sites, accessed 10/10/2024).

Appendix D – Results Table

	Physical	Metals								BTEX							TPH				
	Moisture Content	Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc	Benzene	Toluene	Ethylbenzene	Xylene (m & p)	Xylene (o)	Xylene Total	Total BTEX	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum)
	%	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
NSW 2014 General Solid Waste CT1 (No Leaching)		100	20			100	4	40		10	288	600			1,000		650				10,000
NSW 2014 General Solid Waste SCC1 (with leached)		500	100			1,500	50	1,050		18	518	1,080			1,800		650				10,000
NSW 2014 General Solid Waste TCLP1 (leached)																					
NSW 2014 Restricted Solid Waste CT2 (No Leaching)		400	80			400	16	160		40	1,152	2,400			4,000		2,600				40,000
NSW 2014 Restricted Solid Waste SCC2 (with leached)		2,000	400			6,000	200	4,200		72	2,073	4,320			7,200		2,600				40,000
NSW 2014 Restricted Solid Waste TCLP2 (leached)																					
Field ID	**Date**																				
MAC2-TP1	09 Oct 2024	6.1	<5.0	0.53	19.2	25.6	37.9	<0.10	15.3	114.4	<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<25	<50	<100	<100	<100
MAC2-TP2	09 Oct 2024	8.3	<5.0	0.44	10.4	21.3	33.9	<0.10	11.3	76.0	<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<25	<50	<100	<100	<100
MAC2-TP3	09 Oct 2024	6.5	14.3	1.18	20.4	12.5	32.2	<0.10	8.0	39.1	<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<25	<50	<100	<100	<100
MAC2-TP4	09 Oct 2024	6.1	<5.0	<0.10	11.1	19.0	21.1	<0.10	12.8	49.9	<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<25	<50	<100	<100	<100
MAC2-TP5	09 Oct 2024	7.2	<5.0	0.32	13.7	19.9	25.9	<0.10	15.0	53.3	<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<25	<50	<100	<100	<100
MAC2-TP6	09 Oct 2024	5.7	5.0	0.42	14.5	15.6	24.5	<0.10	8.3	31.9	<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<25	<50	<100	<100	<100
MAC2-TP7	09 Oct 2024	4.7	<5.0	<0.10	9.2	14.3	11.1	<0.10	12.7	32.6	<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<25	<50	<100	<100	<100
MAC2-TP8	09 Oct 2024	6.5	5.5	0.53	17.8	17.5	24.4	<0.10	10.4	33.0	<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<25	<50	<100	<100	<100
MAC2-TP9	09 Oct 2024	6.0	<5.0	<0.10	5.7	21.2	13.6	<0.10	6.3	29.3	<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<25	<50	<100	<100	<100
MAC2-TP10	09 Oct 2024	5.4	<5.0	0.42	14.8	15.2	24.7	<0.10	13.6	33.6	<0.50	<0.50	<1.0	<2.0	<1.0	<2.0	<2.00	<25	<50	<100	<100	<100
Statistics																					
Number of Results		10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Number of Detects		10	3	7	10	10	10	0	10	10	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration		4.7	5	<0.1	5.7	12.5	11.1	<0.1	6.3	29.3	<0.5	<0.5	<1	<2	<1	<2	<2	<25	<50	<100	<100	<100
Maximum Concentration		8.3	14.3	1.18	20.4	25.6	37.9	<0.1	15.3	114.4	<0.5	<0.5	<1	<2	<1	<2	<2	<25	<50	<100	<100	<100
Average Concentration *		6.3	4.2	0.4	14	18	25	0.05	11	49	0.25	0.25	0.5	1	0.5	1	1	12	25	50	50	50
Standard Deviation *		0.99	3.7	0.34	4.7	4	8.4	0	3.1	27	0	0	0	0	0	0	0	0	0	0	0	0
95% UCL (Student's-t) *		6.822	6.387	0.594	16.38	20.5	29.81	0.05	13.15	64.97	0.25	0.25	0.5	1	0.5	1	1	12.5	25	50	50	50

* A Non Detect Multiplier of 0.5 has been applied.

Environmental Standards

NSW EPA, November 2014, NSW 2014 General Solid Waste CT1 (No Leaching)
NSW EPA, November 2014, NSW 2014 General Solid Waste SCC1 (with leached)
NSW EPA, November 2014, NSW 2014 General Solid Waste TCLP1 (leached)
NSW EPA, November 2014, NSW 2014 Restricted Solid Waste CT2 (No Leaching)
NSW EPA, November 2014, NSW 2014 Restricted Solid Waste SCC2 (with leached)
NSW EPA, November 2014, NSW 2014 Restricted Solid Waste TCLP2 (leached)

	PAH																			
	Naphthalene	Acenaphthylene	Acenaphthene	Fluorene	Anthracene	Phenanthrene	Pyrene	Fluoranthene	Chrysene	Benzo(a)anthracene	Benzo(a) pyrene	Benzo(a)pyrene TEQ (LOR)	Benzo(b+j+k)fluoranthene	Benzo(g,h,i)perylene	Dibenz(a,h)anthracene	Indeno(1,2,3-c,d)pyrene	Benzo(a)pyrene TEQ calc (Half)	Benzo(a)pyrene TEQ calc (Zero)	PAHs (Sum of total)
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
NSW 2014 General Solid Waste CT1 (No Leaching)											0.8								200
NSW 2014 General Solid Waste SCC1 (with leached)											10								200
NSW 2014 General Solid Waste TCLP1 (leached)																			
NSW 2014 Restricted Solid Waste CT2 (No Leaching)											3.2								800
NSW 2014 Restricted Solid Waste SCC2 (with leached)											23								800
NSW 2014 Restricted Solid Waste TCLP2 (leached)																			
Field ID	**Date**																			
MAC2-TP1	09 Oct 2024	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	**0.70**	<0.30	<0.30	<0.30	<0.30	**0.35**	<0.30	<0.30
MAC2-TP2	09 Oct 2024	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	**0.70**	<0.30	<0.30	<0.30	<0.30	**0.35**	<0.30	<0.30
MAC2-TP3	09 Oct 2024	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	**0.70**	<0.30	<0.30	<0.30	<0.30	**0.35**	<0.30	<0.30
MAC2-TP4	09 Oct 2024	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	**0.70**	<0.30	<0.30	<0.30	<0.30	**0.35**	<0.30	<0.30
MAC2-TP5	09 Oct 2024	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	**0.70**	<0.30	<0.30	<0.30	<0.30	**0.35**	<0.30	<0.30
MAC2-TP6	09 Oct 2024	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	**0.70**	<0.30	<0.30	<0.30	<0.30	**0.35**	<0.30	<0.30
MAC2-TP7	09 Oct 2024	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	**0.70**	<0.30	<0.30	<0.30	<0.30	**0.35**	<0.30	<0.30
MAC2-TP8	09 Oct 2024	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	**0.70**	<0.30	<0.30	<0.30	<0.30	**0.35**	<0.30	<0.30
MAC2-TP9	09 Oct 2024	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	**0.70**	<0.30	<0.30	<0.30	<0.30	**0.35**	<0.30	<0.30
MAC2-TP10	09 Oct 2024	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	**0.70**	<0.30	<0.30	<0.30	<0.30	**0.35**	<0.30	<0.30
Statistics																				
Number of Results		10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Number of Detects		0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	10	0	0
Minimum Concentration		<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	0.7	<0.3	<0.3	<0.3	<0.3	0.35	<0.3	<0.3
Maximum Concentration		<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	0.7	<0.3	<0.3	<0.3	<0.3	0.35	<0.3	<0.3
Average Concentration *		0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.7	0.15	0.15	0.15	0.15	0.35	0.15	0.15
Standard Deviation *		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
95% UCL (Student's-t) *		0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.7	0.15	0.15	0.15	0.15	0.35	0.15	0.15

* A Non Detect Multiplier of 0.5 has been applied.

Environmental Standards

NSW EPA, November 2014, NSW 2014 General Solid Wa
NSW EPA, November 2014, NSW 2014 General Solid Wa
NSW EPA, November 2014, NSW 2014 General Solid Wa
NSW EPA, November 2014, NSW 2014 Restricted Solid W
NSW EPA, November 2014, NSW 2014 Restricted Solid W
NSW EPA, November 2014, NSW 2014 Restricted Solid W

	PCBs								Organophosphorous Pesticides													
	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	PCBs (Sum of total)	Chlorpyrifos	Chlorpyrifos-methyl	DEF	Diazinon	Ethoprop	Methyl parathion	Ronnel	a-BHC	b-BHC	d-BHC	g-BHC (Lindane)	Chlordane (cis)	Chlordane (trans)
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
NSW 2014 General Solid Waste CT1 (No Leaching)								50	4												
NSW 2014 General Solid Waste SCC1 (with leached)								50	7.5												
NSW 2014 General Solid Waste TCLP1 (leached)																					
NSW 2014 Restricted Solid Waste CT2 (No Leaching)								50	16												
NSW 2014 Restricted Solid Waste SCC2 (with leached)								50	30												
NSW 2014 Restricted Solid Waste TCLP2 (leached)																					
Field ID	**Date**																					
MAC2-TP1	09 Oct 2024	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
MAC2-TP2	09 Oct 2024	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
MAC2-TP3	09 Oct 2024	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
MAC2-TP4	09 Oct 2024	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
MAC2-TP5	09 Oct 2024	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
MAC2-TP6	09 Oct 2024	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
MAC2-TP7	09 Oct 2024	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
MAC2-TP8	09 Oct 2024	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
MAC2-TP9	09 Oct 2024	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
MAC2-TP10	09 Oct 2024	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Statistics																						
Number of Results		10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Number of Detects		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<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
Maximum Concentration		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<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
Average Concentration *		0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	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
Standard Deviation *		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
95% UCL (Student's-t) *		0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	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 Non Detect Multiplier of 0.5 has been applied.

Environmental Standards

NSW EPA, November 2014, NSW 2014 General Solid Wa
NSW EPA, November 2014, NSW 2014 General Solid Wa
NSW EPA, November 2014, NSW 2014 General Solid Wa
NSW EPA, November 2014, NSW 2014 Restricted Solid W
NSW EPA, November 2014, NSW 2014 Restricted Solid W
NSW EPA, November 2014, NSW 2014 Restricted Solid W

	Organochlorine Pesticides													
	DDT	4,4-DDE	DDD	Aldrin	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor epoxide	Methoxychlor
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
NSW 2014 General Solid Waste CT1 (No Leaching)														
NSW 2014 General Solid Waste SCC1 (with leached)														
NSW 2014 General Solid Waste TCLP1 (leached)														
NSW 2014 Restricted Solid Waste CT2 (No Leaching)														
NSW 2014 Restricted Solid Waste SCC2 (with leached)														
NSW 2014 Restricted Solid Waste TCLP2 (leached)														
Field ID **Date**														
MAC2-TP1 09 Oct 2024	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10
MAC2-TP2 09 Oct 2024	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10
MAC2-TP3 09 Oct 2024	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10
MAC2-TP4 09 Oct 2024	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10
MAC2-TP5 09 Oct 2024	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10
MAC2-TP6 09 Oct 2024	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10
MAC2-TP7 09 Oct 2024	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10
MAC2-TP8 09 Oct 2024	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10
MAC2-TP9 09 Oct 2024	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10
MAC2-TP10 09 Oct 2024	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.20	<0.10	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10
Statistics														
Number of Results	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Number of Detects	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1
Maximum Concentration	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1
Average Concentration *	0.05	0.05	0.05	0.05	0.05	0.1	0.1	0.05	0.1	0.05	0.05	0.05	0.05	0.05
Standard Deviation *	0	0	0	0	0	0	0	0	0	0	0	0	0	0
95% UCL (Student's-t) *	0.05	0.05	0.05	0.05	0.05	0.1	0.1	0.05	0.1	0.05	0.05	0.05	0.05	0.05

* A Non Detect Multiplier of 0.5 has been applied.

Environmental Standards

NSW EPA, November 2014, NSW 2014 General Solid Wa
NSW EPA, November 2014, NSW 2014 General Solid Wa
NSW EPA, November 2014, NSW 2014 General Solid Wa
NSW EPA, November 2014, NSW 2014 Restricted Solid W
NSW EPA, November 2014, NSW 2014 Restricted Solid W
NSW EPA, November 2014, NSW 2014 Restricted Solid W

Appendix E - Analytical Reports and Chain of Custody

024

Document Revision Date: 30.06.2020

ESA-F-02 COC - Chain Of Custody (Internal: Sydney Laboratory Services)

ADE CONSULTING GROUP

PROJECT:	200 Aldington Road, Kemps Creek
PROJECT NUMBER - INVOICE NUMBER	A101023.1725.07
SAMPLES DELIVERED BY:	ADE Consulting Group
SAMPLERS:	6/7 Millennium Ct, Silverwater NSW 2128
TURNAROUND:	Linda Lenihan
SAMPLING DATE:	24 hours
	9/10/2024
AFTER TEST STORAGE:	ROOM TEMP: FRIDGE: xxx FREEZER: >>4 WEEKS: OTHER:
REPORT FORMAT:	HARD COPY: ☐ E-MAIL: X
CONSULTANTS SIGNATURE:	
PROJECT MANAGERS SIGNATURE:	PROJECT MANAGERS E-MAIL: linda.lenihan@ade.group

LABORATORY REFERENCE NO. (Lab use ONLY):	A101023.1725.07
RECEIVED BY: KS	SIGNATURE:
SAMPLES: | CHILLED: ☐	PRESERVED: ☐ PRESERVATION METHOD: — CUSTODY SEAL INTACT: ☐
MINIMAL HEADSPACE: ☐	WITHIN HOLDING TIME: ☐
DATE: 09/10/24	TIME: 2:10 TEMPERATURE UPON RECEIPT: °C
LIMS LOT NO. 2404547	LIMS/EXCEL SIGNATURE: COMMENTS:

2024035

SAMPLE DATA				CONTAINER DATA		ANALYSES REQUIRED																NOTES
LIMS Sample ID (Lab Use)	Sample ID (ADE)	MATRIX	SAMPLE DATE	TYPE & PRESERVATIVE	NO.	SL01	OH04	BTEX - 30030	PAH - 30031	TRH - 30032	Metal - 30037, 30043											POTENTIAL HAZARDOUS CONTAMINANTS: ☑ ASBESTOS ☐ HYDROCARBONS ☐ LEAD/ARSENIC ☐ NO KNOWN CONTAMINATION ☐ OTHER: LAB PLEASE *EMAIL COC RECEIPT: ☐
122	MAC2-TP1	Soil	9/10/2024	G	1	X																Sample Comments
123	MAC2-TP2	Soil	9/10/2024	G	1	X																
124	MAC2-TP3	Soil	9/10/2024	G	1	X																
125	MAC2-TP4	Soil	9/10/2024	G	1	X																
126	MAC2-TP5	Soil	9/10/2024	G	1	X																
127	MAC2-TP6	Soil	9/10/2024	G	1	X																
128	MAC2-TP7	Soil	9/10/2024	G	1	X																
129	MAC2-TP8	Soil	9/10/2024	G	1	X																
130	MAC2-TP9	Soil	9/10/2024	G	1	X																
131	MAC2-TP10	Soil	9/10/2024	G	1	X																
132	MAC2 - ACM-1	Fragment	9/10/2024	B	1		X															

Comments:

Container Type and Preservative: P = Unpreserved Plastic; PN = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; PNA = Sodium Hydroxide Preserved Plastic; PC = HCl preserved Plastic; VC = Vial HCl Preserved; SP = Sulfuric Preserved Plastic; VB = Vial Sodium Bisulphate Preserved; VS = Vial Sulfuric Preserved; V = Unpreserved Vial; G = Amber Glass Unpreserved; SG = Sulfuric Preserved Amber Glass; F = Formaldehyde Preserved Glass; HS = HCl preserved Speciation bottle; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottle; ST = Sterile Bottle; J = Unpreserved Glass Jar; ASS = Plastic Bag for Acid Sulfate Soils; B = Unpreserved Bag.

10/10/24

Sydney Laboratory Services

A division of A. D. Envirotech Australia Pty Ltd
A.C.N. 093 452 950
Unit 4/10-11 Millennium Court,
Silverwater 2128
Ph: (02) 9648-6669

CLIENT DETAILS

Client	ADE Consulting Group
Contact	Linda Lenihan
Samplers	N/A

SAMPLE RECEIPT DETAILS

Project Number	A101023.1725.07		
SLS Reference	2404547		
Number of samples	11		
Date samples received	09.10.2024		
Time samples received	2:10 PM		
Samples Received By	Krista Johnston		
Temperature upon receipt (°C)	N/A	**Thermometer Ref NO.**	N/A
Turn Around Time requested	24 hours		
Expected Report Date	**10.10.2024**		

CONDITION OF SAMPLES UPON RECEIVAL

No errors in COC provided.	✓
All samples were received in good condition.	✓
Evidence of chilling for samples.	✓
Appropriate use of sample containers have been used.	✓
Samples were delivered within holding time of analysis requested.	✓
Samples to be tested for volatiles received with zero headspace.	✓
Custody Seal intact (if used)	N/A

COMMENTS

This Report Contains:

Sample receipt non-conformities.
Summary of samples and requested analysis.
Requested report deliverables.

CONTACT US FOR ANY QUERIES

If you have any questions with respect to these samples please contact:

Email	sls@ade.group	**Contact**	Krista Johnston
Phone	(+61) 0451 524 289	**Signed**	

Sydney Laboratory Services

A division of A. D. Envirotech Australia Pty Ltd
A.C.N. 093 452 950
Unit 4/10-11 Millennium Court,
Silverwater 2128
Ph: (02) 9648-6669

INFORMATION SUMMARY

SLS Reference	2404547
Project Number	A101023.1725.07
Client	ADE Consulting Group
Contact	Linda Lenihan
Samplers	N/A

ANALYSIS UNDERWAY - Details of the following samples

			SUMMARY OF SAMPLES AND ANALYSIS REQUESTED	
			SL01	OH04
Laboratory Sample ID	Sampling Date	Client Sample ID		
2024035122	09.10.2024	MAC2-TP1	X	
2024035123	09.10.2024	MAC2-TP2	X	
2024035124	09.10.2024	MAC2-TP3	X	
2024035125	09.10.2024	MAC2-TP4	X	
2024035126	09.10.2024	MAC2-TP5	X	
2024035127	09.10.2024	MAC2-TP6	X	
2024035128	09.10.2024	MAC2-TP7	X	
2024035129	09.10.2024	MAC2-TP8	X	
2024035130	09.10.2024	MAC2-TP9	X	
2024035131	09.10.2024	MAC2-TP10	X	
2024035132	09.10.2024	MAC2-ACM-1		X

Batch Number : 2404547

Report Number : A101023.1725.07 (122-131)

Sydney Laboratory Services

A division of A. D. Envirotech Australia Pty Ltd
A.C.N. 093 452 950
Unit 4/10-11 Millennium Court,
Silverwater 2128
Ph: (02) 9648-6669

Accreditation No.14664
Accredited for compliance with ISO/IEC 17025 - Testing.

This certificate of analysis contains General Comments and Analytical Results. Quality Control Report and Laboratory Quality Acceptance Criteria have been issued separately.

This report supersedes any previous report(s) with this reference. This document shall not be reproduced, except in full.

This report has been electronically signed by authorised signatories below.

Authorised By

Domenico Grieco

General Comments

Samples are analysed on as received basis. Sampling is not covered by NATA accreditation.

Where moisture determination has been performed, results are reported on dry weight basis.

Where the PQL of reported result differs from standard PQL, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Samples were analysed within holding time described by laboratory internal procedures if not stated otherwise. If samples delivered do not meet required analytical criteria, results will be marked with ^.

However surrogate standards are added to samples, results are not corrected for standards recoveries.

Analysis of VOC in water samples are performed on unfiltered waters (as received) spiked with surrogates and injection standards only.

Results for the analysis of metals is only for acid soluble trace metals unless indicated otherwise.

SLS is responsible for all the information in the report, except that provided by the customer.

All sampling information included in the report has been provided by customer.

Information provided by the customer can affect the validity of the results.

Certificate of Analysis

Contact:	Linda Lenihan	**Date Reported:**	10/10/2024
Customer:	ADE Consulting Group	**No. of Samples:**	10
Address:	Unit 6 7 Millennium Court Silverwater NSW	**Date Received:**	9/10/2024
		Date of Analysis:	9/10/2024

Cust Ref: A101023.1725.07.007 L01

Glossary:

*NATA accreditation does not cover the performance of this service
ND-not detected,
NT-not tested
INS-Insufficient material to perform the test
LCS-Laboratory Control Sample
RPD-Relative Percent Difference
N/A-Not Applicable
< less than
> greater than
PQL- Practical Quantitation Limit
^Analytical result might be compromised due to sample condition or holding time requirements
Reaction rate 1 = Slight
Reaction rate 2 = Moderate
Reaction rate 3 = High
Reaction rate 4 = Vigorous

Certificate of Analysis

	Sample ID:	2024035122	2024035123	2024035124	2024035125	2024035126	2024035127	2024035128	2024035129	2024035130	2024035131
	Sample Name	MAC2-TP1	MAC2-TP2	MAC2-TP3	MAC2-TP4	MAC2-TP5	MAC2-TP6	MAC2-TP7	MAC2-TP8	MAC2-TP9	MAC2-TP10
Parameter	Units	PQL	Sample Date: 09/10/2024	09/10/2024	09/10/2024	09/10/2024	09/10/2024	09/10/2024	09/10/2024	09/10/2024	09/10/2024	09/10/2024
ESA-P-ORG7 & ORG8												
Benzene	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Toluene	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylbenzene	mg/kg	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m.p Xylene	mg/kg	2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
o Xylene	mg/kg	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Sum of BTEX	mg/kg	2	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Total Xylenes	mg/kg	2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Fluorobenzene (Surr.)	%		87	87	90	118	89	92	90	90	94	95
C6-C10	mg/kg	35	<35	<35	<35	<35	<35	<35	<35	<35	<35	<35
C6-C10 minus BTEX	mg/kg	35	<35	<35	<35	<35	<35	<35	<35	<35	<35	<35
C6-C9	mg/kg	25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
ESA-MP-01,ICP-01												
Arsenic	mg/kg	5	<5.0	<5.0	14.3	<5.0	<5.0	5.0	<5.0	5.5	<5.0	<5.0
Cadmium	mg/kg	0.1	0.53	0.44	1.18	<0.10	0.32	0.42	<0.10	0.53	<0.10	0.42
Chromium	mg/kg	1	19.2	10.4	20.4	11.1	13.7	14.5	9.2	17.8	5.7	14.8
Copper	mg/kg	5	25.6	21.3	12.5	19.0	19.9	15.6	14.3	17.5	21.2	15.2
Lead	mg/kg	5	37.9	33.9	32.2	21.1	25.9	24.5	11.1	24.4	13.6	24.7
Mercury	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Nickel	mg/kg	1	15.3	11.3	8.0	12.8	15.0	8.3	12.7	10.4	6.3	13.6
Zinc	mg/kg	5	114.4	76.0	39.1	49.9	53.3	31.9	32.6	33.0	29.3	33.6
ESA-P-12												
% Moisture Content	%		6.1	8.3	6.5	6.1	7.2	5.7	4.7	6.5	6.0	5.4
ESA-P-ORG(12 - 15)												
Acenaphthene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Acenaphthylene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30

Certificate of Analysis

	Sample ID:	2024035122	2024035123	2024035124	2024035125	2024035126	2024035127	2024035128	2024035129	2024035130	2024035131
	Sample Name	MAC2-TP1	MAC2-TP2	MAC2-TP3	MAC2-TP4	MAC2-TP5	MAC2-TP6	MAC2-TP7	MAC2-TP8	MAC2-TP9	MAC2-TP10
Parameter	Units	PQL	Sample Date: 09/10/2024	09/10/2024	09/10/2024	09/10/2024	09/10/2024	09/10/2024	09/10/2024	09/10/2024	09/10/2024	09/10/2024
Anthracene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo[a]anthracene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo[a]pyrene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo[g,h,i]perylene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo[b,k]fluoranthene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Chrysene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Dibenzo[a,h]anthracene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Fluoranthene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Fluorene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Indeno(1,2,3-cd)pyrene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Naphthalene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Phenanthrene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Pyrene	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
PAHs Total	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo(a)pyrene TEQ (Zero)	mg/kg	0.3	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Benzo(a)pyrene TEQ (Half PQL)	mg/kg	0.3	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
Benzo(a)pyrene TEQ (PQL)	mg/kg	0.3	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
p-Terphenyl-d14 (Surr.)	%		97	88	90	94	128	84	85	93	91	93
aldrin	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
a-BHC	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
b-BHC	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
d-BHC	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
g-BHC (lindane)	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
cis-chlordane	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
trans-chlordane	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
4,4'-DDD	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10

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Unit 4/10-11 Millennium Court
Silverwater 2128
Ph: (02) 9648-6669

Certificate of Analysis

	Sample ID:	2024035122	2024035123	2024035124	2024035125	2024035126	2024035127	2024035128	2024035129	2024035130	2024035131
	Sample Name	MAC2-TP1	MAC2-TP2	MAC2-TP3	MAC2-TP4	MAC2-TP5	MAC2-TP6	MAC2-TP7	MAC2-TP8	MAC2-TP9	MAC2-TP10
Parameter	Units	PQL	Sample Date: 09/10/2024	09/10/2024	09/10/2024	09/10/2024	09/10/2024	09/10/2024	09/10/2024	09/10/2024	09/10/2024	09/10/2024
4,4'-DDE	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
4,4'-DDT	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
dieldrin	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
endosulfan I	mg/kg	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
endosulfan II	mg/kg	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
endosulfan sulfate	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
endrin	mg/kg	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
endrin aldehyde	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
endrin ketone	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
heptachlor	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
heptachlor epoxide	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
hexachlorobenzene	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
methoxychlor	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TCMX (Surr.)	%		73	66	69	70	98	66	68	71	68	72
chlorpyrifos	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
chlorpyrifos methyl	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
diazinon	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
fenchlorphos	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
methyl parathion	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
prophos	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
tributylphosphorotrithioite	mg/kg	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
PCBs Total	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1016	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1221	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1232	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1242	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

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Certificate of Analysis

	Sample ID:	2024035122	2024035123	2024035124	2024035125	2024035126	2024035127	2024035128	2024035129	2024035130	2024035131
	Sample Name	MAC2-TP1	MAC2-TP2	MAC2-TP3	MAC2-TP4	MAC2-TP5	MAC2-TP6	MAC2-TP7	MAC2-TP8	MAC2-TP9	MAC2-TP10
Parameter	Units	PQL	Sample Date: 09/10/2024	09/10/2024	09/10/2024	09/10/2024	09/10/2024	09/10/2024	09/10/2024	09/10/2024	09/10/2024	09/10/2024
Aroclor 1248	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1254	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Aroclor 1260	mg/kg	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
2-fluorobiphenyl (Surr.)	%		98	87	88	92	126	86	87	94	89	93
ESA-P-ORG(3,8)												
>C10-C16	mg/kg	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
>C16-C34	mg/kg	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
>C34-C40	mg/kg	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
>C10-C40 (Sum of total)	mg/kg	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
>C10-C14	mg/kg	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
>C15-C28	mg/kg	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
>C29-C36	mg/kg	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
>C10-C36 (Sum of total)	mg/kg	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100

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Unit 4/10-11 Millennium Court,
Silverwater 2128
Ph: (02) 9648-6669

A.B.N. 52 093 452 950

Analysis report: A101023.1725.07
Laboratory LOT NO: 2403689

Date Received: 22.08.2024
Date Analysed: 22.08.2024
Report Date: 22.08.2024
Client: ADE Consulting Group
Analytical method: ABI-P-01: Identification of Asbestos in Bulk Samples

Analysis performed by:

Min Fu
Approved asbestos identifier

Results Authorised By:

Grace (Weichen) Jia
Approved Signatory

This report supersedes all previous reports with the same reference. This report shall not be reproduced except in full

Accreditation No.14664.
Accredited for compliance with ISO/IEC 17025 - Testing.

Tests not covered by NATA are denoted with *.

General Comments:

Sydney Laboratory Services is responsible for all the information in the report, except that provided by the customer. All sampling information included in the report has been provided by the client.

Sample analysed as received.
Samples are stored for minimum period of 4 weeks, if longer time is not advised by client.
All positive/negative results have been confirmed by polarized light microscopy including dispersion staining.
ABI-P-01: Qualitative Identification of asbestos in bulk samples using Polarised Light Microscopy and Dispersion Staining Techniques as per AS4964.
Under AS4964, the reporting limit of asbestos in bulk samples is set as 0.1g/kg.

Client Sample ID.	Laboratory Sample No.	Sample Description/Matrix	Sample Weight (Dry) (g)	Sample Dimensions (cm)	Trace Analysis (> 5 Fibres)	Asbestos ID in Bulk (AS4964) >0.1g/kg	Comments
VAL-170-FRAGS	2024028396	Grey Fibre Cement	33.00	9.5 x 5.0 x 0.6	N/A	**Chrysotile asbestos detected by polarized light microscopy including dispersion staining.** **Amosite asbestos detected by polarized light microscopy including dispersion staining.** **Crocidolite asbestos detected by polarized light microscopy including dispersion staining.** Organic fibres detected	Nil
VAL-173-FRAGS	2024028400	Grey Fibre Cement	131.00	15.0 x 8.0 x 0.7	N/A	**Chrysotile asbestos detected by polarized light microscopy including dispersion staining.** **Amosite asbestos detected by polarized light microscopy including dispersion staining.** **Crocidolite asbestos detected by polarized light microscopy including dispersion staining.** Organic fibres detected	Nil

Sydney Laboratory Services

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Unit 4/10-11 Millennium Court,
Silverwater 2128
Ph: (02) 9648-6669

A.B.N. 52 093 452 950

Analysis report: A101023.1725.07
Laboratory LOT NO: 2404285

Date Received: 20.09.2024
Date Analysed: 23.09.2024
Report Date: 23.09.2024
Client: ADE Consulting Group
Analytical method: ABI-P-01: Identification of Asbestos in Bulk Samples

Analysis performed by:

Grace (Weichen) Jia
Approved asbestos identifier

Results Authorised By:

Grace (Weichen) Jia
Approved Signatory

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Tests not covered by NATA are denoted with *.

General Comments:

Sydney Laboratory Services is responsible for all the information in the report, except that provided by the customer. All sampling information included in the report has been provided by the client.

Sample analysed as received.
Samples are stored for minimum period of 4 weeks, if longer time is not advised by client.
All positive/negative results have been confirmed by polarized light microscopy including dispersion staining.
ABI-P-01: Qualitative Identification of asbestos in bulk samples using Polarised Light Microscopy and Dispersion Staining Techniques as per AS4964.
Under AS4964, the reporting limit of asbestos in bulk samples is set as 0.1g/kg.

Accreditation No.14664.
Accredited for compliance with ISO/IEC 17025 - Testing.

Tests not covered by NATA are denoted with *.

Client Sample ID.	Laboratory Sample No.	Sample Description/Matrix	Sample Weight (Dry) (g)	Sample Dimensions (cm)	Trace Analysis (> 5 Fibres)	Asbestos ID in Bulk (AS4964) >0.1g/kg	Comments
VAL254_FRAG	2024032840	Grey Fibre Cement	42.00	9.0 x 5.0 x 0.6	N/A	**Chrysotile asbestos detected by polarized light microscopy including dispersion staining.** **Amosite asbestos detected by polarized light microscopy including dispersion staining.** **Crocidolite asbestos detected by polarized light microscopy including dispersion staining.** Organic fibres detected	Nil
VAL255_FRAG	2024032842	Grey Fibre Cement	73.00	14 x 5.0 x 0.8	N/A	**Chrysotile asbestos detected by polarized light microscopy including dispersion staining.** **Amosite asbestos detected by polarized light microscopy including dispersion staining.** **Crocidolite asbestos detected by polarized light microscopy including dispersion staining.** Organic fibres detected	Nil

Sydney Laboratory Services

A division of A. D. Envirotech Australia Pty Ltd
Unit 4/10-11 Millennium Court,
Silverwater 2128
Ph: (02) 9648-6669

A.B.N. 52 093 452 950

Analysis report: A101023.1725.07
Laboratory LOT NO: 2404547

Date Received: 09.10.2024
Date Analysed: 10.10.2024
Report Date: 10.10.2024
Client: ADE Consulting Group
Analytical method: ABI-P-01: Identification of Asbestos in Bulk Samples

Analysis performed by:

Grace (Weichen) Jia
Approved asbestos identifier

Results Authorised By:

Grace (Weichen) Jia
Approved Signatory

This report supersedes all previous reports with the same reference. This report shall not be reproduced except in full

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Tests not covered by NATA are denoted with *.

General Comments:

Sydney Laboratory Services is responsible for all the information in the report, except that provided by the customer. All sampling information included in the report has been provided by the client.

Sample analysed as received.
Samples are stored for minimum period of 4 weeks, if longer time is not advised by client.
All positive/negative results have been confirmed by polarized light microscopy including dispersion staining.
ABI-P-01: Qualitative Identification of asbestos in bulk samples using Polarised Light Microscopy and Dispersion Staining Techniques as per AS4964.
Under AS4964, the reporting limit of asbestos in bulk samples is set as 0.1g/kg.

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Tests not covered by NATA are denoted with *.

Client Sample ID.	Laboratory Sample No.	Sample Description/Matrix	Sample Weight (Dry) (g)	Sample Dimensions (cm)	Trace Analysis (> 5 Fibres)	Asbestos ID in Bulk (AS4964) >0.1g/kg	Comments
MAC2-ACM-1	2024035132	Grey Fibre Cement	20.00	8.0 x 5.0 x 0.7	N/A	**Chrysotile asbestos detected by polarized light microscopy including dispersion staining.** **Amosite asbestos detected by polarized light microscopy including dispersion staining.** **Crocidolite asbestos detected by polarized light microscopy including dispersion staining.** Organic fibres detected	Nil

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Ph: (02) 9648-6669

A.B.N. 52 093 452 950

Analysis report: A101023.1725.07
Laboratory LOT NO: 2403689

Date Received: 22.08.2024
Date Analysed: 22.08.2024
Report Date: 22.08.2024
Client: ADE Consulting Group
Job Location: As Received
Analytical method: Polarised Light Microscopy with dispersion staining (ADE method ABI)
*Asbestos identification as per "National Environment Protection (Assessment of site contamination) Measure, Schedule B1" and "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" is not coverd by NATA scope of accreditation

Analysis performed by:

Grace (Weichen) Jia
Approved asbestos identifier

Results Authorised By:

Min Fu
Approved Signatory

General Comments:

Sydney Laboratory Services is responsible for all the information in the report, except that provided by the customer. All sampling information included in the report has been provided by the client.

Sample analysed as received.
Samples are stored for minimum period of 1 month if longer time is not advised by client.
Asbestos ID - Identification of asbestos in soil samples using Polarised Light Microscopy and Dispersion Staining Techniques. Minimum 500mL soil sample was analysed as recommended by "National Environment Protection (Assessment of site contamination) Measure, Schedule B1 and "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.01g/kg (0.001% w/w) for friable asbestos and 0.1g/kg (0.01% w/w) for bonded asbestos.
This form of analysis is outside the scope of NATA accreditation.
Bonded asbestos containing material (bonded ACM) : Bonded ACM comprises asbestos-containing-material which is in sound condition, although possibly broken or fragmented, and where the asbestos is bound in a matrix such as cement or resin.This term is restricted to material that cannot pass a 7 mm x 7 mm sieve.
Fibrous asbestos (FA): FA comprises friable asbestos material and includes severely weathered cement sheet, insulation products and woven asbestos material. This type of friable asbestos is defined here as asbestos material that is in a degraded condition such that it can be broken or crumbled by hand pressure. This material is typically unbonded or was previously bonded and is now significantly degraded (crumbling).
Asbestos fines (AF): AF includes free fibres, small fibre bundles and also small fragments of bonded ACM that pass through a 7 mm x 7 mm sieve.
Note: The screening level of 0.001% w/w asbestos in soil for FA and AF (i.e. non-bonded/friable asbestos) only applies where the FA and AF are able to be quantified by gravimetric procedures. This screening level is not applicable to free fibres.

Client Sample ID.	Laboratory Sample No.	Sample Description/Matrix	Sample Dimensions (cm) unless stated otherwise	Weight (Dry Weight)	Trace Analysis Completed Y/N	Result	Comments
VAL-166	2024028391	Granulated Dark Soil with Rocks	500mL	584 grams	Yes, no trace asbestos detected by polarized light microscopy including dispersion staining.	No Chrysotile asbestos detected by polarized light microscopy including dispersion staining.	Nil
						No Amosite asbestos detected by polarized light microscopy including dispersion staining.	Nil
						No Crocidolite asbestos detected by polarized light microscopy including dispersion staining.	Nil
						No Synthetic Mineral Fibres detected by polarized light microscopy including dispersion staining.	Nil
						Organic fibres detected by polarized light microscopy including dispersion staining.	Nil
VAL-167	2024028392	Granulated Dark Soil with Rocks	500mL	648 grams	Yes, no trace asbestos detected by polarized light microscopy including dispersion staining.	No Chrysotile asbestos detected by polarized light microscopy including dispersion staining.	Nil
						No Amosite asbestos detected by polarized light microscopy including dispersion staining.	Nil
						No Crocidolite asbestos detected by polarized light microscopy including dispersion staining.	Nil
						No Synthetic Mineral Fibres detected by polarized light microscopy including dispersion staining.	Nil
						Organic fibres detected by polarized light microscopy including dispersion staining.	Nil
VAL-168	2024028393	Granulated Dark Soil with Rocks	500mL	651 grams	Yes, no trace asbestos detected by polarized light microscopy including dispersion staining.	No Chrysotile asbestos detected by polarized light microscopy including dispersion staining.	Nil
						No Amosite asbestos detected by polarized light microscopy including dispersion staining.	Nil
						No Crocidolite asbestos detected by polarized light microscopy including dispersion staining.	Nil
						No Synthetic Mineral Fibres detected by polarized light microscopy including dispersion staining.	Nil
						Organic fibres detected by polarized light microscopy including dispersion staining.	Nil
VAL-169	2024028394	Granulated Dark Soil with Rocks	500mL	719 grams	Yes, no trace asbestos detected by polarized light microscopy including dispersion staining.	No Chrysotile asbestos detected by polarized light microscopy including dispersion staining.	Nil
						No Amosite asbestos detected by polarized light microscopy including dispersion staining.	Nil
						No Crocidolite asbestos detected by polarized light microscopy including dispersion staining.	Nil
						No Synthetic Mineral Fibres detected by polarized light microscopy including dispersion staining.	Nil
						Organic fibres detected by polarized light microscopy including dispersion staining.	Nil
VAL-170	2024028395	Granulated Dark Soil with Rocks	500mL	559 grams	Yes, no trace asbestos detected by polarized light microscopy including dispersion staining.	No Chrysotile asbestos detected by polarized light microscopy including dispersion staining.	Nil
						No Amosite asbestos detected by polarized light microscopy including dispersion staining.	Nil
						No Crocidolite asbestos detected by polarized light microscopy including dispersion staining.	Nil
						No Synthetic Mineral Fibres detected by polarized light microscopy including dispersion staining.	Nil
						Organic fibres detected by polarized light microscopy including dispersion staining.	Nil
VAL-171	2024028397	Granulated Dark Soil with Rocks	500mL	749 grams	Yes, no trace asbestos detected by polarized light microscopy including dispersion staining.	No Chrysotile asbestos detected by polarized light microscopy including dispersion staining.	Nil
						No Amosite asbestos detected by polarized light microscopy including dispersion staining.	Nil
						No Crocidolite asbestos detected by polarized light microscopy including dispersion staining.	Nil
						No Synthetic Mineral Fibres detected by polarized light microscopy including dispersion staining.	Nil
						Organic fibres detected by polarized light microscopy including dispersion staining.	Nil
VAL-172	2024028398	Granulated Dark Soil with Rocks	500mL	652 grams	Yes, no trace asbestos detected by polarized light microscopy including dispersion staining.	No Chrysotile asbestos detected by polarized light microscopy including dispersion staining.	Nil
						No Amosite asbestos detected by polarized light microscopy including dispersion staining.	Nil
						No Crocidolite asbestos detected by polarized light microscopy including dispersion staining.	Nil
						No Synthetic Mineral Fibres detected by polarized light microscopy including dispersion staining.	Nil
						Organic fibres detected by polarized light microscopy including dispersion staining.	Nil
VAL-173	2024028399	Granulated Dark Soil with Rocks	500mL	482 grams	Yes, no trace asbestos detected by polarized light microscopy including dispersion staining.	No Chrysotile asbestos detected by polarized light microscopy including dispersion staining.	Nil
						No Amosite asbestos detected by polarized light microscopy including dispersion staining.	Nil
						No Crocidolite asbestos detected by polarized light microscopy including dispersion staining.	Nil
						No Synthetic Mineral Fibres detected by polarized light microscopy including dispersion staining.	Nil
						Organic fibres detected by polarized light microscopy including dispersion staining.	Nil

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A.B.N. 52 093 452 950

Analysis report: A101023.1725.07
Laboratory LOT NO: 2404285

Date Received: 20.09.2024
Date Analysed: 23.09.2024
Report Date: 23.09.2024
Client: ADE Consulting Group
Job Location: As Received
Analytical method: Polarised Light Microscopy with dispersion staining (ADE method ABI)
*Asbestos identification as per "National Environment Protection (Assessment of site contamination) Measure, Schedule B1" and "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" is not coverd by NATA scope of accreditation

Analysis performed by:

Grace (Weichen) Jia
Approved asbestos identifier

Results Authorised By:

Grace (Weichen) Jia
Approved Signatory

General Comments:

Sydney Laboratory Services is responsible for all the information in the report, except that provided by the customer. All sampling information included in the report has been provided by the client.

Sample analysed as received.
Samples are stored for minimum period of 1 month if longer time is not advised by client.
Asbestos ID - Identification of asbestos in soil samples using Polarised Light Microscopy and Dispersion Staining Techniques. Minimum 500mL soil sample was analysed as recommended by "National Environment Protection (Assessment of site contamination) Measure, Schedule B1 and "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.01g/kg (0.001% w/w) for friable asbestos and 0.1g/kg (0.01% w/w) for bonded asbestos.
This form of analysis is outside the scope of NATA accreditation.
Bonded asbestos containing material (bonded ACM) : Bonded ACM comprises asbestos-containing-material which is in sound condition, although possibly broken or fragmented, and where the asbestos is bound in a matrix such as cement or resin.This term is restricted to material that cannot pass a 7 mm x 7 mm sieve.
Fibrous asbestos (FA): FA comprises friable asbestos material and includes severely weathered cement sheet, insulation products and woven asbestos material. This type of friable asbestos is defined here as asbestos material that is in a degraded condition such that it can be broken or crumbled by hand pressure. This material is typically unbonded or was previously bonded and is now significantly degraded (crumbling).
Asbestos fines (AF): AF includes free fibres, small fibre bundles and also small fragments of bonded ACM that pass through a 7 mm x 7 mm sieve.
Note: The screening level of 0.001% w/w asbestos in soil for FA and AF (i.e. non-bonded/friable asbestos) only applies where the FA and AF are able to be quantified by gravimetric procedures. This screening level is not applicable to free fibres.

Client Sample ID.	Laboratory Sample No.	Sample Description/Matrix	Sample Dimensions (cm) unless stated otherwise	Weight (Dry Weight)	Trace Analysis Completed Y/N	Result	Comments
VAL-254	2024032839	Granulated Dark Soil with rocks	500mL	645 grams	Yes, no trace asbestos detected by polarized light microscopy including dispersion staining.	No Chrysotile asbestos detected by polarized light microscopy including dispersion staining.	Nil
						No Amosite asbestos detected by polarized light microscopy including dispersion staining.	Nil
						No Crocidolite asbestos detected by polarized light microscopy including dispersion staining.	Nil
						No Synthetic Mineral Fibres detected by polarized light microscopy including dispersion staining.	Nil
						Organic fibres detected by polarized light microscopy including dispersion staining.	Nil
VAL-255	2024032841	Granulated Dark Soil with rocks	500mL	631 grams	Yes, no trace asbestos detected by polarized light microscopy including dispersion staining.	No Chrysotile asbestos detected by polarized light microscopy including dispersion staining.	Nil
						No Amosite asbestos detected by polarized light microscopy including dispersion staining.	Nil
						No Crocidolite asbestos detected by polarized light microscopy including dispersion staining.	Nil
						No Synthetic Mineral Fibres detected by polarized light microscopy including dispersion staining.	Nil
						Organic fibres detected by polarized light microscopy including dispersion staining.	Nil
VAL-256	2024032843	Granulated Dark Soil with rocks	500mL	715 grams	Yes, no trace asbestos detected by polarized light microscopy including dispersion staining.	No Chrysotile asbestos detected by polarized light microscopy including dispersion staining.	Nil
						No Amosite asbestos detected by polarized light microscopy including dispersion staining.	Nil
						No Crocidolite asbestos detected by polarized light microscopy including dispersion staining.	Nil
						No Synthetic Mineral Fibres detected by polarized light microscopy including dispersion staining.	Nil
						Organic fibres detected by polarized light microscopy including dispersion staining.	Nil
VAL-257	2024032844	Granulated Dark Soil with rocks	500mL	710 grams	Yes, no trace asbestos detected by polarized light microscopy including dispersion staining.	No Chrysotile asbestos detected by polarized light microscopy including dispersion staining.	Nil
						No Amosite asbestos detected by polarized light microscopy including dispersion staining.	Nil
						No Crocidolite asbestos detected by polarized light microscopy including dispersion staining.	Nil
						No Synthetic Mineral Fibres detected by polarized light microscopy including dispersion staining.	Nil
						Organic fibres detected by polarized light microscopy including dispersion staining.	Nil

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Accreditation No.14664
Accredited for compliance with ISO/IEC 17025 - Testing.

This Quality Control Report contains results of QAQC samples analysis and the Laboratory Acceptance Criteria.

This report supersedes any previous report(s) with this reference. This document shall not be reproduced, except in full.

This report has been electronically signed by authorised signatories below.

Authorised By

Domenico Grieco

General Comments

Duplicate samples and matrix spike may not be prepared on smaller jobs, however are analysed at frequency. QAQC samples shown within the report as e.g. Batch Blank, Batch Matrix Spike were performed on samples not reported on that Certificate of Analysis.

Blank This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in the same manner as for samples.
Duplicate This is the interlaboratory split of a random sample from the processed batch
Matrix Spike A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample): This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class.
Surr. (Surrogate Spike) Surrogates are known additions to each sample, blank and matrix spike or LCS in a batch. Surrogates are chosen as a compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Blank shall be < PQL
Matrix Spikes and LCS: Generally 70-130% for inorganics/metals, 60-140% for organics/PFAS is acceptable. Matrix heterogeneity may result in matrix spike analyses falling outside these limits
RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:
Results <10 times the PQL : No Limit
Results between 10-20 times the PQL : RPD must lie between 0-50%
Results >20 times the PQL : RPD must lie between 0-30%
Surrogate Recoveries : Recoveries must lie between 50-150%

SLS is responsible for all the information in the report, except that provided by the customer.

All sampling information included in the report has been provided by customer.

Information provided by the customer can affect the validity of the results.

Quality Control Report

Contact:	Linda Lenihan	**Date Reported:**	10/10/2024
Customer:	ADE Consulting Group	**No. of Samples:**	25
Address:	Unit 6 7 Millennium Court Silverwater NSW	**Date Received:**	9/10/2024
		Date of Analysis:	9/10/2024

Cust Ref: A101023.1725.07.007 L01

Glossary:

*NATA accreditation does not cover the performance of this service
ND-not detected,
NT-not tested
INS-Insufficient material to perform the test
LCS-Laboratory Control Sample
RPD-Relative Percent Difference
N/A-Not Applicable
< less than
> greater than
PQL- Practical Quantitation Limit
^Analytical result might be compromised due to sample condition or holding time requirements
Reaction rate 1 = Slight
Reaction rate 2 = Moderate
Reaction rate 3 = High
Reaction rate 4 = Vigorous

Quality Control Report

	Sample ID:	D202403429502	D202403512201
	Sample Name	D-TP5_1.5-1.6	MAC2-TP1

Parameter	Units	PQL	02/10/2024	
ESA-P-ORG7 & ORG8				
Benzene			Pass	Pass
Toluene			Pass	Pass
Ethylbenzene			Pass	Pass
m.p Xylene			Pass	Pass
o Xylene			Pass	Pass
Fluorobenzene (Surr.)	%		110	87
C6-C10			Pass	Pass
C6-C9			Pass	Pass

	Sample ID:	D202403429503	D202403512202
	Sample Name	D-TP5_1.5-1.6	MAC2-TP1

Parameter	Units	PQL	02/10/2024	
ESA-P-ORG(12 - 15)				
Acenaphthene			Pass	Pass
Acenaphthylene			Pass	Pass
Anthracene			Pass	Pass
Benzo[a]anthracene			Pass	Pass
Benzo[a]pyrene			Pass	Pass
Benzo[g,h,i]perylene			Pass	Pass
Benzo[b,k]fluoranthene			Pass	Pass
Chrysene			Pass	Pass
Dibenzo[a,h]anthracene			Pass	Pass
Fluoranthene			Pass	Pass
Fluorene			Pass	Pass
Indeno(1,2,3-cd)pyrene			Pass	Pass

Naphthalene			Pass	Pass
Phenanthrene			Pass	Pass
Pyrene			Pass	Pass
p-Terphenyl-d14 (Surr.)	%		119	98
aldrin			Pass	Pass
a-BHC			Pass	Pass
b-BHC			Pass	Pass
d-BHC			Pass	Pass
g-BHC (lindane)			Pass	Pass
cis-chlordane			Pass	Pass
trans-chlordane			Pass	Pass
4,4'-DDD			Pass	Pass
4,4'-DDE			Pass	Pass
4,4'-DDT			Pass	Pass
dieldrin			Pass	Pass
endosulfan I			Pass	Pass
endosulfan II			Pass	Pass
endosulfan sulfate			Pass	Pass
endrin			Pass	Pass
endrin aldehyde			Pass	Pass
endrin ketone			Pass	Pass
heptachlor			Pass	Pass
heptachlor epoxide			Pass	Pass
hexachlorobenzene			Pass	Pass
methoxychlor			Pass	Pass
TCMX (Surr.)	%		86	73
chlorpyrifos			Pass	Pass
chlorpyrifos methyl			Pass	Pass
diazinon			Pass	Pass
fenchlorphos			Pass	Pass
methyl parathion			Pass	Pass

prophos			Pass	Pass
tributylphosphorotrithioite			Pass	Pass
Aroclor 1016			Pass	Pass
Aroclor 1221			Pass	Pass
Aroclor 1232			Pass	Pass
Aroclor 1242			Pass	Pass
Aroclor 1248			Pass	Pass
Aroclor 1254			Pass	Pass
Aroclor 1260			Pass	Pass
2-fluorobiphenyl (Surr.)	%		109	98
		Sample ID:	**D202403429504**	**D202403512203**
		Sample Name	**D-TP5_1.5-1.6**	**MAC2-TP1**
Parameter	***Units***	***PQL***	02/10/2024	Sample Date: 09/10/2024
ESA-P-ORG(3,8)				
>C10-C16			Pass	Pass
>C16-C34			Pass	Pass
>C34-C40			Pass	Pass
>C10-C14			Pass	Pass
>C15-C28			Pass	Pass
>C29-C36			Pass	Pass

	Sample ID:	D202403433204	D202403434104	D202403453504	D202403457804
	Sample Name	0310242	18.2	TP2	WAC137-A-TP5_2.0
Parameter	Units	PQL			
ESA-MP-01,ICP-01					
Arsenic			Pass	Pass	Pass	Pass
Cadmium			Pass	Pass	Pass	Pass
Chromium			Pass	Pass	Pass	Pass
Copper			Pass	Pass	Pass	Pass
Lead			Pass	Pass	Pass	Pass
Mercury			Pass	Pass	Pass	Pass
Nickel			Pass	Pass	Pass	Pass
Zinc			Pass	Pass	Pass	Pass

	Sample ID:	Q2024007894
	Sample Name	
Parameter	Units	PQL	BTEX Blank - Soil
ESA-P-ORG7 & ORG8			
Benzene	mg/kg	0.5	<0.50
Toluene	mg/kg	0.5	<0.50
Ethylbenzene	mg/kg	1	<1.0
m.p Xylene	mg/kg	2	<2.0
o Xylene	mg/kg	1	<1.0
C6-C10	mg/kg	35	<35
C6-C9	mg/kg	25	<25

	Sample ID:	Q2024007895
	Sample Name	

Parameter	Units	PQL	BTEX Blank Sp-Soil
ESA-P-ORG7 & ORG8			
Benzene	%		104
Toluene	%		102
Ethylbenzene	%		94
m.p Xylene	%		85
o Xylene	%		95
Fluorobenzene (Surr.)	%		72

	Sample ID:	Q2024007896
	Sample Name	

Parameter	Units	PQL	PCB Blank - Soil
ESA-P-ORG(12 - 15)			
Acenaphthene	mg/kg	0.3	<0.30
Acenaphthylene	mg/kg	0.3	<0.30
Anthracene	mg/kg	0.3	<0.30
Benzo[a]anthracene	mg/kg	0.3	<0.30
Benzo[a]pyrene	mg/kg	0.3	<0.30
Benzo[g,h,i]perylene	mg/kg	0.3	<0.30
Benzo[b,k]fluoranthene	mg/kg	0.3	<0.30
Chrysene	mg/kg	0.3	<0.30
Dibenzo[a,h]anthracene	mg/kg	0.3	<0.30
Fluoranthene	mg/kg	0.3	<0.30
Fluorene	mg/kg	0.3	<0.30
Indeno(1,2,3-cd)pyrene	mg/kg	0.3	<0.30
Naphthalene	mg/kg	0.3	<0.30
Phenanthrene	mg/kg	0.3	<0.30
Pyrene	mg/kg	0.3	<0.30
aldrin	mg/kg	0.1	<0.10

a-BHC	mg/kg	0.1	<0.10
b-BHC	mg/kg	0.1	<0.10
d-BHC	mg/kg	0.1	<0.10
g-BHC (lindane)	mg/kg	0.1	<0.10
cis-chlordane	mg/kg	0.1	<0.10
trans-chlordane	mg/kg	0.1	<0.10
4,4'-DDD	mg/kg	0.1	<0.10
4,4'-DDE	mg/kg	0.1	<0.10
4,4'-DDT	mg/kg	0.1	<0.10
dieldrin	mg/kg	0.1	<0.10
endosulfan I	mg/kg	0.2	<0.20
endosulfan II	mg/kg	0.2	<0.20
endosulfan sulfate	mg/kg	0.1	<0.10
endrin	mg/kg	0.2	<0.20
endrin aldehyde	mg/kg	0.1	<0.10
endrin ketone	mg/kg	0.1	<0.10
heptachlor	mg/kg	0.1	<0.10
heptachlor epoxide	mg/kg	0.1	<0.10
hexachlorobenzene	mg/kg	0.1	<0.10
methoxychlor	mg/kg	0.1	<0.10
chlorpyrifos	mg/kg	0.1	<0.10
chlorpyrifos methyl	mg/kg	0.1	<0.10
diazinon	mg/kg	0.1	<0.10
fenchlorphos	mg/kg	0.1	<0.10
methyl parathion	mg/kg	0.1	<0.10
prophos	mg/kg	0.1	<0.10
tributylphosphorotrithioite	mg/kg	0.1	<0.10
Aroclor 1016	mg/kg	0.5	<0.50
Aroclor 1221	mg/kg	0.5	<0.50
Aroclor 1232	mg/kg	0.5	<0.50
Aroclor 1242	mg/kg	0.5	<0.50

Aroclor 1248	mg/kg	0.5	<0.50
Aroclor 1254	mg/kg	0.5	<0.50
Aroclor 1260	mg/kg	0.5	<0.50

Sample ID:	**Q2024007897**
Sample Name	

Parameter	***Units***	***PQL***	PCB Blank Sp - Soil
ESA-P-ORG(12 - 15)			
Acenaphthene	%		99
Anthracene	%		88
Fluoranthene	%		85
Naphthalene	%		101
Phenanthrene	%		90
Pyrene	%		82
p-Terphenyl-d14 (Surr.)	%		119
aldrin	%		79
endrin	%		94
hexachlorobenzene	%		99
TCMX (Surr.)	%		87
chlorpyrifos	%		70
diazinon	%		87
2-fluorobiphenyl (Surr.)	%		112
Aroclor 1016	%		124

	Sample ID:	Q2024007898
	Sample Name	

Parameter	Units	PQL	TRH Blank-Soil
ESA-P-ORG(3,8)			
>C10-C16	mg/kg	50	<50
>C16-C34	mg/kg	100	<100
>C34-C40	mg/kg	100	<100
>C10-C14	mg/kg	50	<50
>C15-C28	mg/kg	100	<100
>C29-C36	mg/kg	100	<100

	Sample ID:	Q2024007899
	Sample Name	

Parameter	Units	PQL	TRH Blank Spike-Soil
ESA-P-ORG(3,8)			
>C10-C16	%		107
>C10-C14	%		102

	Sample ID:	Q2024007916	Q2024007941
	Sample Name		

Parameter	Units	PQL	Metals Blank - Soil	Metals Blank - Soil
ESA-MP-01,ICP-01				
Arsenic	mg/kg	5	<5.0	<5.0
Cadmium	mg/kg	0.1	<0.10	<0.10
Chromium	mg/kg	1	<1.0	<1.0
Copper	mg/kg	5	<5.0	<5.0
Lead	mg/kg	5	<5.0	<5.0
Mercury	mg/kg	0.1	<0.10	<0.10
Nickel	mg/kg	1	<1.0	<1.0
Zinc	mg/kg	5	<5.0	<5.0

	Sample ID:	Q2024007917	Q2024007942
	Sample Name		
Parameter	Units	PQL	Metals Blank Sp-Soil	Metals Blank Sp-Soil
ESA-MP-01,ICP-01				
Arsenic	%		81	90
Cadmium	%		88	95
Chromium	%		87	92
Copper	%		83	88
Lead	%		85	88
Mercury	%		95	95
Nickel	%		88	92
Zinc	%		89	93

	Sample ID:	S202403429402
	Sample Name	D-TP5_0.9-1.0
Parameter	Units	PQL	Sampling date: 02/10/2024
ESA-P-ORG-07 & 08			
Benzene	%		118
Toluene	%		115
Ethylbenzene	%		84
m.p Xylene	%		76
o Xylene	%		71
Fluorobenzene (Surr.)	%		93

Sample ID:	**S202403429403**
Sample Name	**D-TP5_0.9-1.0**

Parameter	*Units*	*PQL*	Sampling date: 02/10/2024
ESA-P-ORG(12 - 15)			
Acenaphthene	%		91
Anthracene	%		83
Fluoranthene	%		81
Naphthalene	%		94
Phenanthrene	%		83
Pyrene	%		80
p-Terphenyl-d14 (Surr.)	%		114
aldrin	%		75
endrin	%		93
hexachlorobenzene	%		92
TCMX (Surr.)	%		81
chlorpyrifos	%		75
diazinon	%		79
Aroclor 1016	%		119
2-fluorobiphenyl (Surr.)	%		98

Sample ID:	**S202403429404**
Sample Name	**D-TP5_0.9-1.0**

Parameter	*Units*	*PQL*	Sampling date: 02/10/2024
ESA-P-ORG(3,8)			
>C10-C16	%		101
>C10-C14	%		98

			Sample ID:	S202403433104	S202403453404
			Sample Name	0310241	TP1
Parameter	*Units*	*PQL*			
ESA-MP-01,ICP-01					
Arsenic	%			90	88
Cadmium	%			83	88
Chromium	%			79	80
Copper	%			78	85
Lead	%			76	71
Mercury	%			97	92
Nickel	%			79	79
Zinc	%			83	85

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