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ASBESTOS CLEARANCE & SOIL CONTAMINATION ASSESSMENT

January 2020 J160879-01

NSW Land and Housing Corporation

50 Wellington Road, Chester Hill NSW

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Asbestos Clearance & Soil Contamination Assessment

NSW Land and Housing Corporation

50 Wellington Road, Chester Hill NSW

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1 Introduction

Greencap Pty Ltd (Greencap) was engaged by NSW Land and Housing Corporation (the Client) to undertake an Asbestos Clearance & Soil Contamination Assessment at 50 Wellington Road, Chester Hill NSW (the site). The site boundary is identified on *Figure 1*. General site information is provided in *Table 1* below.

Table 1: Site Information				
Site Address:	50 Wellington Road, Ch	ester Hill NSW		
Property Identification:	Lot 28 DP 23866	Lot 28 DP 23866		
Local Government Area	Canterbury Bankstown Council			
Approximate Site Area:	920m²			
Current Site Use:	Vacant			
	North Railway Line			
		Vacant lot		
Surrounding Site Use:	South	Wellington Road		
	West Vacant lot			

2 Project Background

The client has undertaken demolition works of building sites owned by the NSW Land and Housing Corporation within the Sydney metro area.

As part of these works, Greencap has been engaged for Asbestos Hygiene Consultancy Services. For each site these services involve an inspection of the property for hazardous materials, where hazardous materials including Asbestos Containing Materials (ACM) are documented within a HazMat Survey report. Asbestos materials are then removed from the property by a Licensed Asbestos Removal Contractor (LARC). Upon completion of removal, a clearance inspection of the building is undertaken. The building is then demolished, and all demolition waste is removed from the site.

This report details the Asbestos Clearance & Soil Contamination Assessment, following completion of the above works for 50 Wellington Road, Chester Hill NSW. The following reports have been developed by Greencap for this site:

- J160879 50 Wellington Road, Chester Hill HazMat Survey Report Nov 2019; and
- J160879 50 Wellington Road, Chester Hill Clearance Certificate Dec 2019.

2.1 Sampling/Assessment Round – 18th December 2019

On 18th December 2019, Greencap attended site to undertake test pitting, soil sampling and a clearance inspection of the site. During the site assessment, any potential asbestos containing material (ACM) was emu picked from the site surface. Upon completion of the inspection, no visible asbestos was identified to be remaining on the site surface or within test pits (refer to *Appendix A – Photographs 1-4*). A total of five test pits were excavated and five samples were submitted to the laboratory for analysis for both chemical and asbestos analysis (refer to *Figure 2* for TP1-5 locations). Laboratory analysis returned a positive result for asbestos in one of the five test pits (refer to *Appendix B – Laboratory Certificates*), which exceeded the adopted site criteria. Chemical analysis did not identify any Contaminants of Potential Concern (CoPC) - refer *Appendix B – Laboratory Certificates*.

Due to the positive asbestos detection, Greencap contacted the client on Monday 13th January 2020 and recommended that remediation was undertaken on the site to address asbestos contamination identified to be present within site soils.





Greencap then attended site on the 16th January 2020 to supervise remediation works undertaken by Sydney City Civil. During which, fill soils on the site were excavated to reworked clays, a depth of approximately 150mm. These works surrounded the area (TP1) which was identified to have contained asbestos exceeding the site criteria (refer to *Appendix A – Photographs 5-6*). Greencap inspected excavation works during remediation and a total of approximately 2.42 tonnes of additional contaminated topsoil was removed from the site (refer to *Appendix E* for tipping dockets). An additional round of air monitoring was undertaken during the remediation works (refer to *Appendix D*).

Following these works on the 16th January 2020, Greencap undertook a surface clearance of the excavation footprint and collected a validation composite sample for asbestos (ACM and AF/FA NEPM) analysis.

This report pertains to the <u>additional site inspection/assessment</u>, <u>following completion of remediation</u> activities undertaken on the 16th January 2020.

3 Objectives/Project Scope

The project objectives of this assessment are to inspect and sample site fill soils, following the demolition and removal of structures for assessment of Contaminants of Potential Concern (CoPC) which may remain on the site. Following the test pitting and sampling event, an asbestos clearance inspection of the site is then undertaken. In order to achieve these project objectives, the following scope was undertaken:

3.1 Soil Chemical Sampling

Soil chemical sampling was taken on an approximate grid pattern across the site, targeting the former building footprints on the site. The following was then undertaken at each test pit location:

- 10L Asbestos sieve testing for asbestos containing material (ACM) based on the requirements of the National Environment Protection (Assessment of Site Contamination) Measure 2013 (ASC NEPM 2013);
- Test pit samples targeted fill material. The fill material samples were then submitted to Eurofins Pty Ltd for the following analyses:
 - Heavy metals (As, Cd, Cr, Cu, Ni, Pb, Zn & Hg);
 - ➤ Total Recoverable hydrocarbons (TRH);
 - Benzene, toluene, ethylbenzene, xylenes and naphthalene (BTEXN);
 - Organochlorine Pesticides (OCP); and
 - > Polycyclic aromatic hydrocarbons (PAH).
- A field QA/QC soil sample was collected at the rate of one per 10 samples.

3.2 Soil Asbestos Sampling and Clearance Inspection

A visual clearance inspection of the site soils was conducted to the standard specified in 3.10 of the Safe Work NSW Code of Practice: How to Safely Remove Asbestos (2016). The inspection included the following:

- A 500ml fill sample was collected from each test pit and was submitted to Greencap's North Ryde NATA accredited laboratory for the following analysis:
 - Asbestos: Asbestos Fines/Fibrous Asbestos (AF/FA).
- Visual inspection of site soils; and
- Raking of site soils to identify potential ACM fragments in the surface layer soils.

3.2.1 Asbestos Soil Inspection - Following Remediation

Following completion of remediation activities, a visual clearance inspection was conducted to the standard specified in 3.10 of the Safe Work NSW Code of Practice: How to Safely Remove Asbestos (2016) and a



composite validation sample was collected from the remediation excavation footprint for the analysis of Asbestos (ACM and AF/FA NEPM).

4 Sampling Locations

4.1 Test Pit Sampling

A total of five targeted test pit locations were chosen for the site (refer to *Figure 2* for sampling locations). Sampling targeted the former building footprints.

5 Field Observations

A qualified Greencap environmental consultant attended the site on the 18th December 2019 to undertake the soil assessment. Greencap then reattended the site on16th January 2020 to supervise remediation works and conduct a visual clearance inspection/collect samples, following completion of remediation works. Photographs are provided in Appendix A.

5.1 Test pit Observations

Soil profiles encountered across the site consisted of fill material. The majority of fill material encountered across the site comprised brown sandy topsoil and orange/brown reworked clays, with minor amounts of aggregate (refer *Appendix A – Photographs 1 to 4*).

Table 2 below details material descriptions and the depth of fill which was logged during the fieldwork event.

Table 2: Test I	Table 2: Test Pit Soil Description Summary					
Test Pit	Depth of Sample (m)	Material Description				
TP1	0.01-0.1	Brown sandy clay fill with inclusions of concrete aggregate <10% and rootlets.				
TP2	0.1-0.2	Light brown sandy clay fill with inclusions of angular rock and concrete fragments <40%.				
TP3	0.01-0.1	Brown sandy clay fill with inclusions of concrete aggregate <10% and rootlets.				
TP4	0.1-0.2	Brown sandy clay fill with rootlets.				
TP5	0.01-0.1	Brown sandy clay fill with orange/brown clay and rootlets.				

5.2 10L Sieve Testing for ACM

10L sieve testing of the bulk fill samples based on the requirements of the National Environment Protection (Assessment of Site Contamination) Measure 2013 (ASC NEPM 2013) was undertaken at each test pit location.

During the 10L sieve testing event on the 18th December, no ACM was observed in any of the test pits.

5.3 Asbestos Clearance Walkover Inspection - 18th Dec 2019

An initial walkover inspection was undertaken on the 18th December 2019 (refer to *Appendix A* - Photographs 1-2. During this inspection, ACM in the form of a fibre cement sheet fragment was emu picked and removed from the soil surface of the south-eastern portion of the site. No other potential ACM fragments were observed during this inspection.

5.3.1 Asbestos Clearance Walkover Inspection - 13th Jan 2020

Following receipt of asbestos laboratory results and the identification of asbestos in soil exceeding the adopted criteria surrounding test pit TP1 (*Figure 2*), Greencap undertook an additional walkover inspection upon completion of the remediation works on the 13th January 2020 (refer to *Appendix A* - Photographs 5-6) and collected a composite soil asbestos validation sample from the excavation surface.





6 Assessment Criteria

6.1 Guidance and Legislation

The fieldwork and preparation of this report have been undertaken in general accordance with the following documents:

- National Environmental Protection (Assessment of Site Contamination) Measure 1999 (2013 amendment);
- WA Department of Health (2009) Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia;
- NSW EPA (1995) Sampling Design Guidelines,
- NSW OEH (2011), Contaminated Sites Guidelines for Consultants Reporting on Contaminated Sites;
- Work Health and Safety Act 2011 and Work Health and Safety Regulation 2011;
- NSW WorkCover (2014), Managing Asbestos in or on Soil
- Code of practice How to manage and control asbestos in the workplace (SafeWork NSW).

6.2 Adopted Site Criteria

Soil Investigation Levels (SILs) are used to assess the significance of the concentrations of contaminants in soil. SILs are the concentration levels above which further appropriate evaluation and/or remediation are required.

Typically for contaminant concentration to be considered acceptable for the respective land use criteria, the data set must conform to the following requirements:

- 95% upper confidence limit (UCL) of the arithmetic mean of analytical results is below the site criteria.
- Standard deviation is less than 50% of the site criteria.
- No single sample analytical result is greater than 250% of the site criteria.

Human health-based soil contamination assessment criteria are provided in the 2013 Amendment of the National Environmental Protection (Assessment of Site Contamination) Measure 1999 (NEPM) Schedule B (1) Guideline on Investigation Levels for Soil and Groundwater. Analysis results for soil samples are compared to a set of acceptance criteria adopted from the NEPM 2013 amendment, to assess land use suitability.

The adopted criteria for soils include the health-based investigation levels (HILs) and Health Screening Levels (HSLs) for "Residential A" land use documented in Schedule B-1 of NEPM 2013. These are presented in *Table 3* below.

The methodology has been developed to protect soil processes, soil biota (flora and fauna) and terrestrial invertebrates and vertebrates. The current land use on site is residential and hence the EILs for "Residential A" have been adopted for this assessment.

The EIL is calculated from summing the ACL and the ambient background concentration (ABC) to derive the site-specific soil quality guideline (SQG) taking into account the effect caused by pH, exchangeable cations, iron and total organic carbon in soil that can affect concentration toxicity data.

No samples were analysed for cation exchange capacity (CEC) or pH, which are required to calculate site specific EIL. For this reason, conservative values have been used instead. A summary of the EILs for aged contamination in soil (>2 years) for the current land use are presented in *Table 3* below.



Analyte	Criteria (all units in mg/kg with the exception of asbestos)						
	Unit	Health investigation levels	Soil HSL for vapour intrusion	Ecological screening levels	Management limits		
		Total Recoverable	hydrocarbons (TRH)				
C ₆ -C ₁₀ Fraction F1	mg/kg	-	45	180	700		
>C ₁₀ -C ₁₆ Fraction F2	mg/kg	-	110	120	1000		
>C ₁₆ -C ₃₄ Fraction F3	mg/kg	-	-	300	2500		
>C ₃₄ -C ₄₀ Fraction F4	mg/kg	-	-	2800	10,000		
	·	Polycyclic Aromatic	Hydrocarbons (PAH)				
BaP TEQ	mg/kg	3	-	-	-		
ВаР	mg/kg	-	-	0.7			
Naphthalene	mg/kg	-	3	-	-		
otal PAH mg/kg		300	-	-	-		
		BTEX co	mpounds				
Benzene	mg/kg	-	0.5	50	-		
Toluene	mg/kg	-	160	85	-		
Ethylbenzene	mg/kg	-	55	70	-		
Xylene (total)	mg/kg	-	40	105	-		
		Metals and	d metalloids				
Arsenic	mg/kg	100	-	-	-		
Cadmium	mg/kg	20	-	-	-		
Chromium	mg/kg	100 (Cr VI)	-	-	-		
Copper	mg/kg	6000	-	-	-		
Lead	mg/kg	300	-	-	-		
Mercury	mg/kg	40	-	-	-		
Nickel	mg/kg	400	-	-	-		
Zinc	mg/kg	7400	-	-	-		
	Org	anochlorine pesticides a	nd Polychlorinated biph	enyls			
DDT+DDE+DDD	mg/kg	240	-	-	-		
Aldrin and dieldrin	mg/kg	6	-	-	-		
Chlordane	mg/kg	50	-	-	-		
Endosulfan	mg/kg	270	-	-	-		
Endrin	mg/kg	10	-	-	-		



Table 3: Soil Assessment Criteria – NEPM 1999 (2013 Amendment)								
Analyte	Criteria (all u	Criteria (all units in mg/kg with the exception of asbestos)						
	Unit Health investigation levels Soil HSL for vapour screening levels Management screening levels							
Heptachlor	mg/kg	6	-	-	-			
НСВ	mg/kg	-						
Methoxychlor	mg/kg 300							
PCBs	mg/kg	1	-	-	-			

Notes:

- a. Soil HSLs for sand soils at shallow depths (most conservative)
- b. * DDT only
- c. Cr HIL value is for Cr (V1), EIL is for Cr (III)

6.3 Asbestos Criteria

Soil Investigation Levels (SILs) are used to assess the significance of the concentrations of contaminants in soil. SILs are the concentration levels above which further appropriate evaluation and/or remediation is required.

The SILs adopted for this investigation were largely derived from the following resources:

- National Environmental Protection Council (NEPC) National Environmental Protection (Assessment of Site Contamination) Measure 1999 (NEPM), 2013 amendment; and
- Western Australian Department of Health (DoH) *Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia*, May 2009.

Based on the current use of the site, the soil asbestos investigation criteria [SILs (NEPM 2013) or Soil Asbestos Concentrations (WA DoH 2009)] adopted for this investigation are 0.001% w/w for friable asbestos and 0.01% for bonded asbestos materials (Residential A).

Note: The current Australian Standard AS4964-2004 Method for the qualitative identification of asbestos in bulk samples analysis methods undertaken in Australia cannot achieve 0.001% w/w for asbestos fines and friable asbestos (AF/FA). The AS4964-2004 Method for the qualitative identification of asbestos in bulk samples with a non-homogenous sample reporting limit of 0.001%. Where the sampling results indicated that asbestos was not detected at the reporting limit and no asbestos containing materials were observed at that sample location or during the visual inspection, the area is considered to pose a negligible risk.

The most applicable document providing guidance on asbestos contaminated soil has been prepared by the Western Australian Department of Health *Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia*, May 2009. This document states soil asbestos investigation criteria of 0.001% for friable asbestos and 0.01% for bonded asbestos materials such as visible asbestos fibre cement, is suitable at sites where the land use is residential A.

The National Environmental Protection Council (NEPC) — NEPM 2013 provides a framework for the assessment of site contamination in Australia. Reference is made to health-based risk assessments being conducted to assess the potential for asbestos fibres to be released due to the disturbance of the soil. Guidance for the investigation, assessment and remediation of asbestos contaminated sites in NSW in the NEPM 2013 essentially follows the advice provided in the WA DOH Asbestos Guidelines, 2009.

The document *Management of Asbestos in the Non-Occupational Environment, 2005,* prepared by the then Health Council, states that it is "impractical to propose that a site can be 'free' of asbestos fibres", and that a risk assessment approach is required to determine if a site is fit for its proposed purpose. The results of this investigation will help establish the current human health risks posed by the asbestos contamination.



Table 4: Soil Investigation Levels for Asbestos in Soil				
Form of Asbestos	Health Screening Level (w/w) Residential A			
Bonded ACM	0.01%			
FA and AF (friable asbestos)	0.001%			
All forms of asbestos	No visible asbestos for surface soil			

7 Soil Analytical Results

7.1 Laboratory Analytical Schedule

Soil samples were submitted to NATA Accredited laboratories, Eurofins Pty Ltd and Greencap's North Ryde asbestos laboratory for analysis of following Chemicals of Potential Concern (CoPC):

- Heavy metals (As, Cd, Cr, Cu, Ni, Pb, Zn & Hg);
- > Total Recoverable hydrocarbons (TRH);
- > Benzene, toluene, ethylbenzene, xylenes and naphthalene (BTEXN);
- Organochlorine Pesticides (OCP);
- > Polycyclic aromatic hydrocarbons (PAH); and
- > Asbestos in soils (AF/FA) on 500ml soil samples (AF/FA).

The laboratory analysis reports for these samples are attached in Appendix B.

7.2 Chemical Analytical Results

All analytical results for soil samples were compared against the assessment criteria (Section 6) and results are presented in the results summary table in Appendix C.

All analysis results for all soil samples were either non-detect (ND; not detected to the Limit of reporting) or below the applicable human health criteria.

Refer to Appendix B for laboratory certificates of analysis.

7.3 Asbestos Analytical Results

The following calculation was employed to calculate the w/w % of soil asbestos:

$$\%$$
 Soil Asbestos = $\frac{\%$ Asbestos Content x ACM (kg)
Soil sample Volume x Soil Density (kg/L)

Where it is assumed that the % of Asbestos Content (within asbestos cement material) was 15%. AF/FA (<2mm fraction is calculated assuming the % of Asbestos Content is 100%.

Asbestos in the form of a fibre cement fragment (ACM) was identified above the reporting limit in sample TP1. Asbestos in the form of a fibre cement fragment was identified in samples TP2 and TP4, however this result was observed below the reporting limit - returns a negative result.

All 500ml test pit soil samples collected from the site were below the adopted AF/FA asbestos site criteria as detailed in *Section 6.3* above).

A summary of the data is presented in *Table 5* below.



Table 5: Laboratory Asbestos in Soil Results							
Sample Location Test Pit	Sample Depth (m)	Weight of soil analysed at Laboratory (g)	Weight of ACM (>2mm Fraction) (g)	Concentration of ACM >2mm in Soil (%w/w)	Weight of AF/FA (<2mm Fraction) (g)	Concentration of AF/FA (%w/w)	
	Sample Dat	a	ACM Concentratio	n (>2mm Fraction)	AF/FA Concentration (<2mm Fraction		
TP1	0.1-0.2	970.4	0.92	0.000140	0.0008	0.0000008	
TP2	0.01-0.1	997	0.03	0.000005	N/A	N/A	
TP3	0.2-0.3	872	ND	N/A	ND	N/A	
TP4	0.01-0.1	831.7	0.04	0.000007	0.0009	0.0000011	
TP5	0.1-0.2	884.8	ND	N/A	ND	N/A	
Val-1	N/A	547.1	ND	N/A	ND	N/A	
Bonded AC Health Screening Level (0.01%)			.evel (w/w) HIL – A	AF/F Health Screening Le (0.001	vel (w/w) HIL – A		

Note:

Bold/Shade: Indicates exceedance of criteria

ND: Non-Detect N/A: Not Applicable

Refer to Appendix B for asbestos certificates of analysis.

7.4 Asbestos 10L Sieve Test Results

During the 10L field sieve screening, potential ACM was not identified at any test pit location. A summary of the data is presented in *Table 6* below.

Table 6: Field Screening Results							
Test Pit ID	Sample Depth (m)	Weight of 10L sample (Kg)	Weight of screened ACM (g)	Concentration of Asbestos in Soil (%w/w)			
TP1	0.1-0.2	14	N/D	N/A			
TP2	0.01-0.1	14	N/D	N/A			
TP3	0.2-0.3	12	N/D	N/A			
TP4	0.01-0.1	13	N/D	N/A			
TP5	0.1-0.2	12	N/D	N/A			

Health Screening Level (w/w) HIL - A (0.01%)

Note:

Bold/Shade: Indicates exceedance of criteria

N/D: Non-Detect N/A: Not Applicable

7.5 QA/QC Procedures

The evaluation of the QA/QC procedures (refer to *Appendix D*) shows that the established measurement data quality objectives for this project have been met and the data set is considered to be reliable.



8 Asbestos in Soil Clearance Inspection

8.1 Removal Details

8.1.1 Extent

Refer to Greencap report: *J160879* 50 Wellington Road, Chester Hill – *Clearance Certificate* – *Dec 2019* for the full list of specific ACM locations. Asbestos materials were identified to extend to approximately 823m².

Refer to Figure 2 for the extent of asbestos contaminated soil removed on 13th January 2020 and Appendix E for tipping dockets.

8.1.2 Date of Removal

Monday 13th December 2019 & 13th January 2020.

8.1.3 Licensed Asbestos Removal Contractor (LARC)

Sydney City Civil, a Class "B" Licensed Asbestos Removal Contractor (LARC) (AD 211631) as issued under the NSW Work Health and Safety Regulation 2017 by SafeWork NSW, conducted the asbestos removal works.

8.2 Soil Clearance Inspection

8.2.1 Soil Inspection Date

Monday, 13 January 2020

8.2.2 Visual Surface Inspection

A visual clearance inspection was undertaken by James Green of Greencap, after completion of the removal/demolition and remediation works. Refer to *Figure 2* for clearance boundary. At the time of inspection there was no visible asbestos residue remaining on the soils within the site as a result of the asbestos removal.

The visual clearance inspection conducted was to the standard specified in 3.10 of the Safe Work NSW *Code of Practice: How to Safely Remove Asbestos (2016)*. Accordingly, Greencap does not guarantee that this visual clearance inspection has confirmed, warranted or certified the location, identification and/or the removal of all asbestos material either identified by Greencap or others in any report previously provided and/or which is or may be present on the site inspected.

Refer to the photographs in Appendix A – Photographs 1-2 & 4-6.

8.2.3 Asbestos Clearance Soil Sampling

One 500ml soil sample was collected from each test pit, for a total of five samples within the clearance area. All samples were sent for analysis at Greencap's NATA approved laboratory for Asbestos Fines/Fibrous Asbestos (AF/FA) in accordance with the *National Environmental Protection (Assessment of Site Contamination) Measure 1999*, (2013 Amendment).

TP1 returned a positive result for asbestos in the form of ACM (refer Section 7.3) and remediation works were undertaken of the area (Refer Section 2.1). Following completion of the remediation works, a composite sample was collected from the excavation/remediation footprint. This sample returned a negative result for asbestos. Please refer to Figure 2 for sample locations and Appendix B for laboratory certificates.

9 Discussion/Conclusions

9.1 Soil Analytical Results Discussion/Conclusion

The laboratory analysis indicates that there were no identified exceedances in the adopted site criteria (HIL-A – Residential) following completion of the removal, demolition and remediation works. Therefore, Greencap is of the opinion that the site is suitable for its intended use (residential housing).





9.2 Asbestos in Soil Clearance Inspection Discussion/Conclusion

The results of the visual clearance inspection and soil sampling indicates that the asbestos materials mentioned in *Section 8.1.1* have been removed and the area can now be accessed for general site operations.

10 Asbestos in Soil Clearance Inspection Limitations

The asbestos in soil clearance certificate relates only to the asbestos materials and removal works described in *Section 8*. Due to the nature of the material, it is never possible to guarantee every fragment of asbestos containing material has been identified. In the unlikely event that soil disturbance uncovers a fragment of an asbestos containing material, given its bonded matrix this event would not pose an unacceptable health risk to the property.

All asbestos encountered should be addressed. The Unexpected Finds Protocol in use at the site should be continually implemented for future site activities and should be used to address any minor discoveries.

Greencap was not engaged to revise the asbestos audit/register nor prepare any scope of works or work method statements for this job. The LARC was engaged directly by the client and scope of work agreed previously with the client.



Asbestos Clearance & Soil Contamination Assessment

NSW Land and Housing Corporation

50 Wellington Road, Chester Hill NSW

Figures



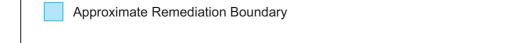
Site Location



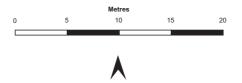
		The state of the s	A LONG THE RESERVE OF THE PARTY			
	Client Name:		Land and Housing Corporation NSW			
GREENCAP	Client Number:		C107603			
Going Further in Managing Risk	Project Description:		Soil Assessment & Asbestos Clearance			
Level 2, 11-17 Khartoum Road North Ryde, NSW 2113 Ph: 02-9889-1800	Address:		50 Wellingto	n Road,	Chester Hill NSW	
	Prepared:	JG	Reviewed:	Reviewed: MB Date: 21/01/2020		
Fx: 02-9889-1811	Figure 1	Site Lo	cation and Re	egional C	ontext	

Disclaimer: Greencap Pty Ltd has produced this map for the purpose of presenting a summary of relevant spatial information and gives no warranty in relation to the data (including accuracy, reliability (*including without limitation, liability in negligence) for any loss, damage or costs (including consequential damage) relating to any use or reliance upon the data. Data must not be used for direct marketing or be used in breach of privacy laws. Service Layer Credits 2016 NSW Land and Property Information (Six Maps)





Test Pit Location



	Client Nam	e:	Land and Housing Corporation NSW					
GREENCAP	Client Number:		C107603					
Going Further in Managing Risk	Project Des	Project Description: Soil Assessment & Asbestos Clearance						
Level 2, 11-17 Khartoum Road North Ryde, NSW 2113	Address:		50 Wellington Road, Chester Hill NSW					
Ph: 02-9889-1800	Prepared:	JG	Reviewed:	MB	Date:	21/01/2020		
Fx: 02-9889-1811	Figure 2							
Fx: 02-9889-1811			t, Remediation & Clearance Boundary					

Disclaimer: Greencap Pty Ltd has produced this map for the purpose of presenting a summary of relevant spatial information and gives no warranty in relation to the data (including accuracy, reliability, completeness or suitability) and accepts no liability (*including without limitation, liability in negligence) for any loss, damage or costs (including consequential damage) relating to any use or reliance upon the data. Data must not be used for direct marketing or be used in breach of privacy laws. Service Layer Credits 2016 NSW Land and Property Information (Six Maps)



Asbestos Clearance & Soil Contamination Assessment

NSW Land and Housing Corporation

50 Wellington Road, Chester Hill NSW

Appendix A: Photographic Gallery







Photograph 1: West facing view of the site.

Photograph 2: East facing view of the site.





Photograph 3: Test pit TP1 - Example of material encountered.

Photograph 4: Test pit TP5 - Example of material encountered.





Photograph 5: Remediation area - Following removal.

Photograph 6: Remediation area - Following removal.



Asbestos Clearance & Soil Contamination Assessment

NSW Land and Housing Corporation

50 Wellington Road, Chester Hill NSW

Appendix B: Laboratory Transcripts



Greencap NSW P/L Level 2/11 Khartoum Road North Ryde NSW 2113





NATA Accredited Accreditation Number 1261 Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: Justin Onyelusi

Report 694761-S

Project name 50 WELLINGTON RD

Project ID J160879-01
Received Date Dec 19, 2019

Client Sample ID			TD4(0.4.0.0)	TD0(0.0.0.1)	TD0(0.0.0.0)	TD4/0.04.0.4)
Sample Matrix			TP1(0.1-0.2) Soil	TP2(0.0-0.1) Soil	TP3(0.2-0.3) Soil	TP4(0.01-0.1) Soil
•			1			
Eurofins Sample No.			S19-De28680	S19-De28681	S19-De28682	S19-De28683
Date Sampled			Dec 18, 2019	Dec 18, 2019	Dec 18, 2019	Dec 18, 2019
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM	Fractions					
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	98	< 50	< 50	65
TRH C10-C36 (Total)	50	mg/kg	98	< 50	< 50	65
BTEX		_				
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	145	142	79	94
Total Recoverable Hydrocarbons - 2013 NEPM	Fractions					
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)N04	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	120	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	120	< 100	< 100	< 100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluorantheneN07	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5



Client Sample ID			TP1(0.1-0.2)	TP2(0.0-0.1)	TP3(0.2-0.3)	TP4(0.01-0.1)
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S19-De28680	S19-De28681	S19-De28682	S19-De28683
Date Sampled			Dec 18, 2019	Dec 18, 2019	Dec 18, 2019	Dec 18, 2019
Test/Reference	LOR	Unit	Í	,	,	
Polycyclic Aromatic Hydrocarbons		0				
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	78	81	78	77
p-Terphenyl-d14 (surr.)	1	%	90	84	98	106
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	0.1	< 0.1	0.8
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-BHC	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-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-BHC	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-BHC (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	0.14
Heptachlor epoxide	0.05	mg/kg	< 0.05	0.06	< 0.05	0.56
Hexachlorobenzene Mathagyahlar	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor Toxaphene	0.2	mg/kg	< 0.2 < 1	< 0.2 < 1	< 0.2 < 1	< 0.2 < 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg 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)*	0.03	mg/kg	< 0.03	< 0.03	< 0.03	1.5
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2	< 0.2	< 0.2	1.5
Dibutylchlorendate (surr.)	1	// // // // // // // // // // // // //	80	92	94	104
Tetrachloro-m-xylene (surr.)	1	%	81	73	80	88
Heavy Metals		,,,	<u> </u>			
Arsenic	2	mg/kg	11	9.9	7.8	15
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	1.2
Chromium	5	mg/kg	24	19	20	24
Copper	5	mg/kg	28	28	24	59
Lead	5	mg/kg	43	28	56	100
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	22	19	12	19
Zinc	5	mg/kg	74	130	130	340
% Moisture	1	%	9.8	14	9.0	7.2



Client Sample ID			TP5(0.1-0.2)	FD1(18/12)
Sample Matrix			Soil	Soil
Eurofins Sample No.			S19-De28684	S19-De28685
Date Sampled			Dec 18, 2019	Dec 18, 2019
Test/Reference	LOR	Unit		
Total Recoverable Hydrocarbons - 1999 NEPM	Fractions	-		
TRH C6-C9	20	mg/kg	< 20	_
TRH C10-C14	20	mg/kg	< 20	_
TRH C15-C28	50	mg/kg	< 50	_
TRH C29-C36	50	mg/kg	84	-
TRH C10-C36 (Total)	50	mg/kg	84	-
BTEX	<u>'</u>	1 0 0		
Benzene	0.1	mg/kg	< 0.1	_
Toluene	0.1	mg/kg	< 0.1	-
Ethylbenzene	0.1	mg/kg	< 0.1	_
m&p-Xylenes	0.2	mg/kg	< 0.2	_
o-Xylene	0.1	mg/kg	< 0.1	_
Xylenes - Total	0.3	mg/kg	< 0.3	_
4-Bromofluorobenzene (surr.)	1	%	78	_
Total Recoverable Hydrocarbons - 2013 NEPM				
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	-
TRH C6-C10	20	mg/kg	< 20	_
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	_
TRH >C10-C16	50	mg/kg	< 50	-
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	_
TRH >C16-C34	100	mg/kg	< 100	_
TRH >C34-C40	100	mg/kg	< 100	_
TRH >C10-C40 (total)*	100	mg/kg	< 100	_
Polycyclic Aromatic Hydrocarbons	1 100	i iiig/ikg	100	
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	_
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	1.2	-
Acenaphthene	0.5	mg/kg	< 0.5	_
Acenaphthylene	0.5	mg/kg	< 0.5	
Anthracene	0.5	mg/kg	< 0.5	_
Benz(a)anthracene	0.5	mg/kg	< 0.5	
Benzo(a)pyrene	0.5	mg/kg	< 0.5	_
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	
Chrysene	0.5	mg/kg	< 0.5	-
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-
Fluoranthene	0.5	mg/kg	< 0.5	-
Fluorene	0.5	mg/kg	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-
Naphthalene	0.5	mg/kg	< 0.5	-
•				-
Pyrana Pyrana	0.5	mg/kg	< 0.5	-
Pyrene Total PAH*	0.5	mg/kg	< 0.5	-
	0.5	mg/kg %	< 0.5	-
2-Fluorobiphenyl (surr.) p-Terphenyl-d14 (surr.)	1	%	76 87	-



Client Sample ID			TP5(0.1-0.2)	FD1(18/12)
Sample Matrix			Soil	Soil
Eurofins Sample No.			S19-De28684	S19-De28685
Date Sampled			Dec 18, 2019	Dec 18, 2019
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-BHC	0.05	mg/kg	< 0.05	_
Aldrin	0.05	mg/kg	< 0.05	_
b-BHC	0.05	mg/kg	< 0.05	_
d-BHC	0.05	mg/kg	< 0.05	-
Dieldrin	0.05	mg/kg	< 0.05	_
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-BHC (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	0.2	mg/kg	< 0.2	-
Toxaphene	1	mg/kg	< 1	-
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	< 0.2	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2	-
Dibutylchlorendate (surr.)	1	%	82	-
Tetrachloro-m-xylene (surr.)	1	%	79	-
Heavy Metals	•	•		
Arsenic	2	mg/kg	10	16
Cadmium	0.4	mg/kg	1.2	< 0.4
Chromium	5	mg/kg	29	25
Copper	5	mg/kg	71	53
Lead	5	mg/kg	200	41
Mercury	0.1	mg/kg	< 0.1	< 0.1
Nickel	5	mg/kg	18	28
Zinc	5	mg/kg	500	190
	1	%	6.0	13



Sample History

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

A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

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	Testing Site	Extracted	Holding Time
Eurofins mgt Suite B9			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Dec 20, 2019	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Dec 20, 2019	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Dec 20, 2019	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Dec 20, 2019	
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons	Sydney	Dec 20, 2019	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Organochlorine Pesticides	Sydney	Dec 20, 2019	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Metals M8	Sydney	Dec 20, 2019	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
% Moisture	Sydney	Dec 19, 2019	14 Days

⁻ Method: LTM-GEN-7080 Moisture



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> Moist Eurofi

Metals

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Perth 2/91 Leach Highway Kewdale WA 6105 Phone: +61 8 9251 9600 NATA # 1261 Site # 23736

Auckland Christchurch 35 O'Rorke Road 43 Detroit Drive Rolleston, Christchurch 7675 Penrose, Auckland 1061 Phone: +64 9 526 45 51 Phone: 0800 856 450 IANZ # 1327 IANZ # 1290

Company Name:

ABN - 50 005 085 521

Address:

Greencap NSW P/L

Level 2/11 Khartoum Road

North Rvde

NSW 2113

Project Name:

50 WELLINGTON RD

Project ID:

J160879-01

Order No.: PO270053 Report #: 694761

Phone: 02 9889 1800

02 9889 1811 Fax:

Received: Dec 19, 2019 3:49 PM Due: Dec 30, 2019

Priority: 5 Day

Justin Onyelusi **Contact Name:**

Eurofins Analytical Services Manager: Ursula Long

New Zealand

		Sa	mple Detail			s M8	ure Set	ins mgt Suite B9
Melb	ourne Laborato							
Sydr	ney Laboratory	- NATA Site # 1	8217			Х	Х	Х
Brist	oane Laborator	y - NATA Site#	20794					
Perti	n Laboratory - N	NATA Site # 237	36					
Exte	rnal Laboratory	<u>, </u>						
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID			
1	TP1(0.1-0.2)	Dec 18, 2019		Soil	S19-De28680		Х	Х
2	TP2(0.0-0.1)	Dec 18, 2019		Soil	S19-De28681		Х	Х
3	TP3(0.2-0.3)	Dec 18, 2019		Soil	S19-De28682		Х	Х
4	TP4(0.01-0.1)	Dec 18, 2019		Soil	S19-De28683		Х	Х
5	TP5(0.1-0.2)	Dec 18, 2019		Soil	S19-De28684		Х	Х
6	FD1(18/12)	Dec 18, 2019		Soil	S19-De28685	Х	Х	
Test	Counts					1	6	5



Internal Quality Control Review and Glossary

General

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

Holding Times

Please refer to '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 prior to sample receipt deadlines as stated on the SRA.

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

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

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

**NOTE: pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram mg/L: milligrams per litre ug/L: micrograms per litre

org/100mL: Organisms per 100 millilitres NTU: Nephelometric Turbidity Units MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry Where a moisture has been determined on a solid sample the result is expressed on a dry basis.

LOR Limit of Reporting

SPIKE Addition of the analyte to the sample and reported as percentage recovery.

RPD Relative Percent Difference between two Duplicate pieces of analysis.

LCS Laboratory Control Sample - reported as percent recovery.

CRM Certified Reference Material - 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.

Surr - Surrogate The addition of a like compound to the analyte target and reported as percentage recovery.

Duplicate A second piece of analysis from the same sample and reported in the same units as the result to show comparison.

USEPA United States Environmental Protection Agency

APHA American Public Health Association
TCLP Toxicity Characteristic Leaching Procedure

COC Chain of Custody
SRA Sample Receipt Advice

QSM US Department of Defense Quality Systems Manual Version 5.3

CP Client Parent - QC was performed on samples pertaining to this report

NCP Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.

TEQ Toxic Equivalency Quotient

QC - Acceptance Criteria

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%

Surrogate Recoveries: Recoveries must lie between 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

- 1. Where a result is reported as a 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 is not data from your samples.
- 3. Organochlorine Pesticide analysis where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
- 4. Organochlorine Pesticide analysis where reporting Spike data, Toxaphene is not added to the Spike.
- 5. Total Recoverable Hydrocarbons where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
- 6. 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.
- 7. Recovery Data (Spikes & Surrogates) where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
- 8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
- 9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
- 10. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.



Quality Control Results

Units	Result 1	Acceptance Limits	Pass Limits	Qualifying Code
mg/kg	< 20	20	Pass	
mg/kg	< 20	20	Pass	
mg/kg	< 50	50	Pass	
mg/kg	< 50	50	Pass	
mg/kg	< 0.1	0.1	Pass	
mg/kg	< 0.1	0.1	Pass	
mg/kg	< 0.1	0.1	Pass	
mg/kg	< 0.2	0.2	Pass	
	< 0.1	0.1	Pass	
	< 0.3	0.3	Pass	
1 3 3			•	
ma/ka	< 0.5	0.5	Pass	
	1			
	1			
199	1.00			
ma/ka	< 0.5	0.5	Pass	
	1			
	1			
	1			
	1			
	1			
	1			
	1			
	1			
	1			
	1			
	t		_	
	1			
	1			
IIIg/kg	Z 0.5	0.5	Fass	
ma/ka	< 0.1	0.1	Page	
mg/kg	< 0.05	0.05	Pass	
	mg/kg	mg/kg < 20	mg/kg	mg/kg < 20 20 Pass mg/kg < 20



Test	Units	Result 1	Acceptance Limits	Pass Limits	Qualifying Code
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-BHC (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	< 0.2	0.2	Pass	
Toxaphene	mg/kg	< 1	1	Pass	
Method Blank					
Heavy Metals					
Arsenic	mg/kg	< 2	2	Pass	
Cadmium	mg/kg	< 0.4	0.4	Pass	
Chromium	mg/kg	< 5	5	Pass	
Copper	mg/kg	< 5	5	Pass	
Lead	mg/kg	< 5	5	Pass	
Mercury	mg/kg	< 0.1	0.1	Pass	
Nickel	mg/kg	< 5	5	Pass	
Zinc	mg/kg	< 5	5	Pass	
LCS - % Recovery	IIIg/kg		J J	1 033	
Total Recoverable Hydrocarbons - 1999 NEPM Fractions		T T			
TRH C6-C9	%	126	70-130	Pass	
	%				
TRH C10-C14	70	92	70-130	Pass	
LCS - % Recovery				I	
BTEX	1 0/	407	70.400	D	-
Benzene	%	127	70-130	Pass	
Toluene	%	124	70-130	Pass	
Ethylbenzene	%	129	70-130	Pass	
m&p-Xylenes	%	123	70-130	Pass	
o-Xylene	%	122	70-130	Pass	
Xylenes - Total	%	123	70-130	Pass	
LCS - % Recovery		T T		ı	
Total Recoverable Hydrocarbons - 2013 NEPM Fractions					
Naphthalene	%	129	70-130	Pass	-
TRH C6-C10	%	124	70-130	Pass	
TRH >C10-C16	%	90	70-130	Pass	
LCS - % Recovery		1		ı	
Polycyclic Aromatic Hydrocarbons					
Acenaphthene	%	98	70-130	Pass	
Acenaphthylene	%	94	70-130	Pass	
Anthracene	%	105	70-130	Pass	
Benz(a)anthracene	%	99	70-130	Pass	
Benzo(a)pyrene	%	109	70-130	Pass	
Benzo(b&j)fluoranthene	%	105	70-130	Pass	
Benzo(g.h.i)perylene	%	74	70-130	Pass	
Benzo(k)fluoranthene	%	117	70-130	Pass	
Chrysene	%	92	70-130	Pass	
Dibenz(a.h)anthracene	%	70	70-130	Pass	
Fluoranthene	%	90	70-130	Pass	
Fluorene	%	96	70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	71	70-130	Pass	
		1 1	<u> </u>	1	T
Naphthalene	%	92	70-130	Pass	



Test			Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Pyrene			%	99		70-130	Pass	
LCS - % Recovery								
Organochlorine Pesticides								
Chlordanes - Total			%	96		70-130	Pass	
4.4'-DDD			%	91		70-130	Pass	
4.4'-DDE			%	98		70-130	Pass	
4.4'-DDT			%	97		70-130	Pass	
a-BHC			%	101		70-130	Pass	
Aldrin			%	97		70-130	Pass	
b-BHC			%	92		70-130	Pass	
d-BHC			%	99		70-130	Pass	
Dieldrin			%	102		70-130	Pass	
Endosulfan I			%	96		70-130	Pass	
Endosulfan II			%	85		70-130	Pass	
Endosulfan sulphate			%	80		70-130	Pass	
Endrin			%	75		70-130	Pass	
Endrin aldehyde			%	90		70-130	Pass	
Endrin ketone			%	104		70-130	Pass	
g-BHC (Lindane)			%	104		70-130	Pass	
Heptachlor			%	104		70-130	Pass	
•								
Heptachlor epoxide			%	96		70-130	Pass	
Hexachlorobenzene			%	96		70-130	Pass	
Methoxychlor			%	76		70-130	Pass	
LCS - % Recovery				1	T T			
Heavy Metals								
Arsenic			%	107		70-130	Pass	
Cadmium			%	108		70-130	Pass	
Chromium			%	104		70-130	Pass	
Copper			%	102		70-130	Pass	
Lead			%	102		70-130	Pass	
Mercury			%	91		70-130	Pass	
Nickel			%	102		70-130	Pass	
Zinc			%	106		70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery					T T			
Total Recoverable Hydrocarbons -	1999 NEPM Fract			Result 1				
TRH C10-C14	S19-De28173	NCP	%	88		70-130	Pass	
Spike - % Recovery				_	1			
Total Recoverable Hydrocarbons -	2013 NEPM Fract	ions		Result 1				
TRH >C10-C16	S19-De28173	NCP	%	87		70-130	Pass	
Spike - % Recovery								
Polycyclic Aromatic Hydrocarbons	5			Result 1				
Acenaphthene	S19-De28173	NCP	%	106		70-130	Pass	
Acenaphthylene	S19-De28173	NCP	%	101		70-130	Pass	
Anthracene	S19-De28173	NCP	%	101		70-130	Pass	
Benz(a)anthracene	S19-De28173	NCP	%	113		70-130	Pass	
Benzo(a)pyrene	S19-De28173	NCP	%	109		70-130	Pass	
Benzo(b&j)fluoranthene	S19-De28173	NCP	%	108		70-130	Pass	
Benzo(g.h.i)perylene	S19-De28173	NCP	%	93		70-130	Pass	
Benzo(k)fluoranthene	S19-De28173	NCP	%	101		70-130	Pass	
Chrysene	S19-De28173	NCP	%	99		70-130	Pass	
Dibenz(a.h)anthracene	S19-De28173	NCP	%	91		70-130	Pass	
Fluoranthene	S19-De28173	NCP	%	102		70-130	Pass	
Fluorene	S19-De28173	NCP	%	98		70-130	Pass	1



Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Indeno(1.2.3-cd)pyrene	S19-De28173	NCP	%	111			70-130	Pass	
Naphthalene	S19-De28173	NCP	%	101			70-130	Pass	
Phenanthrene	S19-De28173	NCP	%	100			70-130	Pass	
Pyrene	S19-De28173	NCP	%	112			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S19-De28173	NCP	%	101			70-130	Pass	
4.4'-DDD	S19-De28173	NCP	%	116			70-130	Pass	
4.4'-DDE	S19-De28173	NCP	%	95			70-130	Pass	
4.4'-DDT	S19-De28173	NCP	%	81			70-130	Pass	
a-BHC	S19-De28173	NCP	%	91			70-130	Pass	
Aldrin	S19-De28173	NCP	%	99			70-130	Pass	
b-BHC	S19-De28173	NCP	%	89			70-130	Pass	
d-BHC	S19-De28173	NCP	%	100			70-130	Pass	
Dieldrin	S19-De28173	NCP	%	105			70-130	Pass	
Endosulfan I	S19-De28173	NCP	%	87			70-130	Pass	
Endosulfan II	S19-De28173	NCP	%	98			70-130	Pass	
Endosulfan sulphate	S19-De28173	NCP	%	92			70-130	Pass	
Endrin	S19-De28173	NCP	%	88			70-130	Pass	
Endrin aldehyde	S19-De28173	NCP	%	86			70-130	Pass	
Endrin ketone	S19-De28173	NCP	%	124			70-130	Pass	
g-BHC (Lindane)	S19-De28173	NCP	%	93			70-130	Pass	
Heptachlor	S19-De28173	NCP	%	95			70-130	Pass	
Heptachlor epoxide	S19-De28173	NCP	%	91			70-130	Pass	
Hexachlorobenzene	S19-De28173	NCP	%	90			70-130	Pass	
Methoxychlor	S19-De23211	NCP	// 0	84			70-130	Pass	
Spike - % Recovery	010 0020211	1401	70	<u> </u>			70 100	1 400	
Heavy Metals				Result 1					
Arsenic	S19-De28635	NCP	%	123			70-130	Pass	
Cadmium	S19-De28635	NCP	//	122			70-130	Pass	
Chromium	S19-De28635	NCP	// //////////////////////////////////	127			70-130	Pass	
Copper	S19-De28635	NCP	// %	121			70-130	Pass	
Lead	S19-De28635	NCP	%	118			70-130	Pass	
Mercury	S19-De28635	NCP	%	121			70-130	Pass	
Nickel	S19-De28635	NCP	%	121			70-130	Pass	
Zinc	S19-De28635	NCP	// //////////////////////////////////	124			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Total Recoverable Hydrocarbon	s - 1999 NEPM Fract	ions		Result 1	Result 2	RPD			
TRH C6-C9	S19-De29238	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S19-De28170	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S19-De28170	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S19-De28170	NCP	mg/kg	79	58	30	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S19-De29238	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S19-De29238	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S19-De29238	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S19-De29238	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
· ,		1		1					<u> </u>
o-Xylene	S19-De29238	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	



Duplicate									
Total Recoverable Hydrocarbons ·	2013 NEPM Fract	ions		Result 1	Result 2	RPD			
Naphthalene	S19-De29238	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S19-De29238	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S19-De28170	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S19-De28170	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S19-De28170	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate			<u> </u>						
Polycyclic Aromatic Hydrocarbon	S .			Result 1	Result 2	RPD			
Acenaphthene	S19-De28680	СР	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S19-De28680	СР	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S19-De28680	СР	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S19-De28680	СР	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S19-De28680	СР	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S19-De28680	СР	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S19-De28680	СР	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S19-De28680	СР	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S19-De28680	СР	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S19-De28680	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S19-De28680	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S19-De28680	СР	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S19-De28680	СР	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S19-De28680	СР	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S19-De28680	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S19-De28680	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate	•	<u> </u>		<u> </u>	_		•		
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S19-De28680	СР	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S19-De28680	СР	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S19-De28680	СР	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S19-De28680	СР	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	S19-De28680	СР	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S19-De28680	СР	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	S19-De28680	СР	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-BHC	S19-De28680	СР	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S19-De28680	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S19-De28680	СР	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S19-De28680	СР	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S19-De28680	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S19-De28680	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S19-De28680	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S19-De28680	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	S19-De28680	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S19-De28680	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S19-De28680	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S19-De28680	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S19-De28680	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S19-De28483	NCP	mg/kg	13	9.0	36	30%	Fail	Q15
Cadmium	S19-De28483	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S19-De28483	NCP	mg/kg	22	17	22	30%	Pass	
Copper	S19-De28483	NCP	mg/kg	34	28	20	30%	Pass	
Lead	S19-De28483	NCP	mg/kg	20	17	17	30%	Pass	
Mercury	S19-De28483	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S19-De28483	NCP	mg/kg	9.7	8.1	17	30%	Pass	
Zinc	S19-De28483	NCP	mg/kg	59	45	28	30%	Pass	



Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S19-De28634	NCP	%	18	18	3.0	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

F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).

N01

Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.

F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes. N04

Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs N07

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

N02

Ursula Long Analytical Services Manager Andrew Sullivan Senior Analyst-Organic (NSW) Gabriele Cordero Senior Analyst-Metal (NSW)

Glenn Jackson

General Manager

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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CHAIN	OF	CUSTODY	RECORD
 OTH WITE		0001001	

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2 Kingston Town Close, Oakleigh, VIC 3186

03 8564 5000 EnviroSampleVic@eurofins.com

Company	Greencap			Proj	ect №	51	60	879	1-0	1		Project I	Manager	Jus	Lin	0,	42	lisi		Sam	pler(s)	J	lan	nes	6-	eh	
Address	Level 2/11 Rocd, No.	the !	byde	Projec	t Name			lling				EDD F (ESdat, Cust	EQuIS,	Sp	ide	- (ell			Handet	l over b	y p				v	
	NSW 2113	3		tween') SUITE																		20	me	5.9	cenago	eencopic	on,
Contact Name	James			Total or F																Email fo						nd Time (TAT)	
Phone №	0437 64	6 3	86	lyses ease specify o attract SUI										, E							- Co	ntainer			Requirements	(Default will be 5 days if n icked)	ot
Special Direction	N/A			Ana are requested of																	1	0	tle (He	Cudelines)	□1 Day*	□2 Day*	
Purchase Orde	P027005	3		Mere netals								*								Plastic L Plastic	125mL Plastic	40mL VOA vial	500mL PFAS Bottle	S4964, WA	□ _{3 Day*}	5 Day Surcharges app	ply
Quate ID No			mpled	(Nate 1																1L1 Z50m	125m	40mL	500ml F	spestos A.	Other ()
N2	Client Sample ID	Dat (dd	te/Time	Matrix (Solid (S) Water (W))	89	MB																		Other (As		ents / Dangerou zard Warning	5
1 TP	1(0.1-0.2)	18/	12/19	5	1																						
2 TP	2(0.0-0.1)		1	1	1																						
3 TP.	3 (0.2-0.3)						ā.								. 0.19												
The state of the s	4(0.01-0.1))																									
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10			A STATE																							E BALLEY	
			Total C	ounts	5	1											10 Jest 1										
Method of Shipment	Courier (#) 🗆	Hand Deliver		□ P	ostal	Na	ame					Sign	ature						Date	-			Time	:	
Eurofins	mgt Received By	ave I	meri	ell	SYD	DENE ME	EL PER	ADL NTL	. DRW	Sign	nature	M	and	un		D	ate	11/	1410	1	Time		3.	19	Temperature	19.8	THE REAL PROPERTY.
Laboratory Us	e Only Received By	3 9 3			SYD BNE MEL PER ADL NTL DRW				Sign	nature	11				D	ate	1	1	1	Time				Report No	Cause		



Greencap Pty Ltd ABN: 76 006 318 010 Level 2 / 11 Khartoum Road North Ryde NSW 2113 Australia T: 02 9889 1800

Report Date: Monday, 13/01/2020 Our ref: C107603:J160879-01

Gerald Alexander
NSW Land and Housing Corporation
Level 2, 31-99 Macquarie Street
PARRAMATTA NSW 2150

Dear Gerald,

Re: Asbestos Identification Analysis - 50 Wellington Road, Chester Hill NSW 2162

This letter presents the results of asbestos fibre identification analysis performed on 5 soil samples collected by James Green of Greencap on Wednesday, 18 December 2019. The samples were collected from 50 Wellington Road, Chester Hill NSW 2162.

All sample analysis was performed using polarised light microscopy, including dispersion staining in our Sydney Laboratory by the method of Australian Standard AS4964-2004 and supplementary work instruction in house method LAB04 Asbestos Identification by PLM. Any and all services carried out by Greencap for the Client are subject to the Terms and Conditions listed on the Greencap website at https://www.greencap.com.au/terms-conditions and are governed by our statements of limitation available at https://www.greencap.com.au/statements-limitation.

The analysis was completed on Monday, 13 January 2020.

The samples will be kept for three months and then disposed of, unless otherwise directed.

The results of the asbestos identification analysis are presented in the appended table. Accreditation covers testing activities only, sampling activity is outside the scope of ISO 17025 accreditation. Results relate only to the items tested and are for the sole use by the client.

Should you require further information please contact our project manager Justin Onyelusi.

Yours sincerely,

Greencap

Amanda Chui: Approved Identifier

WORLD RECOGNISED ACCREDITATION

This document shall not be reproduced except in full.

Accredited for compliance with ISO/IEC 17025 - Testing.

Accreditation No. 5450, Site No. 3402 Sydney Laboratory.

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/National standards.

Amanda Chui: Approved Signatory



Sydney Laboratory Sample Analysis Results



Report Date: Monday, 13/01/2020 Our ref: C107603:J160879-01

Sit	te Location:	50 Wellington Road, Chester Hill NSW 2162									
	Sample ID	Sample Location/Description/Weight or Size	Analysis Result								
1	J160879-01 - 001	TP1 (0.1-0.2) Brown non-homogenous fine-grained soil & rocks, including fibre cement fragments of approximately 0.9g (>7mm fraction), 0.02g (<7mm & >2mm fraction) and 0.0008g (<2mm fraction). This is estimated to be above the reporting limit of 0.1g/kg (0.03% w/w*) ~ 970.4g	Chrysotile (white asbestos) Amosite (brown asbestos) Organic Fibres NOTE 1 & 2								
2	J160879-01 - 002	TP2 (0.0-0.1) Brown non-homogenous fine-grained soil & rocks, including fibre cement fragments with white asbestos of approximately 0.03g (<7mm & >2mm fraction). This is estimated to be below the reporting limit of 0.1g/kg ~997g	No Asbestos Detected At or Above Reporting Limit Organic Fibres NOTE 1 & 2								
3	J160879-01 - 003	TP3 (0.2-0.3) Brown non-homogenous fine-grained soil & rocks ~ 872g	No Asbestos Detected At or Above Reporting Limit Organic Fibres NOTE 1 & 2								
4	J160879-01 - 004	TP4 (0.01-0.1) Brown non-homogenous fine-grained soil & rocks, including fibre cement fragments with white asbestos of approximately 0.04g (<7mm & >2mm fraction) and 0.0009g (<2mm fraction). This is estimated to be below the reporting limit of 0.1g/kg ~831.7g	No Asbestos Detected At or Above Reporting Limit Organic Fibres NOTE 1 & 2								
5	J160879-01 - 005	TP5 (0.1-0.2) Brown non-homogenous fine-grained soil & rocks ~ 884.8g	No Asbestos Detected At or Above Reporting Limit Organic Fibres NOTE 1 & 2								

^{*} Shaded row with bolded text indicates sample contains a positive Analysis Result for asbestos.

If Synthetic Mineral Fibre and Organic Fibre are not stated in Analysis Results, it implies not detected.

- NOTE 1 The reporting limit for this analysis is 0.1g/kg (0.01%) by application of polarised light microscopy, dispersion staining and trace analysis techniques. The above result can be interpreted that the sample contains no detectable 'respirable' asbestos fibres (AS4964-2004 Clause 9.5).
- NOTE 2 Soil analysis conducted in accordance with WA Guidelines for the assessment, remediation and management of asbestos-contaminated sites (May 2009), Recommended procedures for laboratory analysis of asbestos in soil (June 2011) and NEPM Schedule B1: Guideline on investigation levels for soil & groundwater, Schedule B2: Guideline on site characterisation.

Results denoted with * is outside our scope of accreditation



Greencap Pty Ltd ABN: 76 006 318 010 Level 2 / 11 Khartoum Road North Ryde NSW 2113 Australia T: 02 9889 1800

Report Date: Friday, 17/01/2020 Our ref: C107603:J160879-01

Gerald Alexander **NSW Land and Housing Corporation** Level 2, 31-99 Macquarie Street **PARRAMATTA NSW 2150**

Dear Gerald,

Re: Asbestos Identification Analysis - 50 Wellington Road, Chester Hill NSW 2162

This letter presents the results of asbestos fibre identification analysis performed on 1 soil sample collected by James Green of Greencap on Thursday, 16 January 2020. The samples were collected from 50 Wellington Road, Chester Hill NSW 2162.

All sample analysis was performed using polarised light microscopy, including dispersion staining in our Sydney Laboratory by the method of Australian Standard AS4964-2004 and supplementary work instruction in house method LAB04 Asbestos Identification by PLM. Any and all services carried out by Greencap for the Client are subject to the Terms and Conditions listed on the Greencap website at https://www.greencap.com.au/terms-conditions and are governed by our statements of limitation available at https://www.greencap.com.au/statements-limitation.

The analysis was completed on Friday, 17 January 2020.

The sample will be kept for three months and then disposed of, unless otherwise directed.

The results of the asbestos identification analysis are presented in the appended table. Accreditation covers testing activities only, sampling activity is outside the scope of ISO 17025 accreditation. Results relate only to the items tested and are for the sole use by the client.

Should you require further information please contact our project manager Justin Onyelusi.

Yours sincerely,

Greencap

Amanda Chui: Approved Identifier

WORLD RECOGNISED ACCREDITATION

This document shall not be reproduced except in full. Accredited for compliance with ISO/IEC 17025 - Testing. Accreditation No. 5450, Site No. 3402 Sydney Laboratory. The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/National standards.

Amanda Chui: Approved Signatory



Sydney Laboratory Sample Analysis Results



Report Date: Friday, 17/01/2020 Our ref: C107603:J160879-01

Sit	te Location:	50 Wellington Road, Chester Hill NSW 2162	
	Sample ID	Sample Location/Description/Weight or Size	Analysis Result
	J160879-01	Val-1	No Asbestos Detected At or Above Reporting Limit
1	- 001	Brown non-homogenous fine-grained soil & rocks	Organic Fibres
		~ 547.1g	NOTE 1 & 2

- NOTE 1 The reporting limit for this analysis is 0.1g/kg (0.01%) by application of polarised light microscopy, dispersion staining and trace analysis techniques. The above result can be interpreted that the sample contains no detectable 'respirable' asbestos fibres (AS4964-2004 Clause 9.5).
- NOTE 2 Soil analysis conducted in accordance with WA Guidelines for the assessment, remediation and management of asbestos-contaminated sites (May 2009), Recommended procedures for laboratory analysis of asbestos in soil (June 2011) and NEPM Schedule B1: Guideline on investigation levels for soil & groundwater, Schedule B2: Guideline on site characterisation.



Asbestos Clearance & Soil Contamination Assessment

NSW Land and Housing Corporation

50 Wellington Road, Chester Hill NSW

Appendix C: Results Summary Tables



					Field ID	FD1(18/12)	TP1(0.1-0.2)	TP2(0.0-0.1)		TP4(0.01-0.1)	TP5(0.1-0.2
					Lab Report Number	694761	694761	694761	694761	694761	694761
					Sample Date	18/12/2019	18/12/2019	18/12/2019	18/12/2019	18/12/2019	18/12/201
				Human Health Investigation Level (HIL A)	ESL/EILs - Areas of Ecological Significance						
	Chemical Name	Unit	EQL								
_	Arsenic	mg/kg	2	100	40	16	11	9.9	7.8	15	10
_	Cadmium Chromium (III+VI)	mg/kg	0.4	20		<0.4 25	<0.4 24	<0.4 19	<0.4 20	1.2 24	1.2 29
_	Copper Copper	mg/kg mg/kg	5	6000		53	28	28	24	59	71
	Lead	mg/kg	5	300	470	41	43	28	56	100	200
_	Mercury	mg/kg	0.1	40		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
_	Nickel	mg/kg	5	400		28	22	19	12	19	18
Z	Zinc	mg/kg	5	7400		190	74	130	130	340	500
	Moisture Content (dried @ 103°C)	%	1			13	9.8	14	9	7.2	6
_	4,4-DDE	mg/kg	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
_	Aldrin	mg/kg	0.05			-	<0.05	<0.05	<0.05	<0.05	<0.05
_	Aldrin + Dieldrin	mg/kg	0.05	6		-	<0.05	<0.05	<0.05	<0.05	<0.05
-	b-BHC	mg/kg	0.05	F0		-	<0.05	<0.05	<0.05	<0.05	<0.05
_	chlordane d-BHC	mg/kg mg/kg	0.1	50		-	<0.1 <0.05	0.1 <0.05	<0.1 <0.05	0.8 <0.05	<0.1 <0.05
_	DDD	mg/kg	0.05			-	<0.05	<0.05	<0.05	<0.05	<0.05
_	DDT	mg/kg	0.05		3	-	<0.05	<0.05	<0.05	<0.05	<0.05
-	DDT+DDE+DDD	mg/kg	0.05	240		-	<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
_	Endosulfan I	mg/kg	0.05	270			<0.05	<0.05	<0.05	<0.05	<0.05
	Endosulfan II	mg/kg	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
_	Endrin	mg/kg	0.05	10		-	<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
_	Endrin ketone	mg/kg	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
_	Heptachlor	mg/kg	0.05	6		-	<0.05	<0.05	<0.05	0.14	<0.05
_	Heptachlor epoxide Hexachlorobenzene	mg/kg mg/kg	0.05	10		-	<0.05 <0.05	0.06 <0.05	<0.05 <0.05	0.56 <0.05	<0.05 <0.05
-	Methoxychlor	mg/kg	0.03	300		-	<0.03	<0.03	<0.2	<0.03	<0.03
	Organochlorine pesticides	mg/kg	0.2	300		_	<0.2	<0.2	<0.2	1.5	<0.2
	Other organochlorine pesticides	mg/kg	0.1			-	<0.2	<0.2	<0.2	1.5	<0.2
	Toxaphene	mg/kg	1	20		-	<1	<1	<1	<1	<1
· E	Benz(a)anthracene	mg/kg	0.5			-	<0.5	<0.5	<0.5	<0.5	<0.5
_	Benzo(a) pyrene	mg/kg	0.5		0.7	-	<0.5	<0.5	<0.5	<0.5	<0.5
_	Benzo(a)pyrene TEQ (lower bound) *	mg/kg	0.5	3		-	<0.5	<0.5	<0.5	<0.5	<0.5
_	Benzo(a)pyrene TEQ (medium bound) *	mg/kg	0.5	3		-	0.6	0.6	0.6	0.6	0.6
	Benzo(a)pyrene TEQ (upper bound) *	mg/kg	0.5	3		-	1.2	1.2	1.2	1.2	1.2
_	Benzo(g,h,i)perylene	mg/kg	0.5			-	<0.5	<0.5 <0.5	<0.5 <0.5	<0.5	<0.5
_	Benzo(k)fluoranthene Benzo[b+j]fluoranthene	mg/kg mg/kg	0.5			-	<0.5 <0.5	<0.5	<0.5	<0.5 <0.5	<0.5 <0.5
	Chrysene	mg/kg				-	<0.5	<0.5	<0.5	<0.5	<0.5
_	Dibenz(a,h)anthracene	mg/kg	0.5			-	<0.5	<0.5	<0.5	<0.5	<0.5
	Indeno(1,2,3-c,d)pyrene	mg/kg	_			-	<0.5	<0.5	<0.5	<0.5	<0.5
	Acenaphthene	mg/kg	_			-	<0.5	<0.5	<0.5	<0.5	<0.5
_	Acenaphthylene	mg/kg	0.5				<0.5	<0.5	<0.5	<0.5	<0.5
	Anthracene	mg/kg	0.5			-	<0.5	<0.5	<0.5	<0.5	<0.5
_	Fluoranthene	mg/kg				-	<0.5	<0.5	<0.5	<0.5	<0.5
_	Fluorene	mg/kg				-	<0.5	<0.5	<0.5	<0.5	<0.5
_	Naphthalene PAH	mg/kg	0.5	200	10	-	<0.5	<0.5	<0.5	<0.5	<0.5
_	PAHs (Sum of total)	mg/kg	0.5	300		-	<0.5	<0.5	<0.5	<0.5	<0.5
_	Phenanthrene Pyrene	mg/kg mg/kg	0.5			-	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5
	C10 - C14	mg/kg	20			-	<20	<20	<20	<20	<20
_	C10 - C14 C10 - C36 (Sum of total)	mg/kg	50			-	98	<50 <50	<50 <50	65	84
	C10 - C40 (Sum of total)	mg/kg	100			-	120	<100	<100	<100	<100
_	C15 - C28	mg/kg	50			-	<50	<50	<50	<50	<50
	C29 - C36	mg/kg	50			-	98	<50	<50	65	84
	C6 - C9	mg/kg	20			-	<20	<20	<20	<20	<20
(C6-C10	mg/kg	20			-	<20	<20	<20	<20	<20
	C6-C10 less BTEX (F1)	mg/kg	20		125	-	<20	<20	<20	<20	<20
_	TRH >C10-C16	mg/kg				-	<50	<50	<50	<50	<50
	TRH >C10-C16 less Naphthalene (F2)	mg/kg	50		25	-	<50	<50	<50	<50	<50
_	TRH >C16-C34 (F3)	mg/kg				-	120	<100	<100	<100	<100
	TRH >C34-C40 (F4)	mg/kg	_			-	<100	<100	<100	<100	<100
_	Benzene	mg/kg			10	-	<0.1	<0.1	<0.1	<0.1	<0.1
_	Ethylbenzene	mg/kg			1.5	-	<0.1	<0.1	<0.1	<0.1	<0.1
	Toluene	mg/kg	0.1		10	-	<0.1	<0.1	<0.1	<0.1	<0.1
	Xylene (m & p)	mg/kg	0.2		10	-	<0.2	<0.2	< 0.2	<0.2	< 0.2



					Field ID	FD1(18/12)	TP1(0.1-0.2)	TP2(0.0-0.1)	TP3(0.2-0.3)	TP4(0.01-0.1)	TP5(0.1-0.2)
					Lab Report Number	694761	694761	694761	694761	694761	694761
					Sample Date	18/12/2019	18/12/2019	18/12/2019	18/12/2019	18/12/2019	18/12/2019
				Human Health Investigation Level (HIL A)	ESL/EILs - Areas of Ecological Significance						
Method Type	Chemical Name	Unit	EQL								
	Xylene Total	mg/kg	0.3			-	<0.3	<0.3	<0.3	<0.3	<0.3
VOCs	Naphthalene MAH	mg/kg	0.5		10	-	<0.5	<0.5	<0.5	<0.5	<0.5



Asbestos Clearance & Soil Contamination Assessment

NSW Land and Housing Corporation

50 Wellington Road, Chester Hill NSW

Appendix D: QA/QC Procedures

J160879-01 Field Duplicate RPD

Soil Assessment - 50 Wellington Rd



					FD1
Our Label			TP2(0.0-0.1)	FD1	
Laboratory Label			S19-De28681	S19-Oc31542	RPD
Sample Date			18/12/2019	21/10/2019	Primary vs Duplicate
Sample Type			PS	FD	Primary vs Duplicate
Analyte	Units	LOR	Result		
Heavy Metals					
Arsenic	mg/kg	2	11	9.9	11%
Cadmium	mg/kg	0.4	< 0.4	< 0.4	N/A
Chromium	mg/kg	5	24	19	23%
Copper	mg/kg	5	28	28	0%
Lead	mg/kg	5	43	28	42%
Mercury	mg/kg	0.1	< 0.1	< 0.1	N/A
Nickel	mg/kg	5	22	19	15%
Zinc	mg/kg	5	74	130	55%

^{-:} Not analysed

PS: Primary Sample

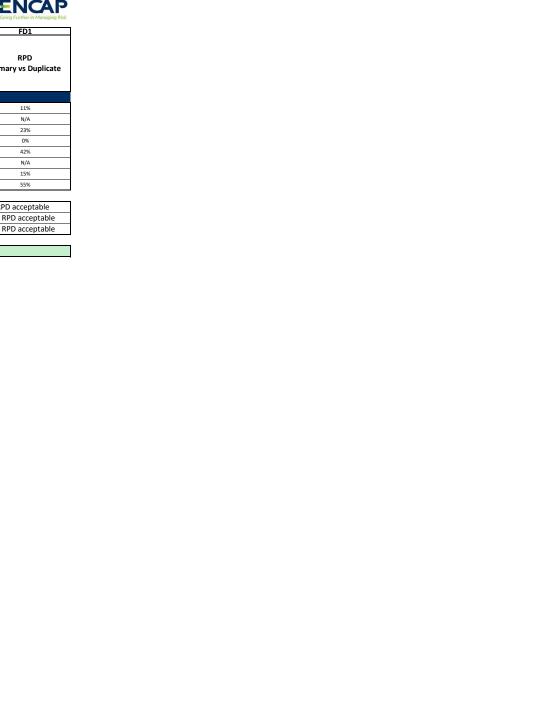
FD: Field Duplicate

IL: Inter-Laboratory Duplicate

N/A: Not Applicable (RPDs not calculated where one or more result < PQL)

	<5 x LOR	Any RPD acceptable					
Acceptable RPDs:	<10 x LOR	<50% RPD acceptable					
	>10 x LOR	<50% RPD acceptable					

Acceptable RPD limits reached





Asbestos Clearance & Soil Contamination Assessment

NSW Land and Housing Corporation

50 Wellington Road, Chester Hill NSW

Appendix E: Tipping Dockets



SUEZ Recycling & Recovery Pty Ltd

Elizabeth Drive Waste Management Centre 1725 Elizabeth Drive Kemps Creek NSW 2178

Phone: 1300 651 116 ABN: 70 002 902 650

Delivery Docket

Ticket No: ED450024275.0 Time In: 16/01/2020 9:37:05 AM Time Out: 16/01/2020 9:55:09 AM Vehicle Rego: BX57LZ
701623 - SYDNEY CITY CIVIL AUSTRALIA P/L Cust ref: K10
Contaminated Asbestos Soil - 8032
2.42t@ Source: External Dest: Elizabeth Drive General Waste GROSS 18.48t TARE 16.06t NET Weight: 2.42t
Chargeable Weight: 2.42t Each Item Weight: 0.00t
Total (ex GST): GST :
Total Price:
Payment Details
Temporary Acc:
Total Price:
Total Amount Tendered: Change Given:
Operator: WOJJW