

Schedule 2.2(a)(ii)

via email: Schedule 2.2(a)(ii)

Dear Ms [redacted],

## FREEDOM OF INFORMATION REQUEST

I refer to your application under section 30 of the *Freedom of Information Act 2016* (the Act), received by Major Projects Canberra (MPC) on 23 March 2021, in which you sought access to:

1. *Documents in possession of the ACT Government in relation to lead dust and/or other hazardous materials at the Old Bus Depot Markets from 1 December 2020 to 15 March 2021. This request includes, but is not limited to:*
  - *Ministerial briefs and correspondence;*
  - *media statements/responses (including drafts);*
  - *advice from experts about the lead dust (or any other hazardous material) and any implications for workers who may have been exposed to it; and the number of workers that have been tested for exposure to the lead dust (or any other hazardous material) and the results of these tests (de-identified).*

In relation to this access request 79 documents were found to be within the scope of the request.

### Authority

I am an Information Officer appointed by the Chief Projects Officer under section 18 of the Act to deal with access application made under Part 5 of the Act. This decision is made pursuant to section 36 of the Act.

### Decision on access

My decision in relation to the documents relevant to your request is summarised as follows:

- full release of 12 documents; and
- partial release of 67 documents.

Documents that are not released or are partially released contain information that I have decided:

- is taken to be contrary to the public interest to disclose in accordance with section 16 and Schedule 1 of the Act; or
- would, on balance, be contrary to the public interest to disclose under the test set out in section 17 of the Act; or
- is outside of the scope of your request.

I have included at Attachment A to this decision the schedule of relevant documents. This provides a description of each document that falls within the scope of your request and the access decision for each of those documents.

The documents released to you are provided at Attachment B to this letter.

### **Online Publishing – Disclosure Log**

Under section 28 of the Act, MPC maintains an official online record of access applications called a disclosure log. Your original access application and my decision will be published in the MPC disclosure log between three (3) and ten (10) days after the date of the decision. You may view the MPC disclosure log at <https://www.act.gov.au/majorprojectscanberra>.

### **Ombudsman Review**

My decision on your access request is a reviewable decision as identified in Schedule 3 of the Act. You have the right to seek Ombudsman review of this outcome under section 73 of the Act within 20 working days from the day that my decision is published in the MPC disclosure log, or a longer period allowed by the Ombudsman.

If you wish to request a review of my decision you may write to the Ombudsman at:

The ACT Ombudsman  
GPO Box 442  
CANBERRA ACT 2601

Via email: [actfoi@ombudsman.gov.au](mailto:actfoi@ombudsman.gov.au)

### **ACT Civil and Administrative Tribunal (ACAT) Review**

Under section 84 of the Act, if a decision is made under section 82(1) on an Ombudsman review, you may apply to ACAT for review of the Ombudsman decision. Further information may be obtained from the ACAT at:

ACT Civil and Administrative Tribunal  
Level 4, 1 Moore Street  
GPO Box 370  
CANBERRA CITY ACT 2601

Telephone: (02) 6207 1740  
<http://www.acat.act.gov.au>

Should you have any queries in relation to your request, please contact me by telephone on (02) 6205 5466 or email [MPCFOI@act.gov.au](mailto:MPCFOI@act.gov.au).

Yours sincerely

**Schedule 2.2(a)(ii)**

Nikki Pulford  
Information Officer  
**Major Projects Canberra**

13 May 2021

## FREEDOM OF INFORMATION REQUEST SCHEDULE

Please be aware that under the *Freedom of Information Act 2016*, some of the information provided to you will be released to the public through the ACT Government's Open Access Scheme. The Open Access release status column of the table below indicates what documents are intended for release online through open access.

Personal information or business affairs information will not be made available under this policy. If you think the content of your request would contain such information, please inform the contact officer immediately.

Information about what is published on open access is available online at: <https://www.act.gov.au/majorprojectscanberra/home>

FOI Reference Number		Request Details			
<b>MPCFOI2021/03</b>		<p>1. <i>Documents in possession of the ACT Government in relation to lead dust and/or other hazardous materials at the Old Bus Depot Markets from 1 December 2020 to 15 March 2021. This request includes, but is not limited to:</i></p> <ul style="list-style-type: none"> <li>• <i>Ministerial briefs and correspondence;</i></li> <li>• <i>media statements/responses (including drafts);</i></li> <li>• <i>advice from experts about the lead dust (or any other hazardous material) and any implications for workers who may have been exposed to it; and the number of workers that have been tested for exposure to the lead dust (or any other hazardous material) and the results of these tests (de-identified).</i></li> </ul>			
Ref No.	No. of Folios	Description	Date	Status	Reason for non-release or partial release
1.	1-12	Assessment	9 December 2020	Partial	S2.2(a)ii – personal privacy
2.	13	Email	17 December 2020	Partial	S2.2(a)ii – personal privacy
3.	14-15	Email	17 December 2020	Partial	S2.2(a)ii – personal privacy
4.	16-21	Email	18 December 2020	Partial	S2.2(a)ii – personal privacy
5.	22-27	Analysis	19 January 2021	Partial	S2.2(a)ii – personal privacy
6.	28-29	Email	20 January 2021	Partial	S2.2(a)ii – personal privacy

<b>7.</b>	<b>30-32</b>	Email	20 January 2021	Partial	S2.2(a)ii – personal privacy & S2.2 (a) xiii – commercial in confidence
<b>8.</b>	<b>33-35</b>	Email	20 January 2021	Partial	S2.2(a)ii – personal privacy & S2.2 (a) xiii – commercial in confidence
<b>9.</b>	<b>36</b>	Email	22 January 2021	Partial	S2.2(a)ii – personal privacy
<b>10.</b>	<b>37</b>	Report	22 January 2021	Partial	S2.2(a)ii – personal privacy
<b>11.</b>	<b>38-39</b>	Email	22 January 2021	Partial	S2.2(a)ii – personal privacy
<b>12.</b>	<b>40</b>	Email	23 January 2021	Partial	S2.2(a)ii – personal privacy
<b>13.</b>	<b>41-43</b>	Email	23 January 2021	Partial	S2.2(a)ii – personal privacy
<b>14.</b>	<b>43-44</b>	Email	25 January 2021	Partial	S2.2(a)ii – personal privacy
<b>15.</b>	<b>45-47</b>	Email	25 January 2021	Partial	S2.2(a)ii – personal privacy
<b>16.</b>	<b>48-49</b>	Email	28 January 2021	Partial	S2.2(a)ii – personal privacy
<b>17.</b>	<b>50</b>	Email	2 February 2021	Full	
<b>18.</b>	<b>51-52</b>	Email	2 February 2021	Partial	S2.2(a)ii – personal privacy
<b>19.</b>	<b>53-54</b>	Email	3 February 2021	Partial	S2.2(a)ii – personal privacy
<b>20.</b>	<b>55-57</b>	Email	3 February 2021	Partial	S2.2(a)ii – personal privacy
<b>21.</b>	<b>58-59</b>	Report	3 February 2021	Full	
<b>22.</b>	<b>60-65</b>	Analysis	4 February 2021	Partial	S2.2(a)ii – personal privacy
<b>23.</b>	<b>66</b>	Email	4 February 2021	Partial	S2.2(a)ii – personal privacy

<b>24.</b>	<b>67-68</b>	Email	5 February 2021	Partial	S2.2(a)ii – personal privacy
<b>25.</b>	<b>69-70</b>	Talking Points	5 February 2021	Full	
<b>26.</b>	<b>71-73</b>	Email	5 February 2021	Partial	S2.2(a)ii – personal privacy
<b>27.</b>	<b>74</b>	Email	5 February 2021	Partial	S2.2(a)ii – personal privacy
<b>28.</b>	<b>75-76</b>	Email	5 February 2021	Partial	S2.2(a)ii – personal privacy
<b>29.</b>	<b>77-79</b>	Media Release	5 February 2021	Full	
<b>30.</b>	<b>80-81</b>	Email	5 February 2021	Partial	S2.2 (a) xiii – commercial in confidence
<b>31.</b>	<b>82-83</b>	Media Release	5 February 2021	Full	
<b>32.</b>	<b>84-85</b>	Email	5 February 2021	Partial	S2.2(a)ii – personal privacy
<b>33.</b>	<b>86-87</b>	Email	5 February 2021	Partial	S2.2(a)ii – personal privacy
<b>34.</b>	<b>88-90</b>	Email	5 February 2021	Partial	S2.2(a)ii – personal privacy
<b>35.</b>	<b>91-92</b>	Email	5 February 2021	Partial	S2.2(a)ii – personal privacy
<b>36.</b>	<b>93</b>	Report	5 February 2021	Partial	S2.2(a)ii – personal privacy
<b>37.</b>	<b>94-106</b>	Report	5 February 2021	Partial	S2.2(a)ii – personal privacy
<b>38.</b>	<b>107-108</b>	Email	5 February 2021	Partial	S2.2(a)ii – personal privacy
<b>39.</b>	<b>109-123</b>	Report	8 February 2021	Partial	S2.2(a)ii – personal privacy
<b>40.</b>	<b>124</b>	Email	9 February 2021	Full	

<b>41.</b>	<b>125-127</b>	QTB	9 February 2021	Full	
<b>42.</b>	<b>128-129</b>	Email	9 February 2021	Partial	S2.2(a)ii – personal privacy
<b>43.</b>	<b>130</b>	Email	9 February 2021	Partial	S2.2(a)ii – personal privacy
<b>44.</b>	<b>131-133</b>	Email	10 February 2021	Partial	S2.2(a)ii – personal privacy
<b>45.</b>	<b>134-136</b>	Email	10 February 2021	Partial	S2.2(a)ii – personal privacy
<b>46.</b>	<b>137-139</b>	Email	10 February 2021	Partial	S2.2(a)ii – personal privacy
<b>47.</b>	<b>140-141</b>	Email	10 February 2021	Partial	S2.2(a)ii – personal privacy
<b>48.</b>	<b>142-143</b>	Email	10 February 2021	Partial	S2.2(a)ii – personal privacy
<b>49.</b>	<b>144-145</b>	Email	11 February 2021	Partial	S2.2(a)ii – personal privacy
<b>50.</b>	<b>146-149</b>	Analysis	11 February 2021	Partial	S2.2(a)ii – personal privacy
<b>51.</b>	<b>150-151</b>	Email	12 February 2021	Partial	S2.2(a)ii – personal privacy
<b>52.</b>	<b>152</b>	Document	12 February 2021	Partial	S2.2(a)ii – personal privacy
<b>53.</b>	<b>153-154</b>	Media Release	12 February 2021	Full	
<b>54.</b>	<b>155</b>	Document	12 February 2021	Partial	S2.2(a)ii – personal privacy
<b>55.</b>	<b>156-158</b>	Email	15 February 2021	Partial	S2.2(a)ii – personal privacy
<b>56.</b>	<b>159-160</b>	Email	15 February 2021	Partial	S2.2(a)ii – personal privacy
<b>57.</b>	<b>161-162</b>	Email	15 February 2021	Partial	S2.2(a)ii – personal privacy

58.	163-177	Letter	15 February 2021	Partial	S2.2(a)ii – personal privacy
59.	178-222	Assessment	15 February 2021	Partial	S2.2(a)ii – personal privacy
60.	223-224	Email	15 February 2021	Partial	S2.2(a)ii – personal privacy
61.	225	Results	15 February 2021	Full	
62.	226-229	Email	16 February 2021	Partial	S2.2(a)ii – personal privacy
63.	230-232	Email	17 February 2021	Partial	S2.2(a)ii – personal privacy
64.	233-234	Email	17 February 2021	Partial	S2.2(a)ii – personal privacy
65.	235-236	Results	17 February 2021	Full	
66.	237-244	Analysis	17 February 2021	Partial	S2.2(a)ii – personal privacy
67.	245-246	Email	19 February 2021	Partial	S2.2(a)ii – personal privacy
68.	247-250	Email	22 February 2021	Partial	S2.2(a)ii – personal privacy
69.	251-252	Email	23 February 2021	Partial	S2.2(a)ii – personal privacy
70.	253-257	Statements	23 February 2021	Full	
71.	258-263	Analysis	24 February 2021	Partial	S2.2(a)ii – personal privacy
72.	265-312	Assessment	25 February 2021	Partial	S2.2(a)ii – personal privacy
73.	313-318	Email	3 March 2021	Partial	S2.2(a)ii – personal privacy
74.	319-320	Email	10 March 2021	Partial	S2.2(a)ii – personal privacy

75.	321-323	Email	11 March 2021	Partial	S2.2(a)ii – personal privacy
76.	324-326	Email	12 March 2021	Partial	S2.2(a)ii – personal privacy
77.	327-328	Email	12 March 2021	Partial	S2.2(a)ii – personal privacy
78.	329-331	Report	12 March 2021	Full	
79.	332-333	Email	12 March 2021	Partial	S2.2(a)ii – personal privacy
<b>Total Number of Documents</b>					
79					

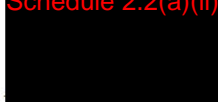
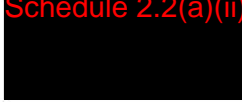


# Lead Dust Assessment

## Old Bus Depot Markets – Megalo Building

9 December 2020

### Certificate of approval for issue of documents

<b>Document Name</b>	T10589 Lead Dust Assessment Megalo Building, Kingston		
<b>Date of Issue</b>	17 December 2020	<b>Job Number</b>	T10589
<b>Client</b>	Monarch Building Solutions	<b>Client Reference</b>	
<b>Site Sampling</b>		<b>Report Preparation</b>	
<p>Schedule 2.2(a)(ii)</p>  <p>BSc; Grad.Dip.Occ.Hyg Managing Director Robson Environmental Pty. Ltd.</p>		<p>Schedule 2.2(a)(ii)</p>  <p>BSc Env. Sci/Marine Sci Graduate Environmental Scientist Robson Environmental Pty. Ltd.</p>	
<b>Reviewed</b>		<b>Approved</b>	
Signature Name Qualifications Title Robson Environmental Pty Ltd		Signature Name Qualifications Title Robson Environmental Pty Ltd	

#### Copyright & Intellectual Property Statement

1. Robson owns (and will continue to own) all Intellectual Property Rights (including copyright) in this Report.
2. The person commissioning this Report (the Client) is entitled to retain possession of the Report upon payment of all sums owing to Robson in full or upon Robson agreeing to release the Report (in their absolute discretion and upon terms they think fit).
3. The Client must only use the Report for the purpose for which it was commissioned.
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7. The Client indemnifies Robson against any costs, losses or damage suffered or incurred (including legal costs on a solicitor and own client basis) arising out of or as a consequence of the Client's breach of these provisions.
8. This report is solely for the use of the client and may not contain sufficient information for purposes of other parties, or for other uses. Any reliance on this report by third parties shall be at such party's own risk.
9. This report shall only be presented in full and may not be used to support any other objective than those set out in the report, except where written approval with comments are provided by Robson Environmental Pty Ltd.

## 1 Introduction

Robson Environmental Pty. Ltd. (Robson) undertook a contamination assessment before maintenance work is undertaken within the Megalo Building at the Old Bus Depot Markets on 7 December 2020 on behalf of Monarch Building Solutions.

### 1.1 Objective

Lead (as lead carbonate) is found extensively and at high concentrations in paints used in buildings built before 1970, and at lower levels in buildings built until approximately 1997. Lead from lead-containing paint may present health exposure risks if it becomes mobile in the environment or is ingested. Improper management of lead paint can create hazards to public health and the environment.

AS 4361.2:2017: *Guide to hazardous paint management Part 2: Lead paint in residential, public and commercial buildings* requires controls to manage generation of lead during lead paint management activities or any other activity which disturbs lead paint, including clearance testing of soil and surfaces.

The purpose of this assessment was to carry out lead dust contamination assessment prior to maintenance work being undertaken within the Megalo Building to:

- determine if there is significant contamination of lead dust within the ceiling space.

### 1.2 Scope

This assessment consisted of:

- Assessment of surface dust contamination in the Megalo Building at the Old Bus Depot Markets to meet the requirements of AS/NZS 4361.2:2017, by:
  - Visual inspection of the area of expected lead contamination;
  - Collection of 2 representative samples from surfaces expected of lead contamination to assess pre-existing surface contamination.

## 2 Methods

### 2.1 Surface dust testing

#### 2.1.1 Contamination assessment

Assessment samples of lead on surfaces were taken to determine the required scope for cleaning in the Megalo Building at the Old Bus Depot Markets.

Surface dust sampling was undertaken as a bulk sample to determine the presence of lead within the dust. Sampling was undertaken on 7 December 2020, before lead disturbance works commence. Samples were taken at representative locations throughout the Megalo Building. Sample locations are shown in Table 1 and Figure 1. All samples were transported to Envirolab, Sydney under Chain of Custody (COC) documentation to undergo analysis for lead content by inductively coupled plasma atomic emission spectroscopy/mass spectroscopy (ICP-AES/MS).

**Table 1: Contamination assessment of sampling locations in the Megalo Building on 7 December 2020**

Sample number	Location
L2935	Lunchroom ceiling space
L2936	Corridor ceiling space adjacent "Aquatint" room



**Figure 1: Surface sample L2935 location in ceiling space above lunchroom**



**Figure 2: Surface sample L2936 location in corridor ceiling space adjacent "Aquatint" room**

### 3 Assessment criteria

#### 3.1 Surface lead dust

The previous version of Australian Standard AS4361.2-1998 (*Guide to lead paint management, Part 2: Residential and commercial buildings*) had criteria levels for clearance after lead paint management activities of 8 mg/m<sup>2</sup> for exterior surfaces, 5 mg/m<sup>2</sup> for interior window sills, and 1 mg/m<sup>2</sup> for interior floors. This standard covered domestic settings, which would be expected to have vulnerable people present, including small children at increased risk of ingesting lead particles.

The AS4361.2 standard was updated in 2017 (AS 4361.2-2017) and no longer includes acceptable levels for surface dust lead levels after cleaning activities, instead it specifies that 'lead surface dust loading should not exceed the limits provided by the relevant statutory authority with jurisdiction over the area within which the work has been carried out'.

Neither the ACT nor the Commonwealth jurisdictions have criteria levels for surface lead after clearance activities. However, AS 4361.2-2017 also states that 'if there are no relevant legislated limits, project acceptance criteria should be established'.

These criteria are not appropriate for surfaces with high concentrations of dust, such as within ceiling cavities, because the total volume of dust could result in a high volume of lead in a surface sample even if the percentage of lead in the dust is very low.

## 4 Results

### 4.1 Surface dust assessment

Surface samples collected for quantification of surface lead contamination in the Megalo Building ceiling space at targeted locations, returned results showing that there is a lead dust present in the areas of the ceiling that were sampled, as shown in Table 2.

**Table 2: Background surface lead sampling results in the Megalo Building on 7 December 2020**

Sample Number	Location	Lead present W/W
L2935	Lunchroom ceiling space	0.016 %
L2936	Corridor ceiling space adjacent "Aquatint" room	0.067 %

## 5 Conclusion and Recommendations

The contamination assessment for surface dust undertaken at the Old Bus Depot Markets prior to works in the Megalo Building on 7 December 2020 found that surface samples in the lunchroom ceiling space and corridor ceiling space adjacent "Aquatint" room returned high levels of dust, indicating that lead dust contamination is present. Remediation of the ceiling space is not practical, due to the size and inaccessibility of the space, furthermore disturbing lead dust in ceiling spaces should be minimised where possible.

### 5.1 Recommendations

1. Access to the ceiling space should be restricted without appropriate personal protective equipment. It is recommended that any person entering the work area wear suitable respiratory protection to minimise exposure to lead dust.
2. Suitable remediation of surfaces in the ceiling space where works are to be conducted should be carried out.
3. Workers undertaking remediation should have appropriate controls in place to prevent exposure to lead, as per AS 4361.2:2017.
4. Clearance testing should be undertaken once remediation is complete.
5. Any items/surfaces e.g., ducting, cabling, tools should be cleaned prior to removal from the ceiling space.

## 6 Limitations

While Robson has taken all care to ensure that this report includes the most accurate information available, samples were taken at certain times on the day or days indicated within the report and Robson is unable to comment on conditions at other times. Any statement of expected conditions at other times should be taken as possible conditions only.

The report, including any risk assessment presented, is based on the information obtained by Robson at the time of sampling. Any variation in the environment, activities, methods, practices, products, or equipment used may change exposures to hazards, invalidating the presented risk assessment.

Robson recommends that risks be re-assessed prior to making any changes to the aforementioned factors.

The findings contained within this report are developed from the interpretation of the results of specific sampling methods used in accordance with generally accepted practices and standards, based on the current state of knowledge. To the best of Robson's knowledge, our assessment of the data represents a reasonable interpretation of the general conditions, and subsequent risk at the time of sampling. Should you have any questions or require further information please contact Robson Environmental.

## 7 References

- National Institute for Occupational Safety and Health (NIOSH) 1996, *NIOSH Method 9100: Lead in Surface Wipes*, NIOSH Manual of Analytical Methods (NMAM), Fourth Edition, NIOSH, USA
- Standards Australia 1998, *Guide to lead paint management, Part 2: Residential and commercial buildings*, AS4361.2–1998, Standards Australia, Sydney
- Standards Australia 2017, *Guide to hazardous paint management, Part 2: Lead paint in residential and commercial buildings*, AS4361.2–2017, Standards Australia, Sydney
- U.S. Department of Housing and Urban Development 2012, *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing Second Edition*, Office of Health Homes and Lead Hazard Control, Washington, DC.

## Appendix 1 Laboratory Results



Envirolab Services Pty Ltd  
 ABN 37 112 535 645  
 12 Ashley St Chatswood NSW 2067  
 ph 02 9910 6200 fax 02 9910 6201  
 customerservice@envirolab.com.au  
 www.envirolab.com.au

### CERTIFICATE OF ANALYSIS 257899

#### Client Details

Client	Robson Environmental Pty Ltd
Attention	Schedule 2.2(a)(ii)
Address	PO Box 112, Fyshwick, ACT, 2609

#### Sample Details

Your Reference	<b>T10589</b>
Number of Samples	2 dust
Date samples received	10/12/2020
Date completed instructions received	10/12/2020

#### Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.  
 Samples were analysed as received from the client. Results relate specifically to the samples as received.  
 Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

#### Report Details

Date results requested by	14/12/2020
Date of Issue	14/12/2020
NATA Accreditation Number 2901. This document shall not be reproduced except in full.	
Accredited for compliance with ISO/IEC 17025 - Testing. <b>Tests not covered by NATA are denoted with *</b>	

Results Approved By  
 Schedule 2.2(a)(ii)

Authorised By  
 Schedule 2.2(a)(ii)

Nancy Zhang, Laboratory Manager

Envirolab Reference: 257899  
 Revision No: R00



Client Reference: T10589

Lead (dust)			
Our Reference		257899-1	257899-2
Your Reference	UNITS	L2935	L2936
Type of sample		dust	dust
Date prepared	-	11/12/2020	11/12/2020
Date analysed	-	11/12/2020	11/12/2020
Lead	mg/kg	160	670
Lead	% w/w	0.016	0.067

Envirolab Reference: 257899  
Revision No: R00

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Client Reference: T10589

Method ID	Methodology Summary
Metals-020	Determination of various metals by ICP-AES.

Envirolab Reference: 257899  
Revision No: R00

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Client Reference: T10589

QUALITY CONTROL: Lead (dust)				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			11/12/2020	[NT]	[NT]	[NT]	[NT]	11/12/2020	[NT]
Date analysed	-			11/12/2020	[NT]	[NT]	[NT]	[NT]	11/12/2020	[NT]
Lead	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	101	[NT]
Lead	% w/w	0.0001	Metals-020	<0.0001	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]

Client Reference: T10589

Result Definitions	
<b>NT</b>	Not tested
<b>NA</b>	Test not required
<b>INS</b>	Insufficient sample for this test
<b>PQL</b>	Practical Quantitation Limit
<b>&lt;</b>	Less than
<b>&gt;</b>	Greater than
<b>RPD</b>	Relative Percent Difference
<b>LCS</b>	Laboratory Control Sample
<b>NS</b>	Not specified
<b>NEPM</b>	National Environmental Protection Measure
<b>NR</b>	Not Reported

Client Reference: T10589

Quality Control Definitions	
<b>Blank</b>	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 exactly the same manner as for samples.
<b>Duplicate</b>	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
<b>Matrix Spike</b>	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.
<b>LCS (Laboratory Control Sample)</b>	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. It is simply a check sample.
<b>Surrogate Spike</b>	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.
Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.	
The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.	
Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2	

Laboratory Acceptance Criteria
<p>Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.</p> <p>Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.</p> <p>Spikes for Physical and Aggregate Tests are not applicable.</p> <p>For VOCs in water samples, three vials are required for duplicate or spike analysis.</p> <p>Duplicates: &gt;10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; &lt;10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.</p> <p>Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.</p> <p>In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.</p> <p>When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.</p> <p>Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.</p> <p>Measurement Uncertainty estimates are available for most tests upon request.</p> <p>Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.</p> <p>Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.</p>

## Appendix 2 Sampling result locations



Figure 3: Location of lead dust swab samples in the Megalo Building at the Old Bus Depot Markets

**From:** [redacted]  
**To:** Barisic, Natalie  
**Cc:** [redacted]  
**Subject:** FW: T10589 \_ Megalo Building ceiling space - assessment of ceiling space dust for lead content - 2 locations  
**Date:** Thursday, 17 December 2020 6:21:20 PM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image003.png](#)  
[image004.png](#)  
[image011.png](#)  
[image012.png](#)  
[T10589\\_LeadDustAssessment\\_20201210v1.pdf](#)  
[4361.2\\_printed.pdf](#)

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Natalie,

Please see attached Lead Dust Assessment Report from Robson. I have also attached a copy of the AS 4361.2.2:2017 for your reference. AS 4361.2:2017 stipulates the management of lead paint however it is also applicable to lead dust.

Robson suggests that as the ceiling is in good condition, there is no health risk to the occupants as long as the dust is not disturbed. Hope it helps you to discuss the way moving forward with Megalo. Should you have any question, please give me a call.

Kind Regards

[redacted]  
Site Engineer

signature\_1255920663



T 02 6162 0232 | [redacted]

24 Lithgow St, Fyshwick ACT 2609

[www.monarchbuildingsolutions.com.au](http://www.monarchbuildingsolutions.com.au) |

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**From:** [redacted]

**Sent:** Thursday, 17 December 2020 5:58 PM

**To:** [redacted]

**Subject:** T10589 \_ Megalo Building ceiling space - assessment of ceiling space dust for lead content - 2 locations

Hi [redacted],

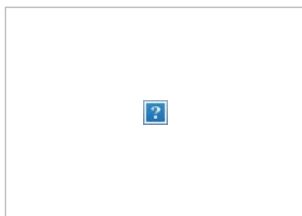
The final report is attached.

Please advise if you require further information or clarification.

Kind regards

[redacted]

[redacted]



[redacted]

**Managing Director**  
BSc, Grad Dip OccHyg, Cert IV T&A, Licensed Asbestos Assessor, BOHS W504

Phone: 02 6239 5656

[redacted]

Fax: 02 6239 5669

[redacted]

Web: [www.robsonenviro.com.au](http://www.robsonenviro.com.au)

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4801:2001 - Environment

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**From:** Ozols, Peter  
**To:** [redacted]; Barisic, Natalie  
**Subject:** Fwd: T10589 \_ Megalo Building ceiling space - assessment of ceiling space dust for lead content - 2 locations  
**Date:** Thursday, 17 December 2020 6:38:35 PM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image003.png](#)  
[image004.png](#)  
[image011.png](#)  
[image012.png](#)  
[image013.jpg](#)  
[T10589\\_LeadDustAssessment\\_20201210v1.pdf](#)  
[4361.2\\_printed.pdf](#)

---

Hi [redacted]  
How would this be managed with a full roof replacement?  
Any advice would assist in moving forward  
Cheers Pete

---

**From:** Barisic, Natalie <Natalie.Barisic@act.gov.au>  
**Sent:** Thursday, December 17, 2020 6:34:38 PM  
**To:** Collins, Jen <Jen.Collins@act.gov.au>; Vardos, Jacqui <Jacqui.Vardos@act.gov.au>; Gordon, Libby <Libby.Gordon@act.gov.au>  
**Cc:** McNamara, Conor <Conor.McNamara@act.gov.au>; Ozols, Peter <Peter.Ozols@act.gov.au>; Dawson, Helene <Helene.Dawson@act.gov.au>  
**Subject:** FW: T10589 \_ Megalo Building ceiling space - assessment of ceiling space dust for lead content - 2 locations

OFFICIAL

Hi Team

Please see the below and attached assessment report on the lead dust identified in the Megalo ceiling space for your records.

Thanks  
Natalie

---

**From:** Schedule 2.2(a)(ii) [redacted]  
**Sent:** Thursday, 17 December 2020 6:20 PM  
**To:** Barisic, Natalie <Natalie.Barisic@act.gov.au>  
**Cc:** Schedule 2.2(a)(ii) [redacted]  
**Subject:** FW: T10589 \_ Megalo Building ceiling space - assessment of ceiling space dust for lead content - 2 locations

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Natalie,

Please see attached Lead Dust Assessment Report from Robson. I have also attached a copy of the AS 4361.2.2:2017 for your reference. AS 4361.2:2017 stipulates the management of lead paint however it is also applicable to lead dust.

Robson suggests that as the ceiling is in good condition, there is no health risk to the occupants as long as the dust is not disturbed. Hope it helps you to discuss the way moving forward with Megalo. Should you have any question, please give me a call.

Kind Regards

Schedule 2.2(a)(ii) [redacted]  
Site Engineer

signature\_1255920663



T 02 6162 0232 | Schedule 2.2(a)(ii) [redacted]

24 Lithgow St, Fyshwick ACT 2609

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**From:** Schedule 2.2(a)(ii)

**Sent:** Thursday, 17 December 2020 5:58 PM

**To:** Schedule 2.2(a)(ii)

**Subject:** T10589 \_ Megalo Building ceiling space - assessment of ceiling space dust for lead content - 2 locations



Hi Schedule 2.2(a)(ii),

The final report is attached.

Please advise if you require further information or clarification.

Kind regards

Schedule 2.2(a)(ii)

	
	Schedule 2.2(a)(ii)
	<b>Managing Director</b>
	BSc, Grad Dip OcChyg, Cert IV T&A, Licensed Asbestos Assessor, BOHS W504
	Phone: 02 6239 5656
	Schedule 2.2(a)(ii)
Fax: 02 6239 5669	
Schedule 2.2(a)(ii)	
Web: <a href="http://www.robsonenviro.com.au">www.robsonenviro.com.au</a>	
140 Gladstone St Fyshwick ACT 2609 ~ PO Box 112 Fyshwick ACT 2609	
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**From:** [Ozols, Peter](#)  
**To:** [Barisic, Natalie](#)  
**Subject:** Fwd: T10589 \_ Megalo Building ceiling space - assessment of ceiling space dust for lead content - 2 locations  
**Date:** Friday, 18 December 2020 6:00:56 AM

---

---

**From:** Schedule 2.2(a)(ii) [REDACTED]  
**Sent:** Thursday, December 17, 2020 10:54:13 PM  
**To:** Ozols, Peter <Peter.Ozols@act.gov.au>  
**Cc:** Schedule 2.2(a)(ii) [REDACTED]  
**Subject:** FW: T10589 \_ Megalo Building ceiling space - assessment of ceiling space dust for lead content - 2 locations

**CAUTION:** This email originated from outside of the ACT Government. Do not click links or open attachments unless you recognise the sender and know the content is safe.

Hi Pete,

Items within the ceiling space would need be cleaned if they are to be disturbed or removed.

Good personal hygiene including wearing PPE; including face mask and coveralls to prevent inhalation of ceiling space dusts and contamination of clothes. If they are wearing the PPE this will reduce any exposures, ensuring that the wash hands when having breaks (toilet, food and smoking)

To clean ceiling space areas, the workers could vacuum the areas of disturbance or services/cables/items removal to remove the lead dust contamination or wet wipe cables if minor disturbance.

I would not recommend vacuum all of the ceiling space unless they are completely gutting the area (such as removing the ceiling). If they do this, then the area could be visually inspected to minimise any concern, if required.

**Note:** there are other contaminants within the ceiling space including glass fibre, microbiological matter (rodent faeces, urine) and decades of general dust buildup. The earlier mentioned PPE should be worn to prevent respiratory irritation.

Please advise if you require further information.

Schedule 2.2(a)(ii) [REDACTED]

Sent from my iPhone

Begin forwarded message:

**From:** "Ozols, Peter" <[Peter.Ozols@act.gov.au](mailto:Peter.Ozols@act.gov.au)>  
**Date:** 17 December 2020 at 18:38:39 AEDT



To: **Schedule 2.2(a)(ii)** "Barisic, Natalie"

<[Natalie.Barisic@act.gov.au](mailto:Natalie.Barisic@act.gov.au)>

**Subject: Fwd: T10589 \_ Megalo Building ceiling space - assessment of ceiling space dust for lead content - 2 locations**

Hi **Schedule 2**

How would this be managed with a full roof replacement?

Any advice would assist in moving forward

Cheers Pete

---

From: Barisic, Natalie <[Natalie.Barisic@act.gov.au](mailto:Natalie.Barisic@act.gov.au)>

Sent: Thursday, December 17, 2020 6:34:38 PM

To: Collins, Jen <[Jen.Collins@act.gov.au](mailto:Jen.Collins@act.gov.au)>; Vardos, Jacqui

<[Jacqui.Vardos@act.gov.au](mailto:Jacqui.Vardos@act.gov.au)>; Gordon, Libby <[Libby.Gordon@act.gov.au](mailto:Libby.Gordon@act.gov.au)>

Cc: McNamara, Conor <[Conor.McNamara@act.gov.au](mailto:Conor.McNamara@act.gov.au)>; Ozols, Peter

<[Peter.Ozols@act.gov.au](mailto:Peter.Ozols@act.gov.au)>; Dawson, Helene <[Helene.Dawson@act.gov.au](mailto:Helene.Dawson@act.gov.au)>

Subject: FW: T10589 \_ Megalo Building ceiling space - assessment of ceiling space dust for lead content - 2 locations

OFFICIAL

Hi Team

Please see the below and attached assessment report on the lead dust identified in the Megalo ceiling space for your records.

Thanks

Natalie

From: **Schedule 2.2(a)(ii)**

Sent: Thursday, 17 December 2020 6:20 PM

To: Barisic, Natalie <[Natalie.Barisic@act.gov.au](mailto:Natalie.Barisic@act.gov.au)>

Cc: **Schedule 2.2(a)(ii)**

Subject: FW: T10589 \_ Megalo Building ceiling space - assessment of ceiling space dust for lead content - 2 locations

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Natalie,

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Robson suggests that as the ceiling is in good condition, there is no health risk to the occupants as long as the dust is not disturbed. Hope it helps you to discuss the way moving forward with Megalo. Should you have any question, please give me a call.

Kind Regards

Schedule 2.2(a)(i)

Site Engineer

[signature\_1255920663]

T 02 6162 0232 | Schedule 2.2(a)(ii)

[Redacted signature block]

24 Lithgow St, FYSHWICK ACT 2609

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[\[signature\\_1137483173\]](https://aus01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.facebook.com%2FMonarchBuildingSolutions%2F&data=04%7C01%7C%7Cee9a8737ade74f7b234a08d8a25c3fba%7Cb46c190803344236b978585ee88e4199%7C0%7C0%7C637437864785523991%7CUnknown%7CTWFpbGZsb3d8eyJWljojMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTiI6IjEhaWwiLCJXVCI6Mn0%3D%7C1000&sdata=VRrersz5dnfN8%2F8Jk7MPQINNwC%2Fq4E0EAtHWIUEJeJY%3D&reserved=0) <<https://aus01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.facebook.com%2FMonarchBuildingSolutions%2F&data=04%7C01%7C%7Cee9a8737ade74f7b234a08d8a25c3fba%7Cb46c190803344236b978585ee88e4199%7C0%7C0%7C637437864785523991%7CUnknown%7CTWFpbGZsb3d8eyJWljojMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTiI6IjEhaWwiLCJXVCI6Mn0%3D%7C1000&sdata=VRrersz5dnfN8%2F8Jk7MPQINNwC%2Fq4E0EAtHWIUEJeJY%3D&reserved=0>> [signature\_102859975]  
<<https://aus01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.instagram.com%2Fmonarch.cbr%2F&data=04%7C01%7C%7Cee9a8737ade74f7b234a08d8a25c3fba%7Cb46c190803344236b978585ee88e4199%7C0%7C0%7C637437864785523991%7CUnknown%7CTWFpbGZsb3d8eyJWljojMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTiI6IjEhaWwiLCJXVCI6Mn0%3D%7C1000&sdata=1vZQcaFQH5trr%2BJDx4j6OCGITOitvDLdnj%2BS2%2FNMBSI%3D&reserved=0>>

[Graphical user interface Description automatically generated]

<<https://aus01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fmonarchbuildingsolutions.com.au%2Fmonarch-turns-15&data=04%7C01%7C%7Cee9a8737ade74f7b234a08d8a25c3fba%7Cb46c190803344236b978585ee88e4199%7C0%7C0%7C637437864785523991%7CUnknown%7CTWFpbGZsb3d8eyJWljojMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTiI6IjEhaWwiLCJXVCI6Mn0%3D%7C1000&sdata=j3KNxXC66zl5VmRShFWlrbXqdmRuSm1YlyQAcxg7xaY%3D&reserved=0>>

From: **Schedule 2.2(a)(ii)**

[Redacted]

Sent: Thursday, 17 December 2020 5:58 PM

To: **Schedule 2.2(a)(ii)**

[Redacted]

[Redacted]

[Redacted]

Schedule 2.2(a)(ii)

Subject: T10589 \_ Megalo Building ceiling space - assessment of ceiling space dust for lead content - 2 locations

Hi Schedule 2.2(a)(ii),

The final report is attached.

Please advise if you require further information or clarification.

Kind regards

Schedule 2

[\[cid:image001.png@01D6D49E.19FD72D0\]](#)

[\[cid:image002.png@01D6D49E.19FD72D0\]](#)

Schedule 2.2(a)(i)

Managing Director

BSc, Grad Dip OccHyg, Cert IV T&A, Licensed Asbestos Assessor, BOHS W504

Phone: 02 6239 5656

Schedule 2.2(a)(ii)

Fax: 02 6239 5669

Schedule 2.2(a)(ii)

Web: [www.robsonenviro.com.au](http://www.robsonenviro.com.au)<<https://aus01.safelinks.protection.outlook.com/?url=http%3A%2F%2Fwww.robsonenviro.com.au%2F&data=04%7C01%7C%7Cee9a8737ade74f7b234a08d8a25c3fba%7Cb46c190803344236b978585ee88e4199%7C0%7C0%7C637437864785533987%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTiI6IjEkaWwiLCJXVCi6Mn0%3D%7C1000&sdata=dwN6q2NPPJ2H5iiuGoy1NOXZFs0FxlDo5shQwXh%2BiY%3D&reserved=0>>

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[\[cid:image003.png@01D6D49E.19FD72D0\]](#)

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-----



## CERTIFICATE OF ANALYSIS 259743

### Client Details

<b>Client</b>	Safe Work & Environments
<b>Attention</b>	Schedule 2.2(a)(ii)
<b>Address</b>	7/103 Majors Bay Rd, Concord, NSW, 2137

### Sample Details

<b>Your Reference</b>	<b>C109358</b>
<b>Number of Samples</b>	3 Dust
<b>Date samples received</b>	19/01/2021
<b>Date completed instructions received</b>	19/01/2021

### Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.  
Samples were analysed as received from the client. Results relate specifically to the samples as received.  
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

### Report Details

<b>Date results requested by</b>	19/01/2021
<b>Date of Issue</b>	19/01/2021

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Accredited for compliance with ISO/IEC 17025 - Testing. **Tests not covered by NATA are denoted with \***

**Results Approved By**  
Schedule 2.2(a)(ii), Metals Supervisor

**Authorised By**  
Schedule 2.2(a)(ii)

Schedule 2.2(a)(ii), Laboratory Manager

Client Reference: C109358

Lead (dust)				
Our Reference		259743-1	259743-2	259743-3
Your Reference	UNITS	C109358-Pb18	C109358-Pb19	C109358-Pb20
Date Sampled		18/01/2021	18/01/2021	18/01/2021
Type of sample		Dust	Dust	Dust
Date prepared	-	19/01/2021	19/01/2021	19/01/2021
Date analysed	-	19/01/2021	19/01/2021	19/01/2021
Lead	mg/kg	1,700	4,400	800

Method ID	Methodology Summary
<b>Metals-020</b>	Determination of various metals by ICP-AES.



Client Reference: C109358

QUALITY CONTROL: Lead (dust)				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			19/01/2021	[NT]	[NT]	[NT]	[NT]	19/01/2021	[NT]
Date analysed	-			19/01/2021	[NT]	[NT]	[NT]	[NT]	19/01/2021	[NT]
Lead	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	103	[NT]

**Result Definitions**

<b>NT</b>	Not tested
<b>NA</b>	Test not required
<b>INS</b>	Insufficient sample for this test
<b>PQL</b>	Practical Quantitation Limit
<b>&lt;</b>	Less than
<b>&gt;</b>	Greater than
<b>RPD</b>	Relative Percent Difference
<b>LCS</b>	Laboratory Control Sample
<b>NS</b>	Not specified
<b>NEPM</b>	National Environmental Protection Measure
<b>NR</b>	Not Reported

## Quality Control Definitions

<b>Blank</b>	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 exactly the same manner as for samples.
<b>Duplicate</b>	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
<b>Matrix Spike</b>	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.
<b>LCS (Laboratory Control Sample)</b>	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. It is simply a check sample.
<b>Surrogate Spike</b>	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.
Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.	
The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.	
Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2	

## Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

**From:** Schedule 2.2(a)(ii)  
**To:** [McNamara, Conor](#)  
**Cc:** [Barisic, Natalie](#)  
**Subject:** FW: C109358 - Old Bus Depot: dust test results  
**Date:** Wednesday, 20 January 2021 2:59:30 PM  
**Attachments:** [259743-\[R00\].pdf](#)  
**Importance:** High

---

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Conor,

Attached are the lead test results as requested

It was included in the early warning sent on Procore early this morning

Schedule 2.2(a)(ii)

[Redacted]

---

**From:** Schedule 2.2(a)(ii)  
**Sent:** Tuesday, 19 January 2021 5:10 PM  
**To:** Schedule 2.2(a)(ii)  
**Subject:** C109358 - Old Bus Depot: dust test results  
**Importance:** High

Dear [Redacted],

Please see attached the laboratory report for the dust test results of the three samples collected from the elevated surfaces of the old bus depot (upper and lower) halls. All three samples were well above the threshold (assessment criteria) of 300 mg/kg which we would adopt as a trigger for risk management and removal / remediation. Sample locations and results summarised below:

- C109358-Pb18 – Lower hall, north-west wall, dust off orange structure: 1,700mg/kg.
- C109358-Pb19 – base of ramp between upper and lower halls in central area of bus depot, dust off PVC pipe: 4,400 mg/kg.
- C109358-Pb20 – Upper hall, south-east corner, dust off PVC pipe: 800 mg/kg.

Regards,

Schedule 2.2(a)(ii)

Senior Environmental Consultant & ACT Manager

**Safe Work and Environments Pty Ltd**

PO Box 230, Dickson ACT 2602

Schedule 2.2(a)(ii)

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**From:** [McNamara, Conor](#)  
**To:** [Schedule 2.2\(a\)\(ii\)](#)  
**Cc:** [Barisic, Natalie](#); [Collins, Jen](#); [Ozols, Peter](#); [Dawson, Helene](#)  
**Subject:** RE: Kingston Old Bus Depot - Lead Dust Assessment  
**Date:** Wednesday, 20 January 2021 3:54:34 PM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image003.png](#)  
[image004.jpg](#)

---

OFFICIAL

Thanks [Schedule 2.2\(a\)\(ii\)](#),

Please action all recommendations including immediate air monitoring. I have forwarded this email to artsACT who have advised arts and KBDM staff not to occupy until conformation of all advise is agreed. Please proceed with all required under GC21 general conditions clause 52 variations, urgent works.

I will be in contact with you again today to confirm site meeting time (site shed outside KBD) tomorrow with all stakeholders.

Regards Conor

---

**From:** [Schedule 2.2\(a\)\(ii\)](#)  
**Sent:** Wednesday, 20 January 2021 3:32 PM  
**To:** McNamara, Conor <Conor.McNamara@act.gov.au>  
**Cc:** Barisic, Natalie <Natalie.Barisic@act.gov.au>  
**Subject:** FW: Kingston Old Bus Depot - Lead Dust Assessment  
**Importance:** High

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Conor,

Lead dust risk assessment for Kingston depot

[Schedule 2.2\(a\)\(ii\)](#)

---

**From:** [Schedule 2.2\(a\)\(ii\)](#)  
**Sent:** Wednesday, 20 January 2021 3:23 PM  
**To:** [Schedule 2.2\(a\)\(ii\)](#)  
**Subject:** RE: Kingston Old Bus Depot - Lead Dust Assessment  
**Importance:** High

Dear [Schedule 2.2\(a\)\(ii\)](#) et.al.,

In consideration of the testing undertaken to date please see the below conclusions & recommendations in regard to the lead dust exposure risk and remedial works within the Old Bus Depot halls:

- All settled dusts within the upper and lower halls of the old bus depot are considered to be lead containing dusts.
- Further sampling could be used to delineate some areas as not containing lead, however I think this outcome is unlikely based on existing results and site observations.
- It is my professional opinion that the old bus depot halls present a negligible lead exposure risk provided the following is adhered to:
  - There is no contact with settled dusts by site personnel,
  - There is no disturbance of settled dusts within the halls, for example:
    - No potentially dust disturbing activities are undertaken (e.g. use of compressed air, sweeping, cleaning etc.)
    - Eliminate vehicle movements within the halls,
    - Doors are kept closed to minimise air movement.
  - Site personnel observe good hygiene practices and wash thoroughly prior to meal breaks.
  - Site personnel do not eat, drink or take meal breaks in halls.
- Air monitoring for airborne lead should be undertaken within the halls while ever site personnel are present to demonstrate

the absence of an airborne lead risk to those staff / contractors.

- In the event that elevated concentrations of lead in airborne dust be detected, all site activities must stop and the above will be revised.
- Air monitoring for airborne lead will be analysed on same-day laboratory turnaround time (TAT) which provides results by COB the day after sampling; this is the quickest possible way to obtain results.
- The day rate including site time, sample analysis and reporting for airborne lead (5 x sample locations + field blank) [redacted].
- For the purpose of estimating the cost of air monitoring during the remediation phase, please apply the day rate to the Aztech schedule for the lead dust remediation works.
- A clearance assessment cost estimate is based on the below rates / fees:
  - Visual clearance of all surfaces with upper and lower halls of old bus depot – Schedule 2.2(a)(xiii) [redacted]
  - Clearance air monitoring Schedule 2.2(a)(xiii) [redacted]
  - Clearance Report = Schedule 2.2(a)(xiii) [redacted]
  - Total cost estimate = Schedule 2.2(a)(xiii) [redacted]

**Lead dust removal considerations:**

Please note that there is a significant amount of private property impacted by dust (food preparation equipment amongst it). There is a significant amount of porous materials present too, and generally it is not possible to remediate porous items which are usually disposed of as lead waste. Please consider carefully what is present within the halls and work through this with your client prior to providing the scope of works to Aztech whom will indicate what is possible to clean and what is not. Cleaning of equipment and structures in addition to the building structure will add significant time and cost. I can provide further advice / input on this issue if required but the take home message must be that the lead dust remediation scope is very clear between client and contractor.

Regards,

[redacted]

Senior Environmental Consultant & ACT Manager

**Safe Work and Environments Pty Ltd**

PO Box 230, Dickson ACT 2602

[redacted]

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---

**From:** Schedule 2.2(a)(ii) [redacted]  
**Sent:** Wednesday, 20 January 2021 2:33 PM  
**To:** Schedule 2.2(a)(ii) [redacted]  
**Cc:** Schedule 2.2(a)(ii) [redacted]  
[redacted]  
**Subject:** Kingston Old Bus Depot - Lead Dust Assessment

Hi [redacted],

As discussed onsite, can you provide a response on the below:

- Can you confirm that as long as we do not disturb the dust, there is minimal risk to workers working inside the building. We will stop works if the air monitors have high reading
- Can you confirm we should do a thorough clean of the building using a top down approach (not just the elevated surfaces)
- Can you provide us a quote for the air monitoring for today and tomorrow?
- Aztech indicated that it would take them two weeks to complete the cleaning works. Can you provide us a quote for the air monitoring for that two weeks and clearance report?

Thank you again and please let me know if you have any question.

Kind Regards

[redacted]

Site Engineer

signature\_1255920663



T 02 6162 0232 | Schedule 2.2(a)(ii)

Schedule 2.2(a)(ii)

24 Lithgow St, Fyshwick ACT 2609

[www.monarchbuildingsolutions.com.au](http://www.monarchbuildingsolutions.com.au) |

Graphical user interface Description automatically generated





**From:** [McNamara, Conor](#)  
**To:** [Schedule 2.2\(a\)\(ii\)](#)  
**Cc:** [Barisic, Natalie](#); [Collins, Jen](#); [Ozols, Peter](#); [Schedule 2.2\(a\)\(ii\)](#); [Wickman, Dani](#); [Whitehouse, Michael](#)  
**Subject:** RE: Kingston Old Bus Depot - Lead Dust Assessment  
**Date:** Thursday, 21 January 2021 10:59:29 AM  
**Attachments:** [Worksafe regs.pdf](#)  
[image001.png](#)  
[image002.png](#)  
[image003.png](#)  
[image004.jpg](#)

---

OFFICIAL

Hi [Schedule 2.2\(a\)\(ii\)](#),

Worksafe advise as follows referencing attached Worksafe regs;

- Reference item 7.2 page 329. This references item 7.1,
- As best as I can establish all actions have been addressed or are currently being addressed as stated in 7.2. Please review and double check,
- It is not apparent that there is a Worksafe of Safe Work Australia best practice document.

Regards Conor

---

**From:** McNamara, Conor  
**Sent:** Thursday, 21 January 2021 9:44 AM  
**To:** [Schedule 2.2\(a\)\(ii\)](#)  
**Cc:** [Barisic, Natalie](#) <[Natalie.Barisic@act.gov.au](mailto:Natalie.Barisic@act.gov.au)>; [Collins, Jen](#) <[Jen.Collins@act.gov.au](mailto:Jen.Collins@act.gov.au)>; [Ozols, Peter](#) <[Peter.Ozols@act.gov.au](mailto:Peter.Ozols@act.gov.au)>; [Schedule 2.2\(a\)\(ii\)](#); [Wickman, Dani](#) <[Dani.Wickman@act.gov.au](mailto:Dani.Wickman@act.gov.au)>; [Whitehouse, Michael](#) <[Michael.Whitehouse@act.gov.au](mailto:Michael.Whitehouse@act.gov.au)>  
**Subject:** RE: Kingston Old Bus Depot - Lead Dust Assessment

OFFICIAL

Hi [Schedule 2.2\(a\)\(ii\)](#),

I have spoken to Capital Pathology corporate re blood testing. Would you please facilitate the activation of blood testing please as follows;

- Capital pathology corporate current contact is [Schedule 2.2\(a\)\(ii\)](#); [Schedule 2.2\(a\)\(ii\)](#) normally looks after corporate section, back Wednesday 27<sup>th</sup> Jan,
- Email address [corporate.services@capitalpath.com.au](mailto:corporate.services@capitalpath.com.au) Ph 62859898.
- Details of blood test type required. [Schedule 2.2\(a\)\(ii\)](#) should be able to provide,
- Billing address,
- Number of people to be tested including KBD and ACT Government staff of other people that may have been exposed to lead dust,
- Worksafe are getting back to me on procedure and best practice. They were not sure but suggested environmental consultant is best qualified to provide advise.
- Capital Pathology will provide costing.

Would you action immediately please.

Regards Conor

---

**From:** Gary Morgan <[Gary@monarchbuildingsolutions.com.au](mailto:Gary@monarchbuildingsolutions.com.au)>  
**Sent:** Wednesday, 20 January 2021 3:32 PM  
**To:** McNamara, Conor <[Conor.McNamara@act.gov.au](mailto:Conor.McNamara@act.gov.au)>  
**Cc:** [Barisic, Natalie](#) <[Natalie.Barisic@act.gov.au](mailto:Natalie.Barisic@act.gov.au)>  
**Subject:** FW: Kingston Old Bus Depot - Lead Dust Assessment  
**Importance:** High

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Conor,

Lead dust risk assessment for Kingston depot

[Schedule 2.2\(a\)\(ii\)](#)

Schedule 2.2(a)(ii)

From: Schedule 2.2(a)(ii)

Sent: Wednesday, 20 January 2021 3:23 PM

To: Schedule 2.2(a)(ii)

Subject: RE: Kingston Old Bus Depot - Lead Dust Assessment

Importance: High

Dear Schedule 2.2 et.al.,

In consideration of the testing undertaken to date please see the below conclusions & recommendations in regard to the lead dust exposure risk and remedial works within the Old Bus Depot halls:

- All settled dusts within the upper and lower halls of the old bus depot are considered to be lead containing dusts.
- Further sampling could be used to delineate some areas as not containing lead, however I think this outcome is unlikely based on existing results and site observations.
- It is my professional opinion that the old bus depot halls present a negligible lead exposure risk provided the following is adhered to:
  - There is no contact with settled dusts by site personnel,
  - There is no disturbance of settled dusts within the halls, for example:
    - No potentially dust disturbing activities are undertaken (e.g. use of compressed air, sweeping, cleaning etc.)
    - Eliminate vehicle movements within the halls,
    - Doors are kept closed to minimise air movement.
  - Site personnel observe good hygiene practices and wash thoroughly prior to meal breaks.
  - Site personnel do not eat, drink or take meal breaks in halls.
- Air monitoring for airborne lead should be undertaken within the halls while ever site personnel are present to demonstrate the absence of an airborne lead risk to those staff / contractors.
- In the event that elevated concentrations of lead in airborne dust be detected, all site activities must stop and the above will be revised.
- Air monitoring for airborne lead will be analysed on same-day laboratory turnaround time (TAT) which provides results by COB the day after sampling; this is the quickest possible way to obtain results.
- The day rate including site time, sample analysis and reporting for airborne lead (5 x sample locations + field blank) [redacted]
- For the purpose of estimating the cost of air monitoring during the remediation phase, please apply the day rate to the Aztech schedule for the lead dust remediation works.
- A clearance assessment cost estimate is based on the below rates / fees:
  - Schedule 2.2(a)(xiii) [redacted]
  - [redacted]
  - [redacted]
  - [redacted]

**Lead dust removal considerations:**

Please note that there is a significant amount of private property impacted by dust (food preparation equipment amongst it). There is a significant amount of porous materials present too, and generally it is not possible to remediate porous items which are usually disposed of as lead waste. Please consider carefully what is present within the halls and work through this with you client prior to providing the scope of works to Aztech whom will indicate what is possible to clean and what is not. Cleaning of equipment and structures in addition to the building structure will add significant time and cost. I can provide further advice / input on this issue if required but the take home message must be that the lead dust remediation scope is very clear between client and contractor.

Regards,

Schedule 2.2(a)(ii)

Senior Environmental Consultant & ACT Manager

**Safe Work and Environments Pty Ltd**

PO Box 230, Dickson ACT 2602

Schedule 2.2(a)(ii)

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---

**From:** Schedule 2.2(a)(ii)

**Sent:** Wednesday, 20 January 2021 2:33 PM

**To:** [Redacted]

**Cc:** Schedule 2.2(a)(ii)

[Redacted]

**Subject:** Kingston Old Bus Depot - Lead Dust Assessment

Hi [Redacted],

As discussed onsite, can you provide a response on the below:


- Can you confirm that as long as we do not disturb the dust, there is minimal risk to workers working inside the building. We will stop works if the air monitors have high reading
- Can you confirm we should do a thorough clean of the building using a top down approach (not just the elevated surfaces)
- Can you provide us a quote for the air monitoring for today and tomorrow?
- Aztech indicated that it would take them two weeks to complete the cleaning works. Can you provide us a quote for the air monitoring for that two weeks and clearance report?

Thank you again and please let me know if you have any question.


Kind Regards

[Redacted]

Site Engineer

signature\_1255920663  


T 02 6162 0232 | Schedule 2.2(a)(ii)  
[Redacted]  
24 Lithgow St, Fyshwick ACT 2609  
[www.monarchbuildingsolutions.com.au](http://www.monarchbuildingsolutions.com.au) |

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**From:** Schedule 2.2(a)(ii)  
**To:** Schedule 2.2(a)(ii)  
**Subject:** C109358 - Atmospheric Lead monitoring report  
**Date:** Friday, 22 January 2021 5:58:52 PM  
**Attachments:** [C109358-PBM1.v1-LeadAirMonitoringReport-200121.pdf](#)  
**Importance:** High

---

Dear Schedule 2.2(a)(ii),

Please see attached the air monitoring report for the atmospheric lead sampling conducted on 20/01/2021 within the Old Bus Depot halls. The results were below detection limit for all sample locations (i.e. no lead was detected). This provides further confidence that there is not an airborne lead exposure risk in the Old Bus Depot halls under the current site conditions. I can provide the laboratory analysis report upon request.

Regards,

Schedule 2.2(a)(ii)

Senior Environmental Consultant & ACT Manager

**Safe Work and Environments Pty Ltd**

PO Box 230, Dickson ACT 2602

Schedule 2.2(a)(ii)

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**ATMOSPHERIC LEAD MONITORING REPORT  
C109358 / PBM1.v1 / 22.01.2021**

25 January 2021

**Attention:** [redacted] – Site Engineer  
**Company:** Monarch Building Solutions  
**Fax/email:** [redacted]

**SWE Project No.:** C109358  
**Sampling Date:** 22 January 2021  
**Site Address:** Old Bus Depot Building, 21 Wentworth Avenue, Kingston ACT

SAMPLE ID.	LOCATION OF SAMPLE	TIME ON	TIME OFF	FLOW (Litres/min)	Volume (m <sup>3</sup> )	Pb on filter (mg)	Result (mg/m <sup>3</sup> )
220120/IOM07	Lower hall, central southern end of hall	0809	1509	2.00	0.840	<0.001	<0.0012
220120/IOM08	Lower hall, central northern end of hall	0827	1512	2.00	0.810	<0.001	<0.0012
220120/IOM09	Iconic office in north corner of lower hall	0804	1510	2.00	0.852	<0.001	<0.0012
220120/IOM10	Upper hall, central south end of hall	0829	1515	2.00	0.812	<0.001	<0.0012
220120/IOM11	Upper hall, central north end of hall	0830	1516	2.00	0.812	<0.001	<0.0012
220120/IOM12	Field Blank.	-	-	-	-	<0.001	-

**Sampling Description:** Static monitoring for atmospheric lead was undertaken to assess the concentration of inhalable lead within airborne dusts following the discovery of lead dusts within the site building.

**Sampling Methodology:** Airborne lead monitoring was carried out in accordance with the Australian Standard: AS 3640-2009 – ‘Workplace Atmospheres Method for Sampling and Gravimetric Determination of Inhalable Dust’ and SWE’s In-House Method 2 – Air Volume Measurement.

**Analysis:** Laboratory analysis of the samples was undertaken by Envirolab Services in accordance with their NATA accredited methodology titled *Determination of various metals on filters by ICP-AES/MS and or CV/AAS*.

**Conclusion:** All air monitoring analytical results reported are below the detection limit for the laboratory method and the adopted Action Limit (50% of the exposure standard) of 0.025mg/m<sup>3</sup>. Furthermore, all results are below the maximum permissible Time Weighted Average (TWA) exposure standard of 0.05mg/m<sup>3</sup> as per the Safe Work Australia adopted guideline titled *Workplace Exposure Standards for Airborne Contaminants 2019*.

Please contact me via the undersigned details should you have any queries regarding this report.

[redacted]  
[redacted]  
[redacted]

Senior Environmental Consultant  
**Safe Work & Environments Pty Ltd**  
 [redacted]

C109358-PBM1.v1-LeadAirMonitoringReport-220121

**Safe Work and Environments Pty Ltd 88127010995**  
 Suite S1, 25 Dickson Chambers, Dickson Place, Dickson ACT 2602  
 Phone: 02 6247 0022  
 Email: [enquiries@swe.com.au](mailto:enquiries@swe.com.au)

**From:** Schedule 2.2(a)(ii)  
**To:** [McNamara, Conor](#); [Barisic, Natalie](#)  
**Cc:** Schedule 2.2(a)(ii)  
**Subject:** Fwd: C109358 - Atmospheric Lead monitoring report  
**Date:** Friday, 22 January 2021 6:10:12 PM  
**Attachments:** [C109358-PBM1.v1-LeadAirMonitoringReport-200121.pdf](#)

---

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Conor,

Air monitoring results

Schedule 2.2(a)(ii)

[Redacted]

[Redacted]

[Redacted]

Sent from my iPad

Begin forwarded message:

**From:** Schedule 2.2(a)(ii)  
**Date:** 22 January 2021 at 5:58:52 pm AEDT  
**To:** Schedule 2.2(a)(ii)  
**Subject:** C109358 - Atmospheric Lead monitoring report

Dear Schedule 2.2(a)(ii),

Please see attached the air monitoring report for the atmospheric lead sampling conducted on 20/01/2021 within the Old Bus Depot halls. The results were below detection limit for all sample locations (i.e. no lead was detected). This provides further confidence that there is not an airborne lead exposure risk in the Old Bus Depot halls under the current site conditions. I can provide the laboratory analysis report upon request.

Regards,

Schedule 2.2(a)(ii)

Senior Environmental Consultant & ACT Manager

**Safe Work and Environments Pty Ltd**

PO Box 230, Dickson ACT 2602

Schedule 2.2(a)(ii)

**Schedule 2.2(a)(ii)**

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**From:** [redacted]  
**To:** [Collins Jen](#)  
**Cc:** [Ozols Peter](#); [Dawson Helene](#); [McNamara Conor](#); [Gordon Libby](#); [Barisic Natalie](#); [Wickman Dani](#); [redacted]  
**Subject:** RE: Hygienist email  
**Date:** Saturday, 23 January 2021 12:10:48 PM  
**Attachments:** [image002.png](#)  
[image003.png](#)  
[image004.png](#)  
[RE Kingston Old Bus Depot - Recommendations on Blood Testing and Contaminated Equipment msg C109358 - Atmospheric Lead monitoring report .msg](#)

**CAUTION:** This email originated from outside of the ACT Government. Do not click links or open attachments unless you recognise the sender and know the content is safe.

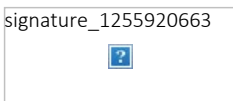
Hi all,

Please see attached email from [redacted] regarding the blood testing and cleaning scope of works. Attached also is an email from [redacted] advising the air monitoring results on 20/1/2021 were below detection limit.

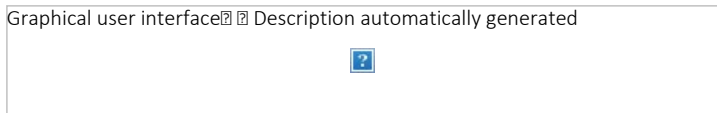
Should you have any question, please do not hesitate to contact me.

Kind Regards

[redacted]  
Site Engineer



T 02 6162 0232 | [Schedule 2.2\(a\)\(ii\)](#)  
[redacted]  
24 Lithgow St, FYSHWICK ACT 2609  
[www.monarchbuildingsolutions.com.au](http://www.monarchbuildingsolutions.com.au) | [ ] [ ]



**From:** Collins, Jen <Jen.Collins@act.gov.au>  
**Sent:** Friday, 22 January 2021 4:06 PM  
**To:** [Schedule 2.2\(a\)\(ii\)](#)  
**Cc:** [Ozols, Peter](#) <Peter.Ozols@act.gov.au>; [Dawson, Helene](#) <Helene.Dawson@act.gov.au>; [McNamara, Conor](#) <Conor.McNamara@act.gov.au>; [Gordon, Libby](#) <Libby.Gordon@act.gov.au>; [Barisic, Natalie](#) <Natalie.Barisic@act.gov.au>; [Wickman, Dani](#) <Dani.Wickman@act.gov.au>  
**Subject:** Hygienist email  
**Importance:** High

OFFICIAL

Hi [redacted],  
As discussed today, could we please get the email sent this morning from [redacted] the hygienist for preliminary reporting please.

Cheers,

Jen.

Jen Collins | Assistant Director, Infrastructure - artsACT (Monday - Wednesday & Friday)  
Economic Development | Chief Minister, Treasury and Economic Development | **ACT Government**  
Phone 02 6205 4001 | Email mail to: [jen.collins@act.gov.au](mailto:jen.collins@act.gov.au)  
Level 4 Canberra Nara Centre, 1 Constitution Avenue Canberra City | GPO Box 158 Canberra ACT 2601

I acknowledge the Traditional Custodians of the ACT and the Aboriginal and Torres Strait Islander peoples from other nations and their ongoing connections to Country. I pay my respects to them and their cultures, and to their Elders past, present and emerging.



-----  
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-----



**From:** [REDACTED]  
**Subject:** RE: Kingston Old Bus Depot - Recommendations on Blood Testing and Contaminated Equipment  
**Date:** Friday, 22 January 2021 11:37:56 AM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image003.png](#)  
[image004.jpg](#)  
**Importance:** High

---

Dear [REDACTED],

Advice regarding lead blood testing is specifically linked to the information in Chapter 7.2 of the WH&S regulations: I have reproduced the relevant sections below for you and your clients interpretation when considering whom must have blood testing, my opinion is summarised at the end of the reproduced regulations (in blue):

## Division 1 Lead process

### 392 Meaning of lead process

In this Part, a *lead process* consists of any of the following carried out at a workplace:

- (a) work that exposes a person to lead dust or lead fumes arising from the manufacture or handling of dry lead compounds;

### 393 Regulator may decide lead process

- (1) The regulator may decide that a process to be carried out at a workplace is a lead process.
- (2) The regulator must not decide that the process is a lead process unless the regulator is satisfied on reasonable grounds that the process creates a risk to the health of a worker at the workplace having regard to blood lead levels of workers, or airborne lead levels, at the workplace.

*Note* A decision that a process is a lead process is a reviewable decision (see regulation 676)

- (3) The regulator must, within 14 days after a decision is made under subregulation (1), give written notice of the decision to the person conducting a business or undertaking at the workplace.

### 394 Meaning of lead risk work

In this Part, *lead risk work* means work carried out in a lead process that is likely to cause the blood lead level of a worker carrying out the work to exceed:

- (a) for a female of reproductive capacity — 10µg/dL (0.48µmol/L); or
- (b) in any other case — 30µg/dL (1.45µmol/L).

## Division 3 Lead risk work

### 402 Identifying lead risk work

- (1) A person conducting a business or undertaking at a workplace must assess each lead process carried out by the business or undertaking at the workplace to determine if lead risk work is carried out in the process.
- (2) In assessing a lead process, the person must have regard to the following:
  - (a) past biological monitoring results of workers;
  - (b) airborne lead levels;
  - (c) the form of lead used;
  - (d) the tasks and processes required to be undertaken with lead;
  - (e) the likely duration and frequency of exposure to lead;
  - (f) possible routes of exposure to lead;
  - (g) any information about incidents, illnesses or diseases in relation to the use of lead at the workplace.
- (3) In assessing a lead process, the person must not have regard to the effect of using personal protective equipment on the health and safety of workers at the workplace.
- (4) If a person conducting a business or undertaking at a workplace is unable to determine whether lead risk work is carried out in a lead process at the workplace, the process is taken to include lead risk work until the person determines that lead risk work is not carried out in the process.

## Division 4 Health monitoring

### 405 Duty to provide health monitoring before first commencing lead risk work

- (1) A person conducting a business or undertaking at a workplace must ensure that health monitoring is provided to a

worker:

- (a) before the worker first commences lead risk work for the person; and
  - (b) 1 month after the worker first commences lead risk work for the person.
- (2) If work is identified as lead risk work after a worker commences the work, the person conducting the business or undertaking must ensure that health monitoring of the worker is provided:
- (a) as soon as practicable after the lead risk work is identified; and
  - (b) 1 month after the first monitoring of the worker under paragraph (a).

As per 405 (2), the PCBU is obligated to provide health monitoring to anyone whom has undertaken lead process work or lead risk work (commenced prior to knowledge of the lead risk) as soon as practical, and 1 month after the first blood test.

The definition of lead risk work is linked to the probability of the work impacting on a person's lead blood level. I do not have any solid foundation to provide insight as to whether the various activities undertaken within the old bus depot halls would meet the definition of lead risk work. As such I refer to 392 (a) as an activity considered lead process work, and recommend that the following persons be offered blood testing as per 405 (2):

- As a general statement - those who have been involved in activities within the Old Bus Depot Halls that have involved the handling of dusts, or those whom have been exposed potentially airborne lead containing dusts including:
  - persons whom worked on re-roofing the building,
  - persons whom worked below or adjacent to the re-roofing works, or were present when dust disturbing activities were taking place,
  - cleaners
  - any trades that have been involved in the removal and installation of interior fittings.
  - Site users / contractors at the site prior to the MBS works that may undertaken works that required contact with lead dust contaminated surfaces, or dust generating activities.
  - Please note: I do not consider previous market staff and patrons walking in and out of the building as those whom may have been exposed.

This list may be added to when the broader range of tasks completed in the building are catalogued.

As per our site discussions, the retention and disposal of items within the old Bus Depot halls that have been impacted by dust should be kept simple as possible:

- porous items cannot be validated – dispose
- non-porous items can be validated – clean and retain is desired.
- Where items (such as coffee machine) are largely non-porous but have some small penetrations: these items can be cleaned and returned under conditional clearance, noting that all “visible accessible” dust has been removed. The clearance will not cover the internal componentry which is not accessible to clean without dismantling an object.

I hope the above is clear, please call to clarify any points should you need to.

Regards,

Schedule 2.2(a)(ii)

Senior Environmental Consultant & ACT Manager

#### Safe Work and Environments Pty Ltd

PO Box 230, Dickson ACT 2602

Schedule 2.2(a)(ii)

[www.swe.com.au](http://www.swe.com.au)

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**From:** Schedule 2.2(a)(ii)

**Sent:** Thursday, 21 January 2021 12:55 PM

**To:** Schedule 2.2(a)(ii)

**Subject:** Kingston Old Bus Depot - Recommendations on Blood Testing and Contaminated Equipment

Hi

As discussed, can you provide us some recommendations on the below:

- Blood testing: are you in a position to advise what is the extent of testing we should conduct (e.g. workers who undertook work close to lead dust areas, people who have spent a long period of time in the building or anyone who has visited the building in last 5-10 years)?
- Existing equipment in food court: what is your opinion on cleaning the equipment? Is it possible to clean them or we have to dispose them as lead contaminated items?

Thank you and please let me know if you have any question.

Kind Regards

Schedule 2.2(a)(ii)

Site Engineer

T 02 6162 0232 | Schedule 2.2(a)(ii)

signature\_1255920663

24 Lithgow St, Fyshwick ACT 2609

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**From:** [McNamara, Conor](#)  
**To:** [Whitehouse, Michael](#)  
**Cc:** [Power, Rebecca](#); [Barisic, Natalie](#)  
**Subject:** FW: Kingston Depot C109358 - Lead dust advice: Old Bus Depot halls  
**Date:** Monday, 25 January 2021 12:57:40 PM  
**Attachments:** [C109358 - Letter of Advice - Old Bus Depot Halls Lead Dust.pdf](#)  
**Importance:** High

---

OFFICIAL

Hi Michael,

See attached Lead Dust Identification, Remediation & Health Implications advise provided as requested by contractor/consultant hygienist. Content of report captures all correspondence, reporting and testing to date. Please advise if you require any further intel for a broader audience or communication content.

I am having teams 1:30pm meeting with artsACT to review all.

Regards Conor

---

**From:** [Schedule 2.2\(a\)\(ii\)](#)  
**Sent:** Monday, 25 January 2021 12:22 PM  
**To:** McNamara, Conor <Conor.McNamara@act.gov.au>; Barisic, Natalie <Natalie.Barisic@act.gov.au>; Collins, Jen <Jen.Collins@act.gov.au>  
**Cc:** [Schedule 2.2\(a\)\(ii\)](#)  
**Subject:** FW: Kingston Depot C109358 - Lead dust advice: Old Bus Depot halls  
**Importance:** High

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Conor,

Attached is the formal report from the hygienist regarding lead dust

Secondly I have spoken to my directors and Monarch will be facilitating blood tests for those effected at Kingston Bus depot and Megalo roof as a precaution

[Schedule 2.2\(a\)\(ii\)](#)

---

**From:** [Schedule 2.2\(a\)\(ii\)](#)  
**Sent:** Monday, 25 January 2021 12:15 PM  
**To:** [Schedule 2.2\(a\)\(ii\)](#)

Cc: Schedule 2.2(a)(ii)

Subject: C109358 - Lead dust advice: Old Bus Depot halls

Importance: High

Dear Schedule 2.2(a)(ii)

Please see attached the formalised advice (in letter form) regarding the lead assessment and recommendations for the Old Bus Depot site provided to date.

Please review and pass onto your client for circulation when satisfied. Please get in touch if you have any queries, noting I will be on leave between 26/01/2021 and 03/02/2021. In my absence please contact SWE Director and principal occupational hygienist Schedule 2.2(a)(ii) (Cc'd and Schedule 2.2(a)(ii)).

Regards,

Schedule 2.2(a)(ii)

Senior Environmental Consultant & ACT Manager

**Safe Work and Environments Pty Ltd**

PO Box 230, Dickson ACT 2602

Schedule 2.2(a)(ii)

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**From:** Schedule 2.2(a)(ii)  
**To:** [McNamara, Conor](#); [Barisic, Natalie](#); [Collins, Jen](#)  
**Cc:** Schedule 2.2(a)(ii)  
**Subject:** FW: C109358 - Atmospheric Lead monitoring report - 22/01/21  
**Date:** Monday, 25 January 2021 3:29:30 PM  
**Attachments:** [C109358-PBM1.v1-LeadAirMonitoringReport-220121.pdf](#)  
**Importance:** High

---

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Conor,

Third and final lead air monitoring report

Schedule 2.2(a)(ii)

---

**From:** Schedule 2.2(a)(ii)

**Sent:** Monday, 25 January 2021 3:21 PM

**To:** Schedule 2.2(a)(ii)

**Subject:** RE: C109358 - Atmospheric Lead monitoring report - 22/01/21

**Importance:** High

Dear Schedule 2.2(a)(ii),

Please see attached the third and final lead air monitoring report for the sampling undertaken within the Old Bus Depot site on 22/01/2021. As per the results for the two preceding days of sampling the concentration of atmospheric lead was below detection limit for all sample locations.

Regards,

Schedule 2.2(a)(ii)

Senior Environmental Consultant & ACT Manager

**Safe Work and Environments Pty Ltd**

PO Box 230, Dickson ACT 2602

Schedule 2.2(a)(ii)

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**From:** Schedule 2.2(a)(ii)  
**Sent:** Monday, 25 January 2021 1:45 PM  
**To:** Schedule 2.2(a)(ii)  
**Subject:** RE: C109358 - Atmospheric Lead monitoring report - 21/01/21

Dear Schedule 2.2(a)(ii),

Please see attached the lead air monitoring report for the sampling undertaken within the Old Bus Depot site on 21/01/2021. As per the 20/01/2021 results, The concentration of atmospheric lead was below detection limit for all sample locations.

Regards,

Schedule 2.2(a)(ii)  
Senior Environmental Consultant & ACT Manager

**Safe Work and Environments Pty Ltd**

PO Box 230, Dickson ACT 2602

Schedule 2.2(a)(ii)

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---

**From:** Schedule 2.2(a)(ii)  
**Sent:** Friday, 22 January 2021 5:59 PM  
**To:** Schedule 2.2(a)(ii)  
**Subject:** C109358 - Atmospheric Lead monitoring report  
**Importance:** High

Dear Schedule 2.2(a)(ii),

Please see attached the air monitoring report for the atmospheric lead sampling conducted on 20/01/2021 within the Old Bus Depot halls. The results were below detection limit for all sample locations (i.e. no lead was detected). This provides further confidence that there is not an airborne lead exposure risk in the Old Bus Depot halls under the current site conditions. I can provide the laboratory analysis report upon request.

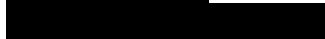
Regards,

Schedule 2.2(a)(ii)  
Senior Environmental Consultant & ACT Manager

**Safe Work and Environments Pty Ltd**

PO Box 230, Dickson ACT 2602

Schedule 2.2(a)(ii)



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**From:** [redacted]  
**To:** [McNamara, Conor](#)  
**Cc:** [Barisic, Natalie](#); [redacted]  
**Subject:** Re: Old Kingston Bus Depot - Active Certification Audit - 22/01/2021  
**Date:** Thursday, 28 January 2021 5:46:12 PM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image003.png](#)  
[image004.jpg](#)

---

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Yes

[redacted]

[redacted]

[redacted]

[redacted]

Sent from my iPad

On 28 Jan 2021, at 2:51 pm, McNamara, Conor  
<[Conor.McNamara@act.gov.au](mailto:Conor.McNamara@act.gov.au)> wrote:

OFFICIAL

Thanks [redacted],

Has this been issued to auditor?

Regards Conor

---

**From:** [redacted]  
**Sent:** Thursday, 28 January 2021 9:19 AM  
**To:** McNamara, Conor <[Conor.McNamara@act.gov.au](mailto:Conor.McNamara@act.gov.au)>; Barisic, Natalie  
<[Natalie.Barisic@act.gov.au](mailto:Natalie.Barisic@act.gov.au)>  
**Cc:** [redacted]  
**Subject:** FW: Old Kingston Bus Depot - Active Certification Audit - 22/01/2021

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For your information

[redacted]

Schedule 2.2(a)(ii)

From: Schedule 2.2(a)(ii) >

Sent: Thursday, 28 January 2021 9:17 AM

To: Schedule 2.2(a)(ii)

Subject: Old Kingston Bus Depot - Active Certification Audit - 22/01/2021

Hello Schedule 2.2(a)(ii),

Please find the attached evidence required from the Active Certification Audit you conducted at the Old Kingston Bus Depot on the 22/01/2021 as follows:

- MBS Project Management Plan (with updated document history) – Schedule 2.2(a)(ii), **please attach copy I sent you this morning (signed off)**
- Risk Register – reference to lead dust (page 19) **Note; PMP section 4.17.16 Lead Paint Removal has more detail on managing lead removal works.**
- Weekly Site Inspections/ Toolbox Meetings (most recent) – **Site Managers Weekly Inspection + Toolbox Meetings**
- Number of Personnel Site Inducted (to date) - **203**
- Recent SWMS + SWMS Review - **AZTECH**
- HR Plant Form – **Concept Cranes**
- Spot Audit (Task Observations)
- Emergency Evacuation Drill ( related to lead dust) – **Note: Site personnel notified of findings via Site Tool Box Meetings and SignOnSite Daily Briefing updates**
- Recent Site Induction Record of worker + competencies – Schedule 2.2(a)(ii)
- Incident Notification/Investigation Report (scaffold incident).

Regards,

Schedule 2.2(a)(ii)

WHSEQ Manager

<image001.png>

T 02 6162 0232 | Schedule 2.2(a)(ii)

24 Lithgow St, Fyshwick ACT 2609

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<image002.png>

<image003.png>

<image004.jpg>

**From:** [Collins, Jen](#)  
**To:** [McNamara, Conor](#)  
**Cc:** [Barisic, Natalie](#); [Gordon, Libby](#)  
**Subject:** FW: FTD Lead Dust dot points  
**Date:** Tuesday, 2 February 2021 11:05:49 AM  
**Attachments:** [Former Transport Depot - Lead Dust Dotties.docx](#)  
[image001.jpg](#)

---

OFFICIAL: Sensitive

Hi Conor,  
Could you review these dot points for accuracy? Once reviewed, we will use them to provide background to CMTEDD Comms, and you might do the same as discussed for MPC Comms?  
Cheers,  
Jen.

---

**From:** Collins, Jen  
**Sent:** Wednesday, 27 January 2021 9:32 AM  
**To:** McNamara, Conor <Conor.McNamara@act.gov.au>  
**Cc:** Gordon, Libby <Libby.Gordon@act.gov.au>  
**Subject:** FTD Lead Dust dot points

OFFICIAL: Sensitive

Hi there Conor,  
As discussed on Monday, we have drafted a high level summary of the FTD lead dust situation for comms purposes – could you review before we distribute further?  
Cheers,  
Jen.

Jen Collins | Assistant Director, Infrastructure - artsACT (Monday - Wednesday & Friday)  
Economic Development | Chief Minister, Treasury and Economic Development | **ACT Government**  
**Phone 02 6205 4001** | Email mail to: [jen.collins@act.gov.au](mailto:jen.collins@act.gov.au)  
Level 4 Canberra Nara Centre, 1 Constitution Avenue Canberra City | GPO Box 158 Canberra ACT 2601

I acknowledge the Traditional Custodians of the ACT and the Aboriginal and Torres Strait Islander peoples from other nations and their ongoing connections to Country. I pay my respects to them and their cultures, and to their Elders past, present and emerging.



**From:** [Collins Jen](#)  
**To:** [McNamara Conor](#)  
**Cc:** [Barisic Natalie](#); [Gordon Libby](#)  
**Subject:** FW: Kingston Old Bus Depot Repairs - Blood Test for Lead  
**Date:** Tuesday, 2 February 2021 3:59:12 PM  
**Attachments:** [image001.png](#)  
[image011.png](#)  
[image012.png](#)  
[image013.jpg](#)

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OFFICIAL

Hi Conor,

I was just reviewing this prior to sending onto OBDM as discussed in the meeting today, but I noticed that the email from Monarch is the one they have sent out to a subcontractor with their email address etc. I don't think it's appropriate to forward this on to OBDM. Could you request a de-personalised version which we can distribute as necessary?

Happy to discuss, thanks,

Jen.

---

**From:** Schedule 2.2(a)(ii)  
**Sent:** Monday, 1 February 2021 8:47 AM  
**To:** McNamara, Conor <[Conor.McNamara@act.gov.au](mailto:Conor.McNamara@act.gov.au)>  
**Cc:** Schedule 2.2(a)(ii); Barisic, Natalie <[Natalie.Barisic@act.gov.au](mailto:Natalie.Barisic@act.gov.au)>; Collins, Jen <[Jen.Collins@act.gov.au](mailto:Jen.Collins@act.gov.au)>  
**Subject:** RE: Kingston Old Bus Depot Repairs - Blood Test for Lead

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Morning Conor,

1. Currently the timeframe is 3 month (30/4/2021)
2. All results will be sent to Schedule 2.2(a)(ii) at Monarch first and then distributed to their employer

Kind Regards

Schedule 2.2(a)(ii)

Site Engineer

signature\_1255920663



T 02 6162 0232 | Schedule 2.2(a)(ii)

24 Lithgow St, FYSHWICK ACT 2609

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**From:** McNamara, Conor <[Conor.McNamara@act.gov.au](mailto:Conor.McNamara@act.gov.au)>  
**Sent:** Monday, 1 February 2021 7:43 AM  
**To:** Schedule 2.2(a)(ii); Barisic, Natalie <[Natalie.Barisic@act.gov.au](mailto:Natalie.Barisic@act.gov.au)>; Collins, Jen <[Jen.Collins@act.gov.au](mailto:Jen.Collins@act.gov.au)>  
**Subject:** RE: Kingston Old Bus Depot Repairs - Blood Test for Lead

OFFICIAL

Thanks Schedule 2.2(a)(ii),

I will forward to ACT Government and KBD staff that have entered KBD/Megalo during construction. Couple of questions;

1. Time frame for arranging blood tests,
2. Who has visibility of blood test results,

Regards Conor

---

**From:** Schedule 2.2(a)(ii) [redacted]  
**Sent:** Friday, 29 January 2021 3:26 PM  
**To:** McNamara, Conor <[Conor.McNamara@act.gov.au](mailto:Conor.McNamara@act.gov.au)>  
**Cc:** Schedule 2.2(a)(ii) [redacted]  
**Subject:** FW: Kingston Old Bus Depot Repairs - Blood Test for Lead

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Conor,

Below is the mass email we sent out to all the contractors who have worked onsite. Please let me know if you have any question.

Kind Regards

Schedule 2.2(b)(1) [redacted]  
Site Engineer

signature\_1255920663



T 02 6162 0232 | Schedule 2.2(a)(ii) [redacted]

[redacted]  
24 Lithgow St, Fyshwick ACT 2609

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**From:** Schedule 2.2(a)(1) [redacted]  
**Sent:** Wednesday, 27 January 2021 10:38 AM  
**To:** Schedule 2.2(a)(ii) [redacted]  
[redacted]  
[redacted]  
**Subject:** Kingston Old Bus Depot Repairs - Blood Test for Lead

Morning Schedule 2.2(a)(ii) [redacted],

Lead dust has been identified at elevated surfaces in Kingston Old Bus Depot. Monarch have subsequently undertaken air monitoring at multiple locations within the building and all results were below the detection limit. However, as a precaution, Monarch offer blood test to workers that have worked for the above-mentioned project.

Should you and your workers wish to have a blood test, please notify us, print and complete the attached form and make a booking with one of the Capital Pathology collection centres on Page 2. The result will be forwarded to you once available.

Attached is also a report of lead dust identification, remediation and health implications from our hygienist and the air monitoring results for your information.

Should you have any question, please do not hesitate to contact me.

Kind Regards

Schedule 2.2(b)(1) [redacted]  
Site Engineer

signature\_1255920663



T 02 6162 0232 | Schedule 2.2(a)(ii) [redacted]

[redacted]  
24 Lithgow St, Fyshwick ACT 2609

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**From:** [redacted]  
**To:** [Barisic, Natalie](#); [McNamara, Conor](#)  
**Subject:** FW: Kingston Old Bus Depot - Lead Dust Result  
**Date:** Wednesday, 3 February 2021 11:30:00 AM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image003.png](#)  
[image004.jpg](#)

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Natalie/ Conor,

We are chasing down Robsons report

[redacted]

---

**From:** [redacted]  
**Sent:** Wednesday, 3 February 2021 11:00 AM  
**To:** [redacted]  
**Subject:** RE: Kingston Old Bus Depot - Lead Dust Result

Hi [redacted],

We are meeting our clients this afternoon. They are expecting a report from you so that they can decide what arrangements need to be put in place to move forward. Thank you and please let me know if you have any question.

Kind Regards

[redacted]  
Site Engineer

signature\_1255920663



T 02 6162 0232 | [redacted]

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**From:** [redacted]  
**Sent:** Tuesday, 2 February 2021 9:05 PM  
**To:** [redacted]  
**Subject:** Re: Kingston Old Bus Depot - Lead Dust Result

Hi [redacted],

Sorry for the delay. The results have been received. Some are high. I will advise in the morning which sample locations.

Thank you

[redacted]

T

Sent from my iPhone

On 2 Feb 2021, at 18:38, [redacted] > wrote:

H [redacted],

Still waiting on the lead dust result. Are you able to confirm if we can have them today and the report by noon tomorrow?  
Thank you.

Kind Regards

[redacted]  
Site Engineer

<image001.png>

T 02 6162 0232 | [Schedule 2.2\(a\)\(ii\)](#)  
[redacted]  
24 Lithgow St, Fyshwick ACT 2609  
[www.monarchbuildingsolutions.com.au](http://www.monarchbuildingsolutions.com.au) |  
<image002.png>  
<image003.png>

<image004.jpg>

**From:** [McNamara, Conor](#)  
**To:** [Whitehouse, Michael](#)  
**Cc:** [Barisic, Natalie](#)  
**Subject:** FW: T10589 - Bus Depot Markets - Preliminary Report on analysis of dust samples for lead  
**Date:** Wednesday, 3 February 2021 2:50:55 PM  
**Attachments:** [image001.png](#)  
[image004.png](#)  
[image005.png](#)  
[image002.png](#)  
[image003.png](#)  
[image006.png](#)  
[image007.jpg](#)  
[T10589\\_OldBusDepot\\_LeadSwabs\\_202101211.xlsx](#)

---

OFFICIAL

Michael test results attached. Email chain below.

Regards Conor

---

**From:** McNamara, Conor  
**Sent:** Wednesday, 3 February 2021 2:41 PM  
**To:** [Schedule 2.2\(a\)\(ii\)](#)  
**Cc:** Barisic, Natalie <[Natalie.Barisic@act.gov.au](mailto:Natalie.Barisic@act.gov.au)>; Collins, Jen <[Jen.Collins@act.gov.au](mailto:Jen.Collins@act.gov.au)>; Gordon, Libby <[Libby.Gordon@act.gov.au](mailto:Libby.Gordon@act.gov.au)>  
**Subject:** FW: T10589 - Bus Depot Markets - Preliminary Report on analysis of dust samples for lead

OFFICIAL

Hi [Schedule 2.2\(a\)\(ii\)](#),

Thankyou

When do you expect to have complete report including what "remediation" methodology's will be will be for identified areas.

I am guessing at that we will not be this afternoon. Can you arrange to have Roberson on teams meeting please.

Regards Conor

---

**From:** Barisic, Natalie <[Natalie.Barisic@act.gov.au](mailto:Natalie.Barisic@act.gov.au)>  
**Sent:** Wednesday, 3 February 2021 2:23 PM  
**To:** McNamara, Conor <[Conor.McNamara@act.gov.au](mailto:Conor.McNamara@act.gov.au)>  
**Cc:** Collins, Jen <[Jen.Collins@act.gov.au](mailto:Jen.Collins@act.gov.au)>; Gordon, Libby <[Libby.Gordon@act.gov.au](mailto:Libby.Gordon@act.gov.au)>  
**Subject:** FW: T10589 - Bus Depot Markets - Preliminary Report on analysis of dust samples for lead

OFFICIAL

We have received the lead analysis.

Please see attached and below.

Thanks  
Nat

---

**From:** [Schedule 2.2\(a\)\(ii\)](#)  
**Sent:** Wednesday, 3 February 2021 2:09 PM  
**To:** Barisic, Natalie <[Natalie.Barisic@act.gov.au](mailto:Natalie.Barisic@act.gov.au)>  
**Cc:** [Schedule 2.2\(a\)\(ii\)](#)  
**Subject:** FW: T10589 - Bus Depot Markets - Preliminary Report on analysis of dust samples for lead

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Natalie,

Please see attached and below Robson lead analysis.

Kind Regards

[Schedule 2.2\(a\)\(ii\)](#)



Site Engineer

signature\_1255920663



T 02 6162 0232 | **Schedule 2.2(a)(ii)**  
**Schedule 2.2(a)(ii)**  
24 Lithgow St, Fyshwick ACT 2609  
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**From:** **Schedule 2.2(a)(ii)**

**Sent:** Wednesday, 3 February 2021 1:59 PM

**To:**

**Schedule 2.2(a)(ii)**

**Cc:**

**Schedule 2.2(a)(ii)**

**Subject:** FW: T10589 - Bus Depot Markets - Preliminary Report on analysis of dust samples for lead

Hi

The information below summarises our findings following the lead analysis of the surface dust samples collected on Monday 1 February 2021.

Attached is the a spreadsheet providing the sample numbers, the locations, lead concentrations in  $\text{mg}/\text{m}^2$  and associated assessment criteria concentration and the recommendations

The criteria used and supported by ACT Health;

Surface	Lead Dust Clearance Criteria Level
Areas representing interior high-contact surfaces	$<0.11 \text{ mg}/\text{m}^2$
Areas representing interior low-contact surfaces	$<1.08 \text{ mg}/\text{m}^2$

Recommendations summarised;

**Loft:** Remediate prior to use as floor concentrations are high.

**Lower Hall Rear and North Store and Food Court Areas:** Remediate prior to use as concentrations are high.

**Workshop Areas:** Remediate prior to use as concentrations are high.

**Foreshore Space:** Remediate prior to use as concentrations are high.

**Upper Hall floor and wall locations:** There is a mix of lead concentration results above and below the  $1.08 \text{ mg}/\text{m}^2$  criteria and therefore consideration should be given to remediate all area as delineation of acceptable and non-acceptable criteria is impracticable.

**Upper Hall flags:** Results are acceptable.

**Upper Hall air-conditioning units:** Remediate as concentrations are high.

**Upper Hall furniture and all store and storage areas:** Remediate as concentrations are high.

**Lower Hall wall locations:** There is a mix of lead concentration results above and below the  $1.08 \text{ mg}/\text{m}^2$  criteria and therefore consideration should be given to remediate all area as delineation of acceptable and non-acceptable criteria is impracticable.

**Lower Hall floor locations:** Remediate as concentrations are high.

A full report can be completed by Monday 8 February with plans and photographs.

Kind regards

Schedule 2.2

[Redacted]



Schedule 2.2(a)(ii)

**Managing Director**

BSc, Grad Dip OccHyg, Cert IV T&A, Licensed Asbestos

Assessor, BOHS W504

Phone: 02 6239 5656

Schedule 2.2(a)(ii)

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Best Practice Certification for AS/NZS ISO 9001:2008 - Quality ~ ISO 14001:2004 - OHS ~ AS/NZS

4801 2001 - Environment

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[Redacted]

Job number:																	Assessment	Recommendation
Sample Number	Sampler	Date Sampled	Building	Location	Surface / Item	Contact Frequency / Accessibility / Risk	Swab area				Weight on swab		Concentration on surface				Criteria	
							length (cm)	width (cm)	cm^2	m^2	µg/swab	mg/swab	µg/cm^2	µg/m^2	mg/cm^2	mg/m^2	mg/m^2	
G3120	N.C	28/01/2021	Old Bus Depot Megalo Building	North west kitchen area	Top of cupboard	Low	15	15	225	0.0225	8	0.008	0.036	355.56	0.000	0.36	1.08	Leave
G3121	N.C	28/01/2021	Old Bus Depot Megalo Building	Tenant work area	Top of ceiling tile	Low	15	15	225	0.0225	23	0.023	0.102	1022.22	0.000	1.02	1.08	Leave
G3122	N.C	28/01/2021	Old Bus Depot Megalo Building	South East kitchen area	Top of cupboard	Low	15	15	225	0.0225	7	0.007	0.031	311.11	0.000	0.31	1.08	Leave
G3123	N.C	28/01/2021	Old Bus Depot Megalo Building	Former disabled toilet	Ceiling space	Low	15	15	225	0.0225	65	0.065	0.289	2888.89	0.000	2.89	1.08	PPE required if accessed
J3001	JR & AL	01/02/2021	Old Bus Depot Megalo Building	Loft area	Concrete slab north	Low	15	15	225	0.0225	5600	5.6	24.889	24888.89	0.025	248.89	1.08	Remediate
J3002	JR & AL	01/02/2021	Old Bus Depot Megalo Building	Loft area	Concrete slab south	Low	15	15	225	0.0225	1100	1.1	4.889	4888.89	0.005	48.89	1.08	Remediate
J3003	JR & AL	01/02/2021	Old Bus Depot Megalo Building	Rear Store area	Bench top	High	15	15	225	0.0225	110	0.11	0.489	4888.89	0.000	4.89	0.11	Remediate
J3004	JR & AL	01/02/2021	Old Bus Depot Megalo Building	Rear Store area	Cabinet top	High	15	15	225	0.0225	160	0.16	0.711	7111.11	0.001	7.11	0.11	Remediate
J3005	JR & AL	01/02/2021	Old Bus Depot Megalo Building	Rear Store area	Box exterior surface	High	15	15	225	0.0225	83	0.083	0.369	3688.89	0.000	3.69	0.11	Remediate
J3006	JR & AL	01/02/2021	Old Bus Depot Megalo Building	Rear Store area	Box interior surface	High	15	15	225	0.0225	1	0.001	0.004	44.44	0.000	0.04	0.11	Nil
J3007	JR & AL	01/02/2021	Old Bus Depot Megalo Building	Rear Store area	Box exterior surface	High	15	15	225	0.0225	94	0.094	0.418	4177.78	0.000	4.18	0.11	Remediate
J3008	JR & AL	01/02/2021	Old Bus Depot Megalo Building	Rear Store area	Box interior surface	High	15	15	225	0.0225	1	0.001	0.004	44.44	0.000	0.04	0.11	Nil
J3009	JR & AL	01/02/2021	Old Bus Depot Megalo Building	Food Court Store	Food presentation cabinet	High	15	15	225	0.0225	100	0.1	0.444	4444.44	0.000	4.44	0.11	Remediate
J3010	JR & AL	01/02/2021	Old Bus Depot Megalo Building	Food Court Store	Wall hand towel dispenser	High	15	15	225	0.0225	110	0.11	0.489	4888.89	0.000	4.89	0.11	Remediate
J3011	JR & AL	01/02/2021	Old Bus Depot Megalo Building	Food Court Store	Perspex cover	High	15	15	225	0.0225	150	0.15	0.667	6666.67	0.001	6.67	0.11	Remediate
J3012	JR & AL	01/02/2021	Old Bus Depot Megalo Building	Food Court	Blue bench	High	15	15	225	0.0225	74	0.074	0.329	3288.89	0.000	3.29	0.11	Remediate
J3013	JR & AL	01/02/2021	Old Bus Depot Megalo Building	Food Court	Pink store white bench	High	15	15	225	0.0225	79	0.079	0.351	3511.11	0.000	3.51	0.11	Remediate
J3014	JR & AL	01/02/2021	Old Bus Depot Megalo Building	Food Court	Bain marie exterior cover	High	15	15	225	0.0225	62	0.062	0.276	2755.56	0.000	2.76	0.11	Remediate
J3015	JR & AL	01/02/2021	Old Bus Depot Megalo Building	Food Court	Bain marie interior tray	High	15	15	225	0.0225	26	0.026	0.116	1155.56	0.000	1.16	0.11	Remediate
J3016	JR & AL	01/02/2021	Old Bus Depot Megalo Building	Food Court	Bain marie exterior cover	High	15	15	225	0.0225	380	0.38	1.689	16888.89	0.002	16.89	0.11	Remediate
J3017	JR & AL	01/02/2021	Old Bus Depot Megalo Building	Food Court	Bain marie interior tray	High	15	15	225	0.0225	6	0.006	0.027	266.67	0.000	0.27	0.11	Remediate
J3018	JR & AL	01/02/2021	Old Bus Depot Megalo Building	Food Court	Refrigerator exterior cover	High	15	15	225	0.0225	4900	4.9	21.778	21777.78	0.022	217.78	0.11	Remediate
J3019	JR & AL	01/02/2021	Old Bus Depot Megalo Building	Food Court	Refrigerator interior shelf	High	15	15	225	0.0225	3	0.003	0.013	133.33	0.000	0.13	0.11	Remediate
J3020	JR & AL	01/02/2021	Old Bus Depot Megalo Building	Food Court	Refrigerator exterior enamel	High	15	15	225	0.0225	86	0.086	0.382	3822.22	0.000	3.82	0.11	Remediate
J3021	JR & AL	01/02/2021	Old Bus Depot Megalo Building	Food Court	Refrigerator interior shelf	High	15	15	225	0.0225	1	0.001	0.004	44.44	0.000	0.04	0.11	Nil
J3022	JR & AL	01/02/2021	Old Bus Depot Megalo Building	Food Court	Ice cream cooler exterior top open	High	15	15	225	0.0225	90	0.09	0.400	4000.00	0.000	4.00	0.11	Remediate
J3023	JR & AL	01/02/2021	Old Bus Depot Megalo Building	Food Court	Ice cream cooler interior top open	High	15	15	225	0.0225	55	0.055	0.244	2444.44	0.000	2.44	0.11	Remediate
J3024	JR & AL	01/02/2021	Old Bus Depot Megalo Building	Food Court	Ice cream cooler exterior top closed	High	15	15	225	0.0225	92	0.092	0.409	4088.89	0.000	4.09	0.11	Remediate
J3025	JR & AL	01/02/2021	Old Bus Depot Megalo Building	Food Court	Ice cream cooler interior top closed	High	15	15	225	0.0225	72	0.072	0.320	3200.00	0.000	3.20	0.11	Remediate
J3026	JR & AL	01/02/2021	Old Bus Depot Megalo Building	Food Court	Concrete slab central	Low	15	15	225	0.0225	77	0.077	0.342	3422.22	0.000	3.42	1.08	Remediate
J3027	JR & AL	01/02/2021	Old Bus Depot Megalo Building	Workshop	Tall refrigerator exterior top	Low	15	15	225	0.0225	1400	1.4	6.222	62222.22	0.006	62.22	1.08	Remediate
J3028	JR & AL	01/02/2021	Old Bus Depot Megalo Building	Workshop	Tall refrigerator interior	High	15	15	225	0.0225	7	0.007	0.031	311.11	0.000	0.31	0.11	Remediate
J3029	JR & AL	01/02/2021	Old Bus Depot Megalo Building	Workshop	Smaller refrigerator exterior top	Low	15	15	225	0.0225	840	0.84	3.733	37333.33	0.004	37.33	1.08	Remediate
J3030	JR & AL	01/02/2021	Old Bus Depot Megalo Building	Workshop	Smaller refrigerator interior	High	15	15	225	0.0225	11	0.011	0.049	488.89	0.000	0.49	0.11	Remediate
J3031	JR & AL	01/02/2021	Old Bus Depot Megalo Building	Workshop	Tall cupboard top	Low	15	15	225	0.0225	63	0.063	0.280	2800.00	0.000	2.80	1.08	Remediate
J3032	JR & AL	01/02/2021	Old Bus Depot Megalo Building	Workshop	Smaller cupboard top	Low	15	15	225	0.0225	100	0.1	0.444	4444.44	0.000	4.44	1.08	Remediate
J3033	JR & AL	01/02/2021	Old Bus Depot Megalo Building	Workshop	Concrete slab central	Low	15	15	225	0.0225	560	0.56	2.489	24888.89	0.002	24.89	1.08	Remediate
J3034	JR & AL	01/02/2021	Old Bus Depot Megalo Building	North Store opposite Food Court	Refrigerator exterior top	Low	15	15	225	0.0225	1000	1	4.444	44444.44	0.004	44.44	1.08	Remediate
J3035	JR & AL	01/02/2021	Old Bus Depot Megalo Building	North Store opposite Food Court	Refrigerator interior	High	15	15	225	0.0225	1	0.001	0.004	44.44	0.000	0.04	0.11	Nil
J3036	JR & AL	01/02/2021	Old Bus Depot Megalo Building	North Store opposite Food Court	Plastic box exterior	High	15	15	225	0.0225	200	0.2	0.889	8888.89	0.001	8.89	0.11	Remediate
J3037	JR & AL	01/02/2021	Old Bus Depot Megalo Building	North Store opposite Food Court	Plastic box interior	High	15	15	225	0.0225	34	0.034	0.151	1511.11	0.000	1.51	0.11	Remediate
J3038	JR & AL	01/02/2021	Old Bus Depot Megalo Building	Foreshore Space	Steel frame - south east	Low	15	15	225	0.0225	1200	1.2	5.333	53333.33	0.005	53.33	1.08	Remediate
J3039	JR & AL	01/02/2021	Old Bus Depot Megalo Building	Foreshore Space	Wall cabinet exterior	Low	15	15	225	0.0225	14000	14	62.222	62222.22	0.062	622.22	1.08	Remediate
J3040	JR & AL	01/02/2021	Old Bus Depot Megalo Building	Foreshore Space	Concrete slab south	Low	15	15	225	0.0225	830	0.83	3.689	36888.89	0.004	36.89	1.08	Remediate
J3041	JR & AL	01/02/2021	Old Bus Depot Megalo Building	Foreshore Space	Concrete slab north	Low	15	15	225	0.0225	240	0.24	1.067	10666.67	0.001	10.67	1.08	Remediate
J3042	JR & AL	01/02/2021	Old Bus Depot Megalo Building	Mezzanine West Office	High duct exterior	Low	15	15	225	0.0225	140	0.14	0.622	6222.22	0.001	6.22	1.08	Remediate
J3043	JR & AL	01/02/2021	Old Bus Depot Megalo Building	Mezzanine West Office	Central table	High	15	15	225	0.0225	5	0.005	0.022	222.22	0.000	0.22	0.11	Remediate
J3044	JR & AL	01/02/2021	Old Bus Depot Megalo Building	Upper Hall	Concrete slab - n/w area	Low	15	15	225	0.0225	99	0.099	0.440	4400.00	0.000	4.40	1.08	Remediate
J3045	JR & AL	01/02/2021	Old Bus Depot Megalo Building	Upper Hall	Concrete slab - south central area	Low	15	15	225	0.0225	53	0.053	0.236	2355.56	0.000	2.36	1.08	Remediate
J3046	JR & AL	01/02/2021	Old Bus Depot Megalo Building	Upper Hall	Concrete slab north central area	Low	15	15	225	0.0225	22	0.022	0.098	977.78	0.000	0.98	1.08	Leave
J3047	JR & AL	01/02/2021	Old Bus Depot Megalo Building	Upper Hall	Concrete slab - western area	Low	15	15	225	0.0225	18	0.018	0.080	800.00	0.000	0.80	1.08	Leave
J3048	JR & AL	01/02/2021	Old Bus Depot Megalo Building	Upper Hall South Wall	Eastern area chest height	Low	15	15	225	0.0225	9	0.009	0.040	400.00	0.000	0.40	1.08	Nil
J3049	JR & AL	01/02/2021	Old Bus Depot Megalo Building	Upper Hall South Wall	Central east area chest height	Low	15	15	225	0.0225	3	0.003	0.013	133.33	0.000	0.13	1.08	Leave
J3050	JR & AL	01/02/2021	Old Bus Depot Megalo Building	Upper Hall South Wall	Central west area chest height	Low	15	15	225	0.0225	3	0.003	0.013	133.33	0.000	0.13	1.08	Leave



## CERTIFICATE OF ANALYSIS 260917

### Client Details

<b>Client</b>	Robson Environmental Pty Ltd
<b>Attention</b>	Schedule 2.2(a)(ii)
<b>Address</b>	PO Box 112, Fyshwick, ACT, 2609

### Sample Details

<b>Your Reference</b>	<b>T10589</b>
<b>Number of Samples</b>	5 Filter
<b>Date samples received</b>	04/02/2021
<b>Date completed instructions received</b>	04/02/2021

### Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.  
 Samples were analysed as received from the client. Results relate specifically to the samples as received.  
 Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

### Report Details

<b>Date results requested by</b>	04/02/2021
<b>Date of Issue</b>	04/02/2021
NATA Accreditation Number 2901. This document shall not be reproduced except in full.	
Accredited for compliance with ISO/IEC 17025 - Testing. <b>Tests not covered by NATA are denoted with *</b>	

**Results Approved By**  
 Schedule 2.2(a)(ii), Metals Supervisor

**Authorised By**  
 Schedule 2.2(a)(ii)  
 Schedule 2.2(a)(ii), Laboratory Manager

Client Reference: T10589

Lead on filter						
Our Reference		260917-1	260917-2	260917-3	260917-4	260917-5
Your Reference	UNITS	Pb001	Pb002	Pb003	Pb004	Pb005
Date Sampled		03/02/2021	03/02/2021	03/02/2021	03/02/2021	03/02/2021
Type of sample		Filter	Filter	Filter	Filter	Filter
Date prepared	-	04/02/2021	04/02/2021	04/02/2021	04/02/2021	04/02/2021
Date analysed	-	04/02/2021	04/02/2021	04/02/2021	04/02/2021	04/02/2021
Lead	µg/filter	<1	<1	<1	<1	<1

Method ID	Methodology Summary
<b>Metals-020/021/022</b>	Determination of various metals on filters by ICP-AES/MS and or CV/AAS.

Client Reference: T10589

QUALITY CONTROL: Lead on filter				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			04/02/2021	[NT]	[NT]	[NT]	[NT]	04/02/2021	[NT]
Date analysed	-			04/02/2021	[NT]	[NT]	[NT]	[NT]	04/02/2021	[NT]
Lead	µg/filter	1	Metals-020/021/022	<1	[NT]	[NT]	[NT]	[NT]	94	[NT]



**Result Definitions**

<b>NT</b>	Not tested
<b>NA</b>	Test not required
<b>INS</b>	Insufficient sample for this test
<b>PQL</b>	Practical Quantitation Limit
<b>&lt;</b>	Less than
<b>&gt;</b>	Greater than
<b>RPD</b>	Relative Percent Difference
<b>LCS</b>	Laboratory Control Sample
<b>NS</b>	Not specified
<b>NEPM</b>	National Environmental Protection Measure
<b>NR</b>	Not Reported

## Quality Control Definitions

<b>Blank</b>	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 exactly the same manner as for samples.
<b>Duplicate</b>	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
<b>Matrix Spike</b>	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.
<b>LCS (Laboratory Control Sample)</b>	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. It is simply a check sample.
<b>Surrogate Spike</b>	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.
Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.	
The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.	
Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2	

## Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

**From:** [McNamara, Conor](#)  
**To:** [Schedule 2.2\(a\)\(ii\)](#)  
[Barisic, Natalie](#); [Whitehouse, Michael](#); [Collins, Jen](#); [Gordon, Libby](#); [Power, Rebecca](#)  
**Subject:** artsACT Friday 5th media release  
**Date:** Thursday, 4 February 2021 9:15:16 AM

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OFFICIAL

Hi [Schedule 2.2\(a\)\(ii\)](#),

In preparation for artsACT scheduled media release Noon Friday 5<sup>th</sup> Feb and possible reactions to media release please see the following dot points;

- Any external communications to stakeholders, general public with regard site activities will be undertaken by artsACT,
- Worksafe contact (Contacted 21/01/21) is [Schedule 2.2\(a\)\(ii\)](#),
- Would you insure Monarch is undertaking all works in accordance with consultant recommended procedures. Would you also apply any necessary further measures required as a result of recent testing. Would you communicate any further actions back to Nat please,
- I will also be confirm with artsACT if there will be any briefing notes that will be issued to Monarch,
- Would you call Michael Whitehouse directly and immediately on [Schedule 2.2\(a\)\(ii\)](#) if you require any industrial support after the media release.

I will call you to confirm all.

Regards Conor

**From:** [Navarro, Tania](#)  
**To:** [Edghill, Duncan](#)  
**Subject:** FW: Former Transport Depot - Update for Minister  
**Date:** Friday, 5 February 2021 12:35:00 PM  
**Attachments:** [image001.jpg](#)  
[Talking points - Former Transport Depot 4 Feb 2021.docx](#)

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OFFICIAL: Sensitive

Thanks for speedy approval Duncan. Here are some QAs FYI. I'll amend date is these as well.  
Thanks  
Tania

---

**From:** Johnston, ClaireV <[ClaireV.Johnston@act.gov.au](mailto:ClaireV.Johnston@act.gov.au)>  
**Sent:** Friday, 5 February 2021 10:29 AM  
**To:** Navarro, Tania <[Tania.Navarro@act.gov.au](mailto:Tania.Navarro@act.gov.au)>  
**Subject:** FW: Former Transport Depot - Update for Minister

OFFICIAL: Sensitive

FYI

Thank you

---

**From:** Tyler, Sam <[Sam.Tyler@act.gov.au](mailto:Sam.Tyler@act.gov.au)>  
**Sent:** Friday, 5 February 2021 8:43 AM  
**To:** Liu, Michael <[Michael.Liu@act.gov.au](mailto:Michael.Liu@act.gov.au)>  
**Cc:** CMTEDD, Economic Development DLO <[EcoDevDLO@act.gov.au](mailto:EcoDevDLO@act.gov.au)>; Starick, Kate <[Kate.Starick@act.gov.au](mailto:Kate.Starick@act.gov.au)>; Arthy, Kareena <[Kareena.Arthy@act.gov.au](mailto:Kareena.Arthy@act.gov.au)>; Johnston, ClaireV <[ClaireV.Johnston@act.gov.au](mailto:ClaireV.Johnston@act.gov.au)>; Wickman, Dani <[Dani.Wickman@act.gov.au](mailto:Dani.Wickman@act.gov.au)>  
**Subject:** Former Transport Depot - Update for Minister

OFFICIAL: Sensitive

Good Morning Michael

Please see attached talking points and below additional information as to the current situation at the Former Transport Depot. We are finalising a media release in collaboration with Major Projects Canberra.

Please let me know if you have any further questions.

What we know:

- Lead has been found in dust in the Former Transport Depot
- Dust has been disturbed during construction works and has settled on surfaces throughout the building
- There has not been any detection of lead in air monitoring undertaken in January 2021
- Worksafe advised that this is not a notifiable incident and that an environmental consultant/hygienist should be engaged to provide specialist advice for remediation
- Specialist consultants have been engaged to ensure correct processes for cleaning are used and the building is safe before reopening

- Contractors and ACT govt employees need to be tested - a list has been compiled and people will be contacted before any media release
- Clean up will need to occur prior to the markets reopening
- There will be an impact on market equipment being stored in the building
- A scope of works and procurement process will be required for engagement of cleaning specialists
- Iconic have been notified of the detection of lead and that the markets can not open until clean-up has occurred
- Access to the site will continue to be restricted until remediation can occur.

What don't we know:

- Timing and extent of clean-up
- Cost of clean-up and whether there is sufficient funding in the existing project budget
- Impact on stallholder equipment
- When FTD can open to public
- Whether stallholder and market insurance will cover replacement costs of equipment if it needs to be disposed

When will we know it?

- A report from Robson Environmental is expected on Monday 8 February 2021 which will help to ascertain costing and timing for remediation
- Final costing and timelines will be known at the finalisation of scoping and procurement processes

What needs to happen prior to public release of information

- Stallholders to be notified (information to be delivered via Iconic)
- Megalo to be notified
  - They don't know about latest detection
- Contractors and ACT Govt employees to be notified and advised to be tested
- Key messages to be adapted for use by Access Canberra in case of contact by the community
- Coordination between Major Projects Canberra, ACT Property Group and artsACT on communication to stakeholders and contractors

Regards

Sam

Ms Sam Tyler | Executive Branch Manager  
 artsACT | Economic Development | Chief Minister, Treasury and Economic Development Directorate |  
 ACT Government  
 Phone 02 620 54365 | **Schedule 2.2(a)(ii)**  
 Level 4, Nara Centre, 1 Constitution Avenue, Canberra City ACT | GPO Box 158, Canberra ACT 2601 |  
[www.arts.act.gov.au](http://www.arts.act.gov.au) | Follow us on [Twitter](#)



*Date: 4 February 2021*

---

**SUBJECT:** Former Transport Depot (lead dust)

---

**KEY MESSAGES:**

- 1. Major upgrades are underway at the Former Transport Depot (FTD) in Kingston, home to the Old Bus Depot Markets, to improve the safety, accessibility and sustainability of the facility.**
- 2. Testing of dust exposed by the construction activities has been found to contain lead particles and further testing is now underway to determine the process and methods for remediation to remove the lead dust from the site safely.**
- 3. The \$6.5 million works to upgrade the Former Transport Depot is due to be completed in March 2021.**

**Talking points**

- While undertaking upgrades to the Former Transport Depot, dust samples collected and analysed have detected the presence of lead particles.
- This advice was first received in late December 2020 with follow up information received on 20 January 2021 after additional testing
- From 20-22 January 2021 air monitoring test points were set up by the contractor inside FTD. All results returned show that the concentration of atmospheric lead was below the detectable limits.
- Testing has identified that dust has settled in several areas and will need to be remediated.
- Major Projects Canberra is managing the contract for the works and contacted Worksafe following the findings.
- Worksafe advised that this is not a notifiable incident and that an environmental consultant/hygienist should be engaged to provide specialist advice for remediation.
- An environmental consultant/hygienist has been engaged, and additional testing is being carried out to determine the process and methods for remediation to remove the lead dust from the site safely and help ensure the safety of workers on site.
- As the dust was undisturbed prior to the construction activities, it would have posed a very low risk to anyone working or visiting the facility before construction began.
- Access to the site will continue to be restricted until remediation can occur.
- A determination on when the Old Bus Depot Markets can return will be made as soon as further information on remediation is available.
- The head contractor engaged on the work is Monarch Building Solutions. Construction commenced in June 2020 and is due to be completed in March 2021.

## About the upgrade works

- The \$6.5 million works to upgrade the Former Transport Depot is due to be completed in March 2021 and includes:
  - replacement of the roof and skylights over the entire complex;
  - replacement of the electrical system, including new main switch board;
  - installation of energy efficient light fittings and water saving fixtures to improve the sustainability of the building; and
  - refurbishment of both the upper and lower hall toilet amenities, including providing accessible facilities.
- The project will benefit both stallholders and visitors by improving the functionality of the building and creating a more pleasant experience. The work will also ensure that the ACT Heritage Registered Building can continue to be used into the future.

## Background

- artsACT is the building custodian, ACT Property Group provides building management (repairs and maintenance), and Major Projects Canberra (MPC), Infrastructure Delivery Partners is the contract manager and delivery agency for the upgrade works. MPC is leading the response to this issue.
- artsACT licences Iconic Markets and Events for access to the building to operate the 'Old Bus Depot Markets' from the building every Sunday through the year, and in addition every Saturday in December. The licence includes exclusive use of some areas such as an office, storerooms, and the food court area. The licence is currently held over on a month to month basis prior to a five-year licence extension which is pending.
- FTD is also available for hire through Venues Canberra, although not during the current construction period.
- The Markets have been closed since March 2020 due to the COVID-19 pandemic but are hoping to reopen towards the end of February 2021, which will depend on remediation works.
- Iconic Markets and Events will work with stallholders to inform them of the developments and when it is likely the markets will be able to reopen.
- Further information on the cost of remediation and the time it will take will be informed by a report next week.

---

**Action Officer: Claire Johnston**

**Cleared By:**

---

**From:** [McNamara, Conor](#)  
**To:** [Collins, Jen](#); [Gordon, Libby](#)  
**Cc:** [Barisic, Natalie](#)  
**Subject:** FW: DRAFT text \*CONFIDENTIAL\*  
**Date:** Friday, 5 February 2021 2:48:29 PM  
**Attachments:** [image002.jpg](#)  
[image001.png](#)  
[image005.png](#)  
[image004.png](#)  
[T10589\\_Draft Media Statement.docx](#)

OFFICIAL

Guessing this is to late now.

**From:** [Schedule 2.2\(a\)\(ii\)](#)  
**Sent:** Friday, 5 February 2021 2:12 PM  
**To:** McNamara, Conor <Conor.McNamara@act.gov.au>  
**Cc:** Collins, Jen <Jen.Collins@act.gov.au>; Gordon, Libby <Libby.Gordon@act.gov.au>; Barisic, Natalie <Natalie.Barisic@act.gov.au>; [Schedule 2.2\(a\)\(ii\)](#)  
**Subject:** FW: DRAFT text \*CONFIDENTIAL\*

**CAUTION:** This email originated from outside of the ACT Government. Do not click links or open attachments unless you recognise the sender and know the content is safe.



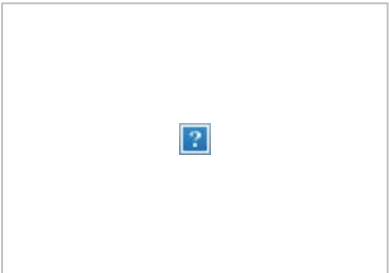
Hi Conor,

Please find attached our red highlighted suggested tracked changes to the emailed statement provided yesterday.

Please contact me if you require further information or clarification.

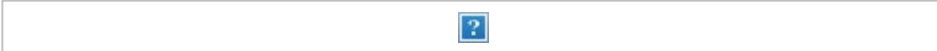
Kind regards

[Schedule 2.2\(a\)\(ii\)](#)

	
	<p><a href="#">Schedule 2.2(a)(ii)</a> <b>Managing Director</b> BSc, Grad Dip OccHyg, Cert IV T&amp;A, Licensed Asbestos Assessor, BOHS W504 Phone: 02 6239 5656 <a href="#">Schedule 2.2(a)(ii)</a> Fax: 02 6239 5669 <a href="#">Schedule 2.2(a)(ii)</a> Web: <a href="http://www.robsonenviro.com.au">www.robsonenviro.com.au</a></p>

140 Gladstone St Fyshwick ACT 2609 ~ PO Box 112 Fyshwick ACT 2609  
Best Practice Certification for AS/NZS ISO 9001:2008 - Quality ~ ISO 14001:2004 - OHS ~ AS/NZS 4801:2001 - Environment

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**From:** McNamara, Conor <[Conor.McNamara@act.gov.au](mailto:Conor.McNamara@act.gov.au)>

**Sent:** Thursday, 4 February 2021 2:15 PM

**To:** Schedule 2.2(a)(ii) [REDACTED]

[REDACTED]

[REDACTED] Barisic, Natalie <[Natalie.Barisic@act.gov.au](mailto:Natalie.Barisic@act.gov.au)>

**Subject:** FW: DRAFT text \*CONFIDENTIAL\*

OFFICIAL

Hi [REDACTED],

I have CC [REDACTED] in on this email to expedite [REDACTED] review of artsACT statements below.

Regards Conor

---

**From:** Gordon, Libby <[Libby.Gordon@act.gov.au](mailto:Libby.Gordon@act.gov.au)>

**Sent:** Thursday, 4 February 2021 1:30 PM

**To:** McNamara, Conor <[Conor.McNamara@act.gov.au](mailto:Conor.McNamara@act.gov.au)>

**Cc:** Collins, Jen <[Jen.Collins@act.gov.au](mailto:Jen.Collins@act.gov.au)>

**Subject:** DRAFT text \*CONFIDENTIAL\*

Hi Conor, do you think I could ask [REDACTED] to check the following text to make sure the statements on the lead are 100% correct? I've tried to keep it not too technical.

Note, draft is not yet approved by Dani or DDG for distribution.

-----

During the construction works currently underway at the Former Transport Depot (FTD) dust samples were collected from several elevated surfaces in the upper and lower halls. The analysis of these samples showed the presence of lead particles.

After the dust samples were analysed, the builder (Monarch Building Solutions) undertook air monitoring tests inside the FTD. The results showed that the concentration of atmospheric lead was below the detection limit, demonstrating that there is no airborne lead. However, further testing in the building has confirmed the presence of lead particles on a number of surfaces.

It is likely that the lead dust has been undisturbed at the Former Transport Depot for many years. When undisturbed, the dust does not pose a risk to building users however, the recent construction activities may have liberated dust particles in the building.

To ensure the safety of building users, lead particles found in the FTD need to be remediated prior to the building reopening. To meet this requirement, a thorough clean of the building by specialist contractors will follow the completion of the construction works (scheduled for end February 2021). This means there will be a delay to the re-opening of the Old Bus Depot Markets in 2021. The length of the delay is not yet known however, indicative advice is the clean may take a number of months.

It is also possible that some market and stallholder property may be impacted by the lead dust. This will be further understood in the coming weeks and the ACT Government will work closely with ( ) to

determine how the impacted items will be remediated.

The health and safety of the building occupants is our highest priority and the building will not be reopened until all results confirm safe levels on tested surfaces.

Libby Gordon | Director, Arts Infrastructure & Public Art - artsACT  
Economic Development | Chief Minister, Treasury and Economic Development | **ACT Government**  
**Phone 02 6205 5468** | **Schedule 2.2(a)(ii)** | Email: [libby.gordon@act.gov.au](mailto:libby.gordon@act.gov.au)  
Level 4 Canberra Nara Centre, 1 Constitution Avenue Canberra City | GPO Box 158 Canberra ACT 2601



-----  
This email, and any attachments, may be confidential and also privileged. If you are not the intended recipient, please notify the sender and delete all copies of this transmission along with any attachments immediately. You should not copy or use it for any purpose, nor disclose its contents to any other person.  
-----

**From:** [Navarro, Tania](#)  
**To:** [Edghill, Duncan](#)  
**Cc:** [Ross, Carolina](#)  
**Subject:** FW: Urgent - media release for Former Transport Depot works  
**Date:** Friday, 5 February 2021 12:13:27 PM  
**Attachments:** [Cheyne Media Release - Update on FTD 02 \(003\).docx](#)

---

OFFICIAL

Hi Duncan

See a media release attached to be issued by Minister Cheyne on the lead dust found at the Former Transport Depot in Kingston.

Let me know if you are happy with this. I'm just getting ArtsACT to send through some QAs on this as well.

Their deadline is to send out today so apologies for the short notice.

Many thanks

Tania

---

**From:** Johnston, ClaireV <ClaireV.Johnston@act.gov.au>  
**Sent:** Friday, 5 February 2021 9:21 AM  
**To:** Navarro, Tania <Tania.Navarro@act.gov.au>  
**Cc:** McNamara, Conor <Conor.McNamara@act.gov.au>  
**Subject:** Urgent - media release for Former Transport Depot works

OFFICIAL

Hi Tania

I work in Economic Development in CMTEDD, and we are drafting some comms materials to address the issue of lead dust found at the Former Transport Depot in Kingston.

I've cc'd Conor who has been working on it from MPC.

As your agency has the lead, would you please be able to review and clear the attached media release for the Minister?

Thanks so much!

Claire

**Claire Johnston | Senior Director, Communications & Engagement  
Economic Development**

Ph: +61 2 6205 0022 | [Schedule 2.2\(a\)\(ii\)](#) | Email: [ClaireV.Johnston@act.gov.au](mailto:ClaireV.Johnston@act.gov.au)

**Chief Minister, Treasury and Economic Development Directorate | ACT Government**

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**From:** [Navarro, Tania](#)  
**To:** [Johnston, ClaireV](#)  
**Cc:** [McNamara, Conor](#)  
**Subject:** FW: Urgent - media release for Former Transport Depot works  
**Date:** Friday, 5 February 2021 12:39:00 PM  
**Attachments:** [Cheyne Media Release - Update on FTD 02 \(003\).docx](#)  
[image001.png](#)

---

OFFICIAL

Hi Claire

Just one tiny change from Duncan Edghill marked up in the attached.

Also thanks for the QAs.

Regards

Tania

**Tania Navarro** | Senior Director, Communications and Engagement

**Major Projects Canberra** | ACT Government



GPO Box 158, Canberra ACT 2601

ACTGov\_MPC\_inline\_black



---

**From:** Johnston, ClaireV <ClaireV.Johnston@act.gov.au>  
**Sent:** Friday, 5 February 2021 9:21 AM  
**To:** Navarro, Tania <Tania.Navarro@act.gov.au>  
**Cc:** McNamara, Conor <Conor.McNamara@act.gov.au>  
**Subject:** Urgent - media release for Former Transport Depot works

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Economic Development**

Ph: +61 2 6205 0022 | **Schedule 2.2(a)(ii)** | Email: [ClaireV.Johnston@act.gov.au](mailto:ClaireV.Johnston@act.gov.au)

**Chief Minister, Treasury and Economic Development Directorate | ACT Government**

Level 3 Canberra Nara Centre | GPO Box 158 Canberra ACT 2601 | [www.act.gov.au](http://www.act.gov.au)

## Tara Cheyne MLA

Assistant Minister for Economic Development  
Minister for the Arts  
Minister for Business and Better Regulation  
Minister for Human Rights  
Minister for Multicultural Affairs

Member for Ginninderra

5 February 2021

## Testing carried out at Former Transport Depot

Testing is being carried out at the Former Transport Depot in Kingston due to lead dust being found during construction activities.

Construction has been underway since March 2020 at the home to the Old Bus Depot Markets, to improve the safety, accessibility and sustainability of the facility. The venue has been closed during this time.

During the course of construction, dust that was disturbed was found to contain lead particles. Further testing is now underway to determine the process and methods for remediation to remove the lead dust from the site safely.

Air monitoring shows the dust is not currently detectable in the air and therefore the risk to contractors working on the site is considered low. However, an environmental consultant has been engaged following advice from WorkSafe ACT to undertake additional testing and help ensure the safety of workers on site.

As the dust was undisturbed prior to the construction activities, it would have posed a very low risk to anyone working or visiting the facility before construction began.

Access to the site will continue to be restricted until remediation can occur.

A date for the return of the Old Bus Depot Markets will be determined soon.

The \$6.5 million works to upgrade the Former Transport Depot is due to be completed in March 2021 and includes:

- replacement of the roof and skylights over the entire complex;
- replacement of the electrical system, including new main switch board;
- installation of energy efficient light fittings and water saving fixtures to improve the sustainability of the building; and



# Media release

## Tara Cheyne MLA

Assistant Minister for Economic Development  
Minister for the Arts  
Minister for Business and Better Regulation  
Minister for Human Rights  
Minister for Multicultural Affairs

Member for Ginninderra

- refurbishment of both the upper and lower hall toilet amenities, including providing accessible facilities.

The project will benefit both stallholders and visitors by improving the functionality of the building and creating a more pleasant experience. The work will also ensure that the ACT Heritage Registered Building can continue to be used for a long time.

**Statement ends**

**Media contact/s:**

**Kaarin Dynon** T (02) 6205 2974 M 0422 772 215 kaarin.dynon@act.gov.au

---

ACT Legislative Assembly London Circuit, GPO Box 1020, Canberra ACT 2601

+61 2 6205 0100

cheyne@act.gov.au

@In\_The\_Taratory

taraforginninderra

in\_the\_taratory

**From:** [Johnston, ClaireV](#)  
**To:** [Gordon, Libby](#)  
**Cc:** [Barisic, Natalie](#); [Collins, Jen](#); [Tyler, Sam](#)  
**Subject:** RE: KBD lead dust remediation  
**Date:** Friday, 5 February 2021 2:11:07 PM  
**Attachments:** [CHEYNE - Media Release - Update on FTD \(FINAL\).docx](#)

---

OFFICIAL

Please find attached updated media release. This has been cleared by Duncan Edgehill.

Cheers  
Claire

---

**From:** Gordon, Libby <[Libby.Gordon@act.gov.au](mailto:Libby.Gordon@act.gov.au)>  
**Sent:** Friday, 5 February 2021 10:31 AM  
**To:** Johnston, ClaireV <[ClaireV.Johnston@act.gov.au](mailto:ClaireV.Johnston@act.gov.au)>  
**Cc:** Barisic, Natalie <[Natalie.Barisic@act.gov.au](mailto:Natalie.Barisic@act.gov.au)>; Collins, Jen <[Jen.Collins@act.gov.au](mailto:Jen.Collins@act.gov.au)>; Tyler, Sam <[Sam.Tyler@act.gov.au](mailto:Sam.Tyler@act.gov.au)>  
**Subject:** FW: KBD lead dust remediation

Hi Claire

Regarding timeframe and cost, pls see Conor's email below – this is as much as we will know until the cleaning contractors submit a tender.

Please confirm when the MR will go out as soon as you know so we can make sure everyone is advised that needs to be ahead of time!

Thanks,

Regards

Libby

---

**From:** McNamara, Conor <[Conor.McNamara@act.gov.au](mailto:Conor.McNamara@act.gov.au)>  
**Sent:** Friday, 5 February 2021 8:36 AM  
**To:** Gordon, Libby <[Libby.Gordon@act.gov.au](mailto:Libby.Gordon@act.gov.au)>  
**Cc:** Collins, Jen <[Jen.Collins@act.gov.au](mailto:Jen.Collins@act.gov.au)>; Barisic, Natalie <[Natalie.Barisic@act.gov.au](mailto:Natalie.Barisic@act.gov.au)>  
**Subject:** KBD lead dust remediation

OFFICIAL

Hi Libby,

Further to our phone conversation re lead dust remediation process cost and time implications I provide the following information;



1. Attached contractor quotation [redacted]
2. Monarch has provided verbal advise forecasting [redacted] not including Prelims or margin.
3. Prelims and margin at [redacted],
4. Consultants, hygienist, reports clearances. [redacted]

So based on the information we currently have prior to receiving detailed remediation scope and subsequent pricing a responsible forecast cost would be [redacted]

We have been provided a time frame of 6 weeks for remediation not including tender, procurement or confirmation of funding source. To provide a program forecast at this stage without further detail is tricky. You could throw a 3 month program duration in and hope for the best?? Or report that confirmation of program is expected mid-February 2021.

Regards Conor

## Tara Cheyne MLA

Assistant Minister for Economic Development  
Minister for the Arts  
Minister for Business and Better Regulation  
Minister for Human Rights  
Minister for Multicultural Affairs

Member for Ginninderra

5 February 2021

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As the dust was undisturbed prior to the construction activities, it would have posed a very low risk to anyone working or visiting the facility before construction began.

Access to the site will continue to be restricted until remediation can occur.

The work to remediate the Former Transport Depot and ensure it is safe will take around three months to complete, with the Old Bus Depot Markets to reopen after that.

The \$6.5 million works to upgrade the Former Transport Depot is due to be completed in the coming months and includes:

- replacement of the roof and skylights over the entire complex;
- replacement of the electrical system, including new main switch board;
- installation of energy efficient light fittings and water saving fixtures to improve the sustainability of the building; and



# Media release

## Tara Cheyne MLA

Assistant Minister for Economic Development  
Minister for the Arts  
Minister for Business and Better Regulation  
Minister for Human Rights  
Minister for Multicultural Affairs

Member for Ginninderra

- refurbishment of both the upper and lower hall toilet amenities, including providing accessible facilities.

The project will benefit both stallholders and visitors by improving the functionality of the building and creating a more pleasant experience. The work will also ensure that the ACT Heritage Registered Building can continue to be used for a long time.

**Statement ends**

**Media contact/s:**

**Kaarin Dynon** T (02) 6205 2974 Schedule 2.2(a)(ii) kaarin.dynon@act.gov.au

---

ACT Legislative Assembly London Circuit, GPO Box 1020, Canberra ACT 2601

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cheyne@act.gov.au

@In\_The\_Taratory

taraforginninderra

in\_the\_taratory

**From:** [Edghill, Duncan](#)  
**To:** [Navarro, Tania](#)  
**Cc:** [Ross, Carolina](#)  
**Subject:** Re: Urgent - media release for Former Transport Depot works  
**Date:** Friday, 5 February 2021 12:30:02 PM

---

I'm ok with it thanks. Consider stating "in the coming months" rather than "March 2021" in case further issues arise.

Sent from an iPhone

---

**From:** Navarro, Tania <Tania.Navarro@act.gov.au>  
**Sent:** Friday, February 5, 2021 12:13:25 PM  
**To:** Edghill, Duncan <Duncan.Edghill@act.gov.au>  
**Cc:** Ross, Carolina <Carolina.Ross@act.gov.au>  
**Subject:** FW: Urgent - media release for Former Transport Depot works

OFFICIAL

Hi Duncan

See a media release attached to be issued by Minister Cheyne on the lead dust found at the Former Transport Depot in Kingston.

Let me know if you are happy with this. I'm just getting ArtsACT to send through some QAs on this as well.

Their deadline is to send out today so apologies for the short notice.

Many thanks

Tania

---

**From:** Johnston, ClaireV <ClaireV.Johnston@act.gov.au>  
**Sent:** Friday, 5 February 2021 9:21 AM  
**To:** Navarro, Tania <Tania.Navarro@act.gov.au>  
**Cc:** McNamara, Conor <Conor.McNamara@act.gov.au>  
**Subject:** Urgent - media release for Former Transport Depot works

OFFICIAL

Hi Tania

I work in Economic Development in CMTEDD, and we are drafting some comms materials to address the issue of lead dust found at the Former Transport Depot in Kingston.

I've cc'd Conor who has been working on it from MPC.

As your agency has the lead, would you please be able to review and clear the attached media release for the Minister?

Thanks so much!

Claire

**Claire Johnston | Senior Director, Communications & Engagement  
Economic Development**

Ph: +61 2 6205 0022 | **Schedule 2.2(a)(ii)** | Email: [ClaireV.Johnston@act.gov.au](mailto:ClaireV.Johnston@act.gov.au)

**Chief Minister, Treasury and Economic Development Directorate | ACT Government**

Level 3 Canberra Nara Centre | GPO Box 158 Canberra ACT 2601 | [www.act.gov.au](http://www.act.gov.au)

**From:** [Navarro, Tania](#)  
**To:** [Johnston, ClaireV](#)  
**Cc:** [McNamara, Conor](#)  
**Subject:** RE: Urgent - media release for Former Transport Depot works  
**Date:** Friday, 5 February 2021 12:49:00 PM  
**Attachments:** [image001.png](#)

---

OFFICIAL

Yes sounds fine. Thanks

---

**From:** Johnston, ClaireV <ClaireV.Johnston@act.gov.au>  
**Sent:** Friday, 5 February 2021 12:46 PM  
**To:** Navarro, Tania <Tania.Navarro@act.gov.au>  
**Cc:** McNamara, Conor <Conor.McNamara@act.gov.au>  
**Subject:** RE: Urgent - media release for Former Transport Depot works  
**Importance:** High

OFFICIAL

I'm just going to include one additional piece of info:

*The work to remediate the Former Transport Depot and ensure it is safe will take around three months to complete, with the Old Bus Depot Markets to reopen after that.*

Can you let me know if you have any concerns with that line?

Cheers  
Claire

---

**From:** Navarro, Tania <[Tania.Navarro@act.gov.au](mailto:Tania.Navarro@act.gov.au)>  
**Sent:** Friday, 5 February 2021 12:39 PM  
**To:** Johnston, ClaireV <[ClaireV.Johnston@act.gov.au](mailto:ClaireV.Johnston@act.gov.au)>  
**Cc:** McNamara, Conor <[Conor.McNamara@act.gov.au](mailto:Conor.McNamara@act.gov.au)>  
**Subject:** FW: Urgent - media release for Former Transport Depot works

OFFICIAL

Hi Claire  
Just one tiny change from Duncan Edghill marked up in the attached.  
Also thanks for the QAs.  
Regards  
Tania

**Tania Navarro** | Senior Director, Communications and Engagement

**Major Projects Canberra** | ACT Government

**Schedule 2.2(a)(ii)**

GPO Box 158, Canberra ACT 2601

ACTGov\_MPC\_inline\_black



---

**From:** Johnston, ClaireV <[ClaireV.Johnston@act.gov.au](mailto:ClaireV.Johnston@act.gov.au)>

**Sent:** Friday, 5 February 2021 9:21 AM

**To:** Navarro, Tania <[Tania.Navarro@act.gov.au](mailto:Tania.Navarro@act.gov.au)>

**Cc:** McNamara, Conor <[Conor.McNamara@act.gov.au](mailto:Conor.McNamara@act.gov.au)>

**Subject:** Urgent - media release for Former Transport Depot works

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I've cc'd Conor who has been working on it from MPC.

As your agency has the lead, would you please be able to review and clear the attached media release for the Minister?

Thanks so much!

Claire

**Claire Johnston | Senior Director, Communications & Engagement**

**Economic Development**

Ph: +61 2 6205 0022 | **Schedule 2.2(a)(ii)** | Email: [ClaireV.Johnston@act.gov.au](mailto:ClaireV.Johnston@act.gov.au)

**Chief Minister, Treasury and Economic Development Directorate | ACT Government**

Level 3 Canberra Nara Centre | GPO Box 158 Canberra ACT 2601 | [www.act.gov.au](http://www.act.gov.au)

**From:** [Gordon, Libby](#)  
**To:** [McNamara, Conor](#); [Collins, Jen](#)  
**Cc:** [Barisic, Natalie](#)  
**Subject:** RE: DRAFT text \*CONFIDENTIAL\*  
**Date:** Friday, 5 February 2021 2:49:38 PM  
**Attachments:** [image001.png](#)  
[image003.png](#)  
[image004.png](#)  
[image005.jpg](#)

---

No! we got it earlier – all good, thanks.

Really appreciate [REDACTED] input -

---

**From:** McNamara, Conor <Conor.McNamara@act.gov.au>  
**Sent:** Friday, 5 February 2021 2:48 PM  
**To:** Collins, Jen <Jen.Collins@act.gov.au>; Gordon, Libby <Libby.Gordon@act.gov.au>  
**Cc:** Barisic, Natalie <Natalie.Barisic@act.gov.au>  
**Subject:** FW: DRAFT text \*CONFIDENTIAL\*

OFFICIAL

Guessing this is to late now.

---

**From:** [Schedule 2.2\(a\)\(ii\)](#)  
**Sent:** Friday, 5 February 2021 2:12 PM  
**To:** McNamara, Conor <[Conor.McNamara@act.gov.au](#)>  
**Cc:** Collins, Jen <[Jen.Collins@act.gov.au](#)>; Gordon, Libby <[Libby.Gordon@act.gov.au](#)>; Barisic, Natalie <[Natalie.Barisic@act.gov.au](#)>; [Schedule 2.2\(a\)\(ii\)](#)  
[REDACTED]  
[REDACTED]  
**Subject:** FW: DRAFT text \*CONFIDENTIAL\*

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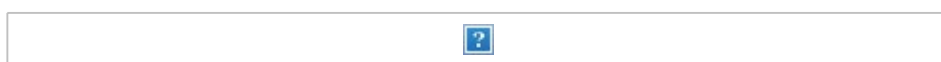
Hi Conor,

Please find attached our red highlighted suggested tracked changes to the emailed statement provided yesterday.

Please contact me if you require further information or clarification.

Kind regards

[REDACTED]



[Schedule 2.2\(a\)\(ii\)](#)

**Managing Director**

BSc, Grad Dip OccHyg, Cert IV T&A, Licensed Asbestos

Assessor, BOHS W504

Phone: 02 6239 5656

[Schedule 2.2\(a\)\(ii\)](#)





Schedule 2.2(a)(ii)

Fax: 02 6239 5669

Schedule 2.2(a)(ii)

Web: [www.robsonenviro.com.au](http://www.robsonenviro.com.au)

140 Gladstone St Fyshwick ACT 2609 ~ PO Box 112 Fyshwick ACT 2609

Best Practice Certification for AS/NZS ISO 9001:2008 - Quality ~ ISO 14001:2004 - OHS ~ AS/NZS 4801:2001 - Environment

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---

**From:** McNamara, Conor <[Conor.McNamara@act.gov.au](mailto:Conor.McNamara@act.gov.au)>

**Sent:** Thursday, 4 February 2021 2:15 PM

**To:** Schedule 2.2(a)(ii)

[Redacted]

[Redacted]

**Subject:** FW: DRAFT text \*CONFIDENTIAL\*

OFFICIAL

Hi Gary,

I have CC [Schedule 2.2\(a\)\(ii\)](#) in on this email to expedite [Schedule 2.2\(a\)](#) review of artsACT statements below.

Regards Conor

---

**From:** Gordon, Libby <[Libby.Gordon@act.gov.au](mailto:Libby.Gordon@act.gov.au)>

**Sent:** Thursday, 4 February 2021 1:30 PM

**To:** McNamara, Conor <[Conor.McNamara@act.gov.au](mailto:Conor.McNamara@act.gov.au)>

**Cc:** Collins, Jen <[Jen.Collins@act.gov.au](mailto:Jen.Collins@act.gov.au)>

**Subject:** DRAFT text \*CONFIDENTIAL\*

Hi Conor, do you think I could ask [Schedule 2.2\(a\)\(ii\)](#) to check the following text to make sure the statements on the lead are 100% correct? I've tried to keep it not too technical.

Note, draft is not yet approved by Dani or DDG for distribution.

-----

During the construction works currently underway at the Former Transport Depot (FTD) dust samples were collected from several elevated surfaces in the upper and lower halls. The analysis of these samples showed the presence of lead particles.

After the dust samples were analysed, the builder (Monarch Building Solutions) undertook air monitoring tests inside the FTD. The results showed that the concentration of atmospheric lead was below the detection limit, demonstrating that there is no airborne lead. However, further testing in

the building has confirmed the presence of lead particles on a number of surfaces.

It is likely that the lead dust has been undisturbed at the Former Transport Depot for many years. When undisturbed, the dust does not pose a risk to building users however, the recent construction activities may have liberated dust particles in the building.

To ensure the safety of building users, lead particles found in the FTD need to be remediated prior to the building reopening. To meet this requirement, a thorough clean of the building by specialist contractors will follow the completion of the construction works (scheduled for end February 2021). This means there will be a delay to the re-opening of the Old Bus Depot Markets in 2021. The length of the delay is not yet known however, indicative advice is the clean may take a number of months.

It is also possible that some market and stallholder property may be impacted by the lead dust. This will be further understood in the coming weeks and the ACT Government will work closely with ( ) to determine how the impacted items will be remediated.

The health and safety of the building occupants is our highest priority and the building will not be reopened until all results confirm safe levels on tested surfaces.

Libby Gordon | Director, Arts Infrastructure & Public Art - artsACT  
Economic Development | Chief Minister, Treasury and Economic Development | **ACT Government**  
**Phone 02 6205 5468** | m Schedule 2.2(a)(ii) | Email: [libby.gordon@act.gov.au](mailto:libby.gordon@act.gov.au)  
Level 4 Canberra Nara Centre, 1 Constitution Avenue Canberra City | GPO Box 158 Canberra ACT 2601



-----  
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-----

**From:** [Barisic, Natalie](#)  
**To:** [Ozols, Peter](#)  
**Subject:** FW: Lead Air Monitoring + Dust Results - Old Bus Depot, Kingston  
**Date:** Friday, 5 February 2021 9:28:00 AM  
**Attachments:** [image001.png](#)  
[image002.jpg](#)  
[image003.png](#)  
[image004.png](#)  
[image005.png](#)  
[image006.jpg](#)  
[C109546\\_2-PBM1.v1-LeadAirMonitoringReport-01022021.pdf](#)  
[C109546\\_1-PBS1.v1-LeadDust-01022021.pdf](#)

---

OFFICIAL

---

**From:** Barisic, Natalie  
**Sent:** Wednesday, 3 February 2021 2:26 PM  
**To:** Collins, Jen <Jen.Collins@act.gov.au>; Libby Gordon (Libby.Gordon@act.gov.au) <Libby.Gordon@act.gov.au>  
**Subject:** FW: Lead Air Monitoring + Dust Results - Old Bus Depot, Kingston

OFFICIAL

Hi Ladies

Please see the attached report from Safe Work & Environments in regards to lead dust sampling for discussion this afternoon.

Thanks  
Natalie

---

**From:** [Schedule 2.2\(a\)\(ii\)](#)  
**Sent:** Wednesday, 3 February 2021 1:11 PM  
**To:** Barisic, Natalie <[Natalie.Barisic@act.gov.au](mailto:Natalie.Barisic@act.gov.au)>; McNamara, Conor <[Conor.McNamara@act.gov.au](mailto:Conor.McNamara@act.gov.au)>  
**Subject:** FW: Lead Air Monitoring + Dust Results - Old Bus Depot, Kingston

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Natalie,

This is SWE report for ongoing construction works

Still waiting on Robsons report

[Schedule 2.2\(a\)\(ii\)](#)

---

**From:** [Schedule 2.2\(a\)\(ii\)](#)  
**Sent:** Wednesday, 3 February 2021 1:08 PM  
**To:** [Schedule 2.2\(a\)\(ii\)](#)  
**Subject:** FW: Lead Air Monitoring + Dust Results - Old Bus Depot, Kingston

[Schedule](#)

Please see attached result of lead testing conducted by Safe Work & Environments.

Kind Regards

[Schedule 2.2\(a\)\(ii\)](#)

Site Engineer

T 02 6162 0232 | [Schedule 2.2\(a\)\(ii\)](#)

24 Lithgow St, Fyshwick ACT 2609

signature\_1255920663

[www.monarchbuildingsolutions.com.au](http://www.monarchbuildingsolutions.com.au) |

Graphical user interface Description automatically generated



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**From:** Schedule 2.2(a)(ii)

**Sent:** Wednesday, 3 February 2021 1:05 PM

**To:** Schedule 2.2(a)(ii)

**Subject:** Lead Air Monitoring + Dust Results - Old Bus Depot, Kingston

Hi Schedule 2.2(a)(ii),

Please find the attached reports.

If you have any questions please don't hesitate to contact me.

Schedule 2.2(a)(ii)

Senior Hazardous Materials Consultant

P: [02 8757 3611](tel:0287573611)

Schedule 2.2(a)(ii)

W: [www.swe.com.au](http://www.swe.com.au)

A: Suite 7, 103 Majors Bay Road, Concord, NSW, 2137



NSW

02 8757 3611  
7/103 Majors Bay  
Road  
CONCORD NSW  
2137

ACT

02 6247 0022  
S1/25 Dickson  
Place  
DICKSON ACT  
2611



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**ATMOSPHERIC LEAD MONITORING REPORT  
C109539.2 / PBM1.v1 / 01.02.2021**

03 February 2021

**Attention:** Schedule 2.2(a)(ii) – Site Engineer  
**Company:** Monarch Building Solutions  
**Fax/email:** Schedule 2.2(a)(ii)

**SWE Project No.:** C109539.2  
**Sampling Date:** 01 February 2021  
**Site Address:** Old Bus Depot Building, 21 Wentworth Avenue, Kingston ACT

SAMPLE ID.	LOCATION OF SAMPLE	TIME ON	TIME OFF	FLOW (Litres/min)	Volume (m <sup>3</sup> )	Pb on filter (mg)	Result (mg/m <sup>3</sup> )
200120/IOM02	Lower hall, SE end, window still	0913	1455	2.00	0.684	<0.001	<0.0014
200120/IOM7N	Lower hall, south, atop electrical cabinet	0914	1456	2.00	0.684	<0.001	<0.0014
200120/IOM07	Lower hall, ramp rail	0915	1457	2.00	0.684	<0.001	<0.0014
200120/IOM03	Upper hall, ramp rail	0916	1458	2.00	0.684	<0.001	<0.0014
200120/IOM08	Lower hall, east, adjacent roller door	0917	1459	2.00	0.684	<0.001	<0.0014

**Sampling Description:** Static monitoring for atmospheric lead was undertaken to assess the concentration of inhalable lead within airborne dusts following the discovery of lead dusts within the site building.

**Sampling Methodology:** Airborne lead monitoring was carried out in accordance with the Australian Standard: AS 3640-2009 – ‘Workplace Atmospheres Method for Sampling and Gravimetric Determination of Inhalable Dust’ and SWE’s In-House Method 2 – Air Volume Measurement.

**Analysis:** Laboratory analysis of the samples was undertaken by Envirolab Services in accordance with their NATA accredited methodology titled *Determination of various metals on filters by ICP-AES/MS and or CV/AAS*.

**Conclusion:** All air monitoring analytical results reported are below the detection limit for the laboratory method and the adopted Action Limit (50% of the exposure standard) of 0.025mg/m<sup>3</sup>. Furthermore, all results are below the maximum permissible Time Weighted Average (TWA) exposure standard of 0.05mg/m<sup>3</sup> as per the Safe Work Australia adopted guideline titled *Workplace Exposure Standards for Airborne Contaminants 2019*.

Please contact me via the undersigned details should you have any queries regarding this report.

Schedule 2.2(a)(ii)

Senior Hazardous Materials Consultant  
**Safe Work & Environments Pty Ltd**

C109546.2-PBM1.v1-LeadAirMonitoringReport-01022021

**Safe Work and Environments Pty Ltd 88127010995**  
 Suite S1, 25 Dickson Chambers, Dickson Place, Dickson ACT 2602  
 Phone: 02 6247 0022  
 Email: [enquiries@swe.com.au](mailto:enquiries@swe.com.au)

3 February 2021

**Attention:** [Schedule 2.2(a)(i)] – Site Engineer  
**Company:** Monarch Building Solutions  
**Fax/email:** [Schedule 2.2(a)(ii)]

Dear [Schedule 2.2(b)]

**LEAD DUST SAMPLING  
 OLD BUS DEPOT BUILDING, 21 WENTWORTH AVENUE, KINGSTON ACT**

Safe Work and Environments Pty Ltd (SWE) was engaged by [Schedule 2.2(a)(i)] of Monarch Building Solutions to undertake lead dust sampling within the current old bus depot work site located at the above mentioned address.

The sampling was carried out by [Schedule 2.2(a)(ii)] (WHS&E Consultant) on 01 February 2021. Six (6) lead surface dust swab samples and Five (5) bulk dust were obtained. The samples were sent to Envirolab Services, a NATA accredited laboratory for lead identification analysis by ICP-AES. The results of the sampling are presented in the below table.

**TABLE 1: LEAD DUST SURFACE SWABS**

Sample Identification	Location of Sample	Matrix Swab	Result per Swab µg	Result (mg/m <sup>2</sup> )
C109546.1-LS01	Lower hall, central, floor	Surface Dust	160	16
C109546.1-LS02	Lower hall, north, wall	Surface Dust	23	2.3
C109546.1-LS03	Lower hall, south, wall	Surface Dust	15	1.5
C109546.1-LS04	Upper hall, central, floor	Surface Dust	10	1
C109546.1-LS05	Upper hall, south, wall	Surface Dust	<1	<0.1
C109546.1-LS06	Upper hall, north, wall	Surface Dust	<1	<0.1

The below lead dust guidelines are extracted from Australian Standards AS 4361.2-1998, Section 5.6.4.2 (Surface Dust Lead Loadings) after lead paint management activities. The permissible amount of leaded dust remaining on each of the following surfaces following lead hazard work is:

- 1 mg/m<sup>2</sup> on floors (carpeted or uncarpeted)
- 5 mg/m<sup>2</sup> on interior window sills (or stools).
- 8 mg/m<sup>2</sup> on window troughs (the area where the sash sits when closed).
- 8 mg/m<sup>2</sup> on exterior concrete (1 mg = 1000 µg).

C109546.1-PBS1.v1-LeadDust-01022021

**Safe Work and Environments Pty Ltd ABN 88127010995**  
 Suite 35, 103 Majors Bay Road, Concord NSW 2137  
 Phone: 02 8757 3611 Fax: 02 8757 3612  
 Email: [enquiries@swe.com.au](mailto:enquiries@swe.com.au)

**TABLE 2: LEAD BULK DUST**

Sample Identification	Location of Sample	Sample Type	Assessment Criteria (mg/kg)	Result (mg/kg)
C109546.1-LD01	Dismantled light fixtures, dust on fluroecent dual long fixtures stacked	Bulk Dust	300	600
C109546.1-LD02	Dismantled light fixtures, dust on circular fixtures	Bulk Dust	300	790
C109546.1-LD03	Lower hall, NW corner of building, acculated dust on floor	Bulk Dust	300	400
C109546.1-LD04	Lower hall, food court store room, fire stairs landing, dust on floor	Bulk Dust	300	450
C109546.1-LD05	Upper hall, foreshore store room, dust adjacent kitchenette, floor	Bulk Dust	300	2,500

In the absence of a legislative standard, SWE (in consultation with the Department of Health and Safework NSW) and Monarch Building Solutions has adopted a threshold of **300 mg/kg** which is considered appropriate for residential roof / ceiling cavities).

Trusting the foregoing has been of assistance, please do not hesitate to contact our office on 02 8757 3611 if you require further information or assistance.

Regards,

**Schedule 2.2(a)(ii)**

Senior Hazardous Materials Consultant

**Attachments A: Certificate of Analysis**  
**Attachments B: Site Plan**

C109546.1-PBS1.v1-LeadDust-01022021

**Safe Work and Environments Pty Ltd ABN 88127010995**  
Suite 35, 103 Majors Bay Road, Concord NSW 2137  
Phone: 02 8757 3611 Fax: 02 8757 3612  
Email: [enquiries@swe.com.au](mailto:enquiries@swe.com.au)

## ATTACHMENT A: CERTIFICATE OF ANALYSIS

C109546.1-PBS1.v1-LeadDust-01022021

**Safe Work and Environments Pty Ltd ABN 88127010995**  
Suite 35, 103 Majors Bay Road, Concord NSW 2137  
Phone: 02 8757 3611 Fax: 02 8757 3612  
Email: [enquiries@swe.com.au](mailto:enquiries@swe.com.au)



## CERTIFICATE OF ANALYSIS 260772

### Client Details

<b>Client</b>	Safe Work & Environments
<b>Attention</b>	Schedule 2.2(a)(ii)
<b>Address</b>	7/103 Majors Bay Rd, Concord, NSW, 2137

### Sample Details

<b>Your Reference</b>	<b>S109539.1</b>
<b>Number of Samples</b>	5 Dust, 6 Swab
<b>Date samples received</b>	02/02/2021
<b>Date completed instructions received</b>	02/02/2021

### Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.  
 Samples were analysed as received from the client. Results relate specifically to the samples as received.  
 Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

### Report Details

<b>Date results requested by</b>	02/02/2021
<b>Date of Issue</b>	02/02/2021
NATA Accreditation Number 2901. This document shall not be reproduced except in full.	
Accredited for compliance with ISO/IEC 17025 - Testing. <b>Tests not covered by NATA are denoted with *</b>	

**Results Approved By**

Schedule 2.2(a)(ii), Metals Supervisor

**Authorised By**

Schedule 2.2(a)(ii)

Schedule 2.2(a)(ii), Laboratory Manager

Lead (dust)						
Our Reference		260772-1	260772-2	260772-3	260772-4	260772-5
Your Reference	UNITS	LD01	LD02	LD03	LD04	LD05
Date Sampled		01/02/2021	01/02/2021	01/02/2021	01/02/2021	01/02/2021
Type of sample		Dust	Dust	Dust	Dust	Dust
Date prepared	-	02/02/2021	02/02/2021	02/02/2021	02/02/2021	02/02/2021
Date analysed	-	02/02/2021	02/02/2021	02/02/2021	02/02/2021	02/02/2021
Lead	mg/kg	600	790	400	450	2,500

Lead in swab						
Our Reference		260772-6	260772-7	260772-8	260772-9	260772-10
Your Reference	UNITS	LS01	LS02	LS03	LS04	LS05
Date Sampled		01/02/2021	01/02/2021	01/02/2021	01/02/2021	01/02/2021
Type of sample		Swab	Swab	Swab	Swab	Swab
Date prepared	-	02/02/2021	02/02/2021	02/02/2021	02/02/2021	02/02/2021
Date analysed	-	02/02/2021	02/02/2021	02/02/2021	02/02/2021	02/02/2021
Lead in Swabs	µg/swab	160	23	15	10	<1

Lead in swab		
Our Reference		260772-11
Your Reference	UNITS	LS06
Date Sampled		01/02/2021
Type of sample		Swab
Date prepared	-	02/02/2021
Date analysed	-	02/02/2021
Lead in Swabs	µg/swab	<1

Method ID	Methodology Summary
<b>Metals-020</b>	Determination of various metals by ICP-AES.
<b>Metals-020/021/022</b>	Digestion of Dust wipes/swabs and /or miscellaneous samples for Metals determination by ICP-AES/MS and/or CV-AAS

QUALITY CONTROL: Lead (dust)				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			02/02/2021	[NT]	[NT]	[NT]	[NT]	02/02/2021	[NT]
Date analysed	-			02/02/2021	[NT]	[NT]	[NT]	[NT]	02/02/2021	[NT]
Lead	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	93	[NT]

Client Reference: S109539.1

QUALITY CONTROL: Lead in swab				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			02/02/2021	[NT]	[NT]	[NT]	[NT]	02/02/2021	[NT]
Date analysed	-			02/02/2021	[NT]	[NT]	[NT]	[NT]	02/02/2021	[NT]
Lead in Swabs	µg/swab	1	Metals-020/021/022	<1	[NT]	[NT]	[NT]	[NT]	95	[NT]

**Result Definitions**

<b>NT</b>	Not tested
<b>NA</b>	Test not required
<b>INS</b>	Insufficient sample for this test
<b>PQL</b>	Practical Quantitation Limit
<b>&lt;</b>	Less than
<b>&gt;</b>	Greater than
<b>RPD</b>	Relative Percent Difference
<b>LCS</b>	Laboratory Control Sample
<b>NS</b>	Not specified
<b>NEPM</b>	National Environmental Protection Measure
<b>NR</b>	Not Reported

## Quality Control Definitions

<b>Blank</b>	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 exactly the same manner as for samples.
<b>Duplicate</b>	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
<b>Matrix Spike</b>	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.
<b>LCS (Laboratory Control Sample)</b>	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. It is simply a check sample.
<b>Surrogate Spike</b>	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.
Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.	
The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.	
Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2	

## Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

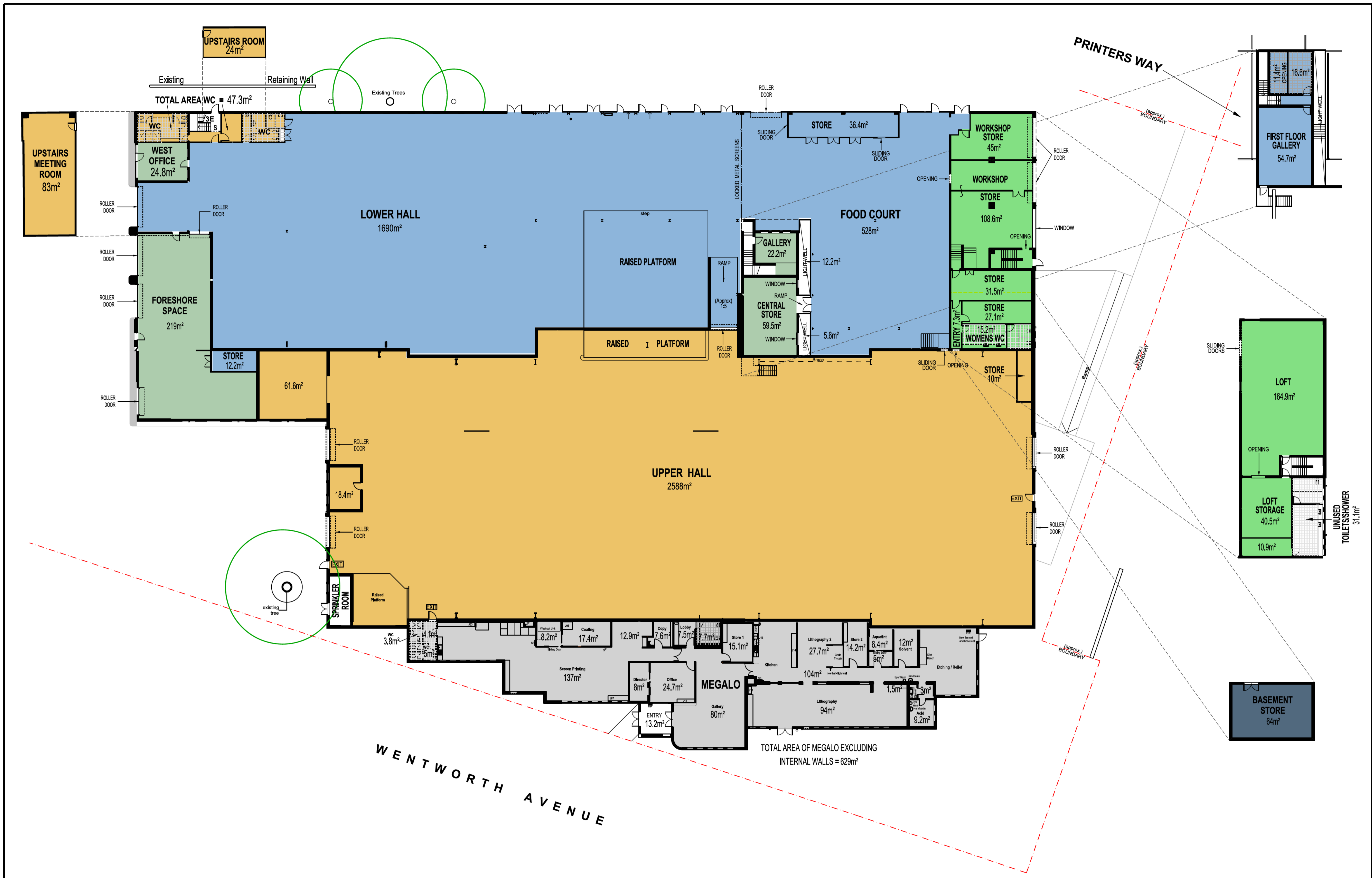
Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.



## ATTACHMENT B: SITE PLANS

C109546.1-PBS1.v1-LeadDust-01022021

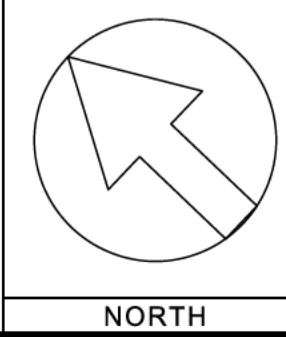
**Safe Work and Environments Pty Ltd ABN 88127010995**  
Suite 35, 103 Majors Bay Road, Concord NSW 2137  
Phone: 02 8757 3611 Fax: 02 8757 3612  
Email: [enquiries@swe.com.au](mailto:enquiries@swe.com.au)



Issue	Description	Drawn	Date
A	FLOOR PLANS	FB	APR 15

Drawn By : CUYEE DESIGN  
17 APRIL 2015

**Anthony Quinn Surveys Pty Ltd**  
Land & Engineering Surveyors  
TEL: 62550824 EMAIL: tonya@bigpond.com



Information shown on plan compiled from  
Phillipson Architects Floor Plans and  
Field Survey

Designed by  
Drawn by FB  
Checked by AQ  
Approved by AQ

PROJECT  
**FLOOR PLAN  
FORMER TRANSPORT BUILDING  
KINGSTON**

Drawing Title		
Job Number	Revision	A1
6837		

**From:** [Ozols, Peter](#)  
**To:** [Barisic, Natalie](#)  
**Subject:** RE: Lead Air Monitoring + Dust Results - Old Bus Depot, Kingston  
**Date:** Friday, 5 February 2021 9:30:43 AM  
**Attachments:** [image003.png](#)  
[image004.png](#)  
[image005.png](#)  
[image006.jpg](#)  
[image007.png](#)  
[image008.jpg](#)

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OFFICIAL

Thanks Nat

**PETER OZOLS | PROJECT OFFICER** | ACT PROPERTY GROUP-PROJECTS | CHIEF MINISTERS, TREASURY & ECONOMIC DEVELOPMENT DIRECTORATE | ACT GOVERNMENT | P: +61 2 621 30727 | F: +61 2 621 30735 | [Schedule 2.2\(a\)\(iii\)](#) | E: [peter.ozols@act.gov.au](mailto:peter.ozols@act.gov.au)

---

**From:** Barisic, Natalie <[Natalie.Barisic@act.gov.au](mailto:Natalie.Barisic@act.gov.au)>  
**Sent:** Friday, 5 February 2021 9:29 AM  
**To:** Ozols, Peter <[Peter.Ozols@act.gov.au](mailto:Peter.Ozols@act.gov.au)>  
**Subject:** FW: Lead Air Monitoring + Dust Results - Old Bus Depot, Kingston

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OFFICIAL

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**From:** Barisic, Natalie  
**Sent:** Wednesday, 3 February 2021 2:26 PM  
**To:** Collins, Jen <[Jen.Collins@act.gov.au](mailto:Jen.Collins@act.gov.au)>; Libby Gordon ([Libby.Gordon@act.gov.au](mailto:Libby.Gordon@act.gov.au)) <[Libby.Gordon@act.gov.au](mailto:Libby.Gordon@act.gov.au)>  
**Subject:** FW: Lead Air Monitoring + Dust Results - Old Bus Depot, Kingston

---

OFFICIAL

Hi Ladies

Please see the attached report from Safe Work & Environments in regards to lead dust sampling for discussion this afternoon.

Thanks  
Natalie

---

**From:** [Schedule 2.2\(a\)\(ii\)](#)  
**Sent:** Wednesday, 3 February 2021 1:11 PM  
**To:** Barisic, Natalie <[Natalie.Barisic@act.gov.au](mailto:Natalie.Barisic@act.gov.au)>; McNamara, Conor <[Conor.McNamara@act.gov.au](mailto:Conor.McNamara@act.gov.au)>  
**Subject:** FW: Lead Air Monitoring + Dust Results - Old Bus Depot, Kingston

**CAUTION:** This email originated from outside of the ACT Government. Do not click links or open attachments unless you recognise the sender and know the content is safe.

Natalie,

This is SWE report for ongoing construction works

Still waiting on Robsons report

[Schedule 2.2\(a\)\(ii\)](#)  
[Redacted]  
[Redacted]  
[Redacted]

---

**From:** [Schedule 2.2\(a\)\(ii\)](#)  
**Sent:** Wednesday, 3 February 2021 1:08 PM  
**To:** [Schedule 2.2\(a\)\(ii\)](#)  
[Redacted]  
**Subject:** FW: Lead Air Monitoring + Dust Results - Old Bus Depot, Kingston

[Schedule](#)

Please see attached result of lead testing conducted by Safe Work & Environments.

Kind Regards

Schedule 2.2(a)(ii)

Site Engineer

signature\_1255920663



T 02 6162 0232 | Schedule 2.2(a)(ii)

Schedule 2.2(a)(ii)

24 Lithgow St, FYSHWICK ACT 2609

[www.monarchbuildingsolutions.com.au](http://www.monarchbuildingsolutions.com.au) |

Graphical user interface Description automatically generated



**From:** Schedule 2.2(a)(ii)

**Sent:** Wednesday, 3 February 2021 1:05 PM

**To:** Schedule 2.2(a)(i)

**Subject:** Lead Air Monitoring + Dust Results - Old Bus Depot, Kingston

Hi Schedule 2.2

Please find the attached reports.

If you have any questions please don't hesitate to contact me.

Schedule 2.2(a)(ii)

Senior Hazardous Materials Consultant

P: 02 8757 3611

Schedule 2.2(a)(ii)

W: [www.swe.com.au](http://www.swe.com.au)

A: Suite 7, 103 Majors Bay Road, Concord, NSW, 2137



NSW

02 8757 3611  
7/103 Majors Bay  
Road  
CONCORD NSW  
2137

ACT

02 6247 0022  
S1/25 Dickson  
Place  
DICKSON ACT  
2611



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## LEAD CLEARANCE REPORT C109501-LCR2.v1

08 February 2021

**Attention:** Schedule 2.2(a)(ii)  
**Company:** Monarch Building Solutions  
**Fax/email:** Schedule 2.2(a)(ii)

**SWE Project No.:** C109501  
**Site Address:** Megalo Print Studio, 21 Wentworth Avenue, Kingston ACT  
**Date of works:** 4<sup>th</sup> February 2021  
**Report date:** 8<sup>th</sup> February 2021

**RE: C109501 - Clearance Report - Lead Dust Remediation Works: Megalo Print Studio Storeroom.**

### 1 INTRODUCTION

Safe Work and Environments Pty Ltd (SWE) was engaged by Monarch Building Solutions (MBS) to undertake a lead dust clearance inspection and report following the removal of lead dusts from a storeroom within the Megalo Print Studio located at 21 Wentworth Avenue, Kingston ACT. Schedule 2.2(a)(ii) (senior environmental consultant) carried out the lead dust clearance inspection upon completion of the remediation on the 4<sup>th</sup> of February 2021. This report summarises the extent of the remediation works undertaken and details the clearance inspection, sampling, results and conclusions of the assessment.

#### 1.1 Objectives

The objectives of the proposed remedial works and this lead clearance report were to ensure that Megalo Print Studio Storeroom, identified as harbouring lead contaminated dusts was cleaned to a satisfactory standard to achieve clearance via a visual inspection and air sampling analysis.

#### 1.2 Scope of Works

The scope of works involved the following:

- Visual inspection of the subject areas following the lead dust remediation works,
- Air monitoring for airborne lead surrounding the remediation areas during the lead dust remediation works,
- Analysis of the collected air monitoring samples by a NATA accredited laboratory,
- Preparation of a lead clearance report outlining the site data and conclusions.

### 2 ASSESSMENT CRITERIA & METHODOLOGY

At the completion of the remedial works, all remediated areas were inspected to ensure all dusts were removed. The visual inspection was undertaken to ensure all visible and accessible dusts within the ceiling void were removed. Where dusts were identified during the clearance inspection, further remedial works were undertaken until all visible and accessible dusts were removed.

Air monitoring was undertaken within the remedial work zones as well as on the boundaries of the delineated work areas to assess the concentration of airborne lead that may have been liberated due to the remediation works. Air monitoring and analysis of the filter samples were undertaken and reported in accordance with Australian Standard AS 3640-2009 - *Workplace Atmospheres Method for Sampling and Gravimetric Determination of Inhalable Dust*. Analytical results were reported against the exposure standard for lead as

0.05mg/m<sup>3</sup> of air which represents the maximum allowable average exposure over an eight-hour working day (as per the Safe Work Australia adopted guideline titled *Workplace Exposure Standards for Airborne Contaminants 2019*).

### 3 INSPECTION DETAILS & ANALYTICAL RESULTS

#### 3.1 Visual Inspection & Sampling

Lead dust remediation works were undertaken in a single day work shift, with visual inspection of the remediated areas undertaken immediately after completion. Flood light was shone along the remediated surfaces to illuminate any dust particles; all areas were cleaned until no loose dust was visible on the remediated surfaces. The areas covered by this clearance report are the Megalo Print Studio storage room illustrated within **Attachment B – Site Plan**.

Once the assessor was satisfied all visible and accessible dusts had been removed, the remediated areas were then sprayed with a PVA solution to lock down any dust particles on porous surfaces.

Airborne lead monitoring was undertaken during the remedial works to assess the effectiveness of the controls installed to prevent lead dust release to the adjacent areas. Results of the clearance sampling program are detailed in **Section 3.2** below.

#### 3.2 Air Monitoring Analytical Results

Airborne lead monitoring was undertaken during the remedial works at locations surrounding the remedial work area. Results of all air monitoring samples were below the detection limit for the analytical method at all locations. Results of all airborne lead monitoring events are provided in **Attachment A – Laboratory Reports**.

### 4 CONCLUSIONS AND RECOMMENDATIONS

In consideration of the works undertaken to achieve the objectives of this report, SWE makes the following conclusions and recommendations:

- The visual clearance inspection indicated that the visible and accessible areas of the Megalo Print Studio storeroom have been satisfactorily remediated and are safe to access with regard to the lead dust hazard.
- At the successful completion of the lead dust clearance inspection, the remediated areas were sprayed with a PVA solution to lock down any inaccessible dust / dust stuck to porous surfaces.
- All airborne lead monitoring sampling undertaken during the remediation works returned an analytical result at or below the detection limit for the method 0.001 mg/m<sup>3</sup> or below, which is below the acceptance criteria of 0.05mg/m<sup>3</sup>.
- Lead containing dusts remain within the building, specifically within the ceiling voids distinguished by plasterboard ceiling linings.
- Areas known to contain lead dusts must not be accessed without the appropriate controls and protections in place. The selection of the most appropriate control measures should be determined from risk assessments and detailed knowledge of the workplace and activities. Control measures such as training and communication strategies, control of contractors, administrative procedures and PPE must be considered as part of the overall Hazardous Materials Management Plan.
- At the completion of all remedial works the Hazardous Materials Register for the building / site should be updated to reflect the removed and remaining hazardous materials within the site.

## 5 STATEMENT OF LIMITATIONS

This report and the associated services performed by SWE Pty Ltd are in accordance with the scope of services set out in the contract between SWE and the Client. The scope of services was defined by the requests of the Client, by the time and budgetary constraints imposed by the Client, and by the availability of access to the site.

SWE derived the data in this report primarily from visual inspections, examination of available records, interviews with individuals with information about the site, and if requested, limited sample collection and analysis made on the dates indicated. In preparing this report, SWE has relied upon, and presumed accurate, certain information (or absence thereof) provided by government authorities, the Client and others identified herein. Except as otherwise stated in the report, SWE has not attempted to verify the accuracy or completeness of any such information.

Limitations also apply to analytical methods used in the identification of substances (or parameters). These limitations may be due to non-homogenous material being sampled (i.e. the sample to be analysed may not be representative), low concentrations, the presence of 'masking' agents and the restrictions of the approved analytical technique. As such, non-statistically significant sampling results can only be interpreted as 'indicative' and not used for quantitative assessments.

No warranty, undertaking, or guarantee, whether expressed or implied, is made with respect to the data reported or to the findings, observations, conclusions and recommendations expressed in this report. Furthermore, such data, findings, observations, conclusions and recommendations are based solely upon existence at the time of the investigation. The passage of time, manifestation of latent conditions or impacts of future events (e.g. changes in legislation, scientific knowledge, land uses, etc) may require further investigation at the site with subsequent data analysis and re-evaluation of the findings, observations, conclusions and recommendations expressed in this report.

This report has been prepared on behalf of and for the exclusive use of the Client, and is subject to and issued in connection with the provisions of the agreement between SWE and the Client. SWE accepts no liability or responsibility whatsoever and expressly disclaims any responsibility for or in respect of any use of or reliance upon this report by any third party or parties. It is the responsibility of the Client to accept if the Client so chooses any recommendations contained within and implement them in an appropriate, suitable and timely manner.

Please do not hesitate to contact the undersigned for any further information or assistance.

Kind Regards,

Schedule 2.2(a)(ii)

Senior Environmental Consultant

**Safe Work and Environments Pty Ltd**

PO Box 230, Dickson ACT 2602

Schedule 2.2(a)(ii)

## **Attachment A – Photographs**



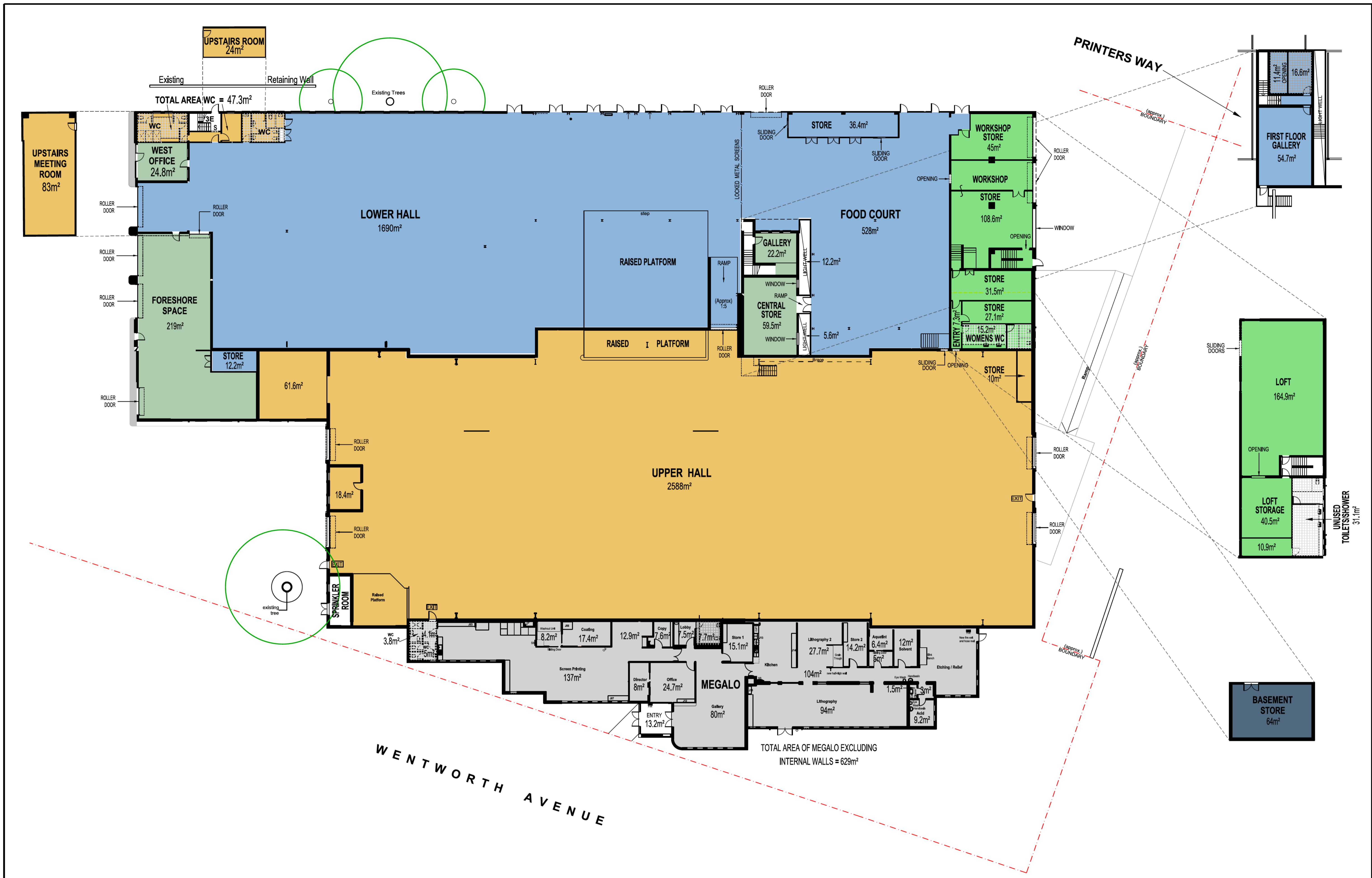


**Photograph 1:** Storeroom ceiling void following lead dust removal.



**Photograph 2:** Storeroom ceiling void following lead dust removal.

## Attachment B – Site Plan



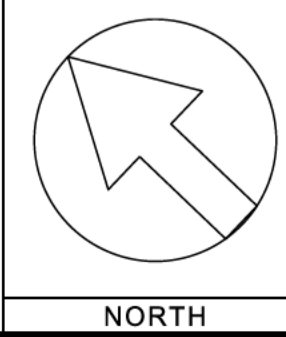
TOTAL AREA WC = 47.3m<sup>2</sup>

TOTAL AREA OF MEGALO EXCLUDING INTERNAL WALLS = 629m<sup>2</sup>

Issue	Description	Drawn	Date
A	FLOOR PLANS	FB	APR 15

Drawn By : CUYEE DESIGN  
17 APRIL 2015

**Anthony Quinn Surveys Pty Ltd**  
Land & Engineering Surveyors  
TEL: 62550824 EMAIL: tonya@bigpond.com



Information shown on plan compiled from Philpleeson Architects Floor Plans and Field Survey

Designed by  
Drawn by FB  
Checked by AQ  
Approved by AQ

PROJECT  
**FLOOR PLAN  
FORMER TRANSPORT BUILDING  
KINGSTON**

Drawing Title		
Job Number	Revision	A1
6837		

## Attachment C – Laboratory Reports

**ATMOSPHERIC LEAD MONITORING REPORT  
C109501 / PBM1.v1 / 04.02.2021**

8 February 2021

**Attention:** [Redacted] – Site Engineer

**Company:** Monarch Building Solutions

**Fax/email:** [Redacted] **Schedule 2.2(a)(ii)**

**SWE Project No.:** C109501

**Sampling Date:** 04 February 2021

**Site Address:** Megalo Print Room, 21 Wentworth Avenue, Kingston ACT

SAMPLE ID.	LOCATION OF SAMPLE	TIME ON	TIME OFF	FLOW (Litres/min)	Volume (m <sup>3</sup> )	Pb on filter (mg)	Result (mg/m <sup>3</sup> )
040221/IOM07	Attached to doorway to storeroom	1113	1226	2.00	0.146	<0.001	<0.001
040221/IOM08	Hallway doorway, beneath AC unit	1114	1227	2.00	0.146	<0.001	<0.001
040221/IOM09	Reception area, main office desk	1115	1227	2.00	0.144	<0.001	<0.001
040221/IOM10	Kitchenette, top of fridge/	1116	1228	2.00	0.144	<0.001	<0.001
040221/IOM11	Field Blank.	-	-	-	-	<0.001	-

**Sampling Description:** Static monitoring for atmospheric lead was undertaken to assess the concentration of inhalable lead within airborne dusts during lead dust remediation works.

**Sampling Methodology:** Airborne lead monitoring was carried out in accordance with the Australian Standard: AS 3640-2009 – ‘Workplace Atmospheres Method for Sampling and Gravimetric Determination of Inhalable Dust’ and SWE’s In-House Method 2 – Air Volume Measurement.

**Analysis:** Laboratory analysis of the samples was undertaken by Envirolab Services in accordance with their NATA accredited methodology titled *Determination of various metals on filters by ICP-AES/MS and or CV/AAS*.

**Conclusion:** All air monitoring analytical results reported are below the detection limit for the laboratory method and the adopted Action Limit (50% of the exposure standard) of 0.025mg/m<sup>3</sup>. Furthermore, all results are below the maximum permissible Time Weighted Average (TWA) exposure standard of 0.05mg/m<sup>3</sup> as per the Safe Work Australia adopted guideline titled *Workplace Exposure Standards for Airborne Contaminants 2019*.

Please contact me via the undersigned details should you have any queries regarding this report.

[Redacted] **Schedule 2.2(a)(ii)**

Senior Environmental Consultant  
Safe Work & Environments Pty Ltd

C109501-PBM1.v1-LeadAirMonitoringReport-040221

Safe Work and Environments Pty Ltd 88127010995  
Suite S1, 25 Dickson Chambers, Dickson Place, Dickson ACT 2602  
Phone: 02 6247 0022  
Email: [enquiries@swe.com.au](mailto:enquiries@swe.com.au)



## CERTIFICATE OF ANALYSIS 261021

### Client Details

Client	Safe Work & Environments
Attention	Schedule 2.2(a)(ii)
Address	7/103 Majors Bay Rd, Concord, NSW, 2137

### Sample Details

Your Reference	<b>C109501</b>
Number of Samples	5 Filter
Date samples received	05/02/2021
Date completed instructions received	05/02/2021

### Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.  
Samples were analysed as received from the client. Results relate specifically to the samples as received.  
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

### Report Details

Date results requested by	05/02/2021
Date of Issue	05/02/2021

NATA Accreditation Number 2901. This document shall not be reproduced except in full.  
Accredited for compliance with ISO/IEC 17025 - Testing. **Tests not covered by NATA are denoted with \***

#### Results Approved By

Schedule 2.2(a)(ii) Metals Supervisor

#### Authorised By

Schedule 2.2(a)(ii)

Schedule 2.2(a)(ii), Laboratory Manager

Client Reference: C109501

Lead on filter						
Our Reference		261021-1	261021-2	261021-3	261021-4	261021-5
Your Reference	UNITS	04022021-IOM07	04022021-IOM08	04022021-IOM09	04022021-IOM10	04022021-IOM11
Date Sampled		04/02/2021	04/02/2021	04/02/2021	04/02/2021	04/02/2021
Type of sample		Filter	Filter	Filter	Filter	Filter
Date prepared	-	05/02/2021	05/02/2021	05/02/2021	05/02/2021	05/02/2021
Date analysed	-	05/02/2021	05/02/2021	05/02/2021	05/02/2021	05/02/2021
Lead	µg/filter	<1	<1	<1	<1	<1

Method ID	Methodology Summary
<b>Metals-020/021/022</b>	Determination of various metals on filters by ICP-AES/MS and or CV/AAS.



Client Reference: C109501

QUALITY CONTROL: Lead on filter				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			05/02/2021	[NT]	[NT]	[NT]	[NT]	05/02/2021	[NT]
Date analysed	-			05/02/2021	[NT]	[NT]	[NT]	[NT]	05/02/2021	[NT]
Lead	µg/filter	1	Metals-020/021/022	<1	[NT]	[NT]	[NT]	[NT]	100	[NT]

Result Definitions	
<b>NT</b>	Not tested
<b>NA</b>	Test not required
<b>INS</b>	Insufficient sample for this test
<b>PQL</b>	Practical Quantitation Limit
<b>&lt;</b>	Less than
<b>&gt;</b>	Greater than
<b>RPD</b>	Relative Percent Difference
<b>LCS</b>	Laboratory Control Sample
<b>NS</b>	Not specified
<b>NEPM</b>	National Environmental Protection Measure
<b>NR</b>	Not Reported

## Quality Control Definitions

<b>Blank</b>	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 exactly the same manner as for samples.
<b>Duplicate</b>	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
<b>Matrix Spike</b>	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.
<b>LCS (Laboratory Control Sample)</b>	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. It is simply a check sample.
<b>Surrogate Spike</b>	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.
Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.	
The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.	
Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2	

## Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

**From:** [Tyler, Sam](#)  
**To:** [Power, Rebecca](#)  
**Cc:** [Gordon, Libby](#)  
**Subject:** FW: QTB - FTD  
**Date:** Tuesday, 9 February 2021 11:47:06 AM  
**Attachments:** [WIRE - CM21-4350 5. Former Transport Depot, Kinaston.DOCX](#)

---

OFFICIAL

Hi Rebecca

I am sure that you are across this! Just wanted to add the extra loop in.

I look forward to catching up on Friday

sam

---

**From:** Tyler, Sam  
**Sent:** Tuesday, 9 February 2021 8:45 AM  
**To:** McNamara, Conor <Conor.McNamara@act.gov.au>  
**Cc:** Gordon, Libby <Libby.Gordon@act.gov.au>; Collins, Jen <Jen.Collins@act.gov.au>  
**Subject:** QTB - FTD

OFFICIAL: Sensitive

Good Morning Conor

We have prepared the attached QTB on the FTD for the sitting period starting today. It is going across to the Minister's Office this morning but I wanted to ensure that MPC had a copy and were aware that it had been prepared. Not sure if you can send it up the line for awareness? Let me know if there are any concerns/issues. The information is generally consistent with key messages/MR information.

With thanks

Sam

CM2021/288

**Portfolio:** Arts

**ISSUE:** Former Transport Depot, Kingston

**Talking points:**

***[note: information about lead detection not publicly released (as at 5 Feb)]***

- Major upgrades are underway at the Former Transport Depot (FTD) in Kingston, home to the Old Bus Depot Markets, to improve the safety, accessibility and sustainability of the facility. The \$6.5 million (GST incl) capital works project is close to completion and includes a new roof, new lighting, and a new electrical system as well as public toilet upgrades to meet current accessibility standards.
- Recent testing of dust that may have been disturbed by the construction activities has found lead particles, and further testing is now underway to determine the process and methods for the building clean to remove the lead dust from the site safely.
- An environmental consultant has been engaged to ensure the safety of workers on site. Air monitoring shows the dust is not currently detectable in the air and therefore the risk to contractors working on the site is considered low. A full clean of all surfaces is however required after construction completion and before building re-opening.
- Iconic Markets and Events Pty Ltd operates the Old Bus Depot Markets on a weekly basis at the Former Transport Depot under a licence agreement with the Territory. ACT Government is liaising with the market operators and stallholders on the clean-up operations and to reassure them about their health and safety.
- It is likely that the lead dust has been present with minimal disturbance at the Former Transport Depot for many years. When left undisturbed and good personal hygiene practiced, the dust does not pose a significant risk to building users including market operators and visitors.
- The Markets have been closed since March 2020 due to the COVID-19 pandemic.

Cleared as complete and accurate: 05/02/2021  
Cleared by: Executive Branch Manager  
Contact Officer name: Sam Tyler Ext: 54365  
Lead Directorate: Chief Minister, Treasury and Economic Development  
Cleared for release: Choose an item  
Information Officer name:  
TRIM Ref: CM21/4350

- The Markets reopening date will be delayed by the site clean up and is yet to be confirmed .
- Megalo Print Studio occupies the Wentworth Offices which adjoins the Former Transport Depot upper hall. As a part of the upgrade works the roof at Megalo is also being replaced. Lead dust was discovered in the Megalo ceiling space in December 2020. As the lead particles were contained within the ceiling space, this issue was managed as part of standard construction Work, Health and Safety procedures and work on the Megalo roof replacement continued.
- The Megalo print studio has also been tested for surface and airborne lead and levels are within a safe range. The ceiling space is well sealed and the risk of exposure to building occupants is considered low.

## Key Information

- artsACT is the building custodian, ACT Property Group provides building management (repairs and maintenance) and Major Projects Canberra (MPC), Infrastructure Delivery Partners is the contract manager and delivery agency for the capital works project.
- On 25 November 2020 there was a safety incident at Megalo Print Studio Roof Replacement works where a vent which was not adequately supported within the roof structure dropped into an occupied space. No one was hurt, and Worksafe ACT was notified and conducted an investigation.
- Major Projects Canberra worked with Monarch Building Services on WHS procedures.
- As a result of 25 November 2020 incident, Major Projects Canberra instructed works to cease until thorough investigations in structure, hazardous materials, electrical wiring, and mechanical services could be completed.
- On 17 December 2020 artsACT was advised by Major Projects Canberra that dust found in the ceiling space at Megalo Print Studio contained lead particles. The dust was well contained in the ceiling space, and did not cause a risk to occupants as long as it remained undisturbed.
- In early January 2021 the lead dust in the Meglao Print Studio was removed around access hatches for maintenance purposes; and encapsulated in other areas. The dust was not disturbed during construction and did not cause an exposure risk.
- On 20 January 2021, Major Projects Canberra was advised that in the course of undertaking the construction works, dust samples collected from the Former Transport Depot were analysed and showed the presence of lead particles.

Cleared as complete and accurate: 05/02/2021  
Cleared by: Executive Branch Manager  
Contact Officer name: Sam Tyler Ext: 54365  
Lead Directorate: Chief Minister, Treasury and Economic Development  
Cleared for release: Choose an item  
Information Officer name:  
TRIM Ref: CM21/4350

## QUESTION TIME BRIEF

- Worksafe were notified of the situation on 20 January 2021 and have provided advice to Major Projects Canberra.
- The contractor, Monarch Building Solutions, is coordinating an appropriate response to this in accordance with the construction contract and the relevant legislation.
- Information was provided to the Minister for the Arts Office on 21 January 2021.
- From 20-22 January 2021, air monitoring test points were set up by the contractor inside the building. All results returned show that the concentration of atmospheric lead was below the detection limit and that the building is safe to occupy.
- The contractor has continued to undertake construction works in accordance with guidelines provided by the hazardous materials expert (Hygienist) including the air monitoring.
- Further clarification is being sought about the process and methodologies for remediation to remove the lead dust from the site in coordination with the construction program. There may be a delay to the completion of the construction program as a result of the cleaning required.
- The Old Bus Depot Market operators, Iconic, were informed of the current situation in a meeting on 4 February 2021 and do not currently have access to the building. Weekly meetings will be held with Iconic while the remediation occurs. Megalo have also been kept advised of relevant information and will continue to be updated as new information is available.

### Background Information

- Iconic Markets received rent relief from the ACT Government during the pandemic closure due to the significant economic impact on its business operations.

Cleared as complete and accurate: 05/02/2021  
Cleared by: Executive Branch Manager  
Contact Officer name: Sam Tyler Ext: 54365  
Lead Directorate: Chief Minister, Treasury and  
Economic Development  
Cleared for release Choose an item  
Information Officer name:  
TRIM Ref: CM21/4350

**From:** [Barisic\\_Natalie](#)  
**To:** [Whitehouse\\_Michael](#)  
**Cc:** [McNamara\\_Conor](#)  
**Subject:** FW: Kingston Old Bus Depot - Report on Lead Dust Findings  
**Date:** Tuesday, 9 February 2021 11:41:23 AM  
**Attachments:** [image002.png](#)  
[image005.png](#)  
[image006.png](#)  
[image007.png](#)  
[image008.png](#)  
[image009.png](#)  
[image010.jpg](#)  
[T10589\\_OldBusDepot\\_LeadDustAssessment\\_2021-02-01.pdf](#)

OFFICIAL

Hi Michael

Please see the attached report issued from Robson for your review and comments.

Please let me know if we need an independent reviewer as per your recommendation

Oh on another note – Do you need another WHS Officer? I received a CV from a good source, thought you might want to review???

Thanks  
Nat

---

**From:** [Schedule 2.2\(a\)\(ii\)](#)  
**Sent:** Tuesday, 9 February 2021 8:37 AM  
**To:** McNamara, Conor <Conor.McNamara@act.gov.au>; Collins, Jen <Jen.Collins@act.gov.au>  
**Cc:** [Schedule 2.2\(a\)\(ii\)](#) Barisic, Natalie <Natalie.Barisic@act.gov.au>  
**Subject:** FW: Kingston Old Bus Depot - Report on Lead Dust Findings

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[Schedule 2.2\(a\)\(ii\)](#)

---


**From:** [Schedule 2.2\(a\)\(ii\)](#)  
**Sent:** Monday, 8 February 2021 8:51 PM  
**To:** [Schedule 2.2\(a\)\(ii\)](#) Barisic, Natalie <[Natalie.Barisic@act.gov.au](mailto:Natalie.Barisic@act.gov.au)>; [Schedule 2.2\(a\)\(ii\)](#)  
**Subject:** RE: Kingston Old Bus Depot - Report on Lead Dust Findings

H [Schedule 2.2](#)

The Report is attached.

Thank you

[Schedule](#)

	<p><a href="#">Schedule 2.2(a)(ii)</a> <b>Managing Director</b> BSc, Grad Dip OcChygy, Cert IV T&amp;A, Licensed Asbestos Assessor, BOHS W504 Phone: 02 6239 5656 <a href="#">Schedule 2.2(a)(ii)</a> Fax: 02 6239 5669 <a href="#">Schedule 2.2(a)(ii)</a> Web: <a href="http://www.robsonenviro.com.au">www.robsonenviro.com.au</a></p>
---	---



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**From:** Schedule 2.2(a)(ii)

**Sent:** Monday, 8 February 2021 5:02 PM

**To:** Schedule 2.2(a)(ii)

**Cc:** Barisic, Natalie <Natalie.Barisic@act.gov.au>

**Subject:** RE: Kingston Old Bus Depot - Report on Lead Dust Findings

Hi Schedule 2.2

Yes the document has been drafted and it is being reviewed by Schedule 2.2(a) It will be through tonight. My COB will be a little later tonight.

My apologies for the delay.

Kind regards

Schedule 2.2



Schedule 2.2(a)(ii)

**Managing Director**  
BSc, Grad Dip OccHyg, Cert IV T&A, Licensed Asbestos Assessor, BOHS W504  
**Phone:** 02 6239 5656  
Schedule 2.2(a)(ii)  
**Fax:** 02 6239 5669  
Schedule 2.2(a)(ii)  
**Web:** [www.robsonenviro.com.au](http://www.robsonenviro.com.au)

140 Gladstone St Fyshwick ACT 2609 ~ PO Box 112 Fyshwick ACT 2609

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**From:** Schedule 2.2(a)(ii)

**Sent:** Monday, 8 February 2021 4:26 PM

**To:** Schedule 2.2(a)(ii)

**Cc:** Barisic, Natalie <Natalie.Barisic@act.gov.au>

**Subject:** Kingston Old Bus Depot - Report on Lead Dust Findings

Hi Schedule 2.2

Just touching base with the report on the lead dust findings. Are you able to provide by COB today as agreed? Thank you.

Kind Regards

Schedule 2.2(a)(ii)

Site Engineer



T 02 6162 0232 | Schedule 2.2(a)(ii)  
Schedule 2.2(a)(ii)  
24 Lithgow St, FYSHWICK ACT 2609  
[www.monarchbuildingsolutions.com.au](http://www.monarchbuildingsolutions.com.au) | □ □

Graphical user interface Description automatically generated



**From:** [redacted]  
**To:** [Barisic, Natalie](#)  
**Subject:** RE: Worksafe Number for Kingston Bus Depot Lead Dust  
**Date:** Tuesday, 9 February 2021 1:56:27 PM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image003.png](#)  
[image004.jpg](#)

---

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Hi Natalie,

We have checked discovering lead dust is not a reportable incident and Conor contacted Worksafe to confirm that.

Kind Regards

[redacted]  
Site Engineer

signature\_1255920663



T 02 6162 0232 | [Schedule 2.2\(a\)\(ii\)](#)

[redacted]  
24 Lithgow St, FYSHWICK ACT 2609

[www.monarchbuildingsolutions.com.au](http://www.monarchbuildingsolutions.com.au) |

Graphical user interface [redacted] Description automatically generated



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**From:** Barisic, Natalie <[Natalie.Barisic@act.gov.au](mailto:Natalie.Barisic@act.gov.au)>  
**Sent:** Tuesday, 9 February 2021 12:09 PM  
**To:** [Schedule 2.2\(a\)\(ii\)](#)  
**Subject:** FW: Worksafe Number for Kingston Bus Depot Lead Dust

OFFICIAL

Hi [redacted]

Do you have a copy of the report and number for WorksafeACT for the lead dust issue as per the below request from ACTPG?

Please forward across ASAP.

Thanks  
Nat

---

**From:** Schaidreiter, Robert <[Robert.Schaidreiter@act.gov.au](mailto:Robert.Schaidreiter@act.gov.au)>  
**Sent:** Monday, 8 February 2021 1:34 PM  
**To:** Barisic, Natalie <[Natalie.Barisic@act.gov.au](mailto:Natalie.Barisic@act.gov.au)>  
**Subject:** Worksafe Number for Kingston Bus Depot Lead Dust

Hi Natalie

Sorry to bother you

I've been asked for the WorksafeACT report number for the lead dust issue at KBD

Pete advised that it was reported but I can find the email with the number

It's for our WHS team

Cheers

**ROBERT SCHAIDREITER**  
DIRECTOR PROJECT TEAM | ACT PROPERTY GROUP | PROPERTY UPGRADES | CHIEF MINISTERS, TREASURY & ECONOMIC DEVELOPMENT DIRECTORATE | ACT GOVERNMENT | [www.act.gov.au](http://www.act.gov.au) | P: +61 2 621 30746 | [Schedule 2.2\(a\)\(ii\)](#) | F: +61 2 621 30735 | E: [robert.schaidreiter@act.gov.au](mailto:robert.schaidreiter@act.gov.au)

**From:** [redacted]  
**To:** Barisic, Natalie  
**Cc:** [redacted]; McNamara, Conor; Collins, Jen; [redacted]  
**Subject:** RE: Kingston Old Bus Depot - Notifications of workers on Site  
**Date:** Wednesday, 10 February 2021 10:37:54 AM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image003.png](#)  
[image004.png](#)  
[image005.png](#)  
[image006.png](#)  
[image007.jpg](#)

---

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Natalie,

All workers have been notified through their employers

These include consultants, subcontractors and Monarch direct employees

The employers have been notified that lead dust has been found at both Megalo building and Kingston Depot and we have that their employees should be blood tested as a precaution

Monarch has facilitated these blood tests and will meet the cost of the blood tests

[redacted]

---

**From:** Barisic, Natalie <Natalie.Barisic@act.gov.au>  
**Sent:** Tuesday, 9 February 2021 5:27 PM  
**To:** [redacted]; McNamara, Conor <Conor.McNamara@act.gov.au>; Collins, Jen <Jen.Collins@act.gov.au>  
**Subject:** RE: Kingston Old Bus Depot - Report on Lead Dust Findings

OFFICIAL

Hi [redacted]

Thank you for sending this over.

As discussed on the phone our catch up with Robson's on Thursday will be to identify any clarifications within the report and work together to formulate tasks and programme moving forward.

In the interim can you please confirm;

1. Who has Monarch notified about the lead dust findings? Has it been solely subcontractors or anyone who has signed on site?
2. Definition of essential work
3. The use of respiratory protection while completing works
4. Instruct Robson's to proceed with further investigations as per 6.1.2 of the report.

If you need any further clarifications, please let me know.

Thanks  
Natalie

---

**From:** [redacted]  
**Sent:** Tuesday, 9 February 2021 8:37 AM  
**To:** McNamara, Conor <Conor.McNamara@act.gov.au>; Collins, Jen <Jen.Collins@act.gov.au>  
**Cc:** [redacted]; Barisic, Natalie <Natalie.Barisic@act.gov.au>  
**Subject:** FW: Kingston Old Bus Depot - Report on Lead Dust Findings

---

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Schedule 2.2(a)(ii)

**From:** Schedule 2.2(a)(ii)

**Sent:** Monday, 8 February 2021 8:51 PM

**To:** Schedule 2.2(a)(ii)

Barisic, Natalie <[Natalie.Barisic@act.gov.au](mailto:Natalie.Barisic@act.gov.au)>; Schedule 2.2(a)(ii)

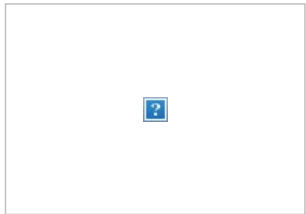

**Subject:** RE: Kingston Old Bus Depot - Report on Lead Dust Findings

Hi Schedule 2.2(a)(ii)

The Report is attached.

Thank you

Schedule 2.2(a)(ii)

	 <b>Schedule 2.2(a)(ii)</b> <b>Managing Director</b> BSc, Grad Dip OccHyg, Cert IV T&A, Licensed Asbestos Assessor, BOHS W504 Phone: 02 6239 5656 <b>Schedule 2.2(a)(ii)</b> Fax: 02 6239 5669 <b>Schedule 2.2(a)(ii)</b> Web: <a href="http://www.robsonenviro.com.au">www.robsonenviro.com.au</a> 140 Gladstone St Fyshwick ACT 2609 ~ PO Box 112 Fyshwick ACT 2609 Best Practice Certification for AS/NZS ISO 9001:2008 - Quality ~ ISO 14001:2004 - OHS ~ AS/NZS 4801 2001 - Environment
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**From:** Schedule 2.2(a)(ii)

**Sent:** Monday, 8 February 2021 5:02 PM

**To:** Schedule 2.2(a)(ii)

Barisic, Natalie <[Natalie.Barisic@act.gov.au](mailto:Natalie.Barisic@act.gov.au)>

**Subject:** RE: Kingston Old Bus Depot - Report on Lead Dust Findings

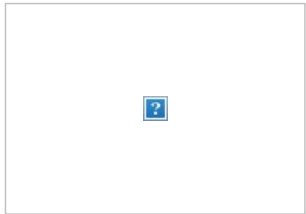

Hi Schedule 2.2(a)(ii)

Yes the document has been drafted and it is being reviewed by Marcus. It will be through tonight. My COB will be a little later tonight.

My apologies for the delay.

Kind regards

Schedule 2.2(a)(ii)

	 <b>Schedule 2.2(a)(ii)</b> <b>Managing Director</b> BSc, Grad Dip OccHyg, Cert IV T&A, Licensed Asbestos Assessor, BOHS W504 Phone: 02 6239 5656 <b>Schedule 2.2(a)(ii)</b> Fax: 02 6239 5669 <b>Schedule 2.2(a)(ii)</b> Web: <a href="http://www.robsonenviro.com.au">www.robsonenviro.com.au</a> 140 Gladstone St Fyshwick ACT 2609 ~ PO Box 112 Fyshwick ACT 2609 Best Practice Certification for AS/NZS ISO 9001:2008 - Quality ~ ISO 14001:2004 - OHS ~ AS/NZS 4801 2001 - Environment
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**From:** Schedule 2.2(a)(ii)  
**Sent:** Monday, 8 February 2021 4:26 PM  
**To:** Schedule 2.2(a)(ii)  
**Cc:** Barisic, Natalie <[Natalie.Barisic@act.gov.au](mailto:Natalie.Barisic@act.gov.au)>  
**Subject:** Kingston Old Bus Depot - Report on Lead Dust Findings

Hi Schedule 2.2

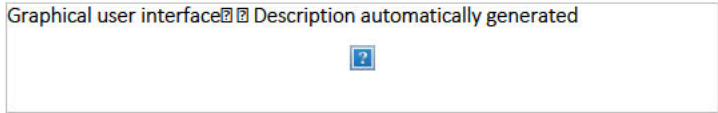
Just touching base with the report on the lead dust findings. Are you able to provide by COB today as agreed? Thank you.

Kind Regards

Schedule 2.2(a)(ii)  
Site Engineer



T 02 6162 0232 | Schedule 2.2(a)(ii)  
Schedule 2.2(a)(ii)  
24 Lithgow St, FYSHWICK ACT 2609  
[www.monarchbuildingsolutions.com.au](http://www.monarchbuildingsolutions.com.au) |



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-----

**From:** [redacted]  
**To:** Barisic, Natalie  
**Cc:** [redacted]; McNamara, Conor; Collins, Jen; [redacted]  
**Subject:** RE: Kingston Old Bus Depot - Robsons Role on Kingston Depot  
**Date:** Wednesday, 10 February 2021 10:29:03 AM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image003.png](#)  
[image004.png](#)  
[image005.png](#)  
[image006.png](#)  
[image007.jpg](#)

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Natalie,

Robsons have not been engaged by Monarch as the hygienist to advise on the completion of the construction at Megalo and Kingston Depot

Robsons have not been briefed on the remaining construction works

Robsons were engaged by Monarch at the request of Major Projects to advise on the remediation of the site after completion of construction to allow the safe occupation by arts ACT and their tenants

When the lead dust was discovered in Megalo Monarch engaged Safe Work and Environment as the hygienist for the remaining construction works at Megalo.

When lead dust was discovered also in Kingston Depot Safe Work & Environment was engaged to advise on the remaining construction work at Kingston Depot.

Safe Work & Environment has been consulted on all construction activities that have been undertaken on Megalo and Kingston Depot since lead dust was discovered in both buildings

Monarch employees have not carried out any cleaning or remediation work. Monarch has engaged Aztech a specialised lead remediation company to carry out this work after consultation with Safe Work & Environment. All construction work since the discovery of lead dust in both buildings has either been carried out directly by Aztech or the work area has been remediated in consultation with Safe Work & Environment before Monarch has allowed work to continue in that area.

Safe Work & Environment are available to discuss the work that has been undertaken

[redacted]  
[redacted]  
[redacted]

---

**From:** Barisic, Natalie <Natalie.Barisic@act.gov.au>  
**Sent:** Tuesday, 9 February 2021 5:27 PM  
**To:** [redacted]; McNamara, Conor <Conor.McNamara@act.gov.au>; Collins, Jen <Jen.Collins@act.gov.au>  
**Subject:** RE: Kingston Old Bus Depot - Report on Lead Dust Findings

OFFICIAL

Hi [redacted]

Thank you for sending this over.

As discussed on the phone our catch up with Robson's on Thursday will be to identified any clarifications within the report and work together to formulate tasks and programme moving forward.

In the interim can you please confirm;

1. Who has Monarch notified about the lead dust findings? Has it been solely subcontractors or anyone who has signed on site?
2. Definition of essential work
3. The use of respiratory protection while completing works
4. Instruct Robson's to proceed with further investigations as per 6.1.2 of the report.

If you need any further clarifications, please let me know.

Thanks  
Natalie

---

**From:** Schedule 2.2(a)(ii) [redacted]  
**Sent:** Tuesday, 9 February 2021 8:37 AM  
**To:** McNamara, Conor <[Conor.McNamara@act.gov.au](mailto:Conor.McNamara@act.gov.au)>; Collins, Jen <[Jen.Collins@act.gov.au](mailto:Jen.Collins@act.gov.au)>  
**Cc:** Schedule 2.2(a)(ii) [redacted] Barisic, Natalie <[Natalie.Barisic@act.gov.au](mailto:Natalie.Barisic@act.gov.au)>  
**Subject:** FW: Kingston Old Bus Depot - Report on Lead Dust Findings

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Schedule 2.2(a)(ii) [redacted]  
[redacted]  
[redacted]  
[redacted]

---

**From:** Schedule 2.2(a)(ii) [redacted]  
**Sent:** Monday, 8 February 2021 8:51 PM  
**To:** Schedule 2.2(a)(ii) [redacted]  
[redacted] Barisic, Natalie <[Natalie.Barisic@act.gov.au](mailto:Natalie.Barisic@act.gov.au)>; Schedule 2.2(a)(ii) [redacted]  
[redacted]  
[redacted]  
**Subject:** RE: Kingston Old Bus Depot - Report on Lead Dust Findings

Hi [redacted],

The Report is attached.

Thank you

[redacted]

[redacted]	
[redacted]	<p>Schedule 2.2(a)(ii) [redacted] <b>Managing Director</b> BSc, Grad Dip OccHyg, Cert IV T&amp;A, Licensed Asbestos Assessor, BOHS W504 Phone: 02 6239 5656 Schedule 2.2(a)(ii) [redacted] Fax: 02 6239 5669 Schedule 2.2(a)(ii) [redacted] Web: <a href="http://www.robsonenviro.com.au">www.robsonenviro.com.au</a></p> <p>140 Gladstone St Fyshwick ACT 2609 ~ PO Box 112 Fyshwick ACT 2609 Best Practice Certification for AS/NZS ISO 9001:2008 - Quality ~ ISO 14001:2004 - OHS ~ AS/NZS 4801 2001 - Environment</p>

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---

**From:** Schedule 2.2(a)(ii) [redacted]  
**Sent:** Monday, 8 February 2021 5:02 PM  
**To:** Schedule 2.2(a)(ii) [redacted]  
[redacted] Barisic, Natalie <[Natalie.Barisic@act.gov.au](mailto:Natalie.Barisic@act.gov.au)>  
**Subject:** RE: Kingston Old Bus Depot - Report on Lead Dust Findings



Hi [redacted],

Yes the document has been drafted and it is being reviewed by [redacted]. It will be through tonight. My COB will be a little later tonight.

My apologies for the delay.

Kind regards

Schedule 2.2(a)

	 <b>Schedule 2.2(a)(ii)</b> <b>Managing Director</b> BSc, Grad Dip OccHyg, Cert IV T&A, Licensed Asbestos Assessor, BOHS W504 <b>Phone: 02 6239 5656</b> <b>Schedule 2.2(a)(ii)</b> <b>Fax: 02 6239 5669</b> <b>Schedule 2.2(a)(ii)</b> Web: <a href="http://www.robsonenviro.com.au">www.robsonenviro.com.au</a>
<p>140 Gladstone St Fyshwick ACT 2609 ~ PO Box 112 Fyshwick ACT 2609 Best Practice Certification for AS/NZS ISO 9001:2008 - Quality ~ ISO 14001:2004 - OHS ~ AS/NZS 4801 2001 - Environment</p>	

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---

**From:** Schedule 2.2(a)(ii)  
**Sent:** Monday, 8 February 2021 4:26 PM  
**To:** Schedule 2.2(a)(ii)  
**Cc:** Barisic, Natalie <[Natalie.Barisic@act.gov.au](mailto:Natalie.Barisic@act.gov.au)>  
**Subject:** Kingston Old Bus Depot - Report on Lead Dust Findings

Hi Schedule 2.2(a)

Just touching base with the report on the lead dust findings. Are you able to provide by COB today as agreed? Thank you.

Kind Regards

Schedule 2.2(a)(ii)

Site Engineer

signature\_1255920663



T 02 6162 0232 | Schedule 2.2(a)(ii)  
Schedule 2.2(a)(ii)  
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---



**From:** [redacted]  
**To:** [Barisic, Natalie](#)  
**Cc:** [redacted]; [McNamara, Conor](#); [Collins, Jen](#); [redacted]  
**Subject:** RE: Kingston Old Bus Depot - Report on Lead Dust Findings  
**Date:** Wednesday, 10 February 2021 10:40:17 AM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image003.png](#)  
[image004.png](#)  
[image005.png](#)  
[image006.png](#)  
[image007.jpg](#)

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Natalie,

We have instructed Robson's to proceed with further investigations as per 6.1.2 of the report.

[redacted]  
[redacted]  
[redacted]

---

**From:** Barisic, Natalie <[Natalie.Barisic@act.gov.au](mailto:Natalie.Barisic@act.gov.au)>  
**Sent:** Tuesday, 9 February 2021 5:27 PM  
**To:** [redacted]; [McNamara, Conor](#) <[Conor.McNamara@act.gov.au](mailto:Conor.McNamara@act.gov.au)>; [Collins, Jen](#) <[Jen.Collins@act.gov.au](mailto:Jen.Collins@act.gov.au)>  
**Subject:** RE: Kingston Old Bus Depot - Report on Lead Dust Findings

OFFICIAL

Hi [redacted]

Thank you for sending this over.

As discussed on the phone our catch up with Robson's on Thursday will be to identify any clarifications within the report and work together to formulate tasks and programme moving forward.

In the interim can you please confirm;

1. Who has Monarch notified about the lead dust findings? Has it been solely subcontractors or anyone who has signed on site?
2. Definition of essential work
3. The use of respiratory protection while completing works
4. Instruct Robson's to proceed with further investigations as per 6.1.2 of the report.

If you need any further clarifications, please let me know.

Thanks  
Natalie

---

**From:** [redacted]  
**Sent:** Tuesday, 9 February 2021 8:37 AM  
**To:** [McNamara, Conor](#) <[Conor.McNamara@act.gov.au](mailto:Conor.McNamara@act.gov.au)>; [Collins, Jen](#) <[Jen.Collins@act.gov.au](mailto:Jen.Collins@act.gov.au)>  
**Cc:** [redacted]; [Barisic, Natalie](#) <[Natalie.Barisic@act.gov.au](mailto:Natalie.Barisic@act.gov.au)>  
**Subject:** FW: Kingston Old Bus Depot - Report on Lead Dust Findings

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[redacted]  
[redacted]  
[redacted]

**From:** Schedule 2.2(a)(ii)

**Sent:** Monday, 8 February 2021 8:51 PM

**To:** Schedule 2.2(a)(ii)

Barisic, Natalie <[Natalie.Barisic@act.gov.au](mailto:Natalie.Barisic@act.gov.au)>; Schedule 2.2(a)(ii)

**Subject:** RE: Kingston Old Bus Depot - Report on Lead Dust Findings

Hi Schedule 2.2(a)(ii),

The Report is attached.

Thank you

Schedule 2.2(a)(ii)

	<p style="text-align: center;">?</p> <p>Schedule 2.2(a)(ii)</p> <p><b>Managing Director</b> BSc, Grad Dip OccHyg, Cert IV T&amp;A, Licensed Asbestos Assessor, BOHS W504 Phone: 02 6239 5656 Schedule 2.2(a)(ii) Fax: 02 6239 5669 Schedule 2.2(a)(ii) Web: <a href="http://www.robsonenviro.com.au">www.robsonenviro.com.au</a></p> <p>140 Gladstone St Fyshwick ACT 2609 ~ PO Box 112 Fyshwick ACT 2609 Best Practice Certification for AS/NZS ISO 9001:2008 - Quality ~ ISO 14001:2004 - OHS ~ AS/NZS 4801 2001 - Environment</p>
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---

**From:** Schedule 2.2(a)(ii)

**Sent:** Monday, 8 February 2021 5:02 PM

**To:** Schedule 2.2(a)(ii)

Barisic, Natalie <[Natalie.Barisic@act.gov.au](mailto:Natalie.Barisic@act.gov.au)>

**Subject:** RE: Kingston Old Bus Depot - Report on Lead Dust Findings

Hi Schedule 2.2(a)(ii),

Yes the document has been drafted and it is being reviewed by Schedule 2.2(a)(ii). It will be through tonight. My COB will be a little later tonight.

My apologies for the delay.

Kind regards

Schedule 2.2(a)(ii)

	<p style="text-align: center;">?</p> <p>Schedule 2.2(a)(ii)</p> <p><b>Managing Director</b> BSc, Grad Dip OccHyg, Cert IV T&amp;A, Licensed Asbestos Assessor, BOHS W504 Phone: 02 6239 5656 Schedule 2.2(a)(ii) Fax: 02 6239 5669 Schedule 2.2(a)(ii) Web: <a href="http://www.robsonenviro.com.au">www.robsonenviro.com.au</a></p> <p>140 Gladstone St Fyshwick ACT 2609 ~ PO Box 112 Fyshwick ACT 2609 Best Practice Certification for AS/NZS ISO 9001:2008 - Quality ~ ISO 14001:2004 - OHS ~ AS/NZS 4801 2001 - Environment</p>
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**From:** Schedule 2.2(a)(ii)

**Sent:** Monday, 8 February 2021 4:26 PM

To: Schedule 2.2(a)(ii)

; Barisic, Natalie <[Natalie.Barisic@act.gov.au](mailto:Natalie.Barisic@act.gov.au)>

Subject: Kingston Old Bus Depot - Report on Lead Dust Findings


Hi Schedule 2.2(a)(ii),

Just touching base with the report on the lead dust findings. Are you able to provide by COB today as agreed? Thank you.




Kind Regards

Schedule 2.2(a)(ii)

Site Engineer

signature\_1255920663  


T 02 6162 0232 | Schedule 2.2(a)(ii)  
24 Lithgow St, Fyshwick ACT 2609  
[www.monarchbuildingsolutions.com.au](http://www.monarchbuildingsolutions.com.au) |

Graphical user interface   Description automatically generated  


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This email, and any attachments, may be confidential and also privileged. If you are not the intended recipient, please notify the sender and delete all copies of this transmission along with any attachments immediately. You should not copy or use it for any purpose, nor disclose its contents to any other person.  
-----

**From:** Schedule 2.2(a)(i)  
**To:** Barisic, Natalie  
**Cc:** McNamara, Conor; Collins, Jen; Schedule 2.2(a)(ii)  
**Subject:** FW: Kingston Depot Robsons Report comments from Safe Work & Environment  
**Date:** Wednesday, 10 February 2021 10:23:01 AM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image003.png](#)  
[image004.jpg](#)  
[C109358 - Letter of Advice - Old Bus Depot Halls Lead Dust.pdf](#)  
[RE Kingston Old Bus Depot - PPE Required for Workers.msg](#)

---

**CAUTION:** This email originated from outside of the ACT Government. Do not click links or open attachments unless you recognise the sender and know the content is safe.

Natalie,

When the lead dust was discovered in Megalo Monarch engaged Safe Work and Environment as the hygienist for the remaining construction works at Megalo.

When lead dust was discovered also in Kingston Depot Safe Work & Environment was engaged to advise on the remaining construction work at Kingston Depot.

Safe Work & Environment has been consulted on all construction activities that have been undertaken on Megalo and Kingston Depot since lead dust was discovered in both buildings

Following is Safe Work & Environment comments on Robsons report

Also attached is Safe Work & Environment's advice on the requirement to wear face masks

Please note Robsons has not been engaged to advise on construction activities.

Robsons were engaged by Monarch at the request of Major Projects to advise on the remediation of the site after completion of construction to allow the safe occupation by arts ACT and their tenants

Schedule 2.2(a)(i)

[Redacted]

---

**From:** Schedule 2.2(a)(ii) [Redacted]  
**Sent:** Wednesday, 10 February 2021 9:49 AM  
**To:** Schedule 2.2(a)(ii) [Redacted]  
[Redacted]  
**Subject:** RE: Kingston Depot Robsons Report

Hi [Redacted],

Robson have based their recommendations on extensive sampling of settled dusts and provided advice based on the results obtained from their assessment. Upon MBS's request, SWE undertook airborne lead assessment to assess the airborne lead risk and found no airborne lead present within the workplace under the assessed conditions. Hence, I stand by our practical,

evidence based recommendation regarding respiratory protection and the allowable activities within the old bus depot halls detailed in my 04/02/2021 email and SWE's Letter of Advice dated 25/01.2021 (both attached).

I see no issue with Robson' adopting a more conservative approach in regard to the respiratory PPE in the absence of air borne lead assessment data.

Regards,

Schedule 2.2(a)(ii)

Senior Environmental Consultant & ACT Manager

**Safe Work and Environments Pty Ltd**

PO Box 230, Dickson ACT 2602

Schedule 2.2(a)(ii)

[www.swe.com.au](http://www.swe.com.au)

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---

**From:** Schedule 2.2(a)(ii)

**Sent:** Wednesday, 10 February 2021 9:07 AM

**To:** Schedule 2.2(a)(ii)

**Subject:** Kingston Depot Robsons Report

Attached is Robson's report for the remediation of the site after Monarch completes their construction work

It indicates all persons should be wearing masks and only essential work should be carried out

Can you review in conjunction with your previous advice and provide a response

Regards

Schedule 2.2(a)(ii)

Project Manager

signature\_765877648



T 02 6162 0232 | Schedule 2.2(a)(ii)

24 Lithgow St, FYSHWICK ACT 2609

[www.monarchbuildingsolutions.com.au](http://www.monarchbuildingsolutions.com.au) |

**From:** [McNamara, Conor](#)  
**To:** **Schedule 2.2(a)(ii)**  
**Cc:** **Schedule 2.2(a)(ii)**; [Barisic, Natalie](#)  
**Subject:** RE: Kingston Depot & Megalo Completion of Construction Activities  
**Date:** Wednesday, 10 February 2021 2:05:22 PM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image003.png](#)  
[image004.png](#)  
[image005.png](#)  
[image006.png](#)  
[image007.jpg](#)

---

OFFICIAL

Thanks You **Schedule 2.2**,

**Schedule 2.2** thanks for following up.

Regards Conor

---

**From:** **Schedule 2.2(a)(ii)**  
**Sent:** Wednesday, 10 February 2021 11:51 AM  
**To:** **Schedule 2.2(a)(ii)**  
**Schedule 2.2**  
**Schedule 2.2** Barisic, Natalie <Natalie.Barisic@act.gov.au>;  
McNamara, Conor <Conor.McNamara@act.gov.au>  
**Subject:** RE: Kingston Depot & Megalo Completion of Construction Activities

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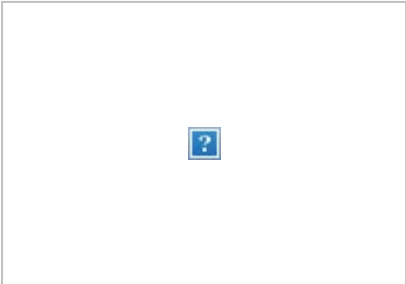

Hi **Schedule 2.2**

I am responding to the two sentence below that I have highlighted in Red.

The report is applicable to current and future construction activities. However as your current activities involves lead remediation works performed by Aztech and being overseen to approval by Safe Work & Environment then your current works should not present a potential lead exposure risk to staff undertaking the works.

Kind regards

**Schedule 2.2**

	
	
	<b>Schedule 2.2(a)(ii)</b>
	<b>Managing Director</b>
	BSc, Grad Dip OccHyg, Cert IV T&A, Licensed Asbestos Assessor, BOHS W504
	Phone: 02 6239 5656
	<b>Schedule 2.2(a)(ii)</b>
	Fax: 02 6239 5669
	<b>Schedule 2.2(a)(ii)</b>
	Web: <a href="http://www.robsonenviro.com.au">www.robsonenviro.com.au</a>

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**From:** Schedule 2.2(a)(ii)  
**Sent:** Wednesday, 10 February 2021 11:17 AM  
**To:** Schedule 2.2(a)(ii)  
**Cc:** Schedule 2.2(a)(ii) Natalie Barisic (ACT Government)  
<[Natalie.barisic@act.gov.au](mailto:Natalie.barisic@act.gov.au)>; McNamara, Conor <[Conor.McNamara@act.gov.au](mailto:Conor.McNamara@act.gov.au)>  
**Subject:** Kingston Depot & Megalo Completion of Construction Activities

Schedule 2.2(a)(ii)

As advised we have engaged Safe Work & Environment to advise on the completion of construction activities

These works should be complete by 19/2/2021

Monarch employees have not carried out any cleaning or remediation work. Monarch has engaged Aztech a specialised lead remediation company to carry out this work after consultation with Safe Work & Environment. All construction work since the discovery of lead dust in both buildings has either been carried out directly by Aztech or the work area has been remediated in consultation with Safe Work & Environment before Monarch has allowed work to continue in that area.

Your report notes that only essential activities should proceed

Are you able to clarify that your report only applies to the future remediation work not the current construction activities

Regards

Schedule 2.2(a)(ii)

Project Manager

signature\_765877648



T 02 6162 0232 | Schedule 2.2(a)(ii)

Schedule 2.2(a)(ii)

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**From:** [McNamara, Conor](#)  
**To:** [Edghill, Duncan](#); [Navarro, Tania](#)  
**Subject:** RE: URGENT - FTD - final draft emails & MR  
**Date:** Thursday, 11 February 2021 11:37:34 AM  
**Attachments:** [image001.png](#)  
[image002.jpg](#)

---

OFFICIAL: Sensitive

Tania,

I response to Duncan's query. The Australian Standard remains silent on maximum permissible levels and then refers to the relevant Jurisdiction. ACT Jurisdiction does not have permissible levels. Current permissible levels being adopted by hygienist are US levels, set by precedence. Worksafe defers to specialist advise (hygienist), hence "within safe range"

Regards Conor

---

**From:** Edghill, Duncan <[Duncan.Edghill@act.gov.au](mailto:Duncan.Edghill@act.gov.au)>  
**Sent:** Thursday, 11 February 2021 10:18 AM  
**To:** Navarro, Tania <[Tania.Navarro@act.gov.au](mailto:Tania.Navarro@act.gov.au)>  
**Cc:** McNamara, Conor <[Conor.McNamara@act.gov.au](mailto:Conor.McNamara@act.gov.au)>  
**Subject:** RE: URGENT - FTD - final draft emails & MR

OFFICIAL: Sensitive

Tania,

Thank you – I note these, but up to Arts ACT to ultimately clear thanks. With regards to the references to "within safe range" in the documents, I haven't been that closely involved or read relevant reports, so would need to rely on others having checked that assertion is correct. Suggest Adrian review please.

I don't need to see again.

Thanks

Duncan

---

**From:** Navarro, Tania <[Tania.Navarro@act.gov.au](mailto:Tania.Navarro@act.gov.au)>  
**Sent:** Thursday, 11 February 2021 9:28 AM  
**To:** Edghill, Duncan <[Duncan.Edghill@act.gov.au](mailto:Duncan.Edghill@act.gov.au)>  
**Cc:** McNamara, Conor <[Conor.McNamara@act.gov.au](mailto:Conor.McNamara@act.gov.au)>  
**Subject:** FW: URGENT - FTD - final draft emails & MR

OFFICIAL: Sensitive

Hi Duncan

I have received a new version of the media release from ArtsACT re Old Bus Depot markets site. I've reviewed and chatted to Conor.

The release now just delivers more certainty on action taken and next steps. I think it looks fine.

Other correspondence looks consistent too.

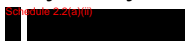
Let me know if all good.

Many thanks

Tania

**Tania Navarro** | Senior Director, Communications and Engagement

**Major Projects Canberra** | ACT Government



GPO Box 158, Canberra ACT 2601

[ACTGov\\_MPC\\_inline\\_black](#)



---

**From:** Johnston, ClaireV <[ClaireV.Johnston@act.gov.au](mailto:ClaireV.Johnston@act.gov.au)>



**Sent:** Wednesday, 10 February 2021 5:50 PM

**To:** Navarro, Tania <[Tania.Navarro@act.gov.au](mailto:Tania.Navarro@act.gov.au)>; McNamara, Conor <[Conor.McNamara@act.gov.au](mailto:Conor.McNamara@act.gov.au)>

**Cc:** Stewart-Moore, Karen <[Karen.Stewart-Moore@act.gov.au](mailto:Karen.Stewart-Moore@act.gov.au)>

**Subject:** URGENT - FTD - final draft emails & MR

Hi Tania and Conor

We've updated the media release and emails to stakeholders. Are you able to review before we send to Kareena for approval?

Looking to get these out tomorrow.

Many thanks

Claire

---

**From:** Gordon, Libby <[Libby.Gordon@act.gov.au](mailto:Libby.Gordon@act.gov.au)>

**Sent:** Wednesday, 10 February 2021 5:29 PM

**To:** Tyler, Sam <[Sam.Tyler@act.gov.au](mailto:Sam.Tyler@act.gov.au)>

**Cc:** Collins, Jen <[Jen.Collins@act.gov.au](mailto:Jen.Collins@act.gov.au)>; Johnston, ClaireV <[ClaireV.Johnston@act.gov.au](mailto:ClaireV.Johnston@act.gov.au)>

**Subject:** FTD - final draft emails & MR

**Importance:** High

Hi Sam

Minor comments on MR and draft emails to Megalo and Iconic for your review and approval – thanks.  
regards

Libby Gordon | Director, Arts Infrastructure & Public Art - artsACT

Economic Development | Chief Minister, Treasury and Economic Development | **ACT Government**

Phone 02 6205 5468 | [Schedule 2.2\(a\)\(ii\)](#) | Email: [libby.gordon@act.gov.au](mailto:libby.gordon@act.gov.au)

Level 4 Canberra Nara Centre, 1 Constitution Avenue Canberra City | GPO Box 158 Canberra ACT 2601



## CERTIFICATE OF ANALYSIS

<b>Certificate Number</b>	S996347 [R00]	<b>Page</b>	1/4
<b>Client</b>	SGS Environmental Services - Sydney	<b>Registering Laboratory</b>	Sydney
<b>Contact</b>	Schedule 2.2(a)(ii)	<b>Contact</b>	Customer Service Team
<b>Address</b>	16/33 Maddox St Alexandria NSW 2015	<b>Address</b>	2 Sirius Rd, Lane Cove West, NSW 2066
<b>Telephone</b>	02 8594 0400	<b>Email</b>	<a href="mailto:admin@symbiolabs.com.au">admin@symbiolabs.com.au</a>
<b>Order Number</b>	---	<b>Telephone</b>	1300 703 166
<b>Project ID</b>	SE216342 Water	<b>Date Samples Received</b>	11/02/2021
<b>Sampler</b>	Customer	<b>Date Analysis Commenced</b>	11/02/2021
<b>Client Job Reference</b>	SE216342	<b>Issue Date</b>	12/02/2021
<b>No. of Samples Registered</b>	6   Sampler: Customer	<b>Receipt Temperature (°C)</b>	5.5
<b>Priority</b>	Normal	<b>Storage Temperature (°C)</b>	4.0
		<b>Quote Number</b>	---



Accreditation No: 2455  
Accredited for compliance  
with ISO/IEC 17025 - Testing

This report supersedes any previous revision with this reference. This document must not be reproduced, except in full. If samples were provided by the customer, results apply only to the samples 'as received' and responsibility for representative sampling rests with the customer. Water results are reported on an 'as is' basis. Soil and sediment results are reported on a 'dry weight' basis. For other matrices the basis of reporting will be confirmed in the 'Report Comments' section. Measurement Uncertainty is available upon request. If the laboratory was authorised to conduct testing on samples received outside of the specified conditions, all test results may be impacted. Details of samples received outside of the specified conditions are mentioned in the sample description section of this test report.

### Definitions

| <: Less Than | >: Greater Than | RP: Result Pending | MPN: Most Probable Number | CFU: Colony Forming Units | ---: Not Received/Not Requested | NA: Not Applicable | ND: Not Detected | LOR: Limit of Reporting | [NT]: Not Tested |  
| ~: Estimated | ^ Subcontracted Analysis | TBA: To Be Advised | \*\* Potential Holding Time Concern | \* Test not covered by NATA scope of accreditation | # Result derived from a calculation and includes results equal to or greater than the LOR

### Authorised By

Name	Position	Accreditation Category
Schedule 2.2(a)(ii)	Laboratory Manager – Microbiology	Environmental and Food Microbiology

### Sample Information - Client/Sampler Supplied

Sample ID	S996347/1	S996347/2	S996347/3	S996347/4	S996347/5
Sample Description	SE216342.007 W01	SE216342.008 W02	SE216342.009 W03	SE216342.010 W04	SE216342.011 W05
Sample Date/Time	2021-02-09 00:00	2021-02-09 00:00	2021-02-09 00:00	2021-02-09 00:00	2021-02-09 00:00
Sample Matrix	Water - General	Water - General	Water - General	Water - General	Water - General

<b>Client</b>	SGS Environmental Services - Sydney
<b>Certificate Number</b>	S996347 [R00]
<b>Page</b>	2/4

<b>Project ID</b>	SE216342 Water
<b>Sampler</b>	Customer
<b>Order Number</b>	---



**Sample Information** - *Client/Sampler Supplied*

<b>Sample ID</b>	<b>S996347/6</b>
<b>Sample Description</b>	<b>SE216342.012 QC02</b>
<b>Sample Date/Time</b>	<b>2021-02-09 00:00</b>
<b>Sample Matrix</b>	<b>Water - General</b>

Client SGS Environmental Services - Sydney  
 Certificate Number S996347 [R00]  
 Page 3/4

Project ID SE216342 Water  
 Sampler Customer  
 Order Number ---



**Analytical Results**

Client Sample Description			SE216342.007 W01	SE216342.008 W02	SE216342.009 W03	SE216342.010 W04	SE216342.011 W05
Client Sampling date/time			09/02/2021 00:00	09/02/2021 00:00	09/02/2021 00:00	09/02/2021 00:00	09/02/2021 00:00
Compound/Analyte	LOR	Units	S996347/1	S996347/2	S996347/3	S996347/4	S996347/5
			Results	Results	Results	Results	Results
Micro General							
M8.5 - AS/NZS 4276.7							
Escherichia coli	1	CFU/100mL	<1	<1	<1	<1	<1
M8.5.1 - AS/NZS 4276.5							
Coliforms	1	CFU/100mL	<1	<1	<1	<1	<1

<b>Client</b>	SGS Environmental Services - Sydney
<b>Certificate Number</b>	S996347 [R00]
<b>Page</b>	4/4

<b>Project ID</b>	SE216342 Water
<b>Sampler</b>	Customer
<b>Order Number</b>	---



### Analytical Results

<b>Client Sample Description</b>			SE216342.012 QC02
<b>Client Sampling date/time</b>			09/02/2021 00:00
Compound/Analyte	LOR	Units	S996347/6
			Results
Micro General			
M8.5 - AS/NZS 4276.7			
Escherichia coli	1	CFU/100mL	<1
M8.5.1 - AS/NZS 4276.5			
Coliforms	1	CFU/100mL	<1

### Analysis Location

All in-house analysis was completed by Symbio Laboratories - Sydney.

**From:** [Navarro, Tania](#)  
**To:** [Edghill, Duncan](#)  
**Cc:** [McNamara, Conor](#)  
**Subject:** FW: URGENT - FTD - final draft emails & MR  
**Date:** Thursday, 11 February 2021 9:28:00 AM  
**Attachments:** [Draft Email Text for Megalo Members v01.docx](#)  
[CHEYNE - Media Release - Update on FTD 10 Feb v2.docx](#)  
[Draft email text Iconic.docx](#)  
[image002.jpg](#)  
[image001.png](#)

---

OFFICIAL: Sensitive

Hi Duncan

I have received a new version of the media release from ArtsACT re Old Bus Depot markets site. I've reviewed and chatted to Conor.

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Other correspondence looks consistent too.

Let me know if all good.

Many thanks

Tania

**Tania Navarro** | Senior Director, Communications and Engagement

**Major Projects Canberra** | ACT Government



GPO Box 158, Canberra ACT 2601

ACTGov\_MPC\_inline\_black



---

**From:** Johnston, ClaireV <ClaireV.Johnston@act.gov.au>

**Sent:** Wednesday, 10 February 2021 5:50 PM

**To:** Navarro, Tania <Tania.Navarro@act.gov.au>; McNamara, Conor <Conor.McNamara@act.gov.au>

**Cc:** Stewart-Moore, Karen <Karen.Stewart-Moore@act.gov.au>

**Subject:** URGENT - FTD - final draft emails & MR

Hi Tania and Conor

We've updated the media release and emails to stakeholders. Are you able to review before we send to Kareena for approval?

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Many thanks

Claire

---

**From:** Gordon, Libby <[Libby.Gordon@act.gov.au](mailto:Libby.Gordon@act.gov.au)>  
**Sent:** Wednesday, 10 February 2021 5:29 PM  
**To:** Tyler, Sam <[Sam.Tyler@act.gov.au](mailto:Sam.Tyler@act.gov.au)>  
**Cc:** Collins, Jen <[Jen.Collins@act.gov.au](mailto:Jen.Collins@act.gov.au)>; Johnston, ClaireV <[ClaireV.Johnston@act.gov.au](mailto:ClaireV.Johnston@act.gov.au)>  
**Subject:** FTD - final draft emails & MR  
**Importance:** High

Hi Sam

Minor comments on MR and draft emails to Megalo and Iconic for your review and approval – thanks.

regards

Libby Gordon | Director, Arts Infrastructure & Public Art - artsACT  
Economic Development | Chief Minister, Treasury and Economic Development | **ACT Government**  
**Phone 02 6205 5468** | [Schedule 2.2\(a\)\(ii\)](#) | Email: [libby.gordon@act.gov.au](mailto:libby.gordon@act.gov.au)  
Level 4 Canberra Nara Centre, 1 Constitution Avenue Canberra City | GPO Box 158 Canberra ACT 2601



Dear **Schedule 2.2(a)(ii)**

I am writing to provide you with an update on the ongoing works at Megalo Print Studio and the adjoining Former Transport Depot (FTD).

In December 2020, during roof replacement works, dust containing lead particulates was found in the ceiling space at Megalo Print Studio. The dust was well contained within the ceiling space, and artsACT received advice that the dust did not pose an exposure risk to users of Megalo Print Studio.

In early January 2021 the lead dust in the Megalo Print Studio was removed around access hatches for maintenance purposes; and encapsulated in other areas. The dust has not been disturbed during construction.

Surface dust from Megalo Print Studio has also been tested for lead particulates and levels are within a safe range. In addition to this, air monitoring tests will be completed as part of a clearance process prior to the building being reoccupied.

We want to thank the Megalo board, staff, and members for their ongoing patience through the realisation of the roof replacement, bathroom upgrades, and shop expansion works.

As you are aware, construction work has also been ongoing to upgrade the Former Transport Depot which adjoins Megalo Print Studio. Dust samples were collected from several elevated surfaces in the upper and lower halls of the Former Transport Depot, and the analysis of these samples showed the presence of lead particulates in surface dust.

After the dust samples were analysed, the builder (Monarch Building Solutions) undertook air monitoring tests inside the FTD. The results showed that while the concentration of atmospheric lead was below the detection limit there is a presence of lead particles on a number of surfaces.

It is likely that the lead dust has been present with minimal disturbance at the Former Transport Depot for many years. When left undisturbed and good personal hygiene practiced, the dust does not pose a significant risk to building users. The recent construction including the roof replacement activities may have caused disturbance to dust particles to lower surfaces in the building.

The ACT Government will work with contractors, stakeholders and ACT Government employees who have been inside the building during construction and may wish to undergo testing as a result.

To ensure the safety of building users, the FTD will be remediated prior to the building reopening. A thorough clean of the building by specialist contractors will follow the completion of the construction works. This means there will be a delay to the re-opening of the Old Bus Depot Markets in 2021. This delay will not impact Megalo however, whose staff will be able to re-occupy its premises as soon as testing is complete and it is safe to do so – target date is 18 February 2021.

Any questions please call,

Kind regards,



## Tara Cheyne MLA

Assistant Minister for Economic Development  
Minister for the Arts  
Minister for Business and Better Regulation  
Minister for Human Rights  
Minister for Multicultural Affairs

Member for Ginninderra

11 February 2021

## Testing carried out at Former Transport Depot

Testing carried out at the Former Transport Depot in Kingston has found lead particulates in surface dust. It is likely that the lead dust has been present with minimal disturbance at the Former Transport Depot for many years but may have been unsettled during recent construction activities.

In early February, a licensed assessor tested surfaces in and around the facility. Some of the test results returned a lead reading above the adopted threshold limit. As a result, the facility will undergo cleaning and remediation prior to reopening to the public.

The Former Transport Depot, home of the Old Bus Depot Markets, has been closed since early 2020. During this time renovations have been underway to improve the safety, accessibility and sustainability of the facility.

Building occupants, including Old Bus Depot Market stallholders have been informed of the situation, and access to the site will continue to be restricted until cleaning and remediation can occur.

The ACT Government will also work with contractors, stakeholders and any ACT Government employees who may need to undergo testing as a result of these findings.

The work to remediate the Former Transport Depot and ensure it is safe will take around three months to complete.

When left undisturbed, and good personal hygiene practiced, the dust does not present a significant risk to building users.

The \$6.5 million works to upgrade the Former Transport Depot are due to be completed in the coming months and includes:

- replacement of the roof and skylights over the entire complex;
- replacement of the electrical system, including new main switch board;
- installation of energy efficient light fittings and water saving fixtures to improve the sustainability of the building; and

ACT Legislative Assembly London Circuit, GPO Box 1020, Canberra ACT 2601

 +61 2 6205 0100

 [cheyne@act.gov.au](mailto:cheyne@act.gov.au)

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 [taraforginninderra](https://www.facebook.com/taraforginninderra)

 [in\\_the\\_taratory](https://www.instagram.com/in_the_taratory)



# Media release

## Tara Cheyne MLA

Assistant Minister for Economic Development  
Minister for the Arts  
Minister for Business and Better Regulation  
Minister for Human Rights  
Minister for Multicultural Affairs

Member for Ginninderra

- refurbishment of both the upper and lower hall toilet amenities, including providing accessible facilities.

The project will benefit both stallholders and visitors by improving the functionality of the building and creating a more pleasant experience.

The work will also ensure that the ACT Heritage Registered Building can continue to be used for a long time.

**Statement ends**

**Media contact/s:**

**Kaarin Dynon** T (02) 6205 2974 M 0422 772 215 [kaarin.dynon@act.gov.au](mailto:kaarin.dynon@act.gov.au)

---

ACT Legislative Assembly London Circuit, GPO Box 1020, Canberra ACT 2601

 +61 2 6205 0100

 [cheyne@act.gov.au](mailto:cheyne@act.gov.au)

 [@In\\_The\\_Taratory](https://twitter.com/In_The_Taratory)

 [tafarginninderra](https://facebook.com/tafarginninderra)

 [in\\_the\\_taratory](https://instagram.com/in_the_taratory)

Hello Schedule 2.2(5)(f)

As discussed at our meeting on 10 February, the following summary is for Iconic Markets and its stallholders at the Old Bus Depot Markets (not for further distribution please):

During the construction works currently underway at the Former Transport Depot (FTD) dust samples were collected from several elevated surfaces in the upper and lower halls. The analysis of these samples showed the presence of lead particulates in surface dust.

Following the initial results, a licenced assessor tested more surfaces in and around the facility. Some of the test results returned a lead reading above the adopted threshold limit. The builder (Monarch Building Solutions) also undertook air monitoring tests inside the FTD which showed the concentration of atmospheric lead was below the detection limit.

It is likely that the lead dust has been present with minimal disturbance at the Former Transport Depot for many years. When left undisturbed and good personal hygiene is practiced, the dust does not pose a significant risk to building users.

The recent construction activities may have disturbed dust particles to lower surfaces in the building.

To ensure the safety of building users, the FTD will be remediated prior to the building reopening. A thorough clean of the building by specialist contractors will follow the completion of the construction works. This means there will be a delay to the re-opening of the Old Bus Depot Markets in 2021. The length of the delay is expected to be approximately three months, we will confirm the time frame as soon as possible.

Some market and stallholder property may have been impacted by the lead dust. This will be further investigated in the coming weeks and we will work with you to determine if and how the impacted items can be remediated.

The ACT Government will work with contractors, stakeholders and ACT Government employees who have been inside the building during construction and may wish to undergo testing as a result.

The health and safety of the building occupants is our highest priority, and the building will not be reopened until it is safe to do so.

regards

**From:** [redacted]  
**To:** [Barisic, Natalie](#); [Collins, Jen](#)  
**Cc:** [McNamara, Conor](#); [Lee Powick](#) [redacted]  
**Subject:** FW: FTD Lead - Media Questions (urgent)  
**Date:** Monday, 15 February 2021 10:39:38 AM  
**Attachments:** [image001.png](#)  
[image005.png](#)  
[image006.jpg](#)  
[image003.png](#)

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Natalie,

For your information

[redacted]

[redacted]  
[redacted]  
[redacted]

---



**From:** [redacted]  
**Sent:** Thursday, 11 February 2021 4:24 PM  
**To:** McNamara, Conor <Conor.McNamara@act.gov.au>; [redacted]  
**Cc:** [redacted]  
**Subject:** RE: FTD Lead - Media Questions (urgent)

Hi Conor,


The suggested changes are in red below.

Kind regards

[redacted]

	
	<p>[redacted] <b>Managing Director</b> BSc, Grad Dip OccHyg, Cert IV T&amp;A, Licensed Asbestos Assessor, BOHS W504 Phone: 02 6239 5656 <b>Schedule 2.2(a)(ii)</b> [redacted] Fax: 02 6239 5669 <b>Schedule 2.2(a)(ii)</b> Web: <a href="http://www.robsonenviro.com.au">www.robsonenviro.com.au</a></p>
	<p>140 Gladstone St Fyshwick ACT 2609 ~ PO Box 112 Fyshwick ACT 2609 Best Practice Certification for AS/NZS ISO 9001:2008 - Quality ~ ISO 14001:2004 - OHS ~ AS/NZS 4801:2001 - Environment</p>

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---

**From:** McNamara, Conor <[Conor.McNamara@act.gov.au](mailto:Conor.McNamara@act.gov.au)>

**Sent:** Thursday, 11 February 2021 3:42 PM

**To:** Schedule 2.2(a)(ii)

**Subject:** FW: FTD Lead - Media Questions (urgent)

**Importance:** High

Hi Schedule 2,

Are you able to provide responses to media questions as soon as possible. Media release only went out just over an hour ago.

Regards Conor

---

**From:** Gordon, Libby <[Libby.Gordon@act.gov.au](mailto:Libby.Gordon@act.gov.au)>

**Sent:** Thursday, 11 February 2021 3:32 PM

**To:** McNamara, Conor <[Conor.McNamara@act.gov.au](mailto:Conor.McNamara@act.gov.au)>

**Cc:** Collins, Jen <[Jen.Collins@act.gov.au](mailto:Jen.Collins@act.gov.au)>

**Subject:** FTD Lead - Media Questions

**Importance:** High

Hi Conor, would you mind pls forwarding this to Schedule 2.2(a)(ii) or Schedule 2.2(a)(i) to check the responses for correctness – they are media follow up questions (in bold) to the Media Release. If he could get back to us by 4.30pm today that would be excellent, thanks.

**- What is the acceptable threshold for this space?**

There are different thresholds for different areas of the building. High-contact surfaces have a lower acceptable threshold than areas that are considered low-contact surfaces. The lead dust clearance criteria levels adopted for this assessment are as follows:

- Interior floors (representing interior high-contact surfaces)  
<0.11mg/m<sup>2</sup>
- Porch floors (representing all exterior contact surfaces) <0.43 mg/m<sup>2</sup>
- Window sills and window troughs (representing interior low-contact surfaces)  
<1.08mg/m<sup>2</sup>

**- What was the range of levels of lead detected?**

The highest readings were generally recorded on horizontal surfaces below where the roof has been replaced as part of the recent construction works. The highest reading of 622.22 mg/m<sup>2</sup> was recorded in a sample from the Foreshore Space on top of a wall cabinet. This was considerably higher than the next reading of 248.87 mg/m<sup>2</sup> recorded in the loft area which is currently unrenovated and closed for use. The lowest readings were recorded in store rooms and within closed cabinets or containers. The lowest reading recorded was **below the detection limit of 0.04 mg/m<sup>2</sup>**.

**- Was the source of lead likely to be deteriorating lead paint?**

The exact source of the lead dust is not fully known, however the source of lead may be lead paint which is present in the building, and potentially a source related to its former use as a transport depot such as aerosols from petrol fumes.

**- What capacity is Tara Cheyne acting in for this issue?**

Tara Cheyne is acting as the Minister for the Arts. The Former Transport Depot is an ACT Government-owned building that forms part of the Kinston Arts Precinct.

Libby Gordon | Director, Arts Infrastructure & Public Art - artsACT  
Economic Development | Chief Minister, Treasury and Economic Development | **ACT Government**  
Phone 02 6205 5468 | [Schedule 2.2\(a\)\(ii\)](#) | Email: [libby.gordon@act.gov.au](mailto:libby.gordon@act.gov.au)  
Level 4 Canberra Nara Centre, 1 Constitution Avenue Canberra City | GPO Box 158 Canberra ACT 2601



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**From:** Schedule 2.2(a)(i)  
**To:** [Chipperfield, Alan](#)  
**Cc:** Schedule 2.2(a)(i); [Barisic, Natalie](#); [McNamara, Conor](#); Schedule 2.2(a)(i)  
**Subject:** Kingston Depot & Megalo Building Hygienists Reports  
**Date:** Monday, 15 February 2021 1:53:09 PM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image003.png](#)  
[image006.jpg](#)  
[C109358 - Letter of Advice - Old Bus Depot Halls Lead Dust.pdf](#)  
[T10589\\_OldBusDepot\\_LeadDustAssessment\\_2021-02-01.pdf](#)  
[RE Kingston Depot Robsons Report.msg](#)

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Alan,

Lead dust was discovered in the Megalo ceiling on 17/12/2021.

SWE was engaged to advise Monarch on safe removal of the lead dust to enable roofing works to commence.

SWE advised that the lead dust need to be removed by a specialist contractor and Aztech was engaged to carry out this work.

The lead dust removal to Megalo roof space was completed by 22/1/2021.

SWE provided a clearance and roofing was able to commence to the Megalo roof on 27/1/2021.

On 20/1/2021 lead dust was identified in the upper levels of the Kingston depot.

SWE was engaged to report on the lead dust.

Attached is SWE's report for Kingston Depot.

Aztech was engaged to complete the outstanding works at Kingston depot including cleaning of equipment that was to be disposed of.

No other cleaning was carried out after the discovery of lead dust

ACT Government then engaged Robson Environmental to carry out a more comprehensive report of the Kingston Depot

and in particular the store holders equipment that had been stored at Kingston Depot

Attached is Robson Environmental report on Kingston Depot

This report is being used to obtain tenders for complete cleaning of the Kingston Depot including the store holders equipment

To ensure consistency between the advice of the 2 hygienists Monarch arranged for SWE to review Robson environmental report

and attached are their comments including confirmation that PPE was not required unless the lead dust was disturbed

Trusting this is sufficient overview but if you require further clarification please do not hesitate to contact myself

Regards

Schedule 2.2(a)(ii)

Project Manager

signature\_765877648  


T 02 6162 0232 | Schedule 2.2(a)(ii)  
Schedule 2.2(a)(ii)  
24 Lithgow St, Fyshwick ACT 2609  
[www.monarchbuildingsolutions.com.au](http://www.monarchbuildingsolutions.com.au) |

Graphical user interface   Description automatically generated  




**From:** [Barisic, Natalie](#)  
**To:** [Collins, Jen](#)  
**Subject:** FW: Kingston Depot & Megalo Building Hygienists Reports  
**Date:** Monday, 15 February 2021 3:03:00 PM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image003.png](#)  
[image006.jpg](#)  
[C109358 - Letter of Advice - Old Bus Depot Halls Lead Dust.pdf](#)  
[T10589\\_OldBusDepot\\_LeadDustAssessment\\_2021-02-01.pdf](#)  
[RE Kingston Depot Robsons Report.msg](#)  
[FW Kingston Depot Lead Dust not a Notifiable incident.msg](#)

---

OFFICIAL

Hey Jen

FYI

Plus I have attached another email where Conor confirms contact with [REDACTED] from Worksafe.

Let me know if you need anything else

---

**From:** Schedule 2.2(a)(ii) [REDACTED]  
**Sent:** Monday, 15 February 2021 1:50 PM  
**To:** Chipperfield, Alan <Alan.Chipperfield@act.gov.au>  
**Cc:** Schedule 2.2(a)(ii) [REDACTED] Barisic, Natalie <Natalie.Barisic@act.gov.au>; McNamara, Conor <Conor.McNamara@act.gov.au>; [REDACTED]  
**Subject:** Kingston Depot & Megalo Building Hygienists Reports

**CAUTION:** This email originated from outside of the ACT Government. Do not click links or open attachments unless you recognise the sender and know the content is safe.

Alan,

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Regards

Schedule 2.2(a)(ii)

Project Manager

signature\_765877648



T 02 6162 0232 | Schedule 2.2(a)(ii)

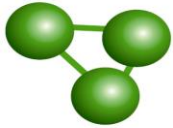
Schedule 2.2(a)(ii)

24 Lithgow St, Fyshwick ACT 2609

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# SAFE WORK & ENVIRONMENTS

25 January 2021

**Attention:** [redacted] – Site Engineer  
**Company:** Monarch Building Solutions  
**Email:** [redacted]

**SWE Project No.:** C109358  
**Site Address:** Old Bus Depot Building, 21 Wentworth Avenue, Kingston ACT

Dear [redacted],

## **RE: Kingston Old Bus Depot – Lead Dust Identification, Remediation & Health Implications**

The purpose of this letter is to amalgamate and summarise the various SWE advice provided to date in regard to the lead containing dusts identified at the Old Bus Depot (OBD) halls, 21 Wentworth Avenue, Kingston ACT. It is intended that the information contained herein be used by Monarch Building Solutions (MBS), their client and the various stakeholders to understand the lead risk scenarios, the Regulation specific to the identified lead risk, health monitoring requirements and the necessary considerations to remove the lead risk from the site. SWE understand the overall objective of the advice is to enable management decisions for a pathway to be developed to the desired outcome of lead dust risk elimination /management.

### **Background & Health Risks**

Lead contaminated dust is a source of health risks to children and adults. Lead can harm a range of organs in the human body, especially the brain, kidneys and reproductive system. Lead can enter the body through several routes, including the respiratory tract, the gastrointestinal tract and through skin absorption. Lead gets into the body when you breathe in lead dust or fumes in air. If you swallow food or water that is contaminated by lead dust, small amounts of lead can build up in the body and cause health problems.

Most people with increased blood lead levels are asymptomatic; adults may not display symptoms until blood levels reach 60 micrograms per decilitre ( $\mu\text{g}/\text{dL}$ ) or 2.9 micromoles per litre ( $\mu\text{mol}/\text{L}$ ) and above. Children generally do not show symptoms of lead intoxication until blood lead levels reach 45 to 55  $\mu\text{g}/\text{dL}$  (2.7 to 2.64  $\mu\text{mol}/\text{L}$ ). Yet, some may be asymptomatic even when blood lead levels are as high as 60 to 70  $\mu\text{g}/\text{dL}$  (2.89 to 3.38  $\mu\text{mol}/\text{L}$ ).

The National Health and Medical Research Council has set guidelines for permissible levels of lead in the blood and in ambient air in Australia. It set a specific goal "to achieve for all Australians a blood lead level of below ten micrograms per decilitre (0.48 micromoles per litre)." Lead is not readily excreted from the body. It stores in the body for up to 20-30 years in bone, from where it can be mobilised back into the blood. From a single exposure, lead is readily absorbed and quickly distributed to the following areas of the body: blood (1%), soft tissue (4%) and bones/teeth (95%). Anaemia can occur if lead accumulates in blood and in blood-forming tissues (bone marrow). Lead distorts the production of red blood cells in the body.

The current Exposure Standard set by the Safe Work Australia (SWA) is a time weighted average (TWA) of 0.05  $\text{mg}/\text{m}^3$  of air. The Work Health and Safety Regulation 2011 sets levels of lead in blood for lead risk work and for health surveillance.

Settled dust containing lead in ceilings spaces, voids and cavities is in fine particles and has a potential for greater bioavailability. Routes of exposure and risk assessment factors include:

- Areas of exposed soil adjacent to the building,
- Historical function and use of the building,



- Type of materials and age of the building,
- Refurbishment works conducted on the building,
- Distance from roads, commercial garages and mining/smelting operations,
- Dust fall rates and carpet wear, and
- Nature of paint work.

In the absence of a legislative standard, SWE has adopted an industry accepted threshold of 300 mg/kg which is considered appropriate for residential / commercial roof ceiling cavities / elevated areas.

It should be noted that the now superseded AS 4361.2-1998 *Guide to Lead Paint Management – Part 2: Residential and Commercial Buildings* provided assessment criteria for settled dusts following lead paint remediation, however these have been removed from the revised AS 4361.2-2017 which defers to the local jurisdiction or the specifier for settled dust assessment criteria.

### Lead in Dust Identification & Air Test Results

Upon the request of MBS, SWE collected three (3) samples of representative dust from elevated horizontal surfaces within the OBD upper and lower halls on Monday 18<sup>th</sup> January 2021. Care was taken to collect the fine settled dusts only, avoiding potential impact by lead paints and flashing or alloy filings / small off cuts that may be present due to existing building conditions and recent roof replacement works. An assessment criteria / action threshold of 300 mg/kg which was adopted as an appropriate standard for commercial roof ceiling cavities / elevated areas. The results are presented in **Table 1** below, (refer to **Attachment A** for the laboratory certificate of analysis):

**Table 1:** Sample location and analytical results of dust samples collected 18/01/2021.

Sample Reference	Sample Location	Analytical Result	Assessment Criteria
C109358-Pb18	Lower hall, mid north-west wall, dust from top of orange boom structure	1,700 mg/kg	300 mg/kg
C109358-Pb19	Base of ramp between upper and lower halls in central area of bus depot, dust from top of PVC pipe	4,400 mg/kg	
C109358-Pb20	Upper hall, south-east corner, dust from top of PVC pipe	800 mg/kg	

As demonstrated in **Table 1** above, lead concentrations in settled dusts were identified at significantly elevated levels. Albeit a limited data set, the analytical results indicate a significant source of lead particulate has been available to generate the identified elevated concentrations.

SWE was advised verbally by MBS that lead containing dusts have also been identified within the adjacent Megalo building ceiling voids. All available data should be considered when developing and risk assessment and remediation recommendations for the OBD property.

Prompted by the identification of lead dusts, static air monitoring for atmospheric lead was undertaken between the dates of 20/01/2021 and 22/01/2021. At time of writing, the results from the monitoring date 20/01/2021 were available and are summarised as follows: Air monitoring analytical results for all locations were below the detection limit for the laboratory method and the adopted Action Limit (50% of the exposure standard) of 0.025mg/m<sup>3</sup>. Furthermore, all results are below the maximum permissible Time Weighted Average (TWA) exposure standard of 0.05mg/m<sup>3</sup> as per the Safe Work Australia adopted guideline titled *Workplace Exposure Standards for Airborne Contaminants 2019* (refer to Attachment B for the air monitoring report).



### **Specific Regulation and Health Monitoring Requirements**

Advice regarding lead health monitoring / blood testing for lead is drawn from Chapter 7.2 of the WH&S (2011) Regulations: The relevant sections of Chapter 7.2 have been copied below for you and your client's interpretation when considering whom must undertake blood testing. SWE's interpretation of the Regulations application to the specific situation is summarised below the reproduced sections of relevant Regulations ([provided in blue](#)). SWE recommends reading of Chapter 7.2 of the WH&S (2011) Regulation in its entirety to gauge a complete understanding of the responsibilities of the various parties involved.

#### **Division 1            Lead process**

##### **392        Meaning of *lead process***

In this Part, a ***lead process*** consists of any of the following carried out at a workplace:

- (a) work that exposes a person to lead dust or lead fumes arising from the manufacture or handling of dry lead compounds.

##### **393        Regulator may decide lead process**

- (1) The regulator may decide that a process to be carried out at a workplace is a lead process.
- (2) The regulator must not decide that the process is a lead process unless the regulator is satisfied on reasonable grounds that the process creates a risk to the health of a worker at the workplace having regard to blood lead levels of workers, or airborne lead levels, at the workplace.

*Note* A decision that a process is a lead process is a reviewable decision (see regulation 676).

- (3) The regulator must, within 14 days after a decision is made under sub-regulation (1), give written notice of the decision to the person conducting a business or undertaking at the workplace.

##### **394        Meaning of *lead risk work***

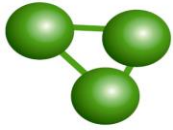
In this Part, ***lead risk work*** means work carried out in a lead process that is likely to cause the blood lead level of a worker carrying out the work to exceed:

- (a) for a female of reproductive capacity — 10µg/dL (0.48µmol/L); or
- (b) in any other case — 30µg/dL (1.45µmol/L).

#### **Division 3            Lead risk work**

##### **402        Identifying lead risk work**

- (1) A person conducting a business or undertaking at a workplace must assess each lead process carried out by the business or undertaking at the workplace to determine if lead risk work is carried out in the process.
- (2) In assessing a lead process, the person must have regard to the following:
  - (a) past biological monitoring results of workers;
  - (b) airborne lead levels;
  - (c) the form of lead used;
  - (d) the tasks and processes required to be undertaken with lead;
  - (e) the likely duration and frequency of exposure to lead;
  - (f) possible routes of exposure to lead;
  - (g) any information about incidents, illnesses or diseases in relation to the use of lead at the workplace.



## SAFE WORK & ENVIRONMENTS

- (3) In assessing a lead process, the person must not have regard to the effect of using personal protective equipment on the health and safety of workers at the workplace.
- (4) If a person conducting a business or undertaking at a workplace is unable to determine whether lead risk work is carried out in a lead process at the workplace, the process is taken to include lead risk work until the person determines that lead risk work is not carried out in the process.

### Division 4 Health monitoring

#### 405 Duty to provide health monitoring before first commencing lead risk work

- (1) A person conducting a business or undertaking at a workplace must ensure that health monitoring is provided to a worker:
  - (a) before the worker first commences lead risk work for the person; and
  - (b) 1 month after the worker first commences lead risk work for the person.
- (2) If work is identified as lead risk work after a worker commences the work, the person conducting the business or undertaking must ensure that health monitoring of the worker is provided:
  - (a) as soon as practicable after the lead risk work is identified; and
  - (b) 1 month after the first monitoring of the worker under paragraph (a).

As per 405 (2), the PCBU is obligated to provide health monitoring to anyone who has undertaken lead process work or lead risk work (commenced prior to knowledge of the lead risk) as soon as practical, and 1 month after the first blood test.

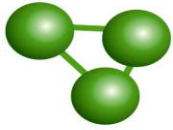
The definition of lead risk work is linked to the probability of the work impacting on a person's lead blood level. Medical advice should be sought to confirm whether the various activities undertaken within OBD halls could elevate lead blood level and therefore meet the definition of lead risk work. In the absence of such information, SWE refer to 392 (a) as an activity considered lead process work, and recommend that the following persons be offered blood testing as per 405 (2):

As a general statement - those who have been involved in activities within the OBD halls that have involved the handling of dusts, or those who have been exposed potentially airborne lead containing dusts including:

- persons who worked on re-roofing the building,
- persons who worked below or adjacent to the re-roofing works, or were present when dust disturbing activities were taking place,
- cleaners,
- any trades that have been involved in the removal and installation of interior fittings, and
- Site users / contractors at the site prior to the MBS works that undertook works that required contact with lead dust contaminated surfaces, or dust generating activities.

The above listed groups of people may be added to when the broader range of tasks undertaken in the OBD buildings are catalogued by MBS and their client.

Please note: With the available data SWE does not consider previous market staff and patrons walking in and out of the building as those who may have been exposed to lead dusts that may elevate lead blood level.



## SAFE WORK & ENVIRONMENTS

### **Site Access Recommendations**

In consideration of the assessment undertaken at the site to date please see the below conclusions and recommendations in regard to the lead dust exposure risk and remedial works within the Old Bus Depot halls:

- Until further assessment allows alternate conclusions, all settled dusts within the upper and lower halls of the old bus depot must be considered and treated as lead containing dusts.
- In its current condition, it is SWE's opinion that the old bus depot halls present a negligible lead exposure risk provided the following is adhered to:
  - There is no contact with settled dusts by site personnel,
  - There is no disturbance of settled dusts within the halls, for example:
    - No potentially dust disturbing activities are undertaken (e.g., use of compressed air, sweeping, cleaning etc.),
    - Eliminate vehicle movements within the halls,
    - Doors are kept closed to minimise air movement.
  - Site personnel observe good hygiene practices and wash thoroughly prior to meal breaks.
  - Site personnel do not eat, drink or take meal breaks in halls.
- If the above listed site conditions cannot be maintained, access must be restricted to prevent persons without the appropriate PPE and relevant training from entering the building.
- Air monitoring for airborne lead should be undertaken within the halls while ever site personnel are present to demonstrate the absence of an airborne lead risk to those staff / contractors.
- In the event that elevated concentrations of lead in airborne dust be detected, all site activities must cease, and site access advice will be revised.

### **Lead Dust Remediation Requirements**

Please note that there is a significant amount of property impacted by dust (including food preparation equipment). There is also a significant number of porous materials present, generally it is not possible to remediate porous items which are usually disposed of as lead waste. Please consider carefully what is present within the halls and work through with your client and stakeholders prior to providing the scope of works to tendering remediation contractors. Advice may also be sought from remediation contractors who will indicate what is possible to sufficiently clean (and what is not).

It should be considered that cleaning of stored equipment and structures in addition to the building structure will add significant time and cost. SWE can provide further advice / input on this issue as required. It is a firm recommendation must be that the lead dust remediation scope is very clear between client and contractor.

SWE can provide a Remediation Scope of Works Specification in consideration of the clients' requirements which would be used as a scope of remediation and provide assessment criteria / standards for validation for the remediation contractor to adhere to.

In general, the retention and disposal of items within the old Bus Depot halls that have been impacted by dust should be kept simple as possible:

- porous items cannot be validated – dispose as lead impacted waste.
- non-porous items can be validated – clean and retain as desired.



Please note: where items (such as coffee machine) are largely non-porous but have some small penetrations: these items can be cleaned and returned under conditional clearance, noting that all “visible accessible” dust has been removed. The clearance will not cover the internal componentry which is not accessible to clean without dismantling an object.

Where such a limitation of the lead clearance will exist for food preparation items it is a firm recommendation that the item be disposed of, not retained for use.

Should you wish to discuss any of the above further, please contact via the undersigned details.

Kind Regards,

Schedule 2.2(a)(ii)  
[Redacted signature]

ACT Operations Manager  
**Safe Work and Environments Pty Ltd**  
PO Box 230, Dickson ACT 2602

Schedule 2.2(a)(ii)  
[Redacted contact details]

**Attachments**

**Attachment A - Laboratory Certificate of Analysis**

**Attachment B - Air Monitoring Report**





## **Attachment A - Laboratory Certificate of Analysis**

## CERTIFICATE OF ANALYSIS 259743

### Client Details

<b>Client</b>	Safe Work & Environments
<b>Attention</b>	Schedule 2.2(a)(ii)
<b>Address</b>	7/103 Majors Bay Rd, Concord, NSW, 2137

### Sample Details

<b>Your Reference</b>	<b>C109358</b>
<b>Number of Samples</b>	3 Dust
<b>Date samples received</b>	19/01/2021
<b>Date completed instructions received</b>	19/01/2021

### Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.  
 Samples were analysed as received from the client. Results relate specifically to the samples as received.  
 Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

### Report Details

<b>Date results requested by</b>	19/01/2021
<b>Date of Issue</b>	19/01/2021
NATA Accreditation Number 2901. This document shall not be reproduced except in full.	
Accredited for compliance with ISO/IEC 17025 - Testing. <b>Tests not covered by NATA are denoted with *</b>	

**Results Approved By**  
 Schedule 2.2(a)(ii), Metals Supervisor

**Authorised By**  
 Schedule 2.2(a)(ii)  
 Schedule 2.2(a)(ii), Laboratory Manager

Client Reference: C109358

Lead (dust)				
Our Reference		259743-1	259743-2	259743-3
Your Reference	UNITS	C109358-Pb18	C109358-Pb19	C109358-Pb20
Date Sampled		18/01/2021	18/01/2021	18/01/2021
Type of sample		Dust	Dust	Dust
Date prepared	-	19/01/2021	19/01/2021	19/01/2021
Date analysed	-	19/01/2021	19/01/2021	19/01/2021
Lead	mg/kg	1,700	4,400	800

Method ID	Methodology Summary
<b>Metals-020</b>	Determination of various metals by ICP-AES.

Client Reference: C109358

QUALITY CONTROL: Lead (dust)				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			19/01/2021	[NT]	[NT]	[NT]	[NT]	19/01/2021	[NT]
Date analysed	-			19/01/2021	[NT]	[NT]	[NT]	[NT]	19/01/2021	[NT]
Lead	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	103	[NT]

**Result Definitions**

<b>NT</b>	Not tested
<b>NA</b>	Test not required
<b>INS</b>	Insufficient sample for this test
<b>PQL</b>	Practical Quantitation Limit
<b>&lt;</b>	Less than
<b>&gt;</b>	Greater than
<b>RPD</b>	Relative Percent Difference
<b>LCS</b>	Laboratory Control Sample
<b>NS</b>	Not specified
<b>NEPM</b>	National Environmental Protection Measure
<b>NR</b>	Not Reported

## Quality Control Definitions

<b>Blank</b>	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 exactly the same manner as for samples.
<b>Duplicate</b>	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
<b>Matrix Spike</b>	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.
<b>LCS (Laboratory Control Sample)</b>	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. It is simply a check sample.
<b>Surrogate Spike</b>	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.
Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.	
The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.	
Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2	

## Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.



## **Attachment B - Air Monitoring Report**



**ATMOSPHERIC LEAD MONITORING REPORT  
C109358 / PBM1.v1 / 20.01.2021**

22 January 2021

**Attention:** Schedule 2.2(a)(ii) - Site Engineer  
**Company:** Monarch Building Solutions  
**Fax/email:** Schedule 2.2(a)(ii)

**SWE Project No.:** C109358  
**Sampling Date:** 20 January 2021  
**Site Address:** Old Bus Depot Building, 21 Wentworth Avenue, Kingston ACT

SAMPLE ID.	LOCATION OF SAMPLE	TIME ON	TIME OFF	FLOW (Litres/min)	Volume (m <sup>3</sup> )	Pb on filter (mg)	Result (mg/m <sup>3</sup> )
200120/IOM07	Lower hall, central southern end of hall	1230	1550	2.00	0.400	<0.001	<0.0025
200120/IOM08	Lower hall, central northern end of hall	1233	1553	2.00	0.400	<0.001	<0.0025
200120/IOM09	Ramp rail between upper & lower halls	1234	1554	2.00	0.400	<0.001	<0.0025
200120/IOM10	Upper hall, central south end of hall	1235	1555	2.00	0.400	<0.001	<0.0025
200120/IOM11	Upper hall, central north end of hall	1236	1556	2.00	0.400	<0.001	<0.0025
200120/IOM12	Field Blank.	-	-	-	-	<0.001	-

**Sampling Description:** Static monitoring for atmospheric lead was undertaken to assess the concentration of inhalable lead within airborne dusts following the discovery of lead dusts within the site building.

**Sampling Methodology:** Airborne lead monitoring was carried out in accordance with the Australian Standard: AS 3640-2009 – ‘Workplace Atmospheres Method for Sampling and Gravimetric Determination of Inhalable Dust’ and SWE’s In-House Method 2 – Air Volume Measurement.

**Analysis:** Laboratory analysis of the samples was undertaken by Envirolab Services in accordance with their NATA accredited methodology titled *Determination of various metals on filters by ICP-AES/MS and or CV/AAS*.

**Conclusion:** All air monitoring analytical results reported are below the detection limit for the laboratory method and the adopted Action Limit (50% of the exposure standard) of 0.025mg/m<sup>3</sup>. Furthermore, all results are below the maximum permissible Time Weighted Average (TWA) exposure standard of 0.05mg/m<sup>3</sup> as per the Safe Work Australia adopted guideline titled *Workplace Exposure Standards for Airborne Contaminants 2019*.

Please contact me via the undersigned details should you have any queries regarding this report.

Schedule 2.2(a)(ii)

Senior Environmental Consultant  
**Safe Work & Environments Pty Ltd**

C109358-PBM1.v1-LeadAirMonitoringReport-200121

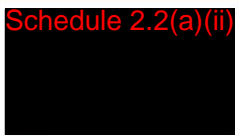
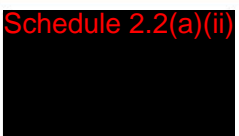
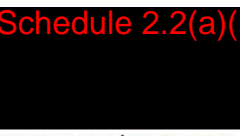
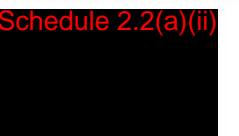
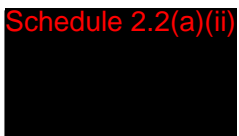
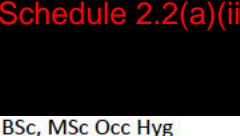
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# Lead Dust Assessment

## Old Bus Depot Markets Kingston

1 February 2021

### Certificate of approval for issue of documents

<b>Document Name</b>	T10589 Lead Dust Assessment Old Bus Depot Markets Kingston 2021		
<b>Report Issue Date</b>	08/02/2021	<b>Job Number</b>	T10589
<b>Client</b>	Monarch Building Solutions	<b>Work Order</b>	
<b>Assessment</b>		<b>Report Preparation</b>	
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	<b>Reviewed</b>	<b>Approved</b>	
	 BSc, Grad. Dip. Occ. Hyg Managing Director Robson Environmental Pty. Ltd.	 BSc, MSc Occ Hyg Senior Occupational Hygienist Robson Environmental Pty. Ltd.	

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## 1 Introduction

Robson Environmental Pty Ltd conducted an assessment of suspected lead dust at the Old Bus Depot Markets Kingston on behalf of Monarch Building Solutions on 1 February 2021.

### 1.1 Objective

The purpose of this assessment was to assess whether there is likely to be an exposure risk from lead dust if found and to provide recommendations on appropriate management actions.

### 1.2 Scope

This survey conducted on 1 February 2021 consisted of:

1. Collection of representative dust samples from surfaces to assess for lead in dust;
2. Assessment of potential health exposure risk of collected dust samples; and
3. Preparation of a report summarising the findings of the assessment and providing recommendations on appropriate management actions for any identified lead dust, as required.

The following locations/surfaces/materials were not included within the scope of this assessment:

- Megalo Building
- Lower Hall north west toilets
- Upper Hall north east women's toilets and rear stores

## 2 Background

Lead paint is defined by Australian Standard AS4361.2:2017 *Guide to hazardous paint management Part 2: Lead paint in residential, public and commercial buildings* as a paint or component coat of a paint system containing lead or lead compounds, in which the lead content (calculated as lead metal) is in excess of 0.1% by weight. This concentration has been determined as the value which, if exceeded, might render the paint hazardous to humans.

Since 1997, paints manufactured for use in buildings have not been allowed to contain more than 0.1% lead, but paint used on buildings prior to 1965 could contain as much as 50% lead, up to 1% lead until 1992, 0.25 per cent until 1997, when the allowed level was further reduced to 0.1 per cent.

According to AS4361.2:2017, lead-based paint may present a risk to health if it is ingested or inhaled. There is minimal risk where lead paint is in a sound condition, but paint does present a health risk if it exhibits chalking or flaking, or if it is subject to abrasion (e.g. on sash windows). Dust created from deteriorating lead paint is a recognised source of lead exposure in residential, public and commercial buildings. The peeling and flaking of lead paint may also cause dangerous residues of lead to build up in accumulated dust, which could present a health exposure risk for building occupants.

## 3 Methods

### 3.1 Surface dust contamination

#### 3.1.1 Dust sampling

Surface dust sampling was undertaken in accordance with the method from Appendix C of AS/NZS 4361.2 using a 15cm x 15cm sample area, however the sampling procedure given in the National

Institute for Occupational Safety and Health (NIOSH) Method 9100: *Lead in Surface Wipe Samples* was followed to allow for comparison with the adopted assessment criteria (see Section 3.1.2).

The NIOSH method is used because there are significant differences between the two methods, and samples collected following the Australian Standard method would potentially under-sample and underrepresent the risk when compared to the criteria, which was developed following the NIOSH method.

Sample locations are shown in Table 1 and sample photographs are found in Appendix 1, Appendix 2 and 0. Field blank samples were also collected to trace any sources of artificially introduced contamination. All samples were transported to Envirolab, Sydney under Chain of Custody (COC) documentation to undergo analysis for lead content by inductively coupled plasma atomic emission spectroscopy/mass spectroscopy (ICP-AES/MS).

**Table 1: Surface swab sampling locations on 1 February 2021**

Sample number	Location	Surface/Item	Surface area (m <sup>2</sup> )
J3001	Loft area	Concrete slab north	0.0225
J3002	Loft area	Concrete slab south	0.0225
J3003	Rear Store area	Bench top	0.0225
J3004	Rear Store area	Cabinet top	0.0225
J3005	Rear Store area	Box exterior surface	0.0225
J3006	Rear Store area	Box interior surface	0.0225
J3007	Rear Store area	Box exterior surface	0.0225
J3008	Rear Store area	Box interior surface	0.0225
J3009	Food Court Store	Food presentation cabinet	0.0225
J3010	Food Court Store	Wall hand towel dispenser	0.0225
J3011	Food Court Store	Perspex cover	0.0225
J3012	Food Court	Blue bench	0.0225
J3013	Food Court	Pink store white bench	0.0225
J3014	Food Court	Bain marie exterior cover	0.0225
J3015	Food Court	Bain marie interior tray	0.0225
J3016	Food Court	Bain marie exterior cover	0.0225
J3017	Food Court	Bain marie interior tray	0.0225
J3018	Food Court	Refrigerator exterior cover	0.0225
J3019	Food Court	Refrigerator interior shelf	0.0225
J3020	Food Court	Refrigerator exterior enamel	0.0225
J3021	Food Court	Refrigerator interior shelf	0.0225
J3022	Food Court	Ice cream cooler exterior top open	0.0225
J3023	Food Court	Ice cream cooler interior top open	0.0225

Sample number	Location	Surface/Item	Surface area (m <sup>2</sup> )
J3024	Food Court	Ice cream cooler exterior top closed	0.0225
J3025	Food Court	Ice cream cooler interior top closed	0.0225
J3026	Food Court	Concrete slab central	0.0225
J3027	Workshop	Tall refrigerator exterior top	0.0225
J3028	Workshop	Tall refrigerator interior	0.0225
J3029	Workshop	Smaller refrigerator exterior top	0.0225
J3030	Workshop	Smaller refrigerator interior	0.0225
J3031	Workshop	Tall cupboard top	0.0225
J3032	Workshop	Smaller cupboard top	0.0225
J3033	Workshop	Concrete slab central	0.0225
J3034	North Store opposite Food Court	Refrigerator exterior top	0.0225
J3035	North Store opposite Food Court	Refrigerator interior	0.0225
J3036	North Store opposite Food Court	Plastic box exterior	0.0225
J3037	North Store opposite Food Court	Plastic box interior	0.0225
J3038	Foreshore Space	Steel frame - south east	0.0225
J3039	Foreshore Space	Wall cabinet exterior	0.0225
J3040	Foreshore Space	Concrete slab south	0.0225
J3041	Foreshore Space	Concrete slab north	0.0225
J3042	Mezzanine West Office	High duct exterior	0.0225
J3043	Mezzanine West Office	Central table	0.0225
J3044	Upper Hall	Concrete slab - n/w area	0.0225
J3045	Upper Hall	Concrete slab - south central area	0.0225
J3046	Upper Hall	Concrete slab north central area	0.0225
J3047	Upper Hall	Concrete slab - western area	0.0225
J3048	Upper Hall South Wall	Eastern area chest height	0.0225
J3049	Upper Hall South Wall	Central east area chest height	0.0225
J3050	Upper Hall South Wall	Central west area chest height	0.0225
J3051	Upper Hall South Wall	Western area chest height	0.0225
J3052	Upper Hall Middle Wall	Diagonal brace western area	0.0225
J3053	Upper Hall Middle Wall	Diagonal brace eastern area	0.0225
J3054	Upper Hall Central Furniture area	Chair seat north west	0.0225

Sample number	Location	Surface/Item	Surface area (m <sup>2</sup> )
J3055	Upper Hall Central Furniture area	Chair seat west	0.0225
J3056	Upper Hall Central Furniture area	Table top west	0.0225
J3057	Upper Hall Central Furniture area	Table top south west	0.0225
J3058	Upper Hall Central Furniture area	Portable table top south west	0.0225
J3059	Upper Hall Central Furniture area	Portable vertical table top south west	0.0225
J3060	Upper Hall Central Furniture area	Chair seat south east	0.0225
J3061	Upper Hall Central Furniture area	Portable vertical table top south east	0.0225
J3062	Upper Hall Central Furniture area	Bench seat north east	0.0225
J3063	Upper Hall enclosed furniture	East section concrete slab	0.0225
J3064	Upper Hall enclosed furniture	Soft floor mat surface	0.0225
J3065	Upper Hall South Wall	Eastern area ~4m high	0.0225
J3066	Upper Hall South Wall	Central west area ~4m high	0.0225
J3067	Upper Hall	Central south high aircon unit	0.0225
J3068	Upper Hall South Wall	Central east area ~4m high	0.0225
J3069	Upper Hall	Hanging banner - orange	0.0225
J3070	Upper Hall	Hanging banner - purple	0.0225
J3071	Upper Hall	Central south west high aircon unit	0.0225
J3072	Upper Hall South Wall	Western area ~4m high	0.0225
J3073	Upper Hall North West Kitchen	Top of west column	0.0225
J3074	Upper Hall North West Kitchen	Concrete slab central	0.0225
J3075	Upper Hall North West Kitchen	Kitchen sink surface	0.0225
J3076	Upper Hall North East Store	Wall top plate	0.0225
J3077	Upper Hall North East Store	Cardboard box surface	0.0225
J3078	Lower Hall North Wall	Eastern area chest height	0.0225
J3079	Lower Hall North Wall	Eastern area ~4m High	0.0225
J3080	Lower Hall North Wall	East central adjacent double doors chest height	0.0225
J3081	Lower Hall North Wall	East central adjacent double doors ~4m High	0.0225

Sample number	Location	Surface/Item	Surface area (m <sup>2</sup> )
J3082	Lower Hall North Wall	Louvre windows mid-section chest height	0.0225
J3083	Lower Hall North Wall	Louvre windows mid-section ~4m High	0.0225
J3084	Lower Hall North Wall	Western area chest height	0.0225
J3085	Lower Hall North Wall	Western area ~4m High	0.0225
J3086	Lower Hall Middle Wall	Western area chest height	0.0225
J3087	Lower Hall Middle Wall	Middle area ledge chest height	0.0225
J3088	Lower Hall Middle Wall	Eastern area chest height	0.0225
J3089	Lower Hall	Concrete slab - south west area	0.0225
J3090	Lower Hall	Concrete slab - central north area	0.0225
J3091	Lower Hall	Concrete slab - south east area	0.0225
J3092	Lower Hall	Concrete slab - north east area	0.0225
J3093		Field Blank	
J3094		Field Blank	
J3095		Field Blank	

### 3.1.2 Assessment criteria

The previous version of Australian Standard AS4361.2-1998 (*Guide to lead paint management, Part 2: Residential and commercial buildings*) had criteria levels for clearance after lead paint management activities of 8 mg/m<sup>2</sup> for exterior surfaces, 5 mg/m<sup>2</sup> for interior windowsills, and 1 mg/m<sup>2</sup> for interior floors. This standard covered domestic settings, which would be expected to have vulnerable people present, including small children at increased risk of ingesting lead particles.

The AS4361.2 standard was updated in 2017 (AS 4361.2-2017) and no longer includes acceptable levels for surface dust lead levels after cleaning activities, instead it specifies that 'lead surface dust loading should not exceed the limits provided by the relevant statutory authority with jurisdiction over the area within which the work has been carried out'.

Neither the ACT nor the Commonwealth jurisdictions have criteria levels for surface lead after clearance activities. However, AS 4361.2-2017 also states that 'if there are no relevant legislated limits, project acceptance criteria should be established'.

The U.S. Department of Housing and Urban Development (HUD), Office of Lead Hazard Control and Health Homes (OLHCHH), released *the Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing* in 2012, which gave acceptable lead dust clearance action levels following lead paint removal. After additional research on adverse effects of lead exposure in children and evidence of feasibility of lower clearance levels was undertaken, the OLHCHH established more stringent lead clearance action levels in 2017, which the USA EPA also intend to adopt (2020), as follows:

- Interior floors: <0.11 mg/m<sup>2</sup>;
- Porch floors: <0.43 mg/m<sup>2</sup>; and
- Interior windowsills and window troughs: <1.08 mg/m<sup>2</sup>.



These clearance levels are intended to protect small children (who are inherently more susceptible to lead poisoning due to their small body size and factors related to their growth) crawling on the floor in a domestic setting, who would be expected to be ingesting lead dust from their hands or through direct mouth to surface contact. As such, adoption of the OLHCHH lead dust clearance action levels for representative surfaces as shown in Table 2 as a criteria level to assess contamination will provide an appropriate degree of protection against lead exposure risks for workers and visitors.

**Table 2: Lead Dust Clearance Criteria Levels**

Surface	Lead Dust Clearance Criteria Level
Interior Floors (representing interior high-contact surfaces)	<0.11 mg/m <sup>2</sup>
Porch Floors (representing all exterior contact surfaces)	<0.43 mg/m <sup>2</sup>
Windowsills and window troughs (representing interior low-contact surfaces)	<1.08 mg/m <sup>2</sup>

These criteria are not appropriate for surfaces with high concentrations of dust, such as within ceiling cavities, because the total volume of dust could result in a high volume of lead in a surface sample even if the percentage of lead in the dust is very low.

## 4 Results

### 4.1 Surface dust contamination

Surface samples returned results above the project criteria in 75 samples, below the project criteria in 13 samples and no lead present in 5 samples as shown in Table 3. The full laboratory report is attached at Appendix 4.

**Table 3: Blank corrected\* surface lead sampling results on 1 February 2021**

Sample Number	Location	Surface/Item	Criteria Level (mg/m <sup>2</sup> )	Measured concentration (mg/m <sup>2</sup> )
J3001	Loft area	Concrete slab north	<1.08	248.89
J3002	Loft area	Concrete slab south	<1.08	48.89
J3003	Rear Store area	Bench top	<0.11	4.89
J3004	Rear Store area	Cabinet top	<0.11	7.11
J3005	Rear Store area	Box exterior surface	<0.11	3.69
J3006	Rear Store area	Box interior surface	<0.11	0.04
J3007	Rear Store area	Box exterior surface	<0.11	4.18
J3008	Rear Store area	Box interior surface	<0.11	0.04
J3009	Food Court Store	Food presentation cabinet	<0.11	4.44
J3010	Food Court Store	Wall hand towel dispenser	<0.11	4.89
J3011	Food Court Store	Perspex cover	<0.11	6.67

Sample Number	Location	Surface/Item	Criteria Level (mg/m <sup>2</sup> )	Measured concentration (mg/m <sup>2</sup> )
J3012	Food Court	Blue bench	<0.11	3.29
J3013	Food Court	Pink store white bench	<0.11	3.51
J3014	Food Court	Bain marie exterior cover	<0.11	2.76
J3015	Food Court	Bain marie interior tray	<0.11	1.16
J3016	Food Court	Bain marie exterior cover	<0.11	16.89
J3017	Food Court	Bain marie interior tray	<0.11	0.27
J3018	Food Court	Refrigerator exterior cover	<0.11	217.78
J3019	Food Court	Refrigerator interior shelf	<0.11	0.13
J3020	Food Court	Refrigerator exterior enamel	<0.11	3.82
J3021	Food Court	Refrigerator interior shelf	<0.11	0.04
J3022	Food Court	Ice cream cooler exterior top open	<0.11	4.00
J3023	Food Court	Ice cream cooler interior top open	<0.11	2.44
J3024	Food Court	Ice cream cooler exterior top closed	<0.11	4.09
J3025	Food Court	Ice cream cooler interior top closed	<0.11	3.20
J3026	Food Court	Concrete slab central	<1.08	3.42
J3027	Workshop	Tall refrigerator exterior top	<1.08	62.22
J3028	Workshop	Tall refrigerator interior	<0.11	0.31
J3029	Workshop	Smaller refrigerator exterior top	<1.08	37.33
J3030	Workshop	Smaller refrigerator interior	<0.11	0.49
J3031	Workshop	Tall cupboard top	<1.08	2.80
J3032	Workshop	Smaller cupboard top	<1.08	4.44
J3033	Workshop	Concrete slab central	<1.08	24.89
J3034	North Store opposite Food Court	Refrigerator exterior top	<1.08	44.44
J3035	North Store opposite Food Court	Refrigerator interior	<0.11	0.04
J3036	North Store opposite Food Court	Plastic box exterior	<0.11	8.89
J3037	North Store opposite Food Court	Plastic box interior	<0.11	1.51
J3038	Foreshore Space	Steel frame - south east	<1.08	53.33

Sample Number	Location	Surface/Item	Criteria Level (mg/m <sup>2</sup> )	Measured concentration (mg/m <sup>2</sup> )
J3039	Foreshore Space	Wall cabinet exterior	<1.08	622.22
J3040	Foreshore Space	Concrete slab south	<1.08	36.89
J3041	Foreshore Space	Concrete slab north	<1.08	10.67
J3042	Mezzanine West Office	High duct exterior	<1.08	6.22
J3043	Mezzanine West Office	Central table	<0.11	0.22
J3044	Upper Hall	Concrete slab - n/w area	<1.08	4.40
J3045	Upper Hall	Concrete slab - south central area	<1.08	2.36
J3046	Upper Hall	Concrete slab north central area	<1.08	0.98
J3047	Upper Hall	Concrete slab - western area	<1.08	0.80
J3048	Upper Hall South Wall	Eastern area chest height	<1.08	0.40
J3049	Upper Hall South Wall	Central east area chest height	<1.08	0.13
J3050	Upper Hall South Wall	Central west area chest height	<1.08	0.13
J3051	Upper Hall South Wall	Western area chest height	<1.08	0.62
J3052	Upper Hall Middle Wall	Diagonal brace western area	<1.08	2.58
J3053	Upper Hall Middle Wall	Diagonal brace eastern area	<1.08	17.33
J3054	Upper Hall Central Furniture area	Chair seat north west	<0.11	1.11
J3055	Upper Hall Central Furniture area	Chair seat west	<0.11	0.84
J3056	Upper Hall Central Furniture area	Table top west	<0.11	0.44
J3057	Upper Hall Central Furniture area	Table top south west	<0.11	0.67
J3058	Upper Hall Central Furniture area	Portable table top south west	<0.11	4.89
J3059	Upper Hall Central Furniture area	Portable vertical table top south west	<0.11	0.89
J3060	Upper Hall Central Furniture area	Chair seat south east	<0.11	0.71

Sample Number	Location	Surface/Item	Criteria Level (mg/m <sup>2</sup> )	Measured concentration (mg/m <sup>2</sup> )
J3061	Upper Hall Central Furniture area	Portable vertical table top south east	<0.11	0.09
J3062	Upper Hall Central Furniture area	Bench seat north east	<0.11	1.64
J3063	Upper Hall enclosed furniture	East section concrete slab	<1.08	2.98
J3064	Upper Hall enclosed furniture	Soft floor mat surface	<0.11	1.56
J3065	Upper Hall South Wall	Eastern area ~4m high	<1.08	7.11
J3066	Upper Hall South Wall	Central west area ~4m high	<1.08	0.22
J3067	Upper Hall	Central south high aircon unit	<1.08	24.00
J3068	Upper Hall South Wall	Central east area ~4m high	<1.08	1.64
J3069	Upper Hall	Hanging banner - orange	<1.08	0.36
J3070	Upper Hall	Hanging banner - purple	<1.08	0.49
J3071	Upper Hall	Central south west high aircon unit	<1.08	14.67
J3072	Upper Hall South Wall	Western area ~4m high	<1.08	1.02
J3073	Upper Hall North West Kitchen	Top of west column	<1.08	62.22
J3074	Upper Hall North West Kitchen	Concrete slab central	<1.08	1.47
J3075	Upper Hall North West Kitchen	Kitchen sink surface	<0.11	1.56
J3076	Upper Hall North East Store	Wall top plate	<1.08	7.11
J3077	Upper Hall North East Store	Cardboard box surface	<0.11	1.64
J3078	Lower Hall North Wall	Eastern area chest height	<1.08	0.93
J3079	Lower Hall North Wall	Eastern area ~4m High	<1.08	2.49
J3080	Lower Hall North Wall	East central adjacent double doors chest height	<1.08	3.38
J3081	Lower Hall North Wall	East central adjacent double doors ~4m High	<1.08	1.51
J3082	Lower Hall North Wall	Louvre windows mid-section chest height	<1.08	1.42

Sample Number	Location	Surface/Item	Criteria Level (mg/m <sup>2</sup> )	Measured concentration (mg/m <sup>2</sup> )
J3083	Lower Hall North Wall	Louvre windows mid-section ~4m High	<1.08	0.31
J3084	Lower Hall North Wall	Western area chest height	<1.08	1.47
J3085	Lower Hall North Wall	Western area ~4m High	<1.08	0.89
J3086	Lower Hall Middle Wall	Western area chest height	<1.08	1.60
J3087	Lower Hall Middle Wall	Middle area ledge chest height	<1.08	3.96
J3088	Lower Hall Middle Wall	Eastern area chest height	<1.08	1.02
J3089	Lower Hall	Concrete slab - south west area	<1.08	8.89
J3090	Lower Hall	Concrete slab - central north area	<1.08	8.44
J3091	Lower Hall	Concrete slab - south east area	<1.08	17.78
J3092	Lower Hall	Concrete slab - north east area	<1.08	15.11

\*all blank values were below the detection limit

Based on these results there may be a risk from exposure to lead dust throughout, and cleaning of these areas should be completed to ensure that residual lead dust does not present a risk to health for occupants.

## 5 Summary

Assessment of lead in surface dust found results above the adopted project criteria throughout, indicating that there may be a risk from exposure to lead dust. Cleaning should be completed to ensure that residual lead dust does not present a risk to health for occupants.

## 6 Recommendations

### 6.1 Lead dust remediation

1. Although not all concentrations of lead dust were above the assessment criteria access to all locations should be restricted, and only essential tasks should be carried out until remediation has been completed. The rationale for this recommendation is that the same surface in similar areas resulted in concentrations both above and below the acceptable assessment criteria. In grouping the results 74 were above and 14 below the respective assessment criteria and 4 were below the detection limit for lead in surface dust. It is therefore recommended that any person entering the work area wear suitable respiratory protection to minimise exposure to lead dust.
2. Further investigation of the extent of contamination in:
  - a. The Lower Hall north west toilet area
  - b. The Upper Hall north east women's toilet and rear store areas
 should be carried out to determine the require scope of works for cleaning/remediation.

3. Cleaning of surfaces in:

- **Loft:** Remediate prior to use as floor concentrations are high.
- **Lower Hall Rear and North Store and Food Court Areas:** Remediate prior to use as concentrations are high.
- **Workshop Areas:** Remediate prior to use as concentrations are high.
- **Foreshore Space:** Remediate prior to use as concentrations are high.
- **Upper Hall floor and wall locations:** There is a mix of lead concentration results above and below the 1.08 mg/m<sup>2</sup> criteria and therefore consideration should be given to remediate all area as delineation of acceptable and non-acceptable criteria is impracticable.
- **Upper Hall flags:** Results are acceptable.
- **Upper Hall air-conditioning units:** Remediate as concentrations are high.
- **Upper Hall furniture and all store and storage areas:** Remediate as concentrations are high.
- **Lower Hall wall locations:** There is a mix of lead concentration results above and below the 1.08 mg/m<sup>2</sup> criteria and therefore consideration should be given to remediate all area as delineation of acceptable and non-acceptable criteria is impracticable.
- **Lower Hall floor locations:** Remediate as concentrations are high.

should be carried out.

4. Workers undertaking cleaning/remediation should have appropriate controls in place to prevent exposure to lead, as per AS 4361.2:2017.
5. Cleaning methods should meet the requirement of AS 4361.2:2017.
6. Clearance testing should be undertaken once remediation is complete. Containment/exclusion zones should be maintained until notification of clearance is received.

**Note:** Refer to Appendices 6 and 7 for detailed requirements and processes associated with remediation of lead in dust.

## 7 Limitations

While Robson Environmental has taken all care to ensure that this report includes the most accurate information available, the report and any risk assessment presented is based on the information obtained by Robson Environmental at the time of assessment. Sampling was limited to accessible areas and materials and no assessment could be made of concealed or inaccessible paints.

While this assessment was conducted to a high standard and conclusions are evidence-based, unless the paint on a specific surface has been tested, there is inherently some uncertainty about the lead content. As a precaution, all paints suspected of containing lead should be assumed to contain lead and be treated appropriately until analysis proves otherwise, particularly for paints found during demolition or refurbishment activities.

The findings contained within this report are developed from the interpretation of the results of specific sampling methods used in accordance with generally accepted practices and standards, based

on the current state of knowledge. To the best of Robson Environmental's knowledge, our assessment of the data represents a reasonable interpretation of the general conditions, and subsequent risk at the time of sampling. Should you have any questions or require further information please contact Robson Environmental.

## 8 References

- National Institute for Occupational Safety and Health (NIOSH) 1996, *NIOSH Method 9100: Lead in Surface Wipes*, NIOSH Manual of Analytical Methods (NMAM), Fourth Edition, NIOSH, USA
- Standards Australia 1998, *Guide to lead paint management, Part 2: Residential and commercial buildings*, AS4361.2–1998, Standards Australia, Sydney
- Standards Australia 2017a, *Guide to hazardous paint management, Part 1: Lead and other hazardous metallic pigments in industrial applications*, AS/NZS4361.1, Standards Australia, Australia.
- Standards Australia 2017b, *Guide to hazardous paint management, Part 2: Lead paint in residential, public and commercial buildings*, AS/NZS4361.2, Standards Australia, Australia.
- U.S. Department of Housing and Urban Development 2012, *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing Second Edition*, Office of Health Homes and Lead Hazard Control, Washington, DC.
- U.S. Department of Housing and Urban Development 2017, *Revised Dust-Lead Action Levels for Risk Assessment and Clearance; Clearance of Porch Floors*, Policy Guidance Number 2017-01, Office of Health Homes and Lead Hazard Control, Washington, DC.
- US Environmental Protection Agency 2020, *Review of Dust Lead Clearance Levels*, viewed October 7, 2020, <<https://www.federalregister.gov/d/2020-13582>>
- Work Health and Safety Regulations 2011 (ACT).

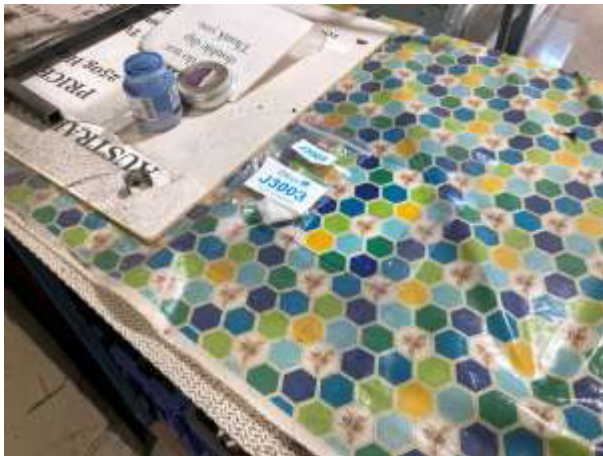
**Appendix 1 Photographs of lead dust above criteria**



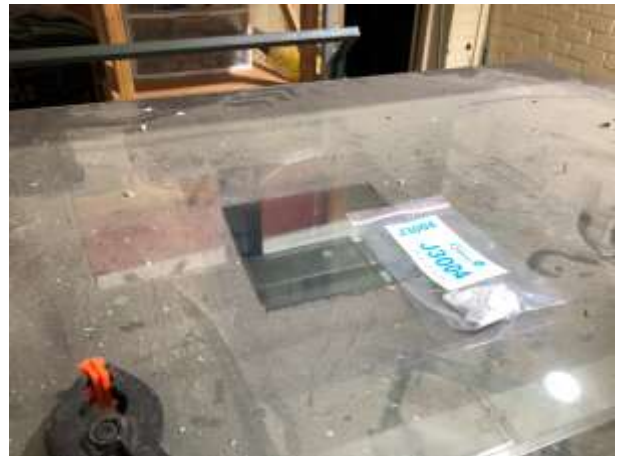
**Figure 1: J3001**



**Figure 2: J3002**



**Figure 3: J3003**



**Figure 4: J3004**



**Figure 5: J3005**



**Figure 6: J3007**





**Figure 7: J3009**



**Figure 8: J3010**



**Figure 9: J3011**



**Figure 10: J3012**



**Figure 11: J3013**



**Figure 12: J3014**



**Figure 13: J3015**



**Figure 14: J3016**



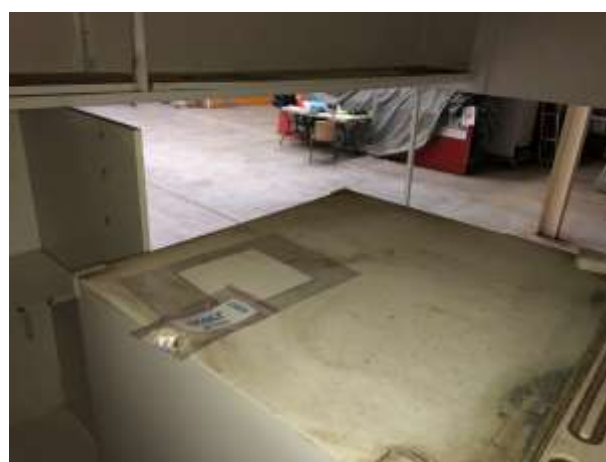
**Figure 15: J3017**



**Figure 16: J3018**



**Figure 17: J3019**



**Figure 18: J3020**



**Figure 19: J3022**



**Figure 20: J3023**



**Figure 21: J3024**



**Figure 22: J3025**



**Figure 23: J3026**



**Figure 24: J3027**



**Figure 25: J3028**



**Figure 26: J3029**



**Figure 27: J3030**



**Figure 28: J3031**



**Figure 29: J3032**



**Figure 30: J3033**



**Figure 31: J3034**



**Figure 32: J3036**



**Figure 33: J3037**



**Figure 34: J3038**



**Figure 35: J3039**



**Figure 36: J3040**



**Figure 37: J3014**



**Figure 38: J3042**



**Figure 39: J3043**



**Figure 40: J3044**



**Figure 41: J3045**



**Figure 42: J3052**



**Figure 43: J3053**



**Figure 44: J3054**



**Figure 45: J3055**



**Figure 46: J3056**



**Figure 47: J3057**



**Figure 48: J3058**



**Figure 49: J3059**



**Figure 50: J3060**



**Figure 51: J3061**



**Figure 52: J3062**



**Figure 53: J3063**



**Figure 54: J3064**

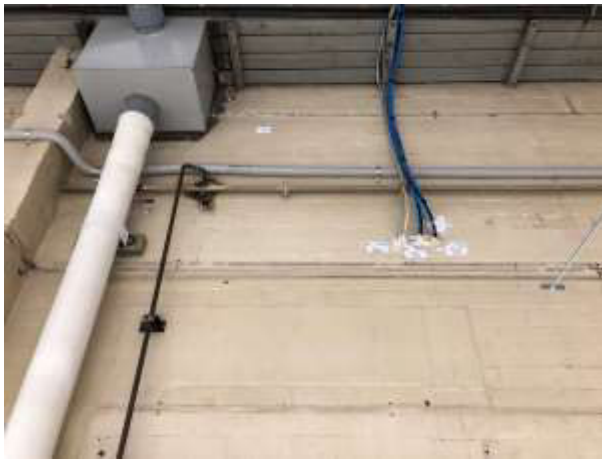




**Figure 55: J3065**



**Figure 56: J3067**



**Figure 57: J3068**



**Figure 58: J3071**



**Figure 59: J3073**



**Figure 60: J3074**



**Figure 61: J3075**



**Figure 62: J3076**



**Figure 63: J3077**



**Figure 64: J3079**



**Figure 65: J3080**



**Figure 66: J3081**



**Figure 67: J3082**



**Figure 68: J3084**



**Figure 69: J3086**



**Figure 70: J3087**



**Figure 71: J3089**



**Figure 72: J3090**

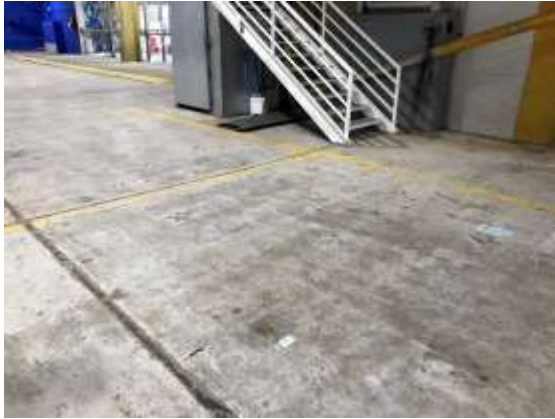


**Figure 73: J3091**



**Figure 74: J3092**

**Appendix 2 Photographs of lead dust below criteria**



**Figure 75: J3046**



**Figure 76: J3047**



**Figure 77: J3048**



**Figure 78: J3049**



**Figure 79: J3050**



**Figure 80: J3051**



**Figure 81: J3066**



**Figure 82: J3069**



**Figure 83: J3070**



**Figure 84: J3072**



**Figure 85: J3078**



**Figure 86: J3083**



**Figure 87: J3085**



**Figure 88: J3088**

**Appendix 3 Photographs of lead dust not present**



**Figure 89: J3006**



**Figure 90: J3008**



**Figure 91: J3021**



**Figure 92: J3035**



## Appendix 4 Laboratory Report



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### CERTIFICATE OF ANALYSIS 260724

#### Client Details

Client	Robson Environmental Pty Ltd
Attention	Schedule 2.2(a)(ii)
Address	PO Box 112, Fyshwick, ACT, 2609

#### Sample Details

Your Reference	T10589
Number of Samples	95 Swab
Date samples received	02/02/2021
Date completed instructions received	02/02/2021

#### Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.  
 Samples were analysed as received from the client. Results relate specifically to the samples as received.  
 Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

#### Report Details

Date results requested by	02/02/2021
Date of issue	02/02/2021
NATA Accreditation Number 2901. This document shall not be reproduced except in full.	
Accredited for compliance with ISO/IEC 17025 - Testing. Tests not covered by NATA are denoted with *	

**Results Approved By**  
 Schedule 2.2(a)(ii) Reporting Supervisor

**Authorised By**  
 Schedule 2.2(a)(ii)  
 Schedule 2.2(a)(ii) Laboratory Manager

Envirolab Reference: 260724  
 Revision No: R00



Page | 1 of 9

Client Reference: T10589

Lead in swab						
Our Reference		260724-1	260724-2	260724-3	260724-4	260724-5
Your Reference	UNITS	J3001	J3002	J3003	J3004	J3005
Date Sampled		01/02/2021	01/02/2021	01/02/2021	01/02/2021	01/02/2021
Type of sample		Swab	Swab	Swab	Swab	Swab
Date prepared	-	02/02/2021	02/02/2021	02/02/2021	02/02/2021	02/02/2021
Date analysed	-	02/02/2021	02/02/2021	02/02/2021	02/02/2021	02/02/2021
Lead in Swabs	µg/swab	5,600	1,100	110	160	83

Lead in swab						
Our Reference		260724-6	260724-7	260724-8	260724-9	260724-10
Your Reference	UNITS	J3006	J3007	J3008	J3009	J3010
Date Sampled		01/02/2021	01/02/2021	01/02/2021	01/02/2021	01/02/2021
Type of sample		Swab	Swab	Swab	Swab	Swab
Date prepared	-	02/02/2021	02/02/2021	02/02/2021	02/02/2021	02/02/2021
Date analysed	-	02/02/2021	02/02/2021	02/02/2021	02/02/2021	02/02/2021
Lead in Swabs	µg/swab	<1	94	<1	100	110

Lead in swab						
Our Reference		260724-11	260724-12	260724-13	260724-14	260724-15
Your Reference	UNITS	J3011	J3012	J3013	J3014	J3015
Date Sampled		01/02/2021	01/02/2021	01/02/2021	01/02/2021	01/02/2021
Type of sample		Swab	Swab	Swab	Swab	Swab
Date prepared	-	02/02/2021	02/02/2021	02/02/2021	02/02/2021	02/02/2021
Date analysed	-	02/02/2021	02/02/2021	02/02/2021	02/02/2021	02/02/2021
Lead in Swabs	µg/swab	150	74	79	62	26

Lead in swab						
Our Reference		260724-16	260724-17	260724-18	260724-19	260724-20
Your Reference	UNITS	J3016	J3017	J3018	J3019	J3020
Date Sampled		01/02/2021	01/02/2021	01/02/2021	01/02/2021	01/02/2021
Type of sample		Swab	Swab	Swab	Swab	Swab
Date prepared	-	02/02/2021	02/02/2021	02/02/2021	02/02/2021	02/02/2021
Date analysed	-	02/02/2021	02/02/2021	02/02/2021	02/02/2021	02/02/2021
Lead in Swabs	µg/swab	380	6	4,900	3	86

Lead in swab						
Our Reference		260724-21	260724-22	260724-23	260724-24	260724-25
Your Reference	UNITS	J3021	J3022	J3023	J3024	J3025
Date Sampled		01/02/2021	01/02/2021	01/02/2021	01/02/2021	01/02/2021
Type of sample		Swab	Swab	Swab	Swab	Swab
Date prepared	-	02/02/2021	02/02/2021	02/02/2021	02/02/2021	02/02/2021
Date analysed	-	02/02/2021	02/02/2021	02/02/2021	02/02/2021	02/02/2021
Lead in Swabs	µg/swab	<1	90	55	92	72

**Client Reference: T10589**

Lead in swab						
Our Reference		260724-26	260724-27	260724-28	260724-29	260724-30
Your Reference	UNITS	J3026	J3027	J3028	J3029	J3030
Date Sampled		01/02/2021	01/02/2021	01/02/2021	01/02/2021	01/02/2021
Type of sample		Swab	Swab	Swab	Swab	Swab
Date prepared	-	02/02/2021	02/02/2021	02/02/2021	02/02/2021	02/02/2021
Date analysed	-	02/02/2021	02/02/2021	02/02/2021	02/02/2021	02/02/2021
Lead in Swabs	µg/swab	77	1,400	7	840	11

Lead in swab						
Our Reference		260724-31	260724-32	260724-33	260724-34	260724-35
Your Reference	UNITS	J3031	J3032	J3033	J3034	J3035
Date Sampled		01/02/2021	01/02/2021	01/02/2021	01/02/2021	01/02/2021
Type of sample		Swab	Swab	Swab	Swab	Swab
Date prepared	-	02/02/2021	02/02/2021	02/02/2021	02/02/2021	02/02/2021
Date analysed	-	02/02/2021	02/02/2021	02/02/2021	02/02/2021	02/02/2021
Lead in Swabs	µg/swab	63	100	560	1,000	<1

Lead in swab						
Our Reference		260724-36	260724-37	260724-38	260724-39	260724-40
Your Reference	UNITS	J3036	J3037	J3038	J3039	J3040
Date Sampled		01/02/2021	01/02/2021	01/02/2021	01/02/2021	01/02/2021
Type of sample		Swab	Swab	Swab	Swab	Swab
Date prepared	-	02/02/2021	02/02/2021	02/02/2021	02/02/2021	02/02/2021
Date analysed	-	02/02/2021	02/02/2021	02/02/2021	02/02/2021	02/02/2021
Lead in Swabs	µg/swab	200	34	1,200	14,000	830

Lead in swab						
Our Reference		260724-41	260724-42	260724-43	260724-44	260724-45
Your Reference	UNITS	J3041	J3042	J3043	J3044	J3045
Date Sampled		01/02/2021	01/02/2021	01/02/2021	01/02/2021	01/02/2021
Type of sample		Swab	Swab	Swab	Swab	Swab
Date prepared	-	02/02/2021	02/02/2021	02/02/2021	02/02/2021	02/02/2021
Date analysed	-	02/02/2021	02/02/2021	02/02/2021	02/02/2021	02/02/2021
Lead in Swabs	µg/swab	240	140	5	99	53

Lead in swab						
Our Reference		260724-46	260724-47	260724-48	260724-49	260724-50
Your Reference	UNITS	J3046	J3047	J3048	J3049	J3050
Date Sampled		01/02/2021	01/02/2021	01/02/2021	01/02/2021	01/02/2021
Type of sample		Swab	Swab	Swab	Swab	Swab
Date prepared	-	02/02/2021	02/02/2021	02/02/2021	02/02/2021	02/02/2021
Date analysed	-	02/02/2021	02/02/2021	02/02/2021	02/02/2021	02/02/2021
Lead in Swabs	µg/swab	22	18	9	3	3

**Client Reference: T10589**

Lead in swab						
Our Reference:		260724-51	260724-52	260724-53	260724-54	260724-55
Your Reference:	UNITS	J3051	J3052	J3053	J3054	J3055
Date Sampled		01/02/2021	01/02/2021	01/02/2021	01/02/2021	01/02/2021
Type of sample		Swab	Swab	Swab	Swab	Swab
Date prepared	-	02/02/2021	02/02/2021	02/02/2021	02/02/2021	02/02/2021
Date analysed	-	02/02/2021	02/02/2021	02/02/2021	02/02/2021	02/02/2021
Lead in Swabs	µg/swab	14	58	390	25	19

Lead in swab						
Our Reference:		260724-56	260724-57	260724-58	260724-59	260724-60
Your Reference:	UNITS	J3056	J3057	J3058	J3059	J3060
Date Sampled		01/02/2021	01/02/2021	01/02/2021	01/02/2021	01/02/2021
Type of sample		Swab	Swab	Swab	Swab	Swab
Date prepared	-	02/02/2021	02/02/2021	02/02/2021	02/02/2021	02/02/2021
Date analysed	-	02/02/2021	02/02/2021	02/02/2021	02/02/2021	02/02/2021
Lead in Swabs	µg/swab	10	15	110	20	16

Lead in swab						
Our Reference:		260724-61	260724-62	260724-63	260724-64	260724-65
Your Reference:	UNITS	J3061	J3062	J3063	J3064	J3065
Date Sampled		01/02/2021	01/02/2021	01/02/2021	01/02/2021	01/02/2021
Type of sample		Swab	Swab	Swab	Swab	Swab
Date prepared	-	02/02/2021	02/02/2021	02/02/2021	02/02/2021	02/02/2021
Date analysed	-	02/02/2021	02/02/2021	02/02/2021	02/02/2021	02/02/2021
Lead in Swabs	µg/swab	2	37	67	35	160

Lead in swab						
Our Reference:		260724-66	260724-67	260724-68	260724-69	260724-70
Your Reference:	UNITS	J3066	J3067	J3068	J3069	J3070
Date Sampled		01/02/2021	01/02/2021	01/02/2021	01/02/2021	01/02/2021
Type of sample		Swab	Swab	Swab	Swab	Swab
Date prepared	-	02/02/2021	02/02/2021	02/02/2021	02/02/2021	02/02/2021
Date analysed	-	02/02/2021	02/02/2021	02/02/2021	02/02/2021	02/02/2021
Lead in Swabs	µg/swab	5	540	37	8	11

Lead in swab						
Our Reference:		260724-71	260724-72	260724-73	260724-74	260724-75
Your Reference:	UNITS	J3071	J3072	J3073	J3074	J3075
Date Sampled		01/02/2021	01/02/2021	01/02/2021	01/02/2021	01/02/2021
Type of sample		Swab	Swab	Swab	Swab	Swab
Date prepared	-	02/02/2021	02/02/2021	02/02/2021	02/02/2021	02/02/2021
Date analysed	-	02/02/2021	02/02/2021	02/02/2021	02/02/2021	02/02/2021
Lead in Swabs	µg/swab	330	23	1,400	33	35

Client Reference: T10589

Lead in swab						
Our Reference		260724-76	260724-77	260724-78	260724-79	260724-80
Your Reference	UNITS	J3076	J3077	J3078	J3079	J3080
Date Sampled		01/02/2021	01/02/2021	01/02/2021	01/02/2021	01/02/2021
Type of sample		Swab	Swab	Swab	Swab	Swab
Date prepared	-	02/02/2021	02/02/2021	02/02/2021	02/02/2021	02/02/2021
Date analysed	-	02/02/2021	02/02/2021	02/02/2021	02/02/2021	02/02/2021
Lead in Swabs	µg/swab	160	37	21	56	76

Lead in swab						
Our Reference		260724-81	260724-82	260724-83	260724-84	260724-85
Your Reference	UNITS	J3081	J3082	J3083	J3084	J3085
Date Sampled		01/02/2021	01/02/2021	01/02/2021	01/02/2021	01/02/2021
Type of sample		Swab	Swab	Swab	Swab	Swab
Date prepared	-	02/02/2021	02/02/2021	02/02/2021	02/02/2021	02/02/2021
Date analysed	-	02/02/2021	02/02/2021	02/02/2021	02/02/2021	02/02/2021
Lead in Swabs	µg/swab	34	32	7	33	20

Lead in swab						
Our Reference		260724-86	260724-87	260724-88	260724-89	260724-90
Your Reference	UNITS	J3086	J3087	J3088	J3089	J3090
Date Sampled		01/02/2021	01/02/2021	01/02/2021	01/02/2021	01/02/2021
Type of sample		Swab	Swab	Swab	Swab	Swab
Date prepared	-	02/02/2021	02/02/2021	02/02/2021	02/02/2021	02/02/2021
Date analysed	-	02/02/2021	02/02/2021	02/02/2021	02/02/2021	02/02/2021
Lead in Swabs	µg/swab	36	89	23	200	190

Lead in swab						
Our Reference		260724-91	260724-92	260724-93	260724-94	260724-95
Your Reference	UNITS	J3091	J3092	J3093	J3094	J3095
Date Sampled		01/02/2021	01/02/2021	01/02/2021	01/02/2021	01/02/2021
Type of sample		Swab	Swab	Swab	Swab	Swab
Date prepared	-	02/02/2021	02/02/2021	02/02/2021	02/02/2021	02/02/2021
Date analysed	-	02/02/2021	02/02/2021	02/02/2021	02/02/2021	02/02/2021
Lead in Swabs	µg/swab	400	340	<1	<1	<1

**Client Reference: T10589**

Method ID	Methodology Summary
Metals-020/021/022	Digestion of Dust wipes/swabs and /or miscellaneous samples for Metals determination by ICP-AES/MS and/or CV-AAS

Envirolab Reference: 260724  
Revision No: R00

Page | 6 of 9

**Client Reference: T10589**

QUALITY CONTROL: Lead in swab				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			02/02/2021	[NT]	[NT]	[NT]	[NT]	02/02/2021	[NT]
Date analysed	-			02/02/2021	[NT]	[NT]	[NT]	[NT]	02/02/2021	[NT]
Lead in Swabs	µg/swab	1	Metals-020/021/022	<1	[NT]	[NT]	[NT]	[NT]	93	[NT]

QUALITY CONTROL: Lead in swab				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	[NT]
Date prepared	-			[NT]	[NT]	[NT]	[NT]	[NT]	02/02/2021	[NT]
Date analysed	-			[NT]	[NT]	[NT]	[NT]	[NT]	02/02/2021	[NT]
Lead in Swabs	µg/swab	1	Metals-020/021/022	[NT]	[NT]	[NT]	[NT]	[NT]	95	[NT]

QUALITY CONTROL: Lead in swab				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	[NT]
Date prepared	-			[NT]	[NT]	[NT]	[NT]	[NT]	02/02/2021	[NT]
Date analysed	-			[NT]	[NT]	[NT]	[NT]	[NT]	02/02/2021	[NT]
Lead in Swabs	µg/swab	1	Metals-020/021/022	[NT]	[NT]	[NT]	[NT]	[NT]	96	[NT]

QUALITY CONTROL: Lead in swab				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	[NT]
Date prepared	-			[NT]	[NT]	[NT]	[NT]	[NT]	02/02/2021	[NT]
Date analysed	-			[NT]	[NT]	[NT]	[NT]	[NT]	02/02/2021	[NT]
Lead in Swabs	µg/swab	1	Metals-020/021/022	[NT]	[NT]	[NT]	[NT]	[NT]	95	[NT]

QUALITY CONTROL: Lead in swab				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	[NT]
Date prepared	-			[NT]	[NT]	[NT]	[NT]	[NT]	02/02/2021	[NT]
Date analysed	-			[NT]	[NT]	[NT]	[NT]	[NT]	02/02/2021	[NT]
Lead in Swabs	µg/swab	1	Metals-020/021/022	[NT]	[NT]	[NT]	[NT]	[NT]	96	[NT]

Client Reference: T10589

Result Definitions	
<b>NT</b>	Not tested
<b>NA</b>	Test not required
<b>INS</b>	Insufficient sample for this test
<b>PQL</b>	Practical Quantitation Limit
<b>&lt;</b>	Less than
<b>&gt;</b>	Greater than
<b>RPD</b>	Relative Percent Difference
<b>LCS</b>	Laboratory Control Sample
<b>NS</b>	Not specified
<b>NEPM</b>	National Environmental Protection Measure
<b>NR</b>	Not Reported



Quality Control Definitions	
<b>Blank</b>	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 exactly the same manner as for samples.
<b>Duplicate</b>	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
<b>Matrix Spike</b>	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.
<b>LCS (Laboratory Control Sample)</b>	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. It is simply a check sample.
<b>Surrogate Spike</b>	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.
Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.	
The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.	
Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2	

Laboratory Acceptance Criteria
Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.
Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.
Spikes for Physical and Aggregate Tests are not applicable.
For VOCs in water samples, three vials are required for duplicate or spike analysis.
Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.
Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.
In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.
When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.
Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.
Measurement Uncertainty estimates are available for most tests upon request.
Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.
Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

# Appendix 5 Plans

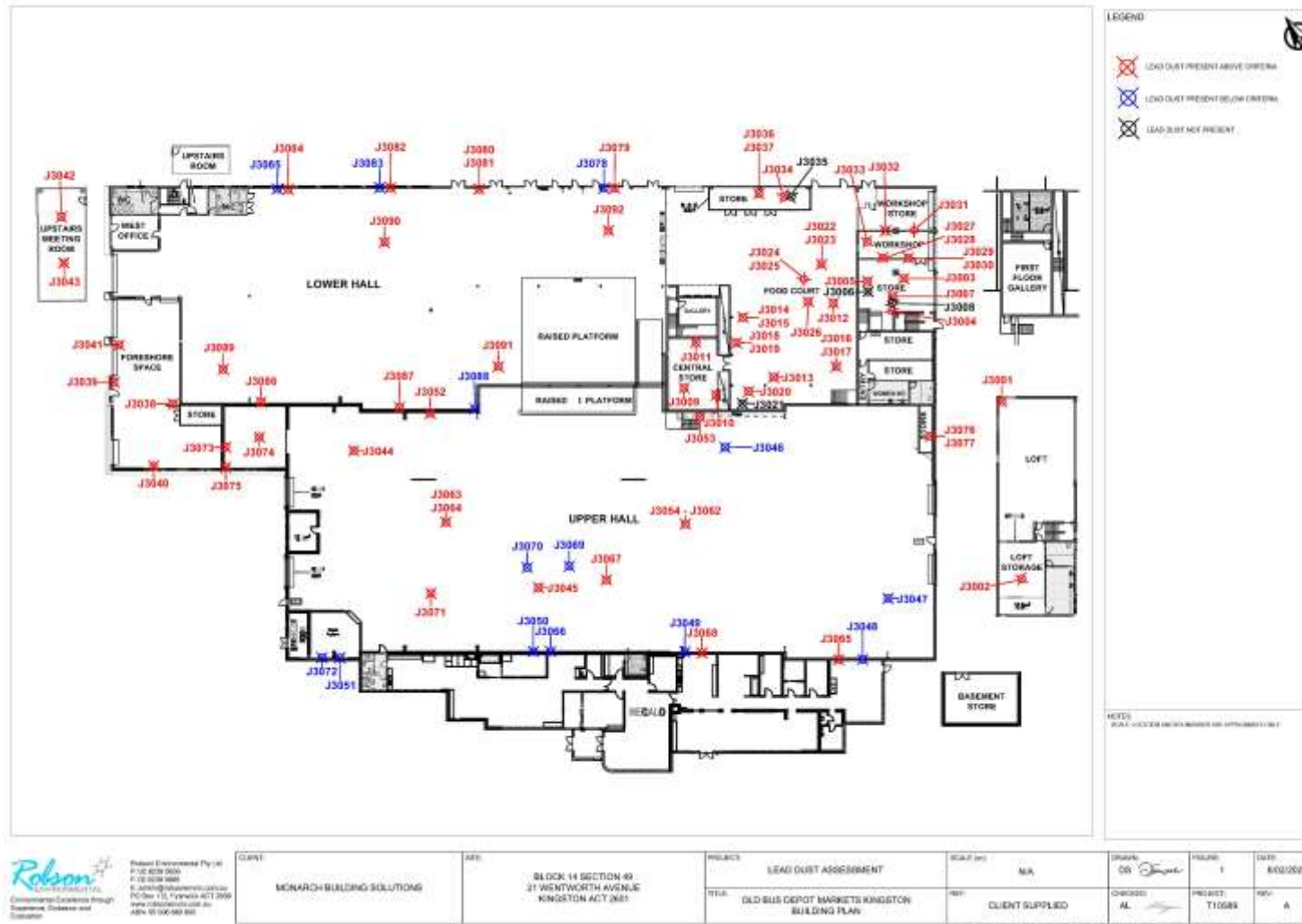


Figure 93: Sampling locations throughout

## Appendix 6 Lead Dust Remediation

### Containment

Due to the extent of lead contamination identified it is recommended that the remediation commences at height in each area and progresses to the walls, to items on the floor and finally the floors throughout. An appropriate process is:

1. An inventory of all equipment boxes and their contents should be requested from the stall holders and people who stored items in the assessed areas of the Upper and Lower Hall floor areas of the building. The rationale for this is to determine whether it may be more cost effective to dispose of the container/box/item as lead waste rather than clean.
2. Where working from elevated platforms, plastic sheets should be used to prevent contaminating the equipment from falling paint waste.
3. Seal windows, doors, vents, air ducts, and any other openings with plastic and tape, to ensure dust does not leave the room.
4. Roller doors and all perimeter openings should be closed/sealed to minimise draughts.
5. Methods such as using dry cloths and sweeping should be not be undertaken. Wetting of material to minimise dust generation should be considered.
6. The preferred method of waste collection is via HEPA vacuuming, as it has an enclosed pathway. As a minimum, this should include:
  - a. HEPA vacuuming for dry waste, and liquid vacuuming for liquid waste.
  - b. Wiping down all surfaces with damp cloths, wetted with water and detergent. Dispose of cloths contaminated with lead waste.
7. Prevent the transfer of waste outside the immediate work area.
  - a. Use disposable booties and overalls within the work area and remove them before leaving the work area.
  - b. Wipe tools and equipment with damp cloths before removal from the work area.

Airborne dust monitoring for lead is recommended to demonstrate that personnel are not at a potential exposure risk and that lead dust is not escaping from the work area.

### Waste management

1. Remove accumulated waste frequently to prevent it spreading. Waste should be cleared from the workspace at least once a day.
2. Waste should be moved to appropriate storage containers directly.
3. Appropriate storage containers include leakproof drums, bins and skips. Lids and covers should be secure and marked with the words 'hazardous waste'.
4. Waste should be stored in a secure location with warning signage.
5. Waste storage is only temporary, and waste should be analysed, classified and disposed of appropriately as soon as practical.
6. If storage location is outdoors, it should be on well drained ground, and out of potential flood paths.
7. Precautions to prevent escape of waste should be put in place when moving waste.

8. Disposal of lead waste should be undertaken in accordance with the method given in Appendix 7.

### Final decontamination

On completion of the project, decontamination as follows should be performed:

1. Remove deposited dust from the outer housing of the air-conditioning units and other ledges, windows, floors, walls, plastic covered furniture, floors and other surfaces by HEPA vacuuming as required.
2. Wipe surfaces using cloths dampened with a sugar soap solution.
3. Wipe surfaces using cloths dampened with water.
4. Wipe surfaces with a dry cloth.
5. Wipe prepared surfaces or surfaces which have had lead removed with disposable cloths to remove trace dust.
6. Dispose of cloths contaminated with lead waste.
7. Once all dust has been removed from surfaces remove ground sheets and plastic covering furniture and openings. Dispose of with lead waste.

### Clearance testing

After completion of all work and final decontamination, samples of surface dust should be collected by the Lead Specialist to determine:

1. If there has been an impact on the property and surrounding areas from the work; and
2. To confirm that the building is safe for resumption of normal use.

Sampling should be undertaken in accordance with the requirements of Appendix C of AS/NZS 4361.2:2017. Background monitoring before works commence is recommended to establish/confirm existing airborne lead concentrations.

### Personal Protective Equipment (PPE)

PPE is the required throughout the lead dust remediation works.

Workers involved in the lead dust remediation should wear the following PPE:

- A properly-fitted P2 particulate respirator when undertaking work which will produce lead particulates noting:
  - Respirators should be selected and maintained in accordance with AS/NZS1715:2009 *Selection, use and maintenance of respiratory protective equipment*, and should be fit-tested annually.
- Overalls with a head covering, noting:
  - Contaminated overalls should not be worn outside of the containment area.
  - Disposable overalls are recommended.
  - If reusable overalls are used, they should be washed in a commercial facility equipment to manage the lead risk, including the risk to workers and the environmental risk.
- Boots with booties or boot covers.

- Contaminated booties or boot covers should not be worn outside of the containment area.
- Disposable gloves.

The PPE provided should be suitable for the nature of the work and be of suitable size, fit and be comfortable for the worker who is to wear it. PPE should be maintained, repaired and replaced as required. Workers should know how to wear and maintain their PPE.

Contaminated PPE should be disposed of with the lead waste.

## Appendix 7 Waste Disposal

Lead paint removal may generate significant amounts of potentially hazardous waste. Any waste that is potentially hazardous should be handled as hazardous waste until evidence proves otherwise.

Waste should be collected, stored, treated and disposed of in a way that minimises releases to air, water and soil. Regulatory authorities will also have specific local requirements. Prior to disposal of lead waste, it may need to be tested and classified where regulatory restrictions apply.

### General requirements

The Building Owner is generally considered the Waste Generator and is responsible for:

1. Seeking advice from regulatory authorities regarding transport and disposal requirements;
2. Placing waste in sealed containers appropriate to the quantity and type of waste;
3. Ensuring waste is tested to determine the management requirements;
4. Providing secure temporary storage; and
5. Ensuring waste is disposed of in accordance with regulations.

Where engaged, a Lead Abatement Contractor may share responsibility for meeting the above requirements. It is recommended that a Waste Management Plan be developed for management of hazardous waste from a lead paint abatement project.

### Removed lead dust

#### Classification

Lead dust which has been removed from a surface is likely to be classified as hazardous waste. Sampling, analysis and classification of waste should be carried out by a suitable qualified person, such as the Lead Specialist, in accordance with AS/NZS 4361.2:2017, and local regulations.

Hazardous waste testing of lead-containing waste should be in accordance with a toxicity characteristic leaching procedure (TCLP), as per regulatory authority requirements.

#### Disposal

If the waste is classified as non-hazardous it can be disposed of in an authorised landfill facility.

If the waste is classified as hazardous it must be disposed of in accordance with local regulations for hazardous waste disposal. Transport of hazardous waste must be performed by a licenced carrier, as per transportation regulations.

#### Wastewater

Wet lead paint removal methods, decontamination and worker hygiene practices may produce liquid waste contaminated with lead. These liquids should be collected and sent to a liquid waste treatment plant or may be able to be discharge to the sewer system as Liquid Trade Waste, depending on classification, and with the prior permission of the Water Authority. It is preferable to use minimal, yet sufficient water, to minimise or eliminate liquid waste.

**From:** Schedule 2.2(a)(i)  
**To:** Barisic, Natalie  
**Cc:** Schedule 2.2(a)(ii) McNamara, Conor  
**Subject:** FW: Kingston Depot Lead Dust not a Notifiable incident  
**Date:** Tuesday, 9 February 2021 12:49:10 PM

---

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Natalie,

We concluded that the discovery of lead dust at Kingston depot and Megalo were not notifiable incidents under the health and safety ACT

Conor has also contacted Worksafe Schedule 2.2(a)(ii) and he has confirmed that the discovery of lead dust at Kingston depot and Megalo were not notifiable incidents

See following email

Schedule 2.2(a)(ii)

---

**From:** McNamara, Conor <Conor.McNamara@act.gov.au>

**Sent:** Thursday, 4 February 2021 9:15 AM

**To:** Schedule 2.2(a)(ii)

Barisic, Natalie

<Natalie.Barisic@act.gov.au>; Whitehouse, Michael <Michael.Whitehouse@act.gov.au>; Collins, Jen <Jen.Collins@act.gov.au>; Gordon, Libby <Libby.Gordon@act.gov.au>; Power, Rebecca <Rebecca.Power@act.gov.au>

**Subject:** artsACT Friday 5th media release

OFFICIAL

H

In preparation for artsACT scheduled media release Noon Friday 5<sup>th</sup> Feb and possible reactions to media release please see the following dot points;

- Any external communications to stakeholders, general public with regard site activities will be undertaken by artsACT,
- Worksafe contact (Contacted 21/01/21) is Schedule 2.2(a)(ii),
- Would you insure Monarch is undertaking all works in accordance with consultant recommended procedures. Would you also apply any necessary further measures required as a result of recent testing. Would you communicate any further actions back to Nat please,
- I will also be confirm with artsACT if there will be any briefing notes that will be issued to Monarch,
- Would you call Michael Whitehouse directly and immediately on Schedule 2.2(a)(ii) if you

require any industrial support after the media release.

I will call you to confirm all.

Regards Conor

-----  
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Location	Surface / Item	Swab area	Weight on swab/ntration on s	
			m^2	µg/swab
Lower Hall N/W Female W.C adjacent disabled W.C	Floor	0.0225	4	0.18
Lower Hall N/W Female W.C inside entry door	Floor	0.0225	2	0.09
Lower hall N/W parent room	Floor	0.0225	2	0.09
Lower Hall N/W corridor adjacent parent room	Floor	0.0225	5	0.22
Lower Hall N/W entry to toilet area	Floor	0.0225	8	0.36
Lower Hall N/W entry to male W.C	Floor	0.0225	2	0.09
Lower Hall N/W male W.C interior	Floor	0.0225	2	0.09
Lower Hall N/W unisex W.C	Floor	0.0225	2	0.09
Lower Hall S/W new unisex W.C	Floor	0.0225	20	0.89
Lower Hall S/W counter	Floor	0.0225	42	1.87
Lower Hall S/W counter	Counter top	0.0225	4	0.1777778
Upper Hall N/E male W.C in front of urinal	Floor	0.0225	2	0.0888889
Upper Hall N/E male W.C wash basin area	Floor	0.0225	13	0.58
Upper Hall N/E unisex W.C	Floor	0.0225	2	0.09
Upper Hall N/E female W.C entry	Floor	0.0225	1	0.04
Upper Hall N/E female W.C cubicle area	Floor	0.0225	2	0.09
Upper Hall N/E store area - west	Floor	0.0225	30	1.33
Upper Hall N/E store area - east	Floor	0.0225	47	2.09
Upper Hall store enclosure	Timber stand	0.0225	10	0.44
Upper Hall store enclosure	Portable Table	0.0225	9	0.40
Upper Hall store enclosure	Plastic box	0.0225	6	0.27
Upper Hall store enclosure	Plastic box	0.0225	7	0.31
Upper Hall store enclosure	Plastic box	0.0225	27	1.20
Upper Hall store enclosure	Plastic box	0.0225	3	0.13
Upper Hall store enclosure	Plastic box - interior	0.0225	1	0.04
Upper Hall store enclosure	Plastic Box	0.0225	1	0.04
Upper Hall store enclosure	Plastic Box - interior	0.0225	11	0.49
Upper Hall store enclosure	Metal kitchen stand	0.0225	2	0.09

**From:** [Collins, Jen](#)  
**To:** [McNamara, Conor](#); [Barisic, Natalie](#)  
**Subject:** RE: 180388 - Old Kingston Bus Depot Lead Dust  
**Date:** Tuesday, 16 February 2021 2:16:41 PM  
**Attachments:** [RE Kingston Old Bus Depot - Notifications of workers on Site.msg](#)  
[image001.jpg](#)  
[image002.jpg](#)

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OFFICIAL

Hi Conor,  
I believe the attached from [redacted] is what you were looking for.  
Is it possible Selleck's had been advised and the message hadn't reached [redacted] yet?  
We could ask Monarch again to check they have contacted those who have been onsite – and refer to sign-on-site records if necessary?  
Cheers,  
Jen.

---

**From:** McNamara, Conor <[Conor.McNamara@act.gov.au](mailto:Conor.McNamara@act.gov.au)>  
**Sent:** Tuesday, 16 February 2021 2:10 PM  
**To:** Barisic, Natalie <[Natalie.Barisic@act.gov.au](mailto:Natalie.Barisic@act.gov.au)>  
**Cc:** Collins, Jen <[Jen.Collins@act.gov.au](mailto:Jen.Collins@act.gov.au)>  
**Subject:** RE: 180388 - Old Kingston Bus Depot Lead Dust

OFFICIAL

Thanks Nat,

There was a confirmation by Monarch but for the life cannot locate.

Jen?

-  
Regards Conor

---

**From:** Barisic, Natalie <[Natalie.Barisic@act.gov.au](mailto:Natalie.Barisic@act.gov.au)>  
**Sent:** Tuesday, 16 February 2021 1:51 PM  
**To:** McNamara, Conor <[Conor.McNamara@act.gov.au](mailto:Conor.McNamara@act.gov.au)>  
**Subject:** Fw: 180388 - Old Kingston Bus Depot Lead Dust

Hi Conor

Question was asked to Monarch if they have notified all contractors and consultants on site....

Hmmm I guess they haven't... what obligations do they have to do so?

---

**From:** [Schedule 2.2\(a\)\(ii\)](#)  
**Sent:** Tuesday, 16 February 2021 12:48  
**To:** [Schedule 2.2\(a\)\(ii\)](#)

[redacted]  
Barisic, Natalie <[Natalie.Barisic@act.gov.au](mailto:Natalie.Barisic@act.gov.au)>; [Schedule 2.2\(a\)\(ii\)](#)

**Subject:** RE: 180388 - Old Kingston Bus Depot Lead Dust

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Thank you, [redacted]

We will wait for [redacted] email,

Nice to know that the people who have been tested to date have levels below the acceptable limit.

Regards

[redacted]  
Schedule 2.2(a)(ii)

[redacted]  
Schedule 2.2(a)(ii)

*Director, Hydraulic Services Manager*

*Sellick Consultants Pty Ltd*



P: 02 6201 0200 [redacted]  
Schedule 2.2(a)(ii)

Canberra: 24 Lonsdale Street, Suite 122 Mode 3, Braddon ACT 2612

Sydney: 99 Mount St, Suite 1601, Level 16, North Sydney NSW 2060

[redacted]  
Schedule 2.2(a)(ii) W: [www.sellickconsultants.com.au](http://www.sellickconsultants.com.au)



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**From:** [redacted]  
Schedule 2.2(a)(ii)

**Sent:** Tuesday, 16 February 2021 12:42 PM

**To:** [redacted]  
Schedule 2.2(a)(ii)

**Cc:** [redacted]  
Schedule 2.2(a)(ii)

**Subject:** RE: 180388 - Old Kingston Bus Depot Lead Dust

[redacted]  
Schedule 2.2(a)

We have advised all subcontractors that lead dust has been found on site

We have setup blood testing as a precaution for all personnel that have visited site  
There is no charge for the blood test

**Schedule 2.2(a)(ii)** will send you details of where to obtain the blood test

About 10 personnel have been tested so far including our site manager and levels are all below the acceptable limit

**Schedule 2.2(a)(ii)**  
[Redacted]  
[Redacted]  
[Redacted]

---

**From:** **Schedule 2.2(a)(ii)** [Redacted]

**Sent:** Tuesday, 16 February 2021 12:33 PM

**To:** **Schedule 2.2(a)(ii)** [Redacted]  
[Redacted]  
[Redacted]  
[Redacted]

**Subject:** 180388 - Old Kingston Bus Depot Lead Dust

**Importance:** High

Hi **Schedule 2.2** [Redacted]

I hope you are well, and things are progressing onsite.

I understand that there were some safety concerns raised about Lead Dust being present onsite and that people who attended site have been asked to get tested. Can you confirm if our attendance to site on several occasions triggers a need for us to have some tests done?

If we do need to have some tests done, what is the procedure/process?

Thank you,

Regards

**Schedule 2.2(a)(ii)** [Redacted]

**Schedule 2.2(a)(ii)** [Redacted]

*Director, Hydraulic Services Manager*

*Sellick Consultants Pty Ltd*



P: 02 6201 0200 **Schedule 2.2(a)(ii)**  
Canberra: 24 Lonsdale Street, Suite 122 Mode 3, Braddon ACT 2612

Sydney: **99 Mount St, Suite 1601, Level 16, North Sydney NSW 2060**

**Schedule 2.2(a)(ii)** W: [www.sellickconsultants.com.au](http://www.sellickconsultants.com.au)



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**From:** [Barisic, Natalie](#)  
**To:** [Collins, Jen](#)  
**Cc:** [Libby Gordon \(Libby.Gordon@act.gov.au\)](#); [McNamara, Conor](#); [Ozols, Peter](#); [Dawson, Helene](#)  
**Subject:** FW: T10589 Megalo Building Lead test results  
**Date:** Wednesday, 17 February 2021 2:16:00 PM  
**Attachments:** [image001.png](#)  
[image004.png](#)  
[image003.png](#)  
[image002.png](#)  
[image005.png](#)  
[image006.png](#)  
[image007.jpg](#)  
[261820-\[R01\].pdf](#)  
[T10589\\_OldBusDepot\\_Megalo\\_LeadClearanceResults\\_20210215.pdf](#)  
[260917-\[R001\].pdf](#)  
[image008.png](#)

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OFFICIAL

Hi Jen

As previously discussed on the phone there was a lead dust swab sample on the new vinyl floor in the storeroom which presented above the acceptable threshold.

After discussion with Monarch there is no clear explanation on how the dust presented on the floor.

The storeroom has been scheduled to be cleaned on Monday 22/02/21 with Robson's booked for clearance, which approximately takes 48hours to receive. Best case scenario would be to have Megalo reoccupy the space late Wednesday.

In the meantime the new glass door will need to be closed and if possible locked. The existing part of the storeroom will be accessible.

A small sign on the door ensuring the space is not occupied. Please confirm this arrangement is acceptable with Megalo.

Any further questions and or clarifications are welcomed.

Thanks  
Nat

**Kind Regards**

**Natalie Barisic** | Project Manager  
Phone 02 6205 3731 | Email: [natalie.barisic@act.gov.au](mailto:natalie.barisic@act.gov.au)

Infrastructure Delivery Partners Group | **Major Projects Canberra** | ACT Government  
Level 2 Nature Conservation House, Cnr Benjamin Way and Emu Bank Belconnen 2617  
GPO Box 158 Canberra ACT 2601 | [www.act.gov.au](http://www.act.gov.au)



---

**From:** Schedule 2.2(a)(ii) [Redacted]

**Sent:** Wednesday, 17 February 2021 1:45 PM

**To:** Barisic, Natalie <Natalie.Barisic@act.gov.au>

**Cc:** Schedule 2.2(a)(ii) [Redacted]

[Redacted]

**Subject:** FW: T10589 Megalo Building Lead test results

**CAUTION:** This email originated from outside of the ACT Government. Do not click links or open attachments unless you recognise the sender and know the content is safe.

Natalie,

Attached are test results for the Megalo building

Schedule 2.2(a)(ii) [Redacted]  
[Redacted]  
[Redacted]  
[Redacted]

---

**From:** Schedule 2.2(a)(ii) [Redacted]

**Sent:** Wednesday, 17 February 2021 1:02 PM

**To:** Schedule 2.2(a)(ii) [Redacted]

[Redacted]

[Redacted]


**Subject:** FW: T10589 Megalo Building

FYI

Regards

Schedule 2.2(a)(ii) [Redacted]

Site Manager

signature\_1255920663  


T 02 6162 0232 | Schedule 2.2(a)(ii) [Redacted]  
[Redacted]  
24 Lithgow St, FYSHWICK ACT 2609  
[www.monarchbuildingsolutions.com.au](http://www.monarchbuildingsolutions.com.au) |

signature\_1083599463

**From:** Schedule 2.2(a)(ii)

**Sent:** Wednesday, 17 February 2021 11:57 AM

**To:** Schedule 2.2(a)(ii)

**Subject:** T10589 Megalo Building

Good morning Schedule 2.2(a)(ii),

Please see attached extract and laboratory results for the dust samples collected at the Megalo Building on 28 January and Monday 15 of February post environmental clean works in the former disabled toilet.

As shown in the table one sample (G3227) which was collected from the floor in the former disabled toilet area has a returned a result of 0.13mg/m<sup>2</sup> which is above the project criteria of 0.11mg/m<sup>2</sup> for high level interior contact areas such as floors.



Air monitoring during the environmental clean works did not detect any lead content on the filter hence the control that was put in place during the works is sufficient and there are no lead dust contamination in the work area.

We recommend further cleaning to be conducted in the former disabled toilet following the methods set out in (AS 4361.2-2017) followed by further clearance swab sampling post works.

If I can be any further assistance please do not hesitate to contact me

Kind regards

Schedule 2.2(a)(ii)

	
	Schedule 2.2(a)(ii)
	Hazmat Consultant
	Licensed Asbestos Assessor
	Phone: 02 6239 5656
	Schedule 2.2(a)(ii)
	Fax: 02 6239 5669
Schedule 2.2(a)(ii)	
Web: <a href="http://www.robsonenviro.com.au">www.robsonenviro.com.au</a>	

140 Gladstone St Fyshwick ACT 2609 ~ PO Box 112 Fyshwick ACT 2609

Best Practice Certification for AS/NZS ISO 9001:2008 - Quality ~ ISO 14001:2004 - OHS ~ AS/NZS 4801:2001 - Environment

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**From:** [Redacted]  
**Subject:** RE: Kingston Old Bus Depot - PPE Required for Workers  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image003.png](#)  
[image004.jpg](#)  
**Importance:** High

---

Hi [Redacted],

Provided the advice in my earlier email (as well as SWE's letter of advice dated 25.01.2021 ) is observed, and the site conditions are not altered, face masks are not a requirement to access the interior of the Old Bus Depot halls due to the absence of an airborne lead risk.

Should site activities or the site conditions change, then MBS should seek advice / undertake further assessment to determine if the altered environment requires an altered approach to the management of lead risk, such as PPE. For example, when Aztech are undertaking any lead paint / dust removal works, delineation must be installed and PPE will be required in those work areas.

Please note: Aztech are undertaking wall cleaning (prior to paint patching) in the lower hall tomorrow; this lead risk work must be approached with the appropriate controls in place, i.e.:

- Workers have undertaken prior lead blood testing.
- Appropriate delineation of workspace is implemented with warning signage.
- workers undertaking lead risk works wear appropriate PPE, follow decontamination procedures etc.

All such details (and more) should be addressed within the Aztech Services task specific removal control plan.

Lastly, albeit minor works, I would recommend air monitoring to be undertaken while any lead removal tasks are being completed to verify that no airborne lead risk has impacted on unprotected persons.

Regards,

[Redacted]  
Senior Environmental Consultant & ACT Manager

**Safe Work and Environments Pty Ltd**

PO Box 230, Dickson ACT 2602

[Redacted]

[www.swe.com.au](http://www.swe.com.au)

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---

**From:** [Redacted]  
**Sent:** Thursday, 4 February 2021 3:54 PM  
**To:** [Redacted]  
**Subject:** RE: Kingston Old Bus Depot - PPE Required for Workers

[Redacted],

Specifically should site personnel be wearing face masks

[Redacted]

---

**From:** [Redacted]  
**Sent:** Thursday, 4 February 2021 3:51 PM  
**To:** [Redacted]  
**Subject:** RE: Kingston Old Bus Depot - PPE Required for Workers

Hi [redacted]

To answer your question: SWE's position is that lead dust exposure risk in the Old Bus Depot building is negligible under the observed / assessed site conditions, and therefore lead risk specific PPE is not a requirement provided the below advice is observed:

- There is no contact with any settled dusts by site personnel,
- There is no disturbance of settled dusts within the halls, for example:
  - No potentially dust disturbing activities are undertaken (e.g., use of compressed air, sweeping, cleaning etc.),
  - Eliminate vehicle movements within the halls,
  - Doors are kept closed to minimise air movement.
- Site personnel observe good hygiene practices and wash thoroughly prior to meal breaks.
- Site personnel do not eat, drink or take meal breaks in halls.
- If the above listed site conditions cannot be maintained:
  - access must be restricted to prevent persons without the appropriate PPE and relevant training from entering the building.
  - Further assessment should be undertaken to assess the exposure potential.

Regards,

[redacted]

Senior Environmental Consultant & ACT Manager

**Safe Work and Environments Pty Ltd**

PO Box 230, Dickson ACT 2602

[redacted]

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---

**From:** [redacted]  
**Sent:** Thursday, 4 February 2021 3:03 PM  
**To:** [redacted]  
**Subject:** Kingston Old Bus Depot - PPE Required for Workers


Hi [redacted],

Are you able to confirm if there are any PPEs required for workers to continue work in the building? Given that we have stopped any lead-disturbing works and implemented the hygiene practices. Thank you.


Kind Regards

[redacted]

Site Engineer

signature\_1255920663  


T 02 6162 0232 | [redacted]  
[redacted]  
24 Lithgow St, Fyshwick ACT 2609  
[www.monarchbuildingsolutions.com.au](http://www.monarchbuildingsolutions.com.au) |

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### 1.1.1 Assessment criteria

The previous version of Australian Standard AS4631.2-1998 (*Guide to lead paint management, Part 2: Residential and commercial buildings*) had criteria levels for clearance after lead paint management activities of 8 mg/m<sup>2</sup> for exterior surfaces, 5 mg/m<sup>2</sup> for interior windowsills, and 1 mg/m<sup>2</sup> for interior floors. This standard covered domestic settings, which would be expected to have vulnerable people present, including small children at increased risk of ingesting lead particles.

The AS4631.2 standard was updated in 2017 (AS 4361.2-2017) and no longer includes acceptable levels for surface dust lead levels after cleaning activities, instead it specifies that 'lead surface dust loading should not exceed the limits provided by the relevant statutory authority with jurisdiction over the area within which the work has been carried out'.

Neither the ACT nor the Commonwealth jurisdictions have criteria levels for surface lead after clearance activities. However, AS 4361.2-2017 also states that 'if there are no relevant legislated limits, project acceptance criteria should be established'.



The U.S. Department of Housing and Urban Development (HUD), Office of Lead Hazard Control and Health Homes (OLHCHH), released *the Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing* in 2012, which gave acceptable lead dust clearance action levels following lead paint removal. After additional research on adverse effects of lead exposure in children and evidence of feasibility of lower clearance levels was undertaken, the OLHCHH established more stringent lead clearance action levels in 2017, which the USA EPA also intend to adopt (2020), as follows:

- Interior floors: <0.11 mg/m<sup>2</sup>;
- Porch floors: <0.43 mg/m<sup>2</sup>; and
- Interior windowsills and window troughs: <1.08 mg/m<sup>2</sup>.

These clearance levels are intended to protect small children (who are inherently more susceptible to lead poisoning due to their small body size and factors related to their growth) crawling on the floor in a domestic setting, who would be expected to be ingesting lead dust from their hands or through direct mouth to surface contact. As such, adoption of the OLHCHH lead dust clearance action levels for representative surfaces as shown in Table 1 as a criteria level to assess contamination will provide an appropriate degree of protection against lead exposure risks for students, workers and visitors.

Table 1: Lead Dust Clearance Criteria Levels

Surface	Lead Dust Clearance Criteria Level
Interior Floors (representing interior high-contact surfaces)	<0.11 mg/m <sup>2</sup>
Porch Floors (representing all exterior contact surfaces)	<0.43 mg/m <sup>2</sup>
Windowsills and window troughs (representing interior low-contact surfaces)	<1.08 mg/m <sup>2</sup>

Sample Number	Location	Criteria Level (mg/m <sup>2</sup> )	Measured concentration (mg/m <sup>2</sup> )	Photos
G3227	Former disabled toilet - floor	<0.11	0.13	
G3228	Former Store Room - adjacent disabled toilet	<0.11	0.04	

## CERTIFICATE OF ANALYSIS 261820

### Client Details

<b>Client</b>	Robson Environmental Pty Ltd
<b>Attention</b>	Schedule 2.2(a)(ii)
<b>Address</b>	PO Box 112, Fyshwick, ACT, 2609

### Sample Details

<b>Your Reference</b>	<b>T10589</b>
<b>Number of Samples</b>	4 Filter, 3 swab
<b>Date samples received</b>	16/02/2021
<b>Date completed instructions received</b>	16/02/2021

### Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.  
 Samples were analysed as received from the client. Results relate specifically to the samples as received.  
 Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

### Report Details

<b>Date results requested by</b>	16/02/2021
<b>Date of Issue</b>	17/02/2021
<b>Reissue Details</b>	This report replaces R00 created on 16/02/2021 due to: Sample matrix Amended (Client Request)

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#### Results Approved By

Schedule 2.2(a)(ii), Metals Supervisor  
 Schedule 2.2(a)(iii), Reporting Supervisor

#### Authorised By

Schedule 2.2(a)(ii)

Schedule 2.2(a)(ii) Laboratory Manager

Client Reference: T10589

Lead on filter					
Our Reference		261820-1	261820-2	261820-3	261820-4
Your Reference	UNITS	Pb006	Pb007	Pb008	Pb009
Date Sampled		15/02/2021	15/02/2021	15/02/2021	15/02/2021
Type of sample		Filter	Filter	Filter	Filter
Date prepared	-	16/02/2021	16/02/2021	16/02/2021	16/02/2021
Date analysed	-	16/02/2021	16/02/2021	16/02/2021	16/02/2021
Lead	µg/filter	<1	<1	<1	<1

**Client Reference: T10589**

<b>Lead in swab</b>				
Our Reference		261820-5	261820-6	261820-7
Your Reference	UNITS	G3227	G3228	G3229
Date Sampled		15/02/2021	15/02/2021	15/02/2021
Type of sample		swab	swab	swab
Date prepared	-	16/02/2021	16/02/2021	16/02/2021
Date analysed	-	16/02/2021	16/02/2021	16/02/2021
Lead in Swabs	µg/swab	3	1	<1

**Client Reference: T10589**

Method ID	Methodology Summary
<b>Metals-020/021/022</b>	Digestion of Dust wipes/swabs and /or miscellaneous samples for Metals determination by ICP-AES/MS and/or CV-AAS
<b>Metals-020/021/022</b>	Determination of various metals on filters by ICP-AES/MS and or CV/AAS.



Client Reference: T10589

QUALITY CONTROL: Lead on filter				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			16/02/2021	[NT]	[NT]	[NT]	[NT]	16/02/2021	[NT]
Date analysed	-			16/02/2021	[NT]	[NT]	[NT]	[NT]	16/02/2021	[NT]
Lead	µg/filter	1	Metals-020/021/022	<1	[NT]	[NT]	[NT]	[NT]	82	[NT]

Client Reference: T10589

QUALITY CONTROL: Lead in swab				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	[NT]
Date prepared	-			16/02/2021	[NT]	[NT]	[NT]	[NT]	16/02/2021	[NT]
Date analysed	-			16/02/2021	[NT]	[NT]	[NT]	[NT]	16/02/2021	[NT]
Lead in Swabs	µg/swab	1	Metals-020/021/022	<1	[NT]	[NT]	[NT]	[NT]	103	[NT]

**Result Definitions**

<b>NT</b>	Not tested
<b>NA</b>	Test not required
<b>INS</b>	Insufficient sample for this test
<b>PQL</b>	Practical Quantitation Limit
<b>&lt;</b>	Less than
<b>&gt;</b>	Greater than
<b>RPD</b>	Relative Percent Difference
<b>LCS</b>	Laboratory Control Sample
<b>NS</b>	Not specified
<b>NEPM</b>	National Environmental Protection Measure
<b>NR</b>	Not Reported

## Quality Control Definitions

<b>Blank</b>	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 exactly the same manner as for samples.
<b>Duplicate</b>	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
<b>Matrix Spike</b>	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.
<b>LCS (Laboratory Control Sample)</b>	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. It is simply a check sample.
<b>Surrogate Spike</b>	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.
Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.	
The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.	
Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2	

## Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

**From:** [Collins, Jen](#)  
**To:** [Schedule 2.2\(a\) Barisic, Natalie](#)  
**Cc:** [Schedule 2.2\(a\)\(ii\)](#)  
**Subject:** RE: Kingston FTD - Supporting Statements from Robson's  
**Date:** Friday, 19 February 2021 1:25:36 PM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image003.png](#)  
[image004.jpg](#)

OFFICIAL

Hi [Schedule 2.2\(a\)](#) and Nat,  
FYI I have just discussed over the phone with [SON](#).  
She is going to send the three of us the draft statements and artsACT will review them, with a final version due next week.  
Cheers,  
Jen.

**From:** [Schedule 2.2\(a\)\(ii\)](#)  
**Sent:** Friday, 19 February 2021 11:17 AM  
**To:** Barisic, Natalie <Natalie.Barisic@act.gov.au>  
**Cc:** [Schedule 2.2\(a\)\(ii\)](#); Collins, Jen <Jen.Collins@act.gov.au>  
**Subject:** FW: Kingston FTD - Supporting Statements from Robson's

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Natalie,

Can you or Jen respond to the below questions?

I have asked Robson to bill us but artsACT is the ultimate client.

Kind Regards

[Schedule 2.2\(a\)\(ii\)](#)  
Site Engineer

signature\_1255920663



T 02 6162 0232 | [Schedule 2.2\(a\)\(ii\)](#)

24 Lithgow St, Fyshwick ACT 2609

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**From:** [Schedule 2.2\(a\)\(ii\)](#)  
**Sent:** Friday, 19 February 2021 10:57 AM  
**To:** [Schedule 2.2\(a\)\(ii\)](#)  
**Subject:** FW: Kingston FTD - Supporting Statements from Robson's

Good morning [Schedule 2.2\(a\)](#)

I have been tasked with developing these statements, and they are currently in internal review. I hope to have them to you this afternoon.

I asked Jen Collins and Libby Gordon some questions this morning, but you might be the best person to answer them:

- Will the three statements go together or do they need to be standalone? There is some information on Statement One that is prior knowledge for the next two statements. If they are not all going to be read at the same time, I will simply include all the necessary information in each statement
- What is the intended audience? This will give me an idea of the level of knowledge of the readers
- Did you want me to include the statement **However, if you are concerned, visit your doctor to discuss** or is there another point of contact you would like to include?
-

Can I just confirm who is the client for this work, and who we will be billing?

Thanks

Schedule 2.2(a)(ii)

**From:** Schedule 2.2(a)(ii)  
**Date:** 19 February 2021 at 07:23:15 AEDT  
**To:** Schedule 2.2(a)(ii)  
**Cc:** Schedule 2.2(a)(ii)  
**Subject:** FW: Kingston FTD - Supporting Statements from Robson's

Morning Schedule 2.2(a)(ii)

Are you able to provide the below statements as requested by the ACT Government? Thank you.

Kind Regards

Schedule 2.2(a)(ii)

Site Engineer



T 02 6162 0232 | Schedule 2.2(a)(ii)  
Schedule 2.2(a)(ii)  
24 Lithgow St, Fyshwick ACT 2609  
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**From:** Natalie Barisic (ACT Major Projects) Schedule 2.2(a)(ii)  
**Sent:** Thursday, 18 February 2021 9:19 AM  
**To:** Schedule 2.2(a)(ii)  
**Subject:** Kingston FTD - Supporting Statements from Robson's

Kingston Depot Repair



More details: [View online](#)

---

**From:** Natalie Barisic (ACT Major Projects)  
**Date:** Thursday, 18 February 2021 at 09:19 am AEDT  
**Sent To:** Schedule 2.2(a)(ii)  
**CC:** Natalie Barisic (ACT Major Projects)  
Helene Dawson (ACT Property Group)  
Conor McNamara (ACT Major Projects)  
Schedule 2.2(a)(ii)  
Peter Ozols (ACT Property Group)  
**Attachments:** None

Hi Schedule 2.2(a)(ii)

Can you please request Robson's Environmental to provide three short statements which we can use for background information, and for supporting stakeholder communications with technical expertise

Statement One: Provide a simple explanation of what has been found, and a hypothesis of where it has come from

Statement Two: Provide an opinion about the likelihood of exposure risk to lead dust through normal use by stallholders and general public, prior to construction. Also include an opinion about the types of activities that might have created an exposure risk

Statement Three: Provide a description of the types of interactions and duration which would typically result in health issues / require monitoring or treatment

The statements should be short and as simple as possible, easily understood by the general public. I think it would be of benefit to have a discussion with Robson's about this, so we can answer any questions – eg. They may want to define 'normal use'. Understand statements two and three would probably include a number of caveats, and that producing these statements may be outside of Robson's current scope of works and that hourly rates may apply.

Timing wise we would like these as soon as possible, Robson's to advise availability please

Thanks

Natalie

Sent from Procure

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**From:** [redacted]  
**To:** [Collins Jen](#)  
**Cc:** [McNamara Conor](#); [redacted]; [Barisic Natalie](#)  
**Subject:** RE: Kingston Old Bus Depot - Report on Lead Dust Findings  
**Date:** Monday, 22 February 2021 11:08:02 AM  
**Attachments:** [image001.png](#)  
[image008.png](#)  
[image009.png](#)  
[image010.jpg](#)  
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[Automatic reply T10589 - RE Megalo - Water Test Result.msg](#)

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Hi Jen,

Yes there will be photos in the lead dust swab sampling report which I am still waiting on. Another quick side note [redacted] is on leave until 8/3.

Kind Regards

[redacted]  
Site Engineer

signature\_1255920663



T 02 6162 0232 | [redacted] [Schedule 2.2\(a\)\(ii\)](#)

[redacted]  
24 Lithgow St, Fyshwick ACT 2609

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**From:** Collins, Jen <[Jen.Collins@act.gov.au](mailto:Jen.Collins@act.gov.au)>  
**Sent:** Monday, 22 February 2021 10:14 AM  
**To:** [redacted] [Schedule 2.2\(a\)\(ii\)](#); [Barisic, Natalie <Natalie.Barisic@act.gov.au>](mailto:Natalie.Barisic@act.gov.au)  
**Cc:** [McNamara, Conor <Conor.McNamara@act.gov.au>](mailto:Conor.McNamara@act.gov.au); [redacted] [Schedule 2.2\(a\)\(ii\)](#) >  
**Subject:** RE: Kingston Old Bus Depot - Report on Lead Dust Findings

OFFICIAL

Hi [redacted],

Are there photos of the objects tested in the upper hall store? The last 10 items on the list?

Cheers,

Jen.

---

**From:** [redacted] [Schedule 2.2\(a\)\(ii\)](#) >  
**Sent:** Monday, 22 February 2021 9:32 AM  
**To:** [Barisic, Natalie <Natalie.Barisic@act.gov.au>](mailto:Natalie.Barisic@act.gov.au)  
**Cc:** [McNamara, Conor <Conor.McNamara@act.gov.au>](mailto:Conor.McNamara@act.gov.au); [Collins, Jen <Jen.Collins@act.gov.au>](mailto:Jen.Collins@act.gov.au); [redacted] [Schedule 2.2\(a\)\(ii\)](#)  
**Subject:** RE: Kingston Old Bus Depot - Report on Lead Dust Findings

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Natalie,

Please see attached lead swab results. Some samples taken in the newly refurbished areas came back with above threshold result.

Kind Regards

[redacted]



Site Engineer

signature\_1255920663



T 02 6162 0232 | Schedule 2.2(a)(ii)

Schedule 2.2(a)(ii)

24 Lithgow St, Fyshwick ACT 2609

[www.monarchbuildingsolutions.com.au](http://www.monarchbuildingsolutions.com.au) |

Graphical user interface Description automatically generated



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**From:** Barisic, Natalie <[Natalie.Barisic@act.gov.au](mailto:Natalie.Barisic@act.gov.au)>

**Sent:** Friday, 19 February 2021 4:50 PM

**To:** Schedule 2.2(a)(ii)

**Cc:** Schedule 2.2(a)(ii) McNamara, Conor <[Conor.McNamara@act.gov.au](mailto:Conor.McNamara@act.gov.au)>; Collins, Jen <[Jen.Collins@act.gov.au](mailto:Jen.Collins@act.gov.au)>

**Subject:** RE: Kingston Old Bus Depot - Report on Lead Dust Findings

**Importance:** High

OFFICIAL

Hi

Can you please confirm if Robson's completed with further investigations as per 6.1.2 of the report?

Thanks

Natalie

---

**From:** Barisic, Natalie

**Sent:** Tuesday, 9 February 2021 5:27 PM

**To:** Schedule 2.2(a)(ii)

**Cc:** Schedule 2.2(a)(ii) McNamara, Conor <[Conor.McNamara@act.gov.au](mailto:Conor.McNamara@act.gov.au)>; Collins, Jen <[Jen.Collins@act.gov.au](mailto:Jen.Collins@act.gov.au)>

**Subject:** RE: Kingston Old Bus Depot - Report on Lead Dust Findings

OFFICIAL

Hi

Thank you for sending this over.

As discussed on the phone our catch up with Robson's on Thursday will be to identified any clarifications within the report and work together to formulate tasks and programme moving forward.

In the interim can you please confirm;

1. Who has Monarch notified about the lead dust findings? Has it been solely subcontractors or anyone who has signed on site?
2. Definition of essential work
3. The use of respiratory protection while completing works
4. Instruct Robson's to proceed with further investigations as per 6.1.2 of the report.

If you need any further clarifications, please let me know.

Thanks

Natalie

---

**From:** Schedule 2.2(a)(ii)

**Sent:** Tuesday, 9 February 2021 8:37 AM

**To:** McNamara, Conor <[Conor.McNamara@act.gov.au](mailto:Conor.McNamara@act.gov.au)>; Collins, Jen <[Jen.Collins@act.gov.au](mailto:Jen.Collins@act.gov.au)>

**Cc:** Schedule 2.2(a)(ii) Barisic, Natalie <[Natalie.Barisic@act.gov.au](mailto:Natalie.Barisic@act.gov.au)>

**Subject:** FW: Kingston Old Bus Depot - Report on Lead Dust Findings

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Schedule 2.2(a)(ii)

Schedule 2.2(a)(ii)

**From:** Schedule 2.2(a)(ii)

**Sent:** Monday, 8 February 2021 8:51 PM

**To:** Schedule 2.2(a)(ii)

Barisic, Natalie <[Natalie.Barisic@act.gov.au](mailto:Natalie.Barisic@act.gov.au)>; Schedule 2.2(a)(ii)



**Subject:** RE: Kingston Old Bus Depot - Report on Lead Dust Findings

Hi Schedule 2.2(a)(ii),

The Report is attached.

Thank you

Schedule 2.2(a)(ii)

	
	<p>Schedule 2.2(a)(ii) <b>Managing Director</b> BSc, Grad Dip OccHyg, Cert IV T&amp;A, Licensed Asbestos Assessor, BOHS W504 Phone: 02 6239 5656 Schedule 2.2(a)(ii) Fax: 02 6239 5669 Schedule 2.2(a)(ii) Web: <a href="http://www.robsonenviro.com.au">www.robsonenviro.com.au</a></p>
	<p>140 Gladstone St Fyshwick ACT 2609 ~ PO Box 112 Fyshwick ACT 2609 Best Practice Certification for AS/NZS ISO 9001:2008 - Quality ~ ISO 14001:2004 - OHS ~ AS/NZS 4801 2001 - Environment</p>

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**From:** Schedule 2.2(a)(ii)

**Sent:** Monday, 8 February 2021 5:02 PM

**To:** Schedule 2.2(a)(ii)

>; Barisic, Natalie <[Natalie.Barisic@act.gov.au](mailto:Natalie.Barisic@act.gov.au)>

**Subject:** RE: Kingston Old Bus Depot - Report on Lead Dust Findings



Hi Schedule 2.2(a)(ii),

Yes the document has been drafted and it is being reviewed by Schedule 2.2(a)(ii). It will be through tonight. My COB will be a little later tonight.

My apologies for the delay.

Kind regards

Schedule 2.2(a)(ii)

	
	<p>Schedule 2.2(a)(ii) <b>Managing Director</b> BSc, Grad Dip OccHyg, Cert IV T&amp;A, Licensed Asbestos Assessor, BOHS W504 Phone: 02 6239 5656 Schedule 2.2(a)(ii) Fax: 02 6239 5669 Schedule 2.2(a)(ii) Web: <a href="http://www.robsonenviro.com.au">www.robsonenviro.com.au</a></p>
	<p>140 Gladstone St Fyshwick ACT 2609 ~ PO Box 112 Fyshwick ACT 2609 Best Practice Certification for AS/NZS ISO 9001:2008 - Quality ~ ISO 14001:2004 - OHS ~ AS/NZS 4801 2001 - Environment</p>

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---

**From:** Schedule 2.2(a)(ii) [Redacted]  
**Sent:** Monday, 8 February 2021 4:26 PM  
**To:** Schedule 2.2(a)(ii) [Redacted]  
**Cc:** Barisic, Natalie <[Natalie.Barisic@act.gov.au](mailto:Natalie.Barisic@act.gov.au)>  
**Subject:** Kingston Old Bus Depot - Report on Lead Dust Findings

Hi [Redacted]

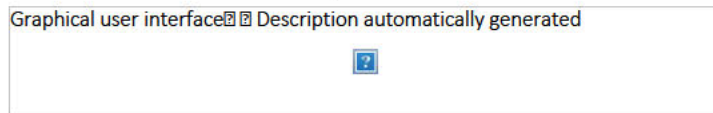
Just touching base with the report on the lead dust findings. Are you able to provide by COB today as agreed? Thank you.

Kind Regards

[Redacted]  
Site Engineer



T 02 6162 0232 | Schedule 2.2(a)(ii) [Redacted]  
Schedule 2.2(a)(ii) [Redacted]  
24 Lithgow St, FYSHWICK ACT 2609  
[www.monarchbuildingsolutions.com.au](http://www.monarchbuildingsolutions.com.au) |



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**From:** [Collins, Jen](#)  
**To:** [Schedule 2.2\(a\)\(ii\)](#); [Barisic, Natalie](#); [Gordon, Libby](#)  
**Subject:** RE: Statements relating to lead contamination at Kingston Bus Depot Markets  
**Date:** Tuesday, 23 February 2021 3:34:59 PM  
**Attachments:** [T10589 Canberra Bus Depot information statements 20210218 v0.1.docx](#)  
[image004.jpg](#)  
[image005.png](#)  
[image006.png](#)  
[image007.png](#)

---

OFFICIAL

Hi [Schedule 2.2\(a\)\(ii\)](#)

We haven't had much luck catching one another on the phone today. These statements are going to be really useful for us, thank you. We are likely to cut and paste sections of it into a Q&A document, and to stakeholder updates etc. I've added one comment – happy to discuss. If we could finalise by early tomorrow morning that would be excellent. Cheers,  
Jen.

Jen Collins | Assistant Director, Infrastructure - artsACT (Monday - Wednesday & Friday)  
Economic Development | Chief Minister, Treasury and Economic Development | **ACT Government**  
**Phone 02 6205 4001** | Email mail to: [jen.collins@act.gov.au](mailto:jen.collins@act.gov.au)  
Level 4 Canberra Nara Centre, 1 Constitution Avenue Canberra City | GPO Box 158 Canberra ACT 2601

I acknowledge the Traditional Custodians of the ACT and the Aboriginal and Torres Strait Islander peoples from other nations and their ongoing connections to Country. I pay my respects to them and their cultures, and to their Elders past, present and emerging.



---

**From:** [Schedule 2.2\(a\)\(ii\)](#)  
**Sent:** Friday, 19 February 2021 1:54 PM  
**To:** Collins, Jen <[Jen.Collins@act.gov.au](mailto:Jen.Collins@act.gov.au)>  
**Cc:** [Schedule 2.2\(a\)\(ii\)](#)  
**Subject:** Statements relating to lead contamination at Kingston Bus Depot Markets




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Hi Jen,

As discussed on the phone, the attached document is a draft. It is not approved, so should not be widely distributed until the content and format has been finalised.

Please mark this up with comments and any other information you would like us to have.

Thanks

	
	<p><b>Schedule 2.2(a)(ii)</b> <b>WHS Consultant</b> BEng (Mech), DipPM <b>Phone: 02 6239 5656</b> <b>Schedule 2.2(a)(ii)</b> <b>Fax: 02 6239 5669</b> <b>Schedule 2.2(a)(ii)</b> <b>Web: <a href="http://www.robsonenviro.com.au">www.robsonenviro.com.au</a></b></p>
<p>140 Gladstone St Fyshwick ACT 2609 ~ PO Box 112 Fyshwick ACT 2609 Best Practice Certification for AS/NZS ISO 9001:2008 - Quality ~ ISO 14001:2004 - OHS ~ AS/NZS 4801:2001 - Environment</p>	
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The following statements have been drafted for artsACT

**Statement One:** Provide a simple explanation of what has been found, and a hypothesis of where it has come from.

**Statement Two:** Provide an opinion about the likelihood of exposure risk to lead dust through normal use by stallholders and general public, prior to construction. Also include an opinion about the types of activities that might have created an exposure risk.

**Statement Three:** Provide a description of the types of interactions and duration which would typically result in health issues / require monitoring or treatment.

### Statement One

*Provide a simple explanation of what has been found, and a hypothesis of where it has come from.*

### Lead at the Old Bus Depot Market site

The Old Bus Depot Markets occupy a historic Kingston site that was a transport depot from the late 1920's. The site was used for the housing and maintenance of cars, buses and trucks. (Ref 1)

Lead was used in the vehicle industry in many products, including:

- Leaded fuels until 2002
- Automotive paints, both application and repair (Ref 2)
- Lead acid batteries (Ref 3)
- Lead weights for wheel balancing
- Lead solder
- Welding, particularly if the parts being welded have lead oxide primer paints

Historically the main source of lead exposure in the Australian community was from lead in petrol and paint. (Ref 4) According to the Australian standard on hazardous paint management, lead-based paint may present a risk to health if it is ingested or inhaled. (Ref 5)

The lead at this site will have built up over many years and from many sources.

It is probable that the levels of lead-containing dust in this building would have been very high in the past when activities that created lead-containing dust were being carried out. Since transport related activities stopped in the building in 1992 (ref 1) it is probable that the levels of dust in areas in frequent use will have reduced significantly through cleaning and movement of people.

In areas where there has been no activity, such as the structure of the building and enclosed areas, the level of lead-containing dust will have remained high.

## Statement 2

*Provide an opinion about the likelihood of exposure risk to lead dust through normal use by stallholders and general public, prior to construction. Also include an opinion about the types of activities that might have created an exposure risk.*

Building users who have not accessed areas with high dust load are unlikely to have come into contact with lead-containing dust.

If you are a market stall holder, it is extremely unlikely you were exposed to lead at levels that would cause health problems. Blood lead tests may not detect exposure to lead that occurred or stopped more than about 6 months before the sample was taken. As the Bus depot has been closed for about a year due to COVID-19 and renovations, it is unlikely that you would need to undergo blood tests.

If you have simply visited the markets, it is extremely unlikely that you have been exposed to high levels of lead dust.

Anyone who has accessed the building structure such as beams or posts, particularly those high in the building, or who have been in enclosed and infrequently accessed areas, may have come into contact with lead-containing dust. The maintenance activities will also have disturbed the dust and released it to move into lower areas of the building, so workers conducting activities lower in the building since the maintenance began may also have come in contact with the lead-containing dust.

## Statement 3

*Provide a description of the types of interactions and duration which would typically result in health issues / require monitoring or treatment.*

### Background

Much of the information about lead exposure in Australia comes from studies in Port Pirie in South Australia and Mt Isa in Queensland; both locations of facilities that mine and smelt lead.

The South Australian Government carries out regular testing of the blood lead levels of residents in Port Pirie, particularly children who are the most vulnerable to lead exposure. (Ref 6)

The urban environments around Port Pirie have high levels of lead due to historical leaded fuel, lead paint and since 1889 the lead entering the environment from the smelter. Over 20% of all public sites tested had lead concentrations higher than 600 parts per million, indicating widespread contamination. (Ref 7)

It is very difficult to generalise about the lead levels that can be expected from exposure to lead, however the South Australian Government's testing of children who live in Port Pirie show that the average blood lead of those children aged 24 months in the first six months of 2020 was 6.2 µg/dL. These children are constantly exposed to high lead levels and their blood levels are only slightly above the average blood lead level among Australians which is now estimated to be less than 5 micrograms per decilitre. (Ref 4)

### Exposures

#### Maintenance workers

Anyone who has accessed the building structure such as beams or posts, particularly those high in the building, or who have been in enclosed and infrequently accessed areas, may have come into contact with

lead-containing dust. The maintenance activities will also have disturbed the dust and released it to move into lower areas of the building, so workers conducting activities lower in the building since the maintenance began may also have come in contact with the lead-containing dust.

The exposure to lead for workers who were at the site during the recent renovations at the Old Bus Depot Market site are unlikely to have been continuous. However, activities that disturbed dust may have caused exposure to dust with high levels of dust containing lead; some examples of these would be:

- working in any of the areas high in the structure
- working below activities that were higher in the structure, that was disturbing the dust
- sweeping
- cleaning surfaces, particularly with dry cloths or dusters
- using power tools not fitted with dust extraction.

### **Market stall holders**

If you are a market stall holder, it is extremely unlikely you were exposed to lead at levels that would cause health problems. Blood lead tests may not detect exposure to lead that occurred or stopped more than about 6 months before the sample was taken. As the Bus depot has been closed for about a year due to COVID-19 and renovations, it is unlikely that you would need to undergo blood tests.

### **Market visitors**

If you have simply visited the markets, it is extremely unlikely that you have been exposed to high levels of lead dust.

### **Workers in the transport depot**

If you worked in the building before 1992 when it was a transport depot, you may have been exposed to lead during this time. Your kidneys will excrete lead within a few weeks of exposure, and lead remaining in your body will move into the bones and teeth (Ref 5). Having a blood test now will not determine historical exposure.

### **Blood tests**

Blood tests can be arranged by your general practitioner. It can take approximately 3-4 days for lab results. Whilst waiting for results, remove yourself from area of concern, if your doctor advises you to.

Elevated blood lead levels are not notifiable conditions in the Australian Capital Territory, the Northern Territory or South Australia. However, should a doctor refer someone with an elevated blood lead level, a public health practitioner or environmental health officer would follow up the case if warranted.

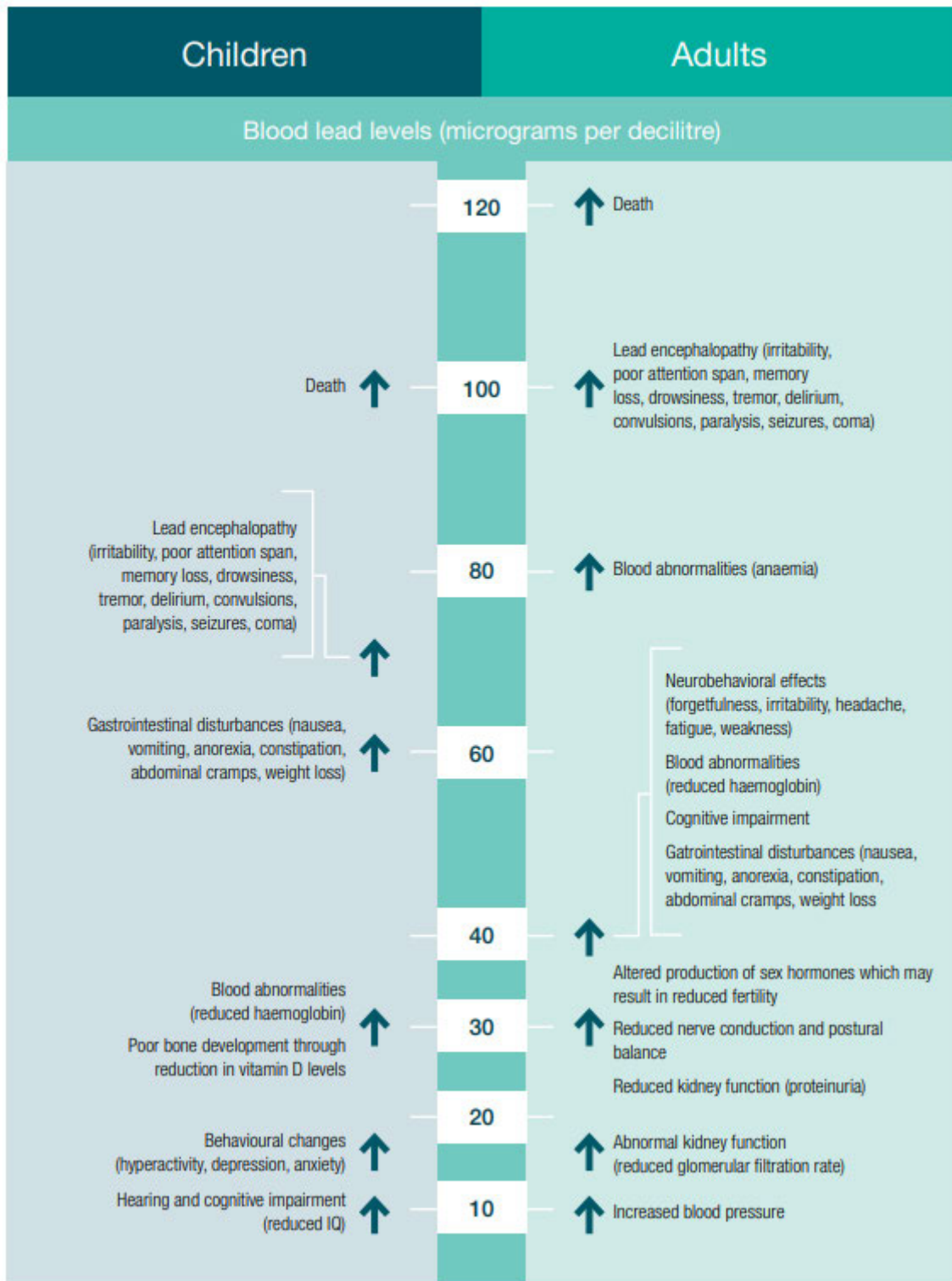
If your blood test shows you have elevated blood lead levels, you should discuss this with your doctor. Your doctor may recommend a range of medical treatments, including calcium supplements. Another treatment is called Chelation therapy for people with high blood lead levels. Lead chelation therapy involves the use of medicines that are designed to bind to lead so that it can be removed from the body via the kidneys. However, chelation does not remove lead that is in bones (the main place where lead is stored in the body).



## Possible health issues

The following table shows possible health issues from elevated blood lead levels. It should be noted that these levels are acute based unless at levels above 100µg/dL and would be consider long term exposure (chronic).

Table for health effects of blood levels 10 micrograms per deciliter and higher (ref 4 – figure 2)



## References

1. <http://www.actbus.net/kingston-depot/> accessed 16 Feb 2021
2. <https://www.environment.gov.au/protection/chemicals-management/lead/lead-in-auto-paints#:~:text=Lead%20colouring%20agents%20have%20been,sulphochromate%20and%20molybdate%20lead%20chromate>. Accessed 16 Feb 2021
3. <https://www.edf.org/news/automobile-industry-largest-source-lead-pollution-today> Accessed 16 Feb 2021
4. Australian Government, National Health and Medical Research Council, NHMRC Information Paper: Evidence on the Effects of Lead on Human Health, May 2015. <https://www.nhmrc.gov.au/sites/default/files/documents/reports/lead-human-health-info-paper-eh58a.pdf> accessed 16 Feb 2021
5. Government of South Australia, SA Health, Fact Sheet, Lead and your health, <https://www.sahealth.sa.gov.au/wps/wcm/connect/1983408048e186cca286a7f25a3eb7d6/Fact+Sheet+-+Lead+and+your+health.pdf?MOD=AJPERES&CACHEID=ROOTWORKSPACE-1983408048e186cca286a7f25a3eb7d6-niR4ZmE> accessed 17 Feb 2021
6. Government of South Australia, Port Pirie Blood Lead Levels Analysis for the third quarter 2018 <https://www.sahealth.sa.gov.au/wps/wcm/connect/9c822a84-6500-4424-86e2-7cf64e485098/Port+Pirie+Blood+Lead+Levels+Analysis+for+the+third+quarter+2018+%281+January-30+September+2018%29.pdf?MOD=AJPERES&CACHEID=ROOTWORKSPACE-9c822a84-6500-4424-86e2-7cf64e485098-niROECF> Accessed 19 Feb 2021
7. <https://www.sahealth.sa.gov.au/wps/wcm/connect/public+content/sa+health+internet/public+health/drugs+poisons+chemicals+and+contaminants/port+pirie+lead+implementation+program> Accessed 19 Feb 2021



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www.envirolab.com.au

## **CERTIFICATE OF ANALYSIS 262668**

### **Client Details**

<b>Client</b>	Robson Environmental Pty Ltd
<b>Attention</b>	Schedule 2.2(a)(ii)
<b>Address</b>	PO Box 112, Fyshwick, ACT, 2609

### **Sample Details**

<b>Your Reference</b>	<b>T10589</b>
<b>Number of Samples</b>	2 swab
<b>Date samples received</b>	24/02/2021
<b>Date completed instructions received</b>	24/02/2021

### **Analysis Details**

Please refer to the following pages for results, methodology summary and quality control data.  
Samples were analysed as received from the client. Results relate specifically to the samples as received.  
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

### **Report Details**

<b>Date results requested by</b>	24/02/2021
<b>Date of Issue</b>	24/02/2021

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#### **Results Approved By**

Schedule 2.2(a)(ii), Reporting Supervisor

#### **Authorised By**

Schedule 2.2(a)(ii)

Schedule 2.2(a)(ii) Laboratory Manager

**Client Reference: T10589**

<b>Lead in swab</b>			
Our Reference		262668-1	262668-2
Your Reference	UNITS	G3250	G3251
Date Sampled		23/02/2021	23/02/2021
Type of sample		swab	swab
Date prepared	-	24/02/2021	24/02/2021
Date analysed	-	24/02/2021	24/02/2021
Lead in Swabs	µg/swab	<1	<1

Method ID	Methodology Summary
<b>Metals-020/021/022</b>	Digestion of Dust wipes/swabs and /or miscellaneous samples for Metals determination by ICP-AES/MS and/or CV-AAS

Client Reference: T10589

QUALITY CONTROL: Lead in swab				Duplicate				Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			24/02/2021	[NT]	[NT]	[NT]	[NT]	24/02/2021	[NT]
Date analysed	-			24/02/2021	[NT]	[NT]	[NT]	[NT]	24/02/2021	[NT]
Lead in Swabs	µg/swab	1	Metals-020/021/022	<1	[NT]	[NT]	[NT]	[NT]	112	[NT]

**Result Definitions**

<b>NT</b>	Not tested
<b>NA</b>	Test not required
<b>INS</b>	Insufficient sample for this test
<b>PQL</b>	Practical Quantitation Limit
<b>&lt;</b>	Less than
<b>&gt;</b>	Greater than
<b>RPD</b>	Relative Percent Difference
<b>LCS</b>	Laboratory Control Sample
<b>NS</b>	Not specified
<b>NEPM</b>	National Environmental Protection Measure
<b>NR</b>	Not Reported

## Quality Control Definitions

<b>Blank</b>	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 exactly the same manner as for samples.
<b>Duplicate</b>	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
<b>Matrix Spike</b>	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.
<b>LCS (Laboratory Control Sample)</b>	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. It is simply a check sample.
<b>Surrogate Spike</b>	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.
Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.	
The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.	
Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2	

## Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

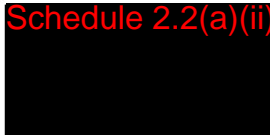
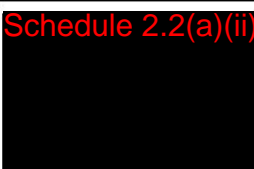
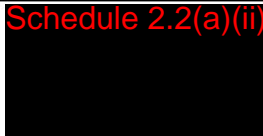


# Drinking Water Assessment

## Kingston Old Bus Depot

February 2021

### Certificate of approval for issue of documents

<b>Document Name</b>	Drinking Water Assessment – Kingston Old Bus Depot WQ Sampling		
<b>Date of Issue</b>	25 February 2021	<b>Job Number</b>	T10589
<b>Client</b>	Monarch Building Solutions		
<b>Site Sampling</b>			
<p><b>Schedule 2.2(a)(ii)</b></p>  Senior Contaminated Land Consultant Environmental Assessment and Remediation Asbestos Assessor (NSW WorkCover) - License No: LAA001094 Robson Environmental Pty. Ltd.			
<b>Report Preparation</b>		<b>Reviewed &amp; Approved</b>	
<p><b>Schedule 2.2(a)(ii)</b></p>  Environmental Scientist BEng (Biotechnology), MEM Robson Environmental Pty. Ltd.		<p><b>Schedule 2.2(a)(ii)</b></p>  Senior Contaminated Land Consultant Environmental Assessment and Remediation Asbestos Assessor (NSW WorkCover) - License No: LAA001094 Robson Environmental Pty. Ltd.	

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## 1 Introduction

Monarch Building Solutions (Monarch) engaged Robson Environmental Pty Ltd (Robson) to undertake a sampling of drinking water for analysis of five (5) locations at the Kingston Old Bus Depot, 21 Wentworth Avenue, Kingston, ACT 2604 (a portion of Block 14, Section 49), herein referred to as 'the site'. The sampling of the drinking water was undertaken between the 08 and 09 February 2021.

### 1.1 Objective

The purpose of the assessment was to ensure that water quality is suitable for drinking after the construction and renovation of multiple areas of the Old Bus Depot Building, including the replacement and upgrade of various water pipelines at the site.

### 1.2 Scope

The assessment included the sampling and analysis of drinking water from taps in five (5) locations for the following basic drinking water parameters:

- Microbiological:
  - Total coliforms; and
  - *E. coli*; and
- Physical and chemical:
  - pH;
  - Electrical conductivity;
  - Total dissolved solids;
  - Fluoride;
  - Chloride;
  - Sulphate;
  - Nitrate and nitrite; and
  - Alkalinity (Carbonate as CaCO<sub>3</sub>)
  - Aluminium, arsenic, cadmium, calcium, chromium (III + VI), copper, iron, magnesium, lead, mercury, nickel, potassium, sodium, zinc (as total metals);

## 2 Methods

Samples were collected in accordance with AS/NZS 5667.1:1998 *Water quality – Sampling Part 1: Guidance on the design of sampling programs, sampling techniques and the preservation and handling of samples*, using sterile, single use sampling containers.

Microbiological samples were collected in sample containers containing sodium thiosulphate (Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>) preservative before being placed on ice in an esky, delivered under chain of custody (COC) documentation to SGS Laboratories in Alexandria NSW 2015 and analysed within 48-hours, which is above the recommended 24-hour hold time. However, the laboratory report did not identify any potential holding time concern as documented in **Appendix A**. Samples for other parameters were collected as per AS/NZS 5667.1:1998 and dispatched under COC documentation to SGS Laboratories for analysis. Sample locations are shown in Table 1 overleaf.

**Table 1: Drinking water sampling locations**

Sample Number	Sample Location
Primary Samples	
W01	Bathroom West
W02	Kitchen West
W03	Central Kitchen
W04	Hallway
W05	Acid Room
Quality Control Samples	
QC01	Duplicate of W05 (Acid Room) – 08 February 2021
QC02	Duplicate of W05 (Acid Room) – 09 February 2021

### 3 Assessment Criteria

The water samples have been assessed against the criteria presented in Table 10.5 Performance measure for *Escherichia coli* within the distribution system and Table 10.6 Guideline values for physical and chemical characteristics of the National Health and Medical Research Council (NHMRC) (August 2018) '*National Water Quality Management Strategy. Australian Drinking Water Guidelines (ADWG) 6 – 2011 – Version 3.5'* (Updated August 2018), herein referred as '*ADWG 2018'*'.

A summary of the adopted assessment criteria is provided below in Table 1 and Table 2, and also with the laboratory tabulated analytical results in **Appendix B**.

#### 3.1 Microbiology

Recommended assessment criteria values for Microbiological parameters are given in Table 2 below.

**Table 2: Microbiology assessment criteria**

Bacteria	Description	Guidelines	Recommended maximum value
<i>Escherichia coli</i>	<i>E. coli</i> is a form of <i>Enterococci</i> , which are used as an indicator of sewage contamination.	The ADWG (NHMRC 2018) states that <i>E. coli</i> should not be detected in a minimum of 100mL of drinking water.	0 CFU/100mL
Total Coliforms (including faecal coliforms)	Total coliforms are a group of bacteria that are generally not harmful but are used to assess adequacy of water treatment and distribution system condition.	The ADWG (NHMRC 2018) does not have established guideline values for total coliforms or faecal coliforms. The USA NPDWR (EPA 2017) has a Maximum Contaminant Level Goal for total coliforms and faecal coliforms of zero.	0 CFU/100mL

**Note:** Laboratory Limit of Reporting (LOR) of SGS is 1 CFU/100 mL, which is suitable for the assessment criteria

### 3.2 Physical and Chemical Properties

The guideline values for health and taste (aesthetic) as per the Australian Drinking Water Guidelines (ADWG) (2018) for relevant contaminants in water are given below in Table 3.

Table 3: ADWG (2018) guideline values

Contaminant	Unit	Aesthetic guideline value	Health guideline value
Aluminium (acid-soluble)	mg/L	0.2	–
Arsenic	mg/L	–	0.01
Cadmium	µg/L	–	2
Chromium (III+VI)*	mg/L	–	0.05 (VI)*
Copper	mg/L	1	2
Iron (filtered & unfiltered)	mg/L	0.3	–
Lead	mg/L	–	0.01
Mercury	mg/L	–	0.001
Nickel	mg/L	–	0.02
Zinc	mg/L	3	–
pH (lab)	pH units	6.5-8.5	–
Nitrate (NO <sub>3</sub> -N as N)	mg/L	-	50
Nitrite (NO <sub>2</sub> as N)	mg/L	-	3
Chloride (filtered)	mg/L	250	–
Fluoride (filtered)	mg/L	–	1.5
Sodium	mg/L	180	–
Sulphate (filtered)	mg/L	250	–
Total dissolved solids (TDS)	mg/L	600	–

**Note:** \*The standard laboratory analysis for chromium provides a total concentration (that is, the result is unspicated for chromium (III) and chromium (VI)). As the health guideline value for chromium (VI) is 0.05 milligrams per kilogram (mg/L), it was considered that should the measured concentration of total chromium exceed this, then the sample would be re-analysed and spicated to measure the chromium (VI) concentration.

### 4 Field Work and Observations

Photographs of the site are included in Appendix C. The field observations of the assessment are discussed below:

- Five (5) water samples were collected on 08 and again 09 of February 2021 by a suitable qualified environmental consultant (SQEC);
- The five (5) drinking water samples were collected from the bathroom west, kitchen west, central kitchen, hallway, and acid room from the Old Bus Depot Building;
- The water samples were visually clear and no indications of odours were observed during the water sampling;

The QA/QC samples collected during the assessment included the following:

- Sample QC01 which was a duplicate of primary sample W05 on 08 February 2021;
- Sample QC02 which was a duplicate of primary sample W05 on 09 February 2021.

## 5 Results

Certified laboratory reports, sample receipt advice and COC documentation are included in **Appendices A** and **D**. The analytical results for the primary and QA/QC samples are tabulated against the assessment criteria in **Appendix B** and are summarised below.

### 5.1 Drinking water analytical results

All water samples collected recorded analytical results below the NHMRC (August 2018) '*National Water Quality Management Strategy. Australian Drinking Water Guidelines 6 – 2011 – Version 3.5*' Tables 10.5 (microbiology) and 10.6 (aesthetic and health) assessment criteria, except for the following:

- Sample W01 presented a concentration of pH of 8.7 which is above the ADWG Aesthetic guideline value (6.5 to 8.5 pH units).

## 6 Quality Assurance and Quality Control Results

### 6.1 Field Quality Control: Duplicate

A duplicate sample was collected and analysed to assess the reproducibility of the sampling procedure and the laboratory analytical methods used. This was assessed via calculation of the relative percent difference (RPD) for the laboratory results for a primary soil sample and corresponding field duplicate sample. The RPD is a method of normalising two values and allows a comparison between values and represents the difference between the primary and QC sample, divided by the average of the two results expressed as a percentage. The RPD is calculated with the following formula:

$$RPD = \frac{\text{Result No. 1} - \text{Result No. 2}}{\text{Mean Result}} \times 100\%$$

Calculated RPD results would be considered acceptable when the value is less than or equal to 50 % or where the concentration is less than 5 times the LOR (in which case any RPD is considered acceptable). Should the RPD value exceed 50 percent (%), then further investigation to the cause of the difference between the primary and QC results would be undertaken.

Two (2) duplicate water samples were collected for every day of the assessment. Results of the RPD calculations for the primary and duplicate pairs are presented in **Appendix B**. In summary, all the RPD values were within the acceptable range for the primary and duplicate sample.

### 6.2 Laboratory Quality Control

The results of the laboratory internal quality control program are included along with the laboratory reports in **Appendix D**. The acceptable limits for the laboratory QA/QC are presented overleaf in Table 4.

**Table 4: Summary of Acceptable Laboratory QA/QC Limits**

Sample Type	Acceptable Limits
Surrogate Spikes	60% - 140%
Duplicate Sample	Maximum allowable difference (MAD) criteria where: $MAD = 100 \times \text{Statistical Detection Limit (SDL)} / \text{Mean} + \text{Limiting Repeatability (LR)}$
Matrix Spikes	70% - 130% (metals) and 60% - 140% (organics)
Method Blanks	Less than the LOR

In summary, the laboratory QA/QC results indicated the following:

- The surrogate recovery results were not required for this job according to the laboratory statement of QA/QC performance;
- The matrix spike recovery results were not required for this job according to the laboratory statement of QA/QC performance;
- The laboratory control samples, which were run with each batch of samples analysed, were within acceptable QC limits set by the laboratory;
- The concentrations of the laboratory blanks, which were run with each batch of samples analysed, were below the laboratory's LOR;
- The laboratory duplicate sample analyses were within the acceptable range;
- The laboratory extraction dates were within the laboratory's suggested criteria;
- The laboratory analysis dates were within the laboratory's suggested criteria, except for the following:
  - Six (6) items failed the acceptance criteria for analysis date for both acidity and free CO<sub>2</sub> and pH in water. The report notes that analysis dates are the suggested dates that samples may be held before extraction or analysis and still may be considered valid;

Based on the results of the implemented field quality control (calculation of the RPDs for the sample duplicate pair) and the results of the internal quality control implemented by the laboratory, Robson considers the analytical results provided in the laboratory reports to be acceptable for the purposes of this assessment.

## 7 Discussion & Conclusion

The analysis of drinking water samples taken at the five (5) locations within the Old Bus Depot on February 08 and 09, 2021 showed that no measured contaminant was detected above any relevant guidelines from the ADWG (2018), with many below the laboratory LOR, except for pH in the water sample W01 which presented a concentration of 8.7 pH units, above the ADWG Aesthetic guideline value (6.5 to 8.5 pH units).

According to Table 10.6 'Guideline values for physical and chemical characteristics' of the ADWG 2018, 'new concrete tanks and cement-mortar lined pipes can significantly increase pH and a value up to 9.2 may be tolerated provided monitoring indicates no deterioration in microbial quality'. Additionally, the ADWG 2018 also indicates that pH values above 8 progressively decreases efficiency of chlorination and above 8.5 may cause scale and taste problems.

Therefore, considering that construction and renovation works (including disturbance, replacement and/or upgrade of water pipelines) are currently being undertaken at the Old Bus Depot Building, the pH concentration detected in W01 may be attributed to these activities. It is important to point out that this elevated pH did not reflect any effects on the concentration of total coliforms or *Escherichia coli*, which were undetected.

For contaminants which do not have a set threshold, none were present at concentrations which are expected to be any cause for concern from either a human health or aesthetic standpoint.

While there is always the possibility that something which has not been sampled could be outside the recommended guidelines, this is unlikely for multiple reasons:

- Measured parameters were selected based on laboratory recommendations and accepted industry best practice; and
- ACT town water is treated and supplied by Icon Water who are required to meet certain parameters for drinking water quality.

There is no evidence to suggest there is anything unsuitable about the samples of water collected from the Old Bus Depot Building on February 08 and 09, 2021 for use as drinking water under the health guidelines of the ADWG 2018. However, further recommendations for the management of all representative sample locations are presented in Section 7.1. Human taste preferences are inherently variable, and it is likely that the concern about the taste of the water is due to a personal taste preference or a particular taste sensitivity, which is not expected to pose any risk to health.

## 7.1 Recommendations

Considering that construction and lead abatement works are still being undertaken at the site, Robson recommends, at the end of all works and prior to project handover, a final round of monitoring of representative drinking water sample locations at the site to verify for the safety water quality for future occupants of the site. The assessment must be done in accordance with the ADWG 2018.

For the other water sampling locations, if any building occupants have ongoing concerns about the taste of water from a particular tap or all taps within the Old Bus Depot Building, it is recommended that local action be taken to manage this concern, such as:

1. bring water from home in a water bottle;
2. filter water prior to drinking; or
3. use a different tap (if the concern is only about one tap).

## 8 Limitations

While Robson has taken all care to ensure that this report includes the most accurate information available, samples were taken at certain times on the day or days indicated within the report and Robson is unable to comment on conditions at other times. Any statement of expected conditions at other times should be taken as possible conditions only.

The report, including any risk assessment presented, is based on the information obtained by Robson at the time of sampling. Any variation in the environment, activities, methods, practices, products, or equipment used may change exposures to hazards, invalidating the presented risk assessment. Robson recommends that risks be re-assessed prior to making any changes to the aforementioned factors.

The findings contained within this report are developed from the interpretation of the results of specific sampling methods used in accordance with generally accepted practices and standards, based on the current state of knowledge. To the best of Robson's knowledge, our assessment of the data represents a reasonable interpretation of the general conditions, and subsequent risk at the time of sampling. Should you have any questions or require further information please contact Robson Environmental.

## 9 References

- Environmental Protection Agency (EPA) USA 2017, *National Primary Drinking Water Regulations*, accessed 05/01/2021, <https://www.epa.gov/ground-water-and-drinking-water/national-primary-drinking-water-regulations#Microorganisms>
- National Health and Medical Research Council (NHMRC) 2011, updated August 2018, *Australian Drinking Water Guidelines Paper 6 National Water Quality Management Strategy*, National Health and Medical Research Council, Canberra.
- Standards Australia, 1998, *Water quality – Sampling Part 1: Guidance on the design of sampling programs, sampling techniques and the preservation and handling of samples*, AS/NZS 5667.1:1998, Standards Australia, Australia.

## 10 Appendices

- Appendix A: Microbiological Laboratory Results
- Appendix B: Laboratory Tabulated Analytical Results
- Appendix C: Photographs
- Appendix D: Sample Receipt Advice, COC Documentation and Certified Laboratory Reports



## **APPENDIX A**

### Microbiological Laboratory Results

## CERTIFICATE OF ANALYSIS

<b>Certificate Number</b>	S996347 [R00]	<b>Page</b>	1/4
<b>Client</b>	SGS Environmental Services - Sydney	<b>Registering Laboratory</b>	Sydney
<b>Contact</b>	Schedule 2.2(a)(ii)	<b>Contact</b>	Customer Service Team
<b>Address</b>	16/33 Maddox St Alexandria NSW 2015	<b>Address</b>	2 Sirius Rd, Lane Cove West, NSW 2066
<b>Telephone</b>	02 8594 0400	<b>Email</b>	<a href="mailto:admin@symbiolabs.com.au">admin@symbiolabs.com.au</a>
<b>Order Number</b>	---	<b>Telephone</b>	1300 703 166
<b>Project ID</b>	SE216342 Water	<b>Date Samples Received</b>	11/02/2021
<b>Sampler</b>	Customer	<b>Date Analysis Commenced</b>	11/02/2021
<b>Client Job Reference</b>	SE216342	<b>Issue Date</b>	12/02/2021
<b>No. of Samples Registered</b>	6   Sampler: Customer	<b>Receipt Temperature (°C)</b>	5.5
<b>Priority</b>	Normal	<b>Storage Temperature (°C)</b>	4.0
		<b>Quote Number</b>	---



Accreditation No: 2455  
Accredited for compliance  
with ISO/IEC 17025 - Testing

This report supersedes any previous revision with this reference. This document must not be reproduced, except in full. If samples were provided by the customer, results apply only to the samples 'as received' and responsibility for representative sampling rests with the customer. Water results are reported on an 'as is' basis. Soil and sediment results are reported on a 'dry weight' basis. For other matrices the basis of reporting will be confirmed in the 'Report Comments' section. Measurement Uncertainty is available upon request. If the laboratory was authorised to conduct testing on samples received outside of the specified conditions, all test results may be impacted. Details of samples received outside of the specified conditions are mentioned in the sample description section of this test report.

### Definitions

| <: Less Than | >: Greater Than | RP: Result Pending | MPN: Most Probable Number | CFU: Colony Forming Units | ---: Not Received/Not Requested | NA: Not Applicable | ND: Not Detected | LOR: Limit of Reporting | [NT]: Not Tested |  
| ~: Estimated | ^ Subcontracted Analysis | TBA: To Be Advised | \*\* Potential Holding Time Concern | \* Test not covered by NATA scope of accreditation | # Result derived from a calculation and includes results equal to or greater than the LOR

### Authorised By

Name	Position	Accreditation Category
Schedule 2.2(a)(ii)	Laboratory Manager – Microbiology	Environmental and Food Microbiology

### Sample Information - Client/Sampler Supplied

Sample ID	S996347/1	S996347/2	S996347/3	S996347/4	S996347/5
Sample Description	SE216342.007 W01	SE216342.008 W02	SE216342.009 W03	SE216342.010 W04	SE216342.011 W05
Sample Date/Time	2021-02-09 00:00	2021-02-09 00:00	2021-02-09 00:00	2021-02-09 00:00	2021-02-09 00:00
Sample Matrix	Water - General	Water - General	Water - General	Water - General	Water - General

<b>Client</b>	SGS Environmental Services - Sydney
<b>Certificate Number</b>	S996347 [R00]
<b>Page</b>	2/4

<b>Project ID</b>	SE216342 Water
<b>Sampler</b>	Customer
<b>Order Number</b>	---



**Sample Information** - *Client/Sampler Supplied*

<b>Sample ID</b>	<b>S996347/6</b>
<b>Sample Description</b>	SE216342.012 QC02
<b>Sample Date/Time</b>	2021-02-09 00:00
<b>Sample Matrix</b>	Water - General

Client	SGS Environmental Services - Sydney
Certificate Number	S996347 [R00]
Page	3/4

Project ID	SE216342 Water
Sampler	Customer
Order Number	---



**Analytical Results**

Client Sample Description			SE216342.007 W01	SE216342.008 W02	SE216342.009 W03	SE216342.010 W04	SE216342.011 W05
Client Sampling date/time			09/02/2021 00:00	09/02/2021 00:00	09/02/2021 00:00	09/02/2021 00:00	09/02/2021 00:00
Compound/Analyte	LOR	Units	S996347/1	S996347/2	S996347/3	S996347/4	S996347/5
			Results	Results	Results	Results	Results
Micro General							
M8.5 - AS/NZS 4276.7							
Escherichia coli	1	CFU/100mL	<1	<1	<1	<1	<1
M8.5.1 - AS/NZS 4276.5							
Coliforms	1	CFU/100mL	<1	<1	<1	<1	<1

<b>Client</b>	SGS Environmental Services - Sydney
<b>Certificate Number</b>	S996347 [R00]
<b>Page</b>	4/4

<b>Project ID</b>	SE216342 Water
<b>Sampler</b>	Customer
<b>Order Number</b>	---



### Analytical Results

<b>Client Sample Description</b>			SE216342.012 QC02
<b>Client Sampling date/time</b>			09/02/2021 00:00
Compound/Analyte	LOR	Units	S996347/6
			Results
Micro General			
M8.5 - AS/NZS 4276.7			
Escherichia coli	1	CFU/100mL	<1
M8.5.1 - AS/NZS 4276.5			
Coliforms	1	CFU/100mL	<1

### Analysis Location

All in-house analysis was completed by Symbio Laboratories - Sydney.

## **APPENDIX B**

### Laboratory Tabulated Analytical Results

	Unit	EQL	ADWG 2018 Aesthetic <sup>1</sup>	ADWG 2018 Health <sup>2</sup>	Bathroom West		Kitchen West		Central Kitchen		Hallway		Acid Room		Quality Control	
					Field ID		Date		Date		Date		Date		Date	
					W01	W02	W03	W04	W05	QC01	QC02					
					8/02/2021	9/02/2021	8/02/2021	9/02/2021	8/02/2021	9/02/2021	8/02/2021	9/02/2021	8/02/2021	9/02/2021	8/02/2021	9/02/2021
					SE216342	SE216342	SE216342	SE216342	SE216342	SE216342	SE216342	SE216342	SE216342	SE216342	SE216342	SE216342
<b>Filterable Reactive Phosphorus</b>																
Phosphorous filterable reactive (P) (filtered)	mg/L	0.005			-	<0.005	-	<0.005	-	<0.005	-	<0.005	-	<0.005	-	<0.005
<b>Metals</b>																
Aluminium	mg/L	0.005	0.2		-	<b>0.009</b>	-	<b>0.032</b>	-	<b>0.024</b>	-	<b>0.018</b>	-	<b>0.028</b>	-	<b>0.029</b>
Arsenic	mg/L	0.001		0.01	-	<0.001	-	<0.001	-	<0.001	-	<0.001	-	<0.001	-	<0.001
Cadmium	µg/L	0.1		2	-	<0.1	-	<0.1	-	<0.1	-	<b>0.2</b>	-	<0.1	-	<0.1
Calcium	mg/L	0.1			-	<b>10</b>	-	<b>14</b>	-	<b>14</b>	-	<b>13</b>	-	<b>14</b>	-	<b>15</b>
Chromium (III+VI)	mg/L	0.001			-	<0.001	-	<0.001	-	<b>0.002</b>	-	<0.001	-	<0.001	-	<0.001
Copper	mg/L	0.001	1	2	-	<b>0.022</b>	-	<b>0.02</b>	-	<b>0.13</b>	-	<b>0.25</b>	-	<b>0.088</b>	-	<b>0.089</b>
Iron	mg/L	0.005	0.3		-	<b>0.016</b>	-	<b>0.019</b>	-	<b>0.025</b>	-	<b>0.007</b>	-	<b>0.017</b>	-	<b>0.014</b>
Lead	mg/L	0.001		0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium	mg/L	0.1			-	<b>5.5</b>	-	<b>1.3</b>	-	<b>1.3</b>	-	<b>1.3</b>	-	<b>1.3</b>	-	<b>1.3</b>
Mercury	mg/L	0.0001		0.001	-	<0.0001	-	<0.0001	-	<0.0001	-	<0.0001	-	<0.0001	-	<0.0001
Nickel	mg/L	0.001		0.02	-	<0.001	-	<0.001	-	<0.001	-	<0.001	-	<0.001	-	<0.001
Potassium	mg/L	0.2			-	<b>0.7</b>	-	<b>0.8</b>	-	<b>0.8</b>	-	<b>0.8</b>	-	<b>0.8</b>	-	<b>0.8</b>
Sodium	mg/L	0.1	180		-	<b>3.4</b>	-	<b>3.1</b>	-	<b>3.1</b>	-	<b>3.1</b>	-	<b>3</b>	-	<b>3.1</b>
Zinc	mg/L	0.005	3		-	<b>0.007</b>	-	<b>0.009</b>	-	<b>0.01</b>	-	<b>0.01</b>	-	<b>0.011</b>	-	<b>0.01</b>
<b>Inorganics</b>																
Nitrate Nitrogen (as N, NO <sub>3</sub> -N) (filtered)	mg/L	0.005		50	-	<b>0.047</b>	-	<b>0.042</b>	-	<b>0.039</b>	-	<b>0.040</b>	-	<b>0.042</b>	-	<b>0.040</b>
Nitrite (NO <sub>2</sub> as N) (filtered)	mg/L	0.005		3	-	<0.005	-	<0.005	-	<0.005	-	<0.005	-	<0.005	-	<0.005
Chloride	mg/L	1	250		-	<b>5.2</b>	-	<b>5.6</b>	-	<b>5.4</b>	-	<b>5.3</b>	-	<b>5.4</b>	-	<b>5.1</b>
Sulfate (SO <sub>4</sub> )	mg/L	1	250		-	<b>4.4</b>	-	<b>1.6</b>	-	<b>1.6</b>	-	<b>1.7</b>	-	<b>1.7</b>	-	<b>1.6</b>
Fluoride	mg/L	0.02		1.5	-	<b>0.71</b>	-	<b>0.74</b>	-	<b>0.74</b>	-	<b>0.73</b>	-	<b>0.74</b>	-	<b>0.73</b>
Conductivity	µS/cm	2.00			-	<b>100</b>	-	<b>92</b>	-	<b>89</b>	-	<b>90</b>	-	<b>92</b>	-	<b>91</b>
Total Dissolved Solids	mg/L	2.00	600	NN	-	<b>60</b>	-	<b>55</b>	-	<b>53</b>	-	<b>54</b>	-	<b>55</b>	-	<b>55</b>
pH	pH Units		6.5-8.5		-	<b>8.7</b>	-	<b>7.5</b>	-	<b>7.1</b>	-	<b>7</b>	-	<b>7</b>	-	<b>6.9</b>
<b>Alkalinity</b>																
Phenolphthalein alkalinity	µg/L	5,000			-	<b>17,000</b>	-	<5,000	-	<5,000	-	<5,000	-	<5,000	-	<5,000
Alkalinity (Carbonate as CaCO <sub>3</sub> )	mg/L	1	200		-	<b>34</b>	-	<1	-	<1	-	<1	-	<1	-	<1
<b>Acidity and Free CO<sub>2</sub></b>																
Acidity to pH 8.3	mg/L	5			-	<5	-	<b>10</b>	-	<b>8</b>	-	<b>8</b>	-	<b>9</b>	-	<b>11</b>
<b>Microbiology General</b>																
Escherichia coli	CFU/100 mL	1	ND	ND	-	<1	-	<1	-	<1	-	<1	-	<1	-	<1
Total Coliforms	CFU/100 mL	1	ND	ND	-	<1	-	<1	-	<1	-	<1	-	<1	-	<1

**Notes:**

W = Tap Water Sample

ND = Not detected, µg/L = micrograms per litre, NC = Not Calculable, NN = Not necessary

- = Not analysed, LOR = Limit of reporting

< = Less than, mg/L = milligrams per litre, µg/L = micrograms per litre

**Environmental Standards**

<sup>1</sup>NHMRC, August 2018, Australian Drinking Water Guidelines (ADWG) 2018 Aesthetic. Table 10.6 Guideline values for physical and chemical characteristics.

<sup>2</sup>NHMRC, August 2018, Australian Drinking Water Guidelines (ADWG) 2018 Health. Table 10.6 Guideline values for physical and chemical characteristics.

<b>RESULTS</b>	Results in highlighted cells exceed aesthetic drinking water assessment criteria
<b>RESULTS</b>	Results in highlighted cells exceed the health drinking water criteria

Field ID	W05		QC01		RPD (%)	W05		QC02	
	Date	8/02/2021	Date	8/02/2021		Date	9/02/2021	Date	9/02/2021
Lab Report Number	SE216342		SE216342		RPD (%)	SE216342		SE216342	
	Unit	EQL							
<b>Filterable Reactive Phosphorus</b>									
Phosphorous filterable reactive (P) (filtered)	mg/L	0.005	-	-	-	<0.005	<0.005		0
<b>Metals</b>									
Aluminium	mg/L	0.005	-	-	-	<b>0.028</b>	<b>0.029</b>		4
Arsenic	mg/L	0.001	-	-	-	<0.001	<0.001		0
Cadmium	µg/L	0.1	-	-	-	<0.1	<0.1		0
Calcium	mg/L	0.1	-	-	-	<b>14</b>	<b>15</b>		7
Chromium (III VI)	mg/L	0.001	-	-	-	<0.001	<0.001		0
Copper	mg/L	0.001	-	-	-	<b>0.088</b>	<b>0.089</b>		1
Iron	mg/L	0.005	-	-	-	<b>0.017</b>	<b>0.014</b>		19
Lead	mg/L	0.001	<0.001	<0.001	0	<0.001	<0.001		0
Magnesium	mg/L	0.1	-	-	-	<b>1.3</b>	<b>1.3</b>		0
Mercury	mg/L	0.0001	-	-	-	<0.0001	<0.0001		0
Nickel	mg/L	0.001	-	-	-	<0.001	<0.001		0
Potassium	mg/L	0.2	-	-	-	<b>0.8</b>	<b>0.8</b>		0
Zinc	mg/L	0.005	-	-	-	<b>0.011</b>	<b>0.01</b>		10
<b>Acidity and Free CO<sub>2</sub></b>									
Acidity	mg/L	5	-	-	-	<b>9</b>	<b>11</b>		20
<b>Alkalinity</b>									
Alkalinity (Carbonate as CaCO <sub>3</sub> )	mg/L	1	-	-	-	<1	<1		0
<b>Inorganics</b>									
Nitrate (as N) (filtered)	mg/L	0.005	-	-	-	<b>0.042</b>	<b>0.040</b>		5
Nitrite (as N) (filtered)	mg/L	0.005	-	-	-	<0.005	<0.005		0
phenolphthalein alkalinity	µg/L	5,000	-	-	-	<5,000	<5,000		0
pH	pH Units					<b>7</b>	<b>6.9</b>		1
<b>Microbiology General</b>									
Escherichia coli	CFU/100 mL	1	-	-	-	<1	<1		0
Coliforms	CFU/100 mL	1	-	-	-	<1	<1		0

**Notes:**

TP = Test pit, QA/QC = Quality Assurance/Quality Control, SP = Stockpile Sample, SS = Surface Sample, EX = Excavation Sample, BH = Borehole Sample  
 LOR = Limit of Reporting, NE = Guideline not established, mg/kg = milligrams per kilogram, EQL = Estimated Quantitation Limit  
 NL = Non Limiting, HIL = Health Investigation Level, HSL = Health Screening Level, NC = Not Calculable  
 EIL = Ecological Investigation Level, ESL = Ecological Screening Level, EX = Excavation  
 % = Percent, < = Less than, # = All constituents are below LOR, - = Not analysed  
 TB = Trip Blank sample, TS = Trip Spike sample

**Assessment Criteria:**

\*RPDs have only been considered where a concentration is greater than 5 times the EQL.  
 \*\*High RPDs are in bold (Acceptable RPDs 0-50 (>5 x EQL) )  
 \*\*\*Interlab Duplicates are matched on a per compound basis as methods vary between laboratories.

<b>RESULT</b>	RPD exceeds 50% but is less than 5 x the LOR and is therefore considered suitable
<b>RESULT</b>	Result exceeds the RPD acceptance criteria



## **APPENDIX C**

### Photographs



**Photograph 1:** General view of sample location W01, Bathroom West.

Date: 08 February 2021.



**Photograph 2:** Sample water location W03, Central Kitchen.

Date: 08 February 2021.



**Photograph 3:** Sample water location W04, Hallway.

Date: 08 February 2021.



**Photograph 4:** Sample water location, W05, Acid Room.

Date: 08 February 2021.

## **APPENDIX D**

Sample Receipt Advice, COC Documentation and Certified Laboratory Reports



**From:** Robson Environmental Pty Ltd  
 PO Box 112 Fyshwick ACT 2609  
 140 Gladstone Street  
 Fyshwick ACT 2609  
 ABN: 55 008 660 900

**Occupational Hygiene  
 Health Safety &  
 Environmental Consulting**

**CHAIN OF CUSTODY  
 FORM**

Job No. : T10589

**Contact:** Schedule 2.2(a)(ii)  
**Phone:** (02) 6239 5656  
**Mobile:** Schedule 2.2(a)(ii)  
**Fax:** (02) 6239 5669  
**Email:** Schedule 2.2(a)(ii)

**Client Information:** Monarch Building Solutions  
 24 Lithgow Street Fyshwick  
 ACT 2609

**Site Address:** Old Bus Depot Markets  
 Megalong Building  
 Kingston ACT 2604

**Sampled by:** BK

**Job Name:** Water Quality Testing

**ESDAT Files Required** YES

**Required Turnaround Time:**  
 24hr  48hr  5-7 days   
 36hr  72hr

**Analysis Required**

WC6 - Potability Suite	Total Lead																
	X																
	X																
	X																
	X																
	X																
	X																
	X																
	X																
	X																
	X																
	X																

**To:** SGS  
 33 Maddox Street  
 Alexandria NSW 2015

**Contact:** Schedule 2.2(a)(ii)  
**Phone:** (02) 8594 0404  
**Schedule 2.2(a)(ii)**  
**Fax:** (02) 8594 0499  
**Email:**  
 ABN:44 000 964 278

**Comments - Robson  
 Quote Code LVJVAJ &  
 LVM10X**

24 hour TAT. I understand that the microbiology will take longer.  
 ~ 48hrs

Lab ID	Sample ID	Sample Depth (m)	Date Sampled	Sample Location	No. of Sample Jars	Sample Type	Sample Preservation (Ice, Acid, Ambient)	WC6 - Potability Suite	Total Lead									
1	W01	-	8/02/2021	West Toilet	1 Plastic	Water	Ice		X									
2	W02	-	8/02/2021	West Kitchen	1 Plastic	Water	Ice		X									
3	W03	-	8/02/2021	Central Kitchen	1 Plastic	Water	Ice		X									
4	W04	-	8/02/2021	Hallway	1 Plastic	Water	Ice		X									
5	W05	-	8/02/2021	Acid Room	1 Plastic	Water	Ice		X									
6	QC01	-	8/02/2021	QA/QC	1 Plastic	Water	Ice		X									
7	W01	-	9/02/2021	West Toilet	3 Plastic	Water	Ice	X										
8	W02	-	9/02/2021	West Kitchen	3 Plastic	Water	Ice	X										
9	W03	-	9/02/2021	Central Kitchen	3 Plastic	Water	Ice	X										
10	W04	-	9/02/2021	Hallway	3 Plastic	Water	Ice	X										
11	W05	-	9/02/2021	Acid Room	3 Plastic	Water	Ice	X										
12	QC02	-	9/02/2021	QA/QC	2 Plastic	Water	Ice	X										

Relinquished by: [redacted] Date: 9/2/21 9/02/2021 Time: 2pm Received by: [redacted] Time: 10/02/21 @ 10:40

Relinquished by: Date: Time: Received by: Time:

Relinquished by: Date: Time: Received by: Time:

**SGS EHS Sydney COC  
 SE216342**



CLIENT DETAILS

Contact **Schedule 2.2(a)(ii)**  
 Client **Robson Environmental Pty Ltd**  
 Address **140 Gladstone Street, FYSHWICK  
 PO Box 112, FYSHWICK  
 ACT 2609**

Telephone **(02) 6239 5656**  
 Facsimile **(02) 6239 5669**  
 Email **Schedule 2.2(a)(ii)**

Project **T10589 Water Quality Testing**  
 Order Number **T10589**  
 Samples **12**

LABORATORY DETAILS

Manager **Schedule 2.2(a)(ii)**  
 Laboratory **SGS Alexandria Environmental**  
 Address **Unit 16, 33 Maddox St  
 Alexandria NSW 2015**

Telephone **+61 2 8594 0400**  
 Facsimile **+61 2 8594 0499**  
 Email **au.environmental.sydney@sgs.com**

Samples Received **Wed 10/2/2021**  
 Report Due **Thu 11/2/2021**  
 SGS Reference **SE216342**

SUBMISSION DETAILS

This is to confirm that 12 samples were received on Wednesday 10/2/2021. Results are expected to be ready by COB Thursday 11/2/2021. Please quote SGS reference SE216342 when making enquiries. Refer below for details relating to sample integrity upon receipt.

Samples clearly labelled	Yes	Complete documentation received	Yes
Sample container provider	SGS	Sample cooling method	Ice Bricks
Samples received in correct containers	Yes	Sample counts by matrix	12 Water
Date documentation received	10/2/2021	Type of documentation received	COC
Samples received in good order	Yes	Samples received without headspace	Yes
Sample temperature upon receipt	12.7°C	Sufficient sample for analysis	Yes
Turnaround time requested	Next Day		

Unless otherwise instructed, water and bulk samples will be held for one month from date of report, and soil samples will be held for two months.

COMMENTS

Micros subcontracted to Symbio Laboratories, 2 Sirius Road, Lane Cove West NSW 2066, NATA Accreditation Number 2455.

This document is issued by the Company under its General Conditions of Service accessible at [www.sgs.com/en/Terms-and-Conditions.aspx](http://www.sgs.com/en/Terms-and-Conditions.aspx). Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

CLIENT DETAILS

Client **Robson Environmental Pty Ltd**

Project **T10589 Water Quality Testing**

SUMMARY OF ANALYSIS

No.	Sample ID	Acidity and Free CO2	Alkalinity	Anions by Ion Chromatography in Water	Conductivity and TDS by Calculation - Water	Filterable Reactive Phosphorus (FRP)	Metals in Water (Total) by ICPOES	Nitrite in Water	pH in water	Trace Metals (Total) in Water by ICPMS
001	W01	-	-	-	-	-	-	-	-	1
002	W02	-	-	-	-	-	-	-	-	1
003	W03	-	-	-	-	-	-	-	-	1
004	W04	-	-	-	-	-	-	-	-	1
005	W05	-	-	-	-	-	-	-	-	1
006	QC01	-	-	-	-	-	-	-	-	1
007	W01	1	5	4	2	1	4	1	1	9
008	W02	1	5	4	2	1	4	1	1	9
009	W03	1	5	4	2	1	4	1	1	9
010	W04	1	5	4	2	1	4	1	1	9
011	W05	1	5	4	2	1	4	1	1	9
012	QC02	1	5	4	2	1	4	1	1	9

CONT NUED OVERLEAF

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document. The numbers shown in the table indicate the number of results requested in each package. Please indicate as soon as possible should your request differ from these details. Testing as per this table shall commence immediately unless the client intervenes with a correction.

CLIENT DETAILS

Client **Robson Environmental Pty Ltd**

Project **T10589 Water Quality Testing**

SUMMARY OF ANALYSIS

No.	Sample ID	E.coli and Total Coliforms in Water	Mercury (total) in Water
007	W01	3	2
008	W02	3	2
009	W03	3	2
010	W04	3	2
011	W05	3	2
012	QC02	3	2

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document. The numbers shown in the table indicate the number of results requested in each package. Please indicate as soon as possible should your request differ from these details. Testing as per this table shall commence immediately unless the client intervenes with a correction.



CLIENT DETAILS

Contact **Schedule 2.2(a)(ii)**  
 Client Robson Environmental Pty Ltd  
 Address 140 Gladstone Street, FYSHWICK  
 PO Box 112, FYSHWICK  
 ACT 2609  
  
 Telephone (02) 6239 5656  
 Facsimile (02) 6239 5669  
 Email **Schedule 2.2(a)(ii)**  
 Project **T10589 Water Quality Testing**  
 Order Number **T10589**  
 Samples 12

LABORATORY DETAILS

Manager **Schedule 2.2(a)(ii)**  
 Laboratory SGS Alexandria Environmental  
 Address Unit 16, 33 Maddox St  
 Alexandria NSW 2015  
  
 Telephone +61 2 8594 0400  
 Facsimile +61 2 8594 0499  
 Email au.environmental.sydney@sgs.com  
 SGS Reference **SE216342 R0**  
 Date Received 10/2/2021  
 Date Reported 15/2/2021

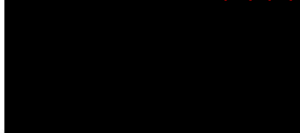
COMMENTS

Accredited for compliance with ISO/IEC 17025 - Testing. NATA accredited laboratory 2562(4354).

Micros subcontracted to Symbio Laboratories, 2 Sirius Road, Lane Cove West NSW 2066, NATA Accreditation Number 2455 Report Number S996347.

SIGNATORIES

**Schedule 2.2(a)(ii)**



Metals/Inorganics Team Leader

**Schedule 2.2(a)(ii)**



Inorganic/Metals Chemist

Anions by Ion Chromatography in Water [AN245] Tested: 11/2/2021

PARAMETER	UOM	LOR	W01 09/02/21	W02 09/02/21	W03 09/02/21	W04 09/02/21	W05 09/02/21
			WATER - 9/2/2021 SE216342.007	WATER - 9/2/2021 SE216342.008	WATER - 9/2/2021 SE216342.009	WATER - 9/2/2021 SE216342.010	WATER - 9/2/2021 SE216342.011
Nitrate Nitrogen, NO3-N	mg/L	0.005	0.047	0.042	0.039	0.040	0.042
Chloride	mg/L	1	5.2	5.6	5.4	5.3	5.4
Sulfate, SO4	mg/L	1	4.4	1.6	1.6	1.7	1.7
Fluoride	mg/L	0.02	0.71	0.74	0.74	0.73	0.74

PARAMETER	UOM	LOR	QC02 09/02/21
			WATER - 9/2/2021 SE216342.012
Nitrate Nitrogen, NO3-N	mg/L	0.005	0.040
Chloride	mg/L	1	5.1
Sulfate, SO4	mg/L	1	1.6
Fluoride	mg/L	0.02	0.73

Nitrite in Water [AN277] Tested: 10/2/2021

			W01 09/02/21	W02 09/02/21	W03 09/02/21	W04 09/02/21	W05 09/02/21
			WATER - 9/2/2021	WATER - 9/2/2021	WATER - 9/2/2021	WATER - 9/2/2021	WATER - 9/2/2021
PARAMETER	UOM	LOR	SE216342.007	SE216342.008	SE216342.009	SE216342.010	SE216342.011
Nitrite Nitrogen, NO2 as N	mg/L	0.005	<0.005	<0.005	<0.005	<0.005	<0.005

			QC02 09/02/21
			WATER - 9/2/2021
PARAMETER	UOM	LOR	SE216342.012
Nitrite Nitrogen, NO2 as N	mg/L	0.005	<0.005

Filterable Reactive Phosphorus (FRP) [AN278] Tested: 10/2/2021

PARAMETER	UOM	LOR	W01 09/02/21 WATER - 9/2/2021 SE216342.007	W02 09/02/21 WATER - 9/2/2021 SE216342.008	W03 09/02/21 WATER - 9/2/2021 SE216342.009	W04 09/02/21 WATER - 9/2/2021 SE216342.010	W05 09/02/21 WATER - 9/2/2021 SE216342.011
Filterable Reactive Phosphorus as P	mg/L	0.005	<0.005	<0.005	<0.005	<0.005	<0.005

PARAMETER	UOM	LOR	QC02 09/02/21 WATER - 9/2/2021 SE216342.012
Filterable Reactive Phosphorus as P	mg/L	0.005	<0.005

pH in water [AN101] Tested: 10/2/2021

			W01 09/02/21	W02 09/02/21	W03 09/02/21	W04 09/02/21	W05 09/02/21
			WATER - 9/2/2021	WATER - 9/2/2021	WATER - 9/2/2021	WATER - 9/2/2021	WATER - 9/2/2021
PARAMETER	UOM	LOR	SE216342.007	SE216342.008	SE216342.009	SE216342.010	SE216342.011
pH**	No unit	-	8.7	7.5	7.1	7.0	7.0

			QC02 09/02/21
			WATER - 9/2/2021
PARAMETER	UOM	LOR	SE216342.012
pH**	No unit	-	6.9

Conductivity and TDS by Calculation - Water [AN106] Tested: 10/2/2021

PARAMETER	UOM	LOR	W01 09/02/21	W02 09/02/21	W03 09/02/21	W04 09/02/21	W05 09/02/21
			WATER - 9/2/2021 SE216342.007	WATER - 9/2/2021 SE216342.008	WATER - 9/2/2021 SE216342.009	WATER - 9/2/2021 SE216342.010	WATER - 9/2/2021 SE216342.011
Conductivity @ 25 C	µS/cm	2	100	92	89	90	92
Total Dissolved Solids (by calculation)	mg/L	2	60	55	53	54	55

PARAMETER	UOM	LOR	QC02 09/02/21
			WATER - 9/2/2021 SE216342.012
Conductivity @ 25 C	µS/cm	2	91
Total Dissolved Solids (by calculation)	mg/L	2	55

Alkalinity [AN135] Tested: 10/2/2021

PARAMETER	UOM	LOR	W01 09/02/21	W02 09/02/21	W03 09/02/21	W04 09/02/21	W05 09/02/21
			WATER - 9/2/2021 SE216342.007	WATER - 9/2/2021 SE216342.008	WATER - 9/2/2021 SE216342.009	WATER - 9/2/2021 SE216342.010	WATER - 9/2/2021 SE216342.011
Bicarbonate Alkalinity as CaCO3	mg/L	5	15	43	42	40	43
Carbonate Alkalinity as CaCO3	mg/L	1	34	<1	<1	<1	<1
Hydroxide Alkalinity as CaCO3	mg/L	5	<5	<5	<5	<5	<5
Phenolphthalein Alkalinity as CaCO3*	mg/L	5	17	<5	<5	<5	<5
Total Alkalinity as CaCO3	mg/L	5	48	43	42	40	43

PARAMETER	UOM	LOR	QC02 09/02/21
			WATER - 9/2/2021 SE216342.012
Bicarbonate Alkalinity as CaCO3	mg/L	5	44
Carbonate Alkalinity as CaCO3	mg/L	1	<1
Hydroxide Alkalinity as CaCO3	mg/L	5	<5
Phenolphthalein Alkalinity as CaCO3*	mg/L	5	<5
Total Alkalinity as CaCO3	mg/L	5	44

Acidity and Free CO2 [AN140] Tested: 10/2/2021

PARAMETER	UOM	LOR	W01 09/02/21 WATER - 9/2/2021 SE216342.007	W02 09/02/21 WATER - 9/2/2021 SE216342.008	W03 09/02/21 WATER - 9/2/2021 SE216342.009	W04 09/02/21 WATER - 9/2/2021 SE216342.010	W05 09/02/21 WATER - 9/2/2021 SE216342.011
Acidity to pH 8.3	mg CaCO3/L	5	<5	10	8	8	9

PARAMETER	UOM	LOR	QC02 09/02/21 WATER - 9/2/2021 SE216342.012
Acidity to pH 8.3	mg CaCO3/L	5	11



Metals in Water (Total) by ICPOES [AN022/AN320] Tested: 10/2/2021

PARAMETER	UOM	LOR	W01 09/02/21	W02 09/02/21	W03 09/02/21	W04 09/02/21	W05 09/02/21
			WATER - 9/2/2021 SE216342.007	WATER - 9/2/2021 SE216342.008	WATER - 9/2/2021 SE216342.009	WATER - 9/2/2021 SE216342.010	WATER - 9/2/2021 SE216342.011
Total Calcium	mg/L	0.1	10	14	14	13	14
Total Magnesium	mg/L	0.1	5.5	1.3	1.3	1.3	1.3
Total Sodium	mg/L	0.1	3.4	3.1	3.1	3.1	3.0
Total Potassium	mg/L	0.2	0.7	0.8	0.8	0.8	0.8

PARAMETER	UOM	LOR	QC02 09/02/21
			WATER - 9/2/2021 SE216342.012
Total Calcium	mg/L	0.1	15
Total Magnesium	mg/L	0.1	1.3
Total Sodium	mg/L	0.1	3.1
Total Potassium	mg/L	0.2	0.8

Trace Metals (Total) in Water by ICPMS [AN022/AN318] Tested: 10/2/2021

PARAMETER	UOM	LOR	W01 08/02/21	W02 08/02/21	W03 08/02/21	W04 08/02/21	W05 08/02/21
			WATER	WATER	WATER	WATER	WATER
			8/2/2021	8/2/2021	8/2/2021	8/2/2021	8/2/2021
			SE216342.001	SE216342.002	SE216342.003	SE216342.004	SE216342.005
Total Aluminium	µg/L	5	-	-	-	-	-
Total Arsenic	µg/L	1	-	-	-	-	-
Total Cadmium	µg/L	0.1	-	-	-	-	-
Total Chromium	µg/L	1	-	-	-	-	-
Total Iron	µg/L	5	-	-	-	-	-
Total Copper	µg/L	1	-	-	-	-	-
Total Nickel	µg/L	1	-	-	-	-	-
Total Lead	µg/L	1	<1	<1	<1	<1	<1
Total Zinc	µg/L	5	-	-	-	-	-

PARAMETER	UOM	LOR	QC01 08/02/21	W01 09/02/21	W02 09/02/21	W03 09/02/21	W04 09/02/21
			WATER	WATER	WATER	WATER	WATER
			8/2/2021	9/2/2021	9/2/2021	9/2/2021	9/2/2021
			SE216342.006	SE216342.007	SE216342.008	SE216342.009	SE216342.010
Total Aluminium	µg/L	5	-	9	32	24	18
Total Arsenic	µg/L	1	-	<1	<1	<1	<1
Total Cadmium	µg/L	0.1	-	<0.1	<0.1	<0.1	0.2
Total Chromium	µg/L	1	-	<1	<1	2	<1
Total Iron	µg/L	5	-	16	19	25	7
Total Copper	µg/L	1	-	22	20	130	250
Total Nickel	µg/L	1	-	<1	<1	<1	<1
Total Lead	µg/L	1	<1	<1	<1	<1	<1
Total Zinc	µg/L	5	-	7	9	10	10

PARAMETER	UOM	LOR	W05 09/02/21	QC02 09/02/21
			WATER	WATER
			9/2/2021	9/2/2021
			SE216342.011	SE216342.012
Total Aluminium	µg/L	5	28	29
Total Arsenic	µg/L	1	<1	<1
Total Cadmium	µg/L	0.1	<0.1	<0.1
Total Chromium	µg/L	1	<1	<1
Total Iron	µg/L	5	17	14
Total Copper	µg/L	1	88	89
Total Nickel	µg/L	1	<1	<1
Total Lead	µg/L	1	<1	<1
Total Zinc	µg/L	5	11	10

Mercury (total) in Water [AN311(Perth) /AN312] Tested: 11/2/2021

PARAMETER	UOM	LOR	W01 09/02/21	W02 09/02/21	W03 09/02/21	W04 09/02/21	W05 09/02/21
			WATER - 9/2/2021 SE216342.007	WATER - 9/2/2021 SE216342.008	WATER - 9/2/2021 SE216342.009	WATER - 9/2/2021 SE216342.010	WATER - 9/2/2021 SE216342.011
Soluble Mercury slave analyte from EW_APHA3112B	mg/L	0.0001	-	-	-	-	-
Total Mercury	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001

PARAMETER	UOM	LOR	QC02 09/02/21
			WATER - 9/2/2021 SE216342.012
Soluble Mercury slave analyte from EW_APHA3112B	mg/L	0.0001	-
Total Mercury	mg/L	0.0001	<0.0001

Sample Subcontracted [] Tested: 15/2/2021

			W01 09/02/21	W02 09/02/21	W03 09/02/21	W04 09/02/21	W05 09/02/21
PARAMETER	UOM	LOR	WATER - 9/2/2021 SE216342.007	WATER - 9/2/2021 SE216342.008	WATER - 9/2/2021 SE216342.009	WATER - 9/2/2021 SE216342.010	WATER - 9/2/2021 SE216342.011
Sample Subcontracted*	No unit	-	Subcontracted	Subcontracted	Subcontracted	Subcontracted	Subcontracted

			QC02 09/02/21
PARAMETER	UOM	LOR	WATER - 9/2/2021 SE216342.012
Sample Subcontracted*	No unit	-	Subcontracted

METHOD

METHODOLOGY SUMMARY

**AN022/AN318**

Following acid digestion of un filtered sample, determination of elements at trace level in waters by ICP-MS technique, referenced to USEPA 6020B and USEPA 200.8 (5.4).

**AN022/AN320**

Total (acid soluble) Metals by ICP-OES: Samples are digested in nitric or nitric and hydrochloric acids prior to analysis for a wide range of metals and some non-metals. This solution is measured by Inductively Coupled Plasma. Solutions are aspirated into an argon plasma at 8000-10000K and emit characteristic energy or light as a result of electron transitions through unique energy levels. The emitted light is focused onto a diffraction grating where it is separated into components.

**AN022**

The water sample is digested with Nitric Acid and made up to the original volume similar to APHA3030E.

**AN101**

pH in Soil Sludge Sediment and Water: pH is measured electrometrically using a combination electrode (glass plus reference electrode) and is calibrated against 3 buffers purchased commercially. For soils, an extract with water is made at a ratio of 1:5 and the pH determined and reported on the extract. Reference APHA 4500-H+.

**AN106**

Conductivity and TDS by Calculation: Conductivity is measured by meter with temperature compensation and is calibrated against a standard solution of potassium chloride. Conductivity is generally reported as  $\mu\text{mhos/cm}$  or  $\mu\text{S/cm}$  @ 25°C. For soils, an extract with water is made at a ratio of 1:5 and the EC determined and reported on the extract, or calculated back to the as-received sample. Total Dissolved Salts can be estimated from conductivity using a conversion factor, which for natural waters, is in the range 0.55 to 0.75. SGS use 0.6. Reference APHA 2510 B.

**AN106**

Salinity may be calculated in terms of NaCl from the sample conductivity. This assumes all soluble salts present, measured by the conductivity, are present as NaCl.

**AN135**

Alkalinity (and forms of) by Titration: The sample is titrated with standard acid to pH 8.3 (P titre) and pH 4.5 (T titre) and permanent and/or total alkalinity calculated. The results are expressed as equivalents of calcium carbonate or recalculated as bicarbonate, carbonate and hydroxide. Reference APHA 2320. Internal Reference AN135

**AN140**

Acidity by Titration: The water sample is titrated with sodium hydroxide to designated pH end point. In a sample containing only carbon dioxide, bicarbonates and carbonates, titration to pH 8.3 at 25°C corresponds to stoichiometric neutralisation of carbonic acid to bicarbonate. Method reference APHA 2310 B.

**AN245**

Anions by Ion Chromatography: A water sample is injected into an eluent stream that passes through the ion chromatographic system where the anions of interest ie Br, Cl, NO<sub>2</sub>, NO<sub>3</sub> and SO<sub>4</sub> are separated on their relative affinities for the active sites on the column packing material. Changes to the conductivity and the UV-visible absorbance of the eluent enable identification and quantitation of the anions based on their retention time and peak height or area. APHA 4110 B

**AN277/WC250.312**

Nitrite ions, when reacted with a reagent containing sulphanilamide and N-(1-naphthyl)-ethylenediamine dihydrochloride produce a highly coloured azo dye that is measured photometrically at 540nm.

**AN278**

Filterable Reactive Phosphorus by DA (determined on filtered sample): Orthophosphate reacts with ammonium molybdate (Mo VI) and potassium antimonyl tartrate (Sb III) in acid medium to form an imony-phosphomolybdate complex. This complex is subsequently reduced with ascorbic acid to form a blue colour and the absorbance is read at 880 nm. The sensitivity of the automated method is 10-20 times that of the macro method. Reference APHA 4500-P F

**AN311(Perth) /AN312**

Mercury by Cold Vapour AAS in Waters: Mercury ions taken from unfiltered sample are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500.

**AN320**

Photomultipliers or CCDs are used to measure the light intensity at specific wavelengths. This intensity is directly proportional to concentration. Corrections are required to compensate for spectral overlap between elements. Reference APHA 3120 B.

**Calculation**

Free and Total Carbon Dioxide may be calculated using alkalinity forms only when the samples TDS is <500mg/L. If TDS is >500mg/L free or total carbon dioxide cannot be reported. APHA4500CO<sub>2</sub> D.

FOOTNOTES

*	NATA accreditation does not cover the performance of this service.	-	Not analysed.	UOM	Unit of Measure.
**	Indicative data, theoretical holding time exceeded.	NVL	Not validated.	LOR	Limit of Reporting.
***	Indicates that both * and ** apply.	IS	Insufficient sample for analysis.	↑↓	Raised/lowered Limit of Reporting.
		LNR	Sample listed, but not received.		

Unless it is reported that sampling has been performed by SGS, the samples have been analysed as received. Solid samples expressed on a dry weight basis.

Where "Total" analyte groups are reported (for example, Total PAHs, Total OC Pesticides) the total will be calculated as the sum of the individual analytes, with those analytes that are reported as <LOR being assumed to be zero. The summed (Total) limit of reporting is calculated by summing the individual analyte LORs and dividing by two. For example, where 16 individual analytes are being summed and each has an LOR of 0.1 mg/kg, the "Totals" LOR will be 1.6 / 2 (0.8 mg/kg). Where only 2 analytes are being summed, the "Total" LOR will be the sum of those two LORs.

Some totals may not appear to add up because the total is rounded after adding up the raw values.

If reported, measurement uncertainty follow the ± sign after the analytical result and is expressed as the expanded uncertainty calculated using a coverage factor of 2, providing a level of confidence of approximately 95%, unless stated otherwise in the comments section of this report.

Results reported for samples tested under test methods with codes starting with ARS-SOP, radionuclide or gross radioactivity concentrations are expressed in becquerel (Bq) per unit of mass or volume or per wipe as stated on the report. Becquerel is the SI unit for activity and equals one nuclear transformation per second.

Note that in terms of units of radioactivity:

- a. 1 Bq is equivalent to 27 pCi
- b. 37 MBq is equivalent to 1 mCi

For results reported for samples tested under test methods with codes starting with ARS-SOP, less than (<) values indicate the detection limit for each radionuclide or parameter for the measurement system used. The respective detection limits have been calculated in accordance with ISO 11929.

The QC and MU criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: [www.sgs.com.au/en-gb/environment-health-and-safety](http://www.sgs.com.au/en-gb/environment-health-and-safety).

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**CLIENT DETAILS**

**LABORATORY DETAILS**

Contact	Schedule 2.2(a)(i)	Manager	Schedule 2.2(a)(i)
Client	Robson Environmental Pty Ltd	Laboratory	SGS Alexandria Environmental
Address	140 Gladstone Street, FYSHWICK PO Box 112, FYSHWICK ACT 2609	Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	(02) 6239 5656	Telephone	+61 2 8594 0400
Facsimile	(02) 6239 5669	Facsimile	+61 2 8594 0499
Email	Schedule 2.2(a)(ii)	Email	au.environmental.sydney@sgs.com
Project	<b>T10589 Water Quality Testing</b>	SGS Reference	<b>SE216342 R0</b>
Order Number	<b>T10589</b>	Date Received	10 Feb 2021
Samples	12	Date Reported	15 Feb 2021

**COMMENTS**

All the laboratory data for each environmental matrix was compared to SGS' stated Data Quality Objectives (DQO). Comments arising from the comparison were made and are reported below.

The data relating to sampling was taken from the Chain of Custody document.  
This QA/QC Statement must be read in conjunction with the referenced Analytical Report.  
The Statement and the Analytical Report must not be reproduced except in full.

All Data Quality Objectives were met with the exception of the following:

Analysis Date	Acidity and Free CO2	6 items
	pH in water	6 items

**SAMPLE SUMMARY**

Samples clearly labelled	Yes	Complete documentation received	Yes
Sample container provider	SGS	Sample cooling method	Ice Bricks
Samples received in correct containers	Yes	Sample counts by matrix	12 Water
Date documentation received	10/2/2021	Type of documentation received	COC
Samples received in good order	Yes	Samples received without headspace	Yes
Sample temperature upon receipt	12.7°C	Sufficient sample for analysis	Yes
Turnaround time requested	Next Day/2 Day		

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

### Acidity and Free CO2

Method: ME-(AU)-[ENV]AN140

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
W01 09/02/21	SE216342.007	LB218318	09 Feb 2021	10 Feb 2021	10 Feb 2021	10 Feb 2021	10 Feb 2021	11 Feb 2021†
W02 09/02/21	SE216342.008	LB218318	09 Feb 2021	10 Feb 2021	10 Feb 2021	10 Feb 2021	10 Feb 2021	11 Feb 2021†
W03 09/02/21	SE216342.009	LB218318	09 Feb 2021	10 Feb 2021	10 Feb 2021	10 Feb 2021	10 Feb 2021	11 Feb 2021†
W04 09/02/21	SE216342.010	LB218318	09 Feb 2021	10 Feb 2021	10 Feb 2021	10 Feb 2021	10 Feb 2021	11 Feb 2021†
W05 09/02/21	SE216342.011	LB218318	09 Feb 2021	10 Feb 2021	10 Feb 2021	10 Feb 2021	10 Feb 2021	11 Feb 2021†
QC02 09/02/21	SE216342.012	LB218318	09 Feb 2021	10 Feb 2021	10 Feb 2021	10 Feb 2021	10 Feb 2021	11 Feb 2021†

### Alkalinity

Method: ME-(AU)-[ENV]AN135

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
W01 09/02/21	SE216342.007	LB218328	09 Feb 2021	10 Feb 2021	23 Feb 2021	10 Feb 2021	23 Feb 2021	10 Feb 2021
W02 09/02/21	SE216342.008	LB218328	09 Feb 2021	10 Feb 2021	23 Feb 2021	10 Feb 2021	23 Feb 2021	10 Feb 2021
W03 09/02/21	SE216342.009	LB218328	09 Feb 2021	10 Feb 2021	23 Feb 2021	10 Feb 2021	23 Feb 2021	10 Feb 2021
W04 09/02/21	SE216342.010	LB218328	09 Feb 2021	10 Feb 2021	23 Feb 2021	10 Feb 2021	23 Feb 2021	10 Feb 2021
W05 09/02/21	SE216342.011	LB218328	09 Feb 2021	10 Feb 2021	23 Feb 2021	10 Feb 2021	23 Feb 2021	10 Feb 2021
QC02 09/02/21	SE216342.012	LB218328	09 Feb 2021	10 Feb 2021	23 Feb 2021	10 Feb 2021	23 Feb 2021	10 Feb 2021

### Anions by Ion Chromatography in Water

Method: ME-(AU)-[ENV]AN245

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
W01 09/02/21	SE216342.007	LB218391	09 Feb 2021	10 Feb 2021	09 Mar 2021	11 Feb 2021	09 Mar 2021	11 Feb 2021
W02 09/02/21	SE216342.008	LB218391	09 Feb 2021	10 Feb 2021	09 Mar 2021	11 Feb 2021	09 Mar 2021	11 Feb 2021
W03 09/02/21	SE216342.009	LB218391	09 Feb 2021	10 Feb 2021	09 Mar 2021	11 Feb 2021	09 Mar 2021	11 Feb 2021
W04 09/02/21	SE216342.010	LB218391	09 Feb 2021	10 Feb 2021	09 Mar 2021	11 Feb 2021	09 Mar 2021	11 Feb 2021
W05 09/02/21	SE216342.011	LB218391	09 Feb 2021	10 Feb 2021	09 Mar 2021	11 Feb 2021	09 Mar 2021	11 Feb 2021
QC02 09/02/21	SE216342.012	LB218391	09 Feb 2021	10 Feb 2021	09 Mar 2021	11 Feb 2021	09 Mar 2021	11 Feb 2021

### Conductivity and TDS by Calculation - Water

Method: ME-(AU)-[ENV]AN106

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
W01 09/02/21	SE216342.007	LB218317	09 Feb 2021	10 Feb 2021	09 Mar 2021	10 Feb 2021	09 Mar 2021	11 Feb 2021
W02 09/02/21	SE216342.008	LB218317	09 Feb 2021	10 Feb 2021	09 Mar 2021	10 Feb 2021	09 Mar 2021	11 Feb 2021
W03 09/02/21	SE216342.009	LB218317	09 Feb 2021	10 Feb 2021	09 Mar 2021	10 Feb 2021	09 Mar 2021	11 Feb 2021
W04 09/02/21	SE216342.010	LB218317	09 Feb 2021	10 Feb 2021	09 Mar 2021	10 Feb 2021	09 Mar 2021	11 Feb 2021
W05 09/02/21	SE216342.011	LB218317	09 Feb 2021	10 Feb 2021	09 Mar 2021	10 Feb 2021	09 Mar 2021	11 Feb 2021
QC02 09/02/21	SE216342.012	LB218317	09 Feb 2021	10 Feb 2021	09 Mar 2021	10 Feb 2021	09 Mar 2021	11 Feb 2021

### Filterable Reactive Phosphorus (FRP)

Method: ME-(AU)-[ENV]AN278

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
W01 09/02/21	SE216342.007	LB218321	09 Feb 2021	10 Feb 2021	09 Mar 2021	10 Feb 2021	09 Mar 2021	10 Feb 2021
W02 09/02/21	SE216342.008	LB218321	09 Feb 2021	10 Feb 2021	09 Mar 2021	10 Feb 2021	09 Mar 2021	10 Feb 2021
W03 09/02/21	SE216342.009	LB218321	09 Feb 2021	10 Feb 2021	09 Mar 2021	10 Feb 2021	09 Mar 2021	10 Feb 2021
W04 09/02/21	SE216342.010	LB218321	09 Feb 2021	10 Feb 2021	09 Mar 2021	10 Feb 2021	09 Mar 2021	10 Feb 2021
W05 09/02/21	SE216342.011	LB218321	09 Feb 2021	10 Feb 2021	09 Mar 2021	10 Feb 2021	09 Mar 2021	10 Feb 2021
QC02 09/02/21	SE216342.012	LB218321	09 Feb 2021	10 Feb 2021	09 Mar 2021	10 Feb 2021	09 Mar 2021	10 Feb 2021

### Mercury (total) In Water

Method: ME-(AU)-[ENV]AN311(Perth) /AN312

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
W01 09/02/21	SE216342.007	LB218394	09 Feb 2021	10 Feb 2021	09 Mar 2021	11 Feb 2021	09 Mar 2021	11 Feb 2021
W02 09/02/21	SE216342.008	LB218394	09 Feb 2021	10 Feb 2021	09 Mar 2021	11 Feb 2021	09 Mar 2021	11 Feb 2021
W03 09/02/21	SE216342.009	LB218394	09 Feb 2021	10 Feb 2021	09 Mar 2021	11 Feb 2021	09 Mar 2021	11 Feb 2021
W04 09/02/21	SE216342.010	LB218394	09 Feb 2021	10 Feb 2021	09 Mar 2021	11 Feb 2021	09 Mar 2021	11 Feb 2021
W05 09/02/21	SE216342.011	LB218394	09 Feb 2021	10 Feb 2021	09 Mar 2021	11 Feb 2021	09 Mar 2021	11 Feb 2021
QC02 09/02/21	SE216342.012	LB218394	09 Feb 2021	10 Feb 2021	09 Mar 2021	11 Feb 2021	09 Mar 2021	11 Feb 2021

### Metals in Water (Total) by ICPOES

Method: ME-(AU)-[ENV]AN022/AN320

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
W01 09/02/21	SE216342.007	LB218351	09 Feb 2021	10 Feb 2021	08 Aug 2021	10 Feb 2021	08 Aug 2021	11 Feb 2021
W02 09/02/21	SE216342.008	LB218351	09 Feb 2021	10 Feb 2021	08 Aug 2021	10 Feb 2021	08 Aug 2021	11 Feb 2021
W03 09/02/21	SE216342.009	LB218351	09 Feb 2021	10 Feb 2021	08 Aug 2021	10 Feb 2021	08 Aug 2021	11 Feb 2021
W04 09/02/21	SE216342.010	LB218351	09 Feb 2021	10 Feb 2021	08 Aug 2021	10 Feb 2021	08 Aug 2021	11 Feb 2021
W05 09/02/21	SE216342.011	LB218351	09 Feb 2021	10 Feb 2021	08 Aug 2021	10 Feb 2021	08 Aug 2021	11 Feb 2021
QC02 09/02/21	SE216342.012	LB218351	09 Feb 2021	10 Feb 2021	08 Aug 2021	10 Feb 2021	08 Aug 2021	11 Feb 2021

### Nitrite in Water

Method: ME-(AU)-[ENV]AN277

Sample Name	Sample No.	QC Ref
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SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

### Nitrite in Water (continued)

Method: ME-(AU)-[ENV]AN277

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
W01 09/02/21	SE216342.007	LB218321	09 Feb 2021	10 Feb 2021	13 Feb 2021	10 Feb 2021	13 Feb 2021	10 Feb 2021
W02 09/02/21	SE216342.008	LB218321	09 Feb 2021	10 Feb 2021	13 Feb 2021	10 Feb 2021	13 Feb 2021	10 Feb 2021
W03 09/02/21	SE216342.009	LB218321	09 Feb 2021	10 Feb 2021	13 Feb 2021	10 Feb 2021	13 Feb 2021	10 Feb 2021
W04 09/02/21	SE216342.010	LB218321	09 Feb 2021	10 Feb 2021	13 Feb 2021	10 Feb 2021	13 Feb 2021	10 Feb 2021
W05 09/02/21	SE216342.011	LB218321	09 Feb 2021	10 Feb 2021	13 Feb 2021	10 Feb 2021	13 Feb 2021	10 Feb 2021
QC02 09/02/21	SE216342.012	LB218321	09 Feb 2021	10 Feb 2021	13 Feb 2021	10 Feb 2021	13 Feb 2021	10 Feb 2021

### pH in water

Method: ME-(AU)-[ENV]AN101

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
W01 09/02/21	SE216342.007	LB218317	09 Feb 2021	10 Feb 2021	10 Feb 2021	10 Feb 2021	10 Feb 2021	11 Feb 2021†
W02 09/02/21	SE216342.008	LB218317	09 Feb 2021	10 Feb 2021	10 Feb 2021	10 Feb 2021	10 Feb 2021	11 Feb 2021†
W03 09/02/21	SE216342.009	LB218317	09 Feb 2021	10 Feb 2021	10 Feb 2021	10 Feb 2021	10 Feb 2021	11 Feb 2021†
W04 09/02/21	SE216342.010	LB218317	09 Feb 2021	10 Feb 2021	10 Feb 2021	10 Feb 2021	10 Feb 2021	11 Feb 2021†
W05 09/02/21	SE216342.011	LB218317	09 Feb 2021	10 Feb 2021	10 Feb 2021	10 Feb 2021	10 Feb 2021	11 Feb 2021†
QC02 09/02/21	SE216342.012	LB218317	09 Feb 2021	10 Feb 2021	10 Feb 2021	10 Feb 2021	10 Feb 2021	11 Feb 2021†

### Trace Metals (Total) in Water by ICPMS

Method: ME-(AU)-[ENV]AN022/AN318

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
W01 08/02/21	SE216342.001	LB218347	08 Feb 2021	10 Feb 2021	07 Aug 2021	10 Feb 2021	07 Aug 2021	11 Feb 2021
W02 08/02/21	SE216342.002	LB218347	08 Feb 2021	10 Feb 2021	07 Aug 2021	10 Feb 2021	07 Aug 2021	11 Feb 2021
W03 08/02/21	SE216342.003	LB218347	08 Feb 2021	10 Feb 2021	07 Aug 2021	10 Feb 2021	07 Aug 2021	11 Feb 2021
W04 08/02/21	SE216342.004	LB218347	08 Feb 2021	10 Feb 2021	07 Aug 2021	10 Feb 2021	07 Aug 2021	11 Feb 2021
W05 08/02/21	SE216342.005	LB218347	08 Feb 2021	10 Feb 2021	07 Aug 2021	10 Feb 2021	07 Aug 2021	11 Feb 2021
QC01 08/02/21	SE216342.006	LB218347	08 Feb 2021	10 Feb 2021	07 Aug 2021	10 Feb 2021	07 Aug 2021	11 Feb 2021
W01 09/02/21	SE216342.007	LB218347	09 Feb 2021	10 Feb 2021	08 Aug 2021	10 Feb 2021	08 Aug 2021	11 Feb 2021
W02 09/02/21	SE216342.008	LB218347	09 Feb 2021	10 Feb 2021	08 Aug 2021	10 Feb 2021	08 Aug 2021	11 Feb 2021
W03 09/02/21	SE216342.009	LB218347	09 Feb 2021	10 Feb 2021	08 Aug 2021	10 Feb 2021	08 Aug 2021	11 Feb 2021
W04 09/02/21	SE216342.010	LB218347	09 Feb 2021	10 Feb 2021	08 Aug 2021	10 Feb 2021	08 Aug 2021	11 Feb 2021
W05 09/02/21	SE216342.011	LB218347	09 Feb 2021	10 Feb 2021	08 Aug 2021	10 Feb 2021	08 Aug 2021	11 Feb 2021
QC02 09/02/21	SE216342.012	LB218347	09 Feb 2021	10 Feb 2021	08 Aug 2021	10 Feb 2021	08 Aug 2021	11 Feb 2021

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

No surrogates were required for this job.

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Acidity and Free CO2

Method: ME-(AU)-[ENV]AN140

Sample Number	Parameter	Units	LOR	Result
LB218318.001	Acidity to pH 8.3	mg CaCO3/L	5	<5

Alkalinity

Method: ME-(AU)-[ENV]AN135

Sample Number	Parameter	Units	LOR	Result
LB218328.001	Bicarbonate Alkalinity as CaCO3	mg/L	5	<5
	Carbonate Alkalinity as CaCO3	mg/L	1	<1
	Total Alkalinity as CaCO3	mg/L	5	<5

Anions by Ion Chromatography in Water

Method: ME-(AU)-[ENV]AN245

Sample Number	Parameter	Units	LOR	Result
LB218391.001	Nitrate Nitrogen, NO3-N	mg/L	0.005	<0.005
	Chloride	mg/L	1	<0.05
	Sulfate, SO4	mg/L	1	<1.0
	Fluoride	mg/L	0.02	<0.10

Conductivity and TDS by Calculation - Water

Method: ME-(AU)-[ENV]AN106

Sample Number	Parameter	Units	LOR	Result
LB218317.001	Conductivity @ 25 C	µS/cm	2	<2
	Total Dissolved Solids (by calculation)	mg/L	2	<2

Filterable Reactive Phosphorus (FRP)

Method: ME-(AU)-[ENV]AN278

Sample Number	Parameter	Units	LOR	Result
LB218321.001	Filterable Reactive Phosphorus as P	mg/L	0.005	<0.005

Metals in Water (Total) by ICPOES

Method: ME-(AU)-[ENV]AN022/AN320

Sample Number	Parameter	Units	LOR	Result
LB218351.001	Total Calcium	mg/L	0.1	<0.1
	Total Magnesium	mg/L	0.1	<0.1
	Total Potassium	mg/L	0.2	<0.2
	Total Sodium	mg/L	0.1	<0.1

Nitrite in Water

Method: ME-(AU)-[ENV]AN277

Sample Number	Parameter	Units	LOR	Result
LB218321.001	Nitrite Nitrogen, NO2 as N	mg/L	0.005	<0.005

Trace Metals (Total) in Water by ICPMS

Method: ME-(AU)-[ENV]AN022/AN318

Sample Number	Parameter	Units	LOR	Result
LB218347.001	Total Aluminium	µg/L	5	<5
	Total Arsenic	µg/L	1	<1
	Total Cadmium	µg/L	0.1	<0.1
	Total Copper	µg/L	1	<1
	Total Lead	µg/L	1	<1
	Total Nickel	µg/L	1	<1
	Total Zinc	µg/L	5	<5

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula:  $RPD = |OriginalResult - ReplicateResult| \times 100 / Mean$

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula:  $MAD = 100 \times SDL / Mean + LR$

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

NOTE: The RPD reported is calculated from the unrounded data for the original and replicate result. Manual calculation of the RPD from the rounded data reported may give a different calculated RPD.

Acidity and Free CO2

Method: ME-(AU)-[ENV]JAN140

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE216342.012	LB218318.009	Acidity to pH 8.3	mg CaCO3/L	5	11	10	64	9

Alkalinity

Method: ME-(AU)-[ENV]JAN135

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE216265.003	LB218328.013	Bicarbonate Alkalinity as CaCO3	mg/L	5	23.64768	22.45536	37	5
		Carbonate Alkalinity as CaCO3	mg/L	1	0	0	200	0
		Total Alkalinity as CaCO3	mg/L	5	24	22	37	5
SE216265.006	LB218328.017	Bicarbonate Alkalinity as CaCO3	mg/L	5	40.88664	38.20392	28	7
		Carbonate Alkalinity as CaCO3	mg/L	1	0	0	200	0
		Total Alkalinity as CaCO3	mg/L	5	41	38	28	7

Anions by Ion Chromatography in Water

Method: ME-(AU)-[ENV]JAN245

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE216343.001	LB218391.015	Sulfate, SO4	mg/L	1	6.12	5.54	32	10
SE216343.002	LB218391.017	Sulfate, SO4	mg/L	1	9.97	9.57	25	4

Metals in Water (Total) by ICPOES

Method: ME-(AU)-[ENV]JAN022/AN320

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE216342.012	LB218351.010	Total Calcium	mg/L	0.1	15	14	16	2
		Total Magnesium	mg/L	0.1	1.3	1.3	23	2
		Total Potassium	mg/L	0.2	0.8	0.8	27	5
		Total Sodium	mg/L	0.1	3.1	3.0	31	4

pH in water

Method: ME-(AU)-[ENV]JAN101

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE216343.002	LB218317.012	pH**	pH Units	-	6.393	6.489	17	1

Trace Metals (Total) in Water by ICPMS

Method: ME-(AU)-[ENV]JAN022/AN318

Original	Duplicate	Parameter	Units	LOR	Original	Duplicate	Criteria %	RPD %
SE216342.010	LB218347.014	Total Aluminium	µg/L	5	18	18	43	2
		Total Arsenic	µg/L	1	<1	<1	200	0
		Total Cadmium	µg/L	0.1	0.2	0.2	61	0
		Total Chromium	µg/L	1	<1	<1	200	0
		Total Copper	µg/L	1	250	260	15	1
		Total Iron	µg/L	5	7	7	88	1
		Total Lead	µg/L	1	<1	<1	200	0
		Total Nickel	µg/L	1	<1	<1	200	0
		Total Zinc	µg/L	5	10	10	65	2
		SE216342.012	LB218347.017	Total Aluminium	µg/L	5	29	29
Total Arsenic	µg/L			1	<1	<1	200	0
Total Cadmium	µg/L			0.1	<0.1	<0.1	200	0
Total Chromium	µg/L			1	<1	<1	200	0
Total Copper	µg/L			1	89	89	16	0
Total Iron	µg/L			5	14	14	50	0
Total Lead	µg/L			1	<1	<1	200	0
Total Nickel	µg/L			1	<1	<1	200	0
Total Zinc	µg/L			5	10	11	63	5

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Acidity and Free CO2

Method: ME-(AU)-[ENV]AN140

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB218318.002	Acidity to pH 8.3	mg CaCO3/L	5	230	250	80 - 120	93

Alkalinity

Method: ME-(AU)-[ENV]AN135

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB218328.002	Total Alkalinity as CaCO3	mg/L	5	67	59.5	76 - 124	112

Anions by Ion Chromatography in Water

Method: ME-(AU)-[ENV]AN245

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB218391.002	Nitrate Nitrogen, NO3-N	mg/L	0.005	1.9	2	80 - 120	94
	Chloride	mg/L	1	18	20	80 - 120	91
	Sulfate, SO4	mg/L	1	19	20	80 - 120	93
	Fluoride	mg/L	0.02	2.1	2	80 - 120	104

Conductivity and TDS by Calculation - Water

Method: ME-(AU)-[ENV]AN106

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB218317.002	Conductivity @ 25 C	µS/cm	2	300	303	90 - 110	99
	Total Dissolved Solids (by calculation)	mg/L	2	180	181	85 - 115	100

Filterable Reactive Phosphorus (FRP)

Method: ME-(AU)-[ENV]AN278

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB218321.002	Filterable Reactive Phosphorus as P	mg/L	0.005	0.090	0.1	80 - 120	90

Metals in Water (Total) by ICPOES

Method: ME-(AU)-[ENV]AN022/AN320

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB218351.002	Total Calcium	mg/L	0.1	50	50.5	80 - 120	100
	Total Magnesium	mg/L	0.1	48	50.5	80 - 120	95
	Total Potassium	mg/L	0.2	51	55	80 - 120	93
	Total Sodium	mg/L	0.1	49	50.5	80 - 120	98

Nitrite in Water

Method: ME-(AU)-[ENV]AN277

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB218321.002	Nitrite Nitrogen, NO2 as N	mg/L	0.005	0.10	0.1	80 - 120	102

pH in water

Method: ME-(AU)-[ENV]AN101

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB218317.003	pH**	No unit	-	7.4	7.415	98 - 102	99

Trace Metals (Total) in Water by ICPMS

Method: ME-(AU)-[ENV]AN022/AN318

Sample Number	Parameter	Units	LOR	Result	Expected	Criteria %	Recovery %
LB218347.002	Total Aluminium	µg/L	5	23	20	80 - 120	114
	Total Arsenic	µg/L	1	17	20	80 - 120	86
	Total Cadmium	µg/L	0.1	20	20	80 - 120	99
	Total Chromium	µg/L	1	22	20	80 - 120	108
	Total Copper	µg/L	1	22	20	80 - 120	110
	Total Iron	µg/L	5	23	20	80 - 120	117
	Total Lead	µg/L	1	18	20	80 - 120	92
	Total Nickel	µg/L	1	21	20	80 - 120	105
	Total Zinc	µg/L	5	20	20	80 - 120	101

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub-sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

Anions by Ion Chromatography in Water

Method: ME-(AU)-[ENV]AN245

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE216342.007	LB218391.005	Nitrate Nitrogen, NO3-N	mg/L	0.005	2.0	0.047	2	95
		Chloride	mg/L	1	24	5.2	20	96
		Sulfate, SO4	mg/L	1	24	4.4	20	96
		Fluoride	mg/L	0.02	2.8	0.71	2	105

Filterable Reactive Phosphorus (FRP)

Method: ME-(AU)-[ENV]AN278

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE216342.007	LB218321.004	Filterable Reactive Phosphorus as P	mg/L	0.005	0.090	<0.005	0.1	91

Mercury (total) in Water

Method: ME-(AU)-[ENV]AN311(Perth) /AN312

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE216342.007	LB218394.004	Total Mercury	mg/L	0.0001	0.0017	<0.0001	-	-

Metals in Water (Total) by ICPOES

Method: ME-(AU)-[ENV]AN022/AN320

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE216342.007	LB218351.004	Total Calcium	mg/L	0.1	64	10	50.5	106
		Total Magnesium	mg/L	0.1	59	5.5	50.5	106
		Total Potassium	mg/L	0.2	55	0.7	55	99
		Total Sodium	mg/L	0.1	60	3.4	50.5	112

Nitrite in Water

Method: ME-(AU)-[ENV]AN277

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE216342.007	LB218321.004	Nitrite Nitrogen, NO2 as N	mg/L	0.005	0.10	<0.005	0.1	100

Trace Metals (Total) in Water by ICPMS

Method: ME-(AU)-[ENV]AN022/AN318

QC Sample	Sample Number	Parameter	Units	LOR	Result	Original	Spike	Recovery%
SE216342.001	LB218347.004	Total Lead	µg/L	1	21	<1	20	102

Matrix spike duplicates are calculated as Relative Percent Difference (RPD) using the formula:  $RPD = | \text{OriginalResult} - \text{ReplicateResult} | \times 100 / \text{Mean}$

The original result is the analyte concentration of the matrix spike. The Duplicate result is the analyte concentration of the matrix spike duplicate.

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula:  $MAD = 100 \times \text{SDL} / \text{Mean} + \text{LR}$

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifier when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

No matrix spike duplicates were required for this job.

Samples analysed as received.

Solid samples expressed on a dry weight basis.

QC criteria are subject to internal review according to the SGS QA/QC plan and may be provided on request or alternatively can be found here: [https://www.sgs.com.au/~media/Local/Australia/Documents/Technical Documents/MP-AU-ENV-QU-022\\_QA\\_QC\\_Plan.pdf](https://www.sgs.com.au/~media/Local/Australia/Documents/Technical Documents/MP-AU-ENV-QU-022_QA_QC_Plan.pdf)

- \* NATA accreditation does not cover the performance of this service .
  - \*\* Indicative data, theoretical holding time exceeded.
  - \*\*\* Indicates that both \* and \*\* apply.
  - Sample not analysed for this analyte.
  - IS Insufficient sample for analysis.
  - LNR Sample listed, but not received.
  - LOR Limit of reporting.
  - QFH QC result is above the upper tolerance.
  - QFL QC result is below the lower tolerance.
- 
- ① At least 2 of 3 surrogates are within acceptance criteria.
  - ② RPD failed acceptance criteria due to sample heterogeneity.
  - ③ Results less than 5 times LOR preclude acceptance criteria for RPD.
  - ④ Recovery failed acceptance criteria due to matrix interference.
  - ⑤ Recovery failed acceptance criteria due to the presence of significant concentration of analyte (i.e. the concentration of analyte exceeds the spike level).
  - ⑥ LOR was raised due to sample matrix interference.
  - ⑦ LOR was raised due to dilution of significantly high concentration of analyte in sample.
  - ⑧ Reanalysis of sample in duplicate confirmed sample heterogeneity and inconsistency of results.
  - ⑨ Recovery failed acceptance criteria due to sample heterogeneity.
  - ⑩ LOR was raised due to high conductivity of the sample (required dilution).
  - † Refer to relevant report comments for further information.

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**From:** [Barisic, Natalie](#)  
**To:** [Schedule 2.2\(a\)\(ii\)](#)  
**Cc:** [McNamara, Conor](#); [Whitehouse, Michael](#)  
**Subject:** RE: [EXT]Kingston FTD - Lead Dust Remediation Management Fee Proposal  
**Date:** Wednesday, 3 March 2021 10:31:28 AM  
**Attachments:** [image017.png](#)  
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[image032.jpg](#)  
[image033.jpg](#)

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OFFICIAL

Hi [Schedule 2.2\(a\)\(ii\)](#)

Are you available to meet tomorrow to further discuss the issues you have raised?

Thanks  
Natalie

**Kind Regards**

**Natalie Barisic** | Project Manager  
Phone 02 6205 3731 | Email: [natalie.barisic@act.gov.au](mailto:natalie.barisic@act.gov.au)

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GPO Box 158 Canberra ACT 2601 | [www.act.gov.au](http://www.act.gov.au)



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**From:** [Schedule 2.2\(a\)\(ii\)](#)  
**Sent:** Tuesday, 2 March 2021 10:48 AM  
**To:** Barisic, Natalie <[Natalie.Barisic@act.gov.au](mailto:Natalie.Barisic@act.gov.au)>  
**Cc:** McNamara, Conor <[Conor.McNamara@act.gov.au](mailto:Conor.McNamara@act.gov.au)>; Whitehouse, Michael <[Michael.Whitehouse@act.gov.au](mailto:Michael.Whitehouse@act.gov.au)>  
**Subject:** RE: [EXT]Kingston FTD - Lead Dust Remediation Management Fee Proposal

**Importance:** High

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Hi Natalie,

Further to the below, there is no mention in the Robson report re that status (whether lead paint containing or not) of the substrates that dusts samples were taken. For example if the swab was taken on a surface that has lead dust, the lead dust result will be falsely impacted by the lead paint beneath. As seen in the figures there is a number of these samples taken on painted surfaces.

It is also not clear in the scope the relation of the monarch building works and whether the assessment factors these potential disturbance type activities.

From some of the photos, it appears that Robson uses a template to get the sample area consistent (this is fine), however there is no commentary re the decontamination of this or if new templates are used for each sample location.

It would be prudent to review the queries raised to determine the accuracy of the report and reliance to then engaged remediation based on these results.

Regards



---

**From:** 

**Sent:** Monday, 1 March 2021 12:11 PM

**To:** 'Barisic, Natalie' <[Natalie.Barisic@act.gov.au](mailto:Natalie.Barisic@act.gov.au)>

**Cc:** 'McNamara, Conor' <[Conor.McNamara@act.gov.au](mailto:Conor.McNamara@act.gov.au)>; 'Whitehouse, Michael' <[Michael.Whitehouse@act.gov.au](mailto:Michael.Whitehouse@act.gov.au)>

**Subject:** RE: [EXT]Kingston FTD - Lead Dust Remediation Management Fee Proposal

Hi Natalie,

From initial review a few comments/queries below.

The criteria chosen by Robson is based on children in households. The Kingston FTD should not be placed in the same category as a residential setting with small children. The time factor (that a child is present) at the sensitive location (longer hours spent at home, more opportunity to crawl touch surfaces etc) would present the opportunity for false positive (or elevated results) if utilised for the Kingston FTD – the user settings do not align. If the property being assessed was a school or similar with children there for long periods over consecutive days, this criteria would be closer to realistic action levels.

A more suitable criteria would be adopting the criteria relevant to the site setting and use (factoring users and length of time) and categorising sample areas to align with 'normal access', 'low access' or 'no-access' criteria values and dividing the criteria applicable to the risk setting. In

some cases this can adjust the guideline up to a factor of 5 which could remove approximately 23 'elevated' results. This equates to approximately one third of samples. The FTD setting could be even higher in some of the areas sampled as most user groups may not visit more than once per week (markets visitors for example).

Sampling in the upper and lower halls appears to be judgemental rather than grid based, normally larger areas are assessed in a grid base to effectively determine hotspots. There is no statement for the sampling methodology/nature (judgemental vs grid vs targeted sampling) in the report.

There is no decontamination/sampling information to determine if cross contamination has occurred in any of the samples collected. Several consecutive samples have similar results. Only blank qa results are provided (which determine supply contamination, rather than sampler contamination between samples). Normally reports should include whether samplers wore nitrile gloves, freshly changed between sampling.

Regards

Schedule 2.2(a)(i)

[Redacted]

Regional Director ACT & NSW South

NSW Asbestos Assessor Schedule 2.2(a)(ii)

Full Member Asbestos and Hazardous Materials Consultants Association (AHCA)

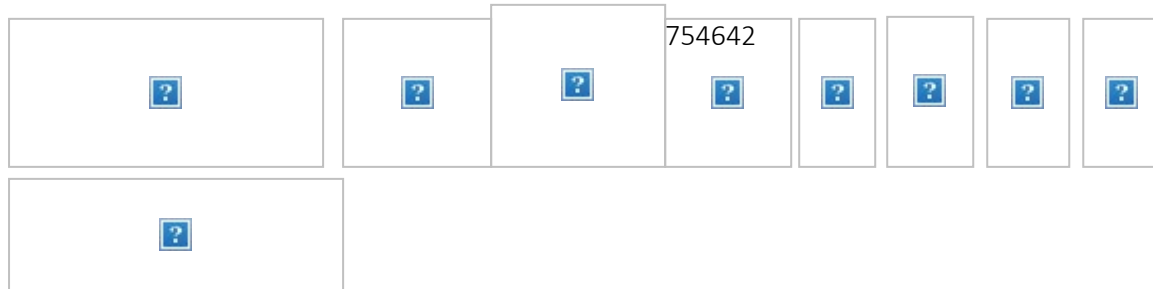
Occupational Hygienist

Certified Environmental Practitioner (CEnvP)

ICAM Lead Investigator (WHS Investigations)

Schedule 2.2(a)(ii)

[Redacted]



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From: Schedule 2.2(a)(i)

Sent: Thursday, 25 February 2021 4:16 PM

To: Barisic, Natalie <Natalie.Barisic@act.gov.au>

Cc: McNamara, Conor <Conor.McNamara@act.gov.au>; Whitehouse, Michael <Michael.Whitehouse@act.gov.au>

Subject: RE: [EXT]Kingston FTD - Lead Dust Remediation Management Fee Proposal

Hi Natalie,

Thanks for this background, please see attached rates as requested. PRA would be more than happy to assist.

If acceptable I can get a start on reviewing this from tomorrow.

Regards

Schedule 2.2(a)(i)

Regional Director ACT & NSW South

NSW Asbestos Assessor Schedule 2.2(a)(ii)

Full Member Asbestos and Hazardous Materials Consultants Association (AHCA)

Occupational Hygienist

Certified Environmental Practitioner (CEnvP)

ICAM Lead Investigator (WHS Investigations)

Schedule 2.2(a)(ii)

[Redacted]



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**From:** Barisic, Natalie <[Natalie.Barisic@act.gov.au](mailto:Natalie.Barisic@act.gov.au)>

**Sent:** Thursday, 25 February 2021 2:46 PM

**To:** Schedule 2.2(a)(ii)

**Cc:** McNamara, Conor <[Conor.McNamara@act.gov.au](mailto:Conor.McNamara@act.gov.au)>; Whitehouse, Michael <[Michael.Whitehouse@act.gov.au](mailto:Michael.Whitehouse@act.gov.au)>

**Subject:** [EXT]Kingston FTD - Lead Dust Remediation Management Fee Proposal

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OFFICIAL

Hi [Redacted]

Thank you for your time on the phone earlier, as discussed there has been contaminated lead

dust discovered at the Kingston Former Transport Depot, which requires immediate remediation.

A bit of background information on the project includes;

#### Former Transport Depot – Lead Dust Summary

- Major upgrades are underway at the Former Transport Depot (FTD). Monarch Building Solutions is the head contractor. Construction commenced in June 2020 and is scheduled for completion at the end of March 2021.
- In the course of undertaking the upgrades, dust samples collected from the FTD were analysed and showed the presence of lead particles. This advice was received on 20 January 2021.
- From 20-22 January 2021 air monitoring test points were set up by the contractor inside FTD. All results returned show that the concentration of atmospheric lead was below the detection limit.
- The contractor has continued to undertake contract works in accordance with guidelines provided by the Hygienist (including the air monitoring).
- Further dust samples and air monitoring tests will be undertaken within FTD to ensure all areas within the building are assessed.
- Based on the available information, the Hygienist does not consider that normal uses of the site prior to the current upgrade works would constitute an exposure risk.
- It is possible some construction activities will have caused an exposure risk to those on site. Monarch Building Solutions is coordinating an appropriate response to this in accordance with the construction contract and the relevant legislation.

#### Background

- artsACT is the building custodian, ACT Property Group provides building management (repairs and maintenance), Major Projects Canberra (MPC), Infrastructure Delivery Partners is the contract manager and delivery agency for the upgrade works.
- MPC is leading a response to the issue.
- artsACT licences Iconic Markets and Events to operate the 'Old Bus Depot Markets' from the building every Sunday through the year, and in addition every Saturday in December. The licence includes exclusive use of some areas such as an office, store rooms, and the food court area. The licence is currently held over on a month to month basis prior to a five-year licence extension which is pending.
- FTD is also available for hire through Venues Canberra, although not during the current construction period.
- The Markets have been closed due to the COVID-19 pandemic

I have attached the Lead Dust Assessment report which has been completed by Robson Environment and the tender submission from Empire Contracting who is the preferred tenderer to complete the remediation works.

We are intending to start remediation Tuesday 8/03/2021.

We would like a fee proposal for the engagement directly by Major Projects Canberra on behalf of the Territory to review and manage the remediation process on the Kingston FTD Project.

If you require any further information, please let me know.

Thank you  
Natalie

**Kind Regards**

**Natalie Barisic** | Project Manager  
Phone 02 6205 3731 | Email: [natalie.barisic@act.gov.au](mailto:natalie.barisic@act.gov.au)

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**From:** [redacted]  
**To:** [Bajsic, Natalie](#)  
**Subject:** FW: Kingston Old Bus Depot - Blood Test Result Above Threshold  
**Date:** Wednesday, 10 March 2021 12:43:25 PM  
**Attachments:** [image001.png](#)  
[image011.png](#)  
[image012.png](#)  
[image013.jpg](#)

---

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Natalie,

Following is our response to SWE our hygienist for the construction lead dust guidelines

[redacted]

---

**From:** [redacted]

**Sent:** Wednesday, 10 March 2021 11:31 AM

**To:** [redacted]

**Subject:** RE: Kingston Old Bus Depot - Blood Test Result Above Threshold

[redacted]

No there are no result above the quoted levels. However, after reading the report closely, I believe any lead blood levels above 5 µg/dL (0.24µmol/dL) are notifiable results to ACT Health Department.

Kind Regards

[redacted]

Site Engineer

signature\_1255920663



T 02 6162 0232 | [redacted]

24 Lithgow St, FYSHWICK ACT 2609

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**From:** [redacted]

**Sent:** Wednesday, 10 March 2021 11:25 AM

**To:** [redacted]

**Subject:** RE: Kingston Old Bus Depot - Blood Test Result Above Threshold

**Importance:** High

Hi [redacted]

The thresholds (Lead blood level not to be exceeded) are as listed below, which are higher than your quoted highest level, can you clarify the results and determine if there are any above the below quoted levels?

- for females not of reproductive capacity and males—30µg/dL (1.45µmol/L), or
- for females of reproductive capacity—10µg/dL (0.48µmol/L),

Regards,

[redacted]

Senior Environmental Consultant & ACT Manager

**Safe Work and Environments Pty Ltd**

PO Box 230, Dickson ACT 2602

Schedule 2.2(a)(ii)

[www.swe.com.au](http://www.swe.com.au)

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---

**From:** Schedule 2.2(a)(ii)

**Sent:** Wednesday, 10 March 2021 10:20 AM

**To:** Schedule 2.2(a)(ii)

**Subject:** Kingston Old Bus Depot - Blood Test Result Above Threshold

Morning Schedule 2.2(a)(ii),

We have received some blood test results above the threshold (the highest being 9.6 ug/dL). Are you able to provide any advice to these workers? Thank you and please let me know if you have any questions.

Kind Regards

Schedule 2.2(a)(ii)

Site Engineer

signature\_1255920663



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**From:** [Barisic, Natalie](#)  
**To:** [Ozols, Peter](#); [Dawson, Helene](#)  
**Subject:** FW: Kingston FTD - Elevated Lead Blood Levels  
**Date:** Thursday, 11 March 2021 11:07:00 AM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image003.png](#)  
[image004.jpg](#)  
[Kingston Roofers Blood Test Results.pdf](#)  
[Kingston Depot Blood Tests.xlsx](#)  
[FW Kingston Bus DepotMegaloo - Lead Dust Blood Test Results.msg](#)  
[image005.png](#)  
**Importance:** High

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OFFICIAL: Sensitive - Personal Privacy

---

**From:** Barisic, Natalie  
**Sent:** Wednesday, 10 March 2021 1:38 PM  
**To:** Tyler, Sam (Sam.Tyler@act.gov.au) <Sam.Tyler@act.gov.au>  
**Cc:** Collins, Jen <Jen.Collins@act.gov.au>; Libby Gordon (Libby.Gordon@act.gov.au) <Libby.Gordon@act.gov.au>; McNamara, Conor <Conor.McNamara@act.gov.au>; Power, Rebecca <Rebecca.Power@act.gov.au>; Whitehouse, Michael <Michael.Whitehouse@act.gov.au>  
**Subject:** Kingston FTD - Elevated Lead Blood Levels  
**Importance:** High

OFFICIAL: Sensitive - Personal Privacy

Hi Sam

I tried phoning a littler earlier today to provide an update on lead blood test levels which have been received from 3 contractors who completed roofing works on the Kingston FTD – Urgent Repairs project.

Just to summarise we cannot confirm if the high reading is specific to this project noting that roofing contractors are regular working on installation of lead flashings as part of their daily tasks with roof installations.

As noted by [Schedule 2.2\(a\)\(ii\)](#) below, the levels are above the threshold as a notifiable result therefore the relevant state health need to be advised, which Monarch are directing. Worksafe have been notified and email attached for reference.

Please note the thresholds are below the level for;

- Immediate removal from exposure
- Return to lead risk work

If you require any further clarification and or wish to discuss further please do not hesitate to contact me.

Thank you

Natalie

## Kind Regards

**Natalie Barisic** | Project Manager

Phone 02 6205 3731 | Email: [natalie.barisic@act.gov.au](mailto:natalie.barisic@act.gov.au)

Infrastructure Delivery Partners Group | **Major Projects Canberra** | ACT Government  
Level 2 Nature Conservation House, Cnr Benjamin Way and Emu Bank Belconnen 2617  
GPO Box 158 Canberra ACT 2601 | [www.act.gov.au](http://www.act.gov.au)



---

**From:** Schedule 2.2(a)(ii)  
**Sent:** Wednesday, 10 March 2021 11:50 AM  
**To:** Barisic, Natalie <[Natalie.Barisic@act.gov.au](mailto:Natalie.Barisic@act.gov.au)>  
**Cc:** Schedule 2.2(a)(ii)  
**Subject:** Kingston Depot Elevated Lead Blood Levels

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Natalie,

As advised we have received 3 lead blood test results which require notification to ACT Health

Attached are the 3 blood test results  
Are you able to keep these results confidential

The blood test results do not require the person to stop work or not return to work

We have notified Worksafe and we have asked Capital Pathology to confirm the results have been notified to ACT Health irrespective of where the blood test was taken

We have also notified the roofing head contractor to ensure all his roofers have blood tests

Also attached is a summary of the 24 blood tests taken to date

21 of the blood tests are below the level which requires notification to ACT Health

Regards

Schedule 2.2(a)(ii)

Project Manager

signature\_765877648



T 02 6162 0232 | Schedule 2.2(a)(ii)

Schedule 2.2(a)(ii)

24 Lithgow St, Fyshwick ACT 2609

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signature\_1988003499



**From:** Schedule 2.2(a)(ii) [REDACTED]  
**Sent:** Friday, 12 March 2021 2:52 PM  
**To:** Barisic, Natalie <Natalie.Barisic@act.gov.au>; Collins, Jen <Jen.Collins@act.gov.au>  
**Cc:** Schedule 2.2(a)(ii) [REDACTED]  
**Subject:** FW: RE: reportable results

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Natalie and Jen,

Capital Pathology have confirmed their notifiable threshold for industrial testing is >2.4 µmole/Litre or 50 µg/dLitre. I have requested them to revise the reports. Please let me know if you have any question.

Kind Regards

Schedule 2.2(a)(ii) [REDACTED]  
Site Engineer



T 02 6162 0232 | Schedule 2.2(a)(ii) [REDACTED]  
24 Lithgow St, FYSHWICK ACT 2609  
[www.monarchbuildingsolutions.com.au](http://www.monarchbuildingsolutions.com.au) |  



**From:** Schedule 2.2(a)(ii) [REDACTED]  
**Sent:** Friday, 12 March 2021 2:49 PM  
**To:** Schedule 2.2(a)(ii) [REDACTED]  
**Subject:** RE: RE: reportable results

Hi [REDACTED],

Thank you for your prompt response. In that case are you able to revise the reports with result above 5 µg/dL but below 50 µg/dL? It says 'This is a notifiable result which has been communicated to the relevant State Health Department' on their report.

Also, I assumed you meant >2.4 µmole/Litre or 50 µg/dLitre?

Please let me know if you have any question.

Kind Regards

Schedule 2.2(a)(ii)

Site Engineer



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**From:** Schedule 2.2(a)(ii)

**Sent:** Friday, 12 March 2021 2:33 PM

**To:** Schedule 2.2(a)(ii)

**Subject:** RE: RE: reportable results

Good Afternoon

I have been advised that Capital Pathology notifiable threshold for industrial testing is:

>2.4 µmole/Litre or 50 µg/Litre

Kind Regards

Schedule 2.2(a)(ii)

Schedule 2.2(a)(ii) | [Collection Department](#) | [Capital Pathology](#)

 Please consider the environment before printing this email.

**From:** Schedule 2.2(a)(ii)

**Sent:** Friday, 12 March 2021 1:21 PM

**To:** Schedule 2.2(a)(ii)

**Subject:** [External] RE: reportable results

Hi

Are you able to confirm the notifiable threshold for lead in blood in the ACT? I read the ACT WHS Regulations the threshold is 30 µg /dL for females not of reproductive capacity and males. Thank you and please let me know if you have any question.

Kind Regards

Schedule 2.2(a)(ii)

Site Engineer



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**From:** Schedule 2.2(a)(ii)

**Sent:** Wednesday, 10 March 2021 1:49 PM

**To:** Schedule 2.2(a)(ii)

**Subject:** reportable results

Good Morning

The relevant authority that is notified is the State that the patients' address is located. As you are using a corporate form, the address for all participants in Monarch Building Solutions in Fyshwick – therefore all notifiable results would be reported to ACT Health.

Kind Regards

Schedule 2.2(a)(ii)

Schedule 2.2(a)(ii) | [Collection Department](#) | [Capital Pathology](#)

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**From:** Schedule 2.2  
**To:** Barisic, Natalie  
**Cc:** Schedule 2.2(a)(ii) | McNamara, Conor  
**Subject:** FW: T10589 Advice regarding elevated blood levels for workers at Old Bus Depot site  
**Date:** Friday, 12 March 2021 1:16:38 PM  
**Attachments:** [image004.png](#)  
[image005.png](#)  
[image006.png](#)  
[image007.jpg](#)  
[image008.png](#)  
[image009.png](#)  
[image010.png](#)  
[image001.png](#)  
[image002.png](#)  
[image003.jpg](#)  
[T10589 Advice re elevated blood lead levels Old Kingston Bus Depot workers v1.1.docx](#)

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Natalie,

Please see below comments from Robson for your information. I believe Capital Pathology applied NSW standards in their blood test report. I will get them to clarify and keep you posted.

Kind Regards

Schedule 2.2(a)(ii)  
Site Engineer

signature\_1255920663



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**From:** Schedule 2.2(a)(ii)  
**Sent:** Friday, 12 March 2021 12:38 PM  
**To:** Schedule 2.2(a)(ii)

**Subject:** RE: T10589 Advice regarding elevated blood levels for workers at Old Bus Depot site

Hi Schedule 2.2(a)(ii),

In an attempt to make this simple, I have not made it clear, perhaps I should have put the rider with detailed information. The new ACT WHS Regulations (Regulation 413) state that for a worker who is undertaking lead risk work and is provided with health monitoring, the business must give copy of the health monitoring report to the regulator **if** the report contains:

- Test results that indicated that the worker has reached or exceeded the relevant blood lead level for that person under section 415 (For females not of reproductive capacity and males – 30 µg /dL and females of reproductive capacity - 10 µg /dL)

So none of your workers exceed this limit, so you are not required to notify the regulator.

You may also be required to notify the regulator if you have been advised that the test results indicate that the worker has contracted a disease, injury or illness as a result of carrying out the requirement for health monitoring. Or any recommendation that you undertake remedial measures.

If the blood testing was carried out by an interstate company, they may be using an interstate limit. Most of them are lower than the ACT, for example in NSW blood lead levels more than 5µg /dL have to be reported.

The Regulations are very complicated, and most of the regulations only apply if you are undertaking a lead process. However, if you want to be super cautious, you can of course report this to the regulator.

I have updated the information sheet and attached another version,

Sch [redacted]

**From:** Schedule 2.2(a)(ii) [redacted]

**Sent:** Friday, 12 March 2021 11:41 AM

**To:** Schedule 2.2(a)(ii) [redacted]

[redacted]  
[redacted]  
[redacted]

**Subject:** RE: T10589 Advice regarding elevated blood levels for workers at Old Bus Depot site

Hi [redacted],

Can you confirm that 'Elevated blood lead levels are not notifiable conditions in the Australian Capital Territory'? This is different to what was written on the report. Thank you.


Kind Regards

Schedule 2.2(a)(ii) [redacted]

Site Engineer

signature\_1255920663  


T 02 6162 0232 | Schedule 2.2(a)(ii) [redacted]  
[redacted]  
24 Lithgow St, Fyshwick ACT 2609  
[www.monarchbuildingsolutions.com.au](http://www.monarchbuildingsolutions.com.au) |

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**From:** Schedule 2.2(a)(ii) [redacted]

**Sent:** Friday, 12 March 2021 9:51 AM

**To:** Schedule 2.2(a)(ii) [redacted]

[redacted]  
[redacted]  
[redacted]

**Subject:** T10589 Advice regarding elevated blood levels for workers at Old Bus Depot site



Hi [redacted],

I have put together an advice sheet for you about the elevated blood lead levels for the workers at this site.

If you have any other questions, please let me know and I will get an answer to you.

Regards,

Sch [redacted]

[redacted]   
[redacted]   
Schedule 2.2(a)(ii) [redacted]  
WHS Consultant  
BEng (Mech), DipPM  
Phone: 02 6239 5656  
Schedule 2.2(a)(ii) [redacted]  
Fax: 02 6239 5669  
Schedule 2.2(a)(ii) [redacted]  
Web: [www.robsonenviro.com.au](http://www.robsonenviro.com.au)

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## Advice regarding elevated blood lead levels for Old Kingston Bus Depot workers

Monarch Building Solutions notified Robson that some workers who had been working on the Old Kingston Bus Depot site had received the results from their blood lead level tests at levels up to 9.6 µg /dL. Elevated blood lead levels are not notifiable conditions in the Australian Capital Territory unless levels are above 30 µg /dL for women not of reproductive capacity and males or 10 µg /dL for women of reproductive capacity.

There are two issues raised by these results, the health issue for the workers and the failure of the controls to minimise the risk of exposure for workers.

### Issue one: high lead blood levels

The average blood lead level among Australians is now estimated to be below 5 micrograms per decilitre (5 µg/dL or 0.24 µmol/L). A blood lead level greater than 5 µg/dL (0.24 µmol/L) suggests that a person has been, or continues to be, exposed to lead at a level that is above what is considered the average 'background' exposure in Australia.

<https://www.health.nsw.gov.au/Infectious/controlguideline/Pages/lead.aspx#3>

Workers in the Old Kingston Bus Depot have been working in areas that have dust with high lead concentrations. This exposure has resulted in raised blood lead levels (up to 9.6 µg /dL). These levels are higher than background everyday exposure, but do not indicate exposure to high levels of lead.

It is important to note that blood lead tests may not detect exposure to lead that occurred or stopped more than about 6 months before the sample was taken.

The WHS Regulations require workers to be removed from lead risk work if their lead blood level exceeds 30 µg /dL and not return to this work unless their blood lead levels are less than 20 µg /dL. No workers fit into this category.

Much of the information about lead exposure in Australia comes from studies in Port Pirie in South Australia and Mt Isa in Queensland; both locations of facilities that mine and smelt lead. The South Australian Government Health department has produced a Fact Sheet on lead and your health. This tells us that:

In adults, long-term exposure to low levels of lead may be associated with weakness in fingers, wrists and ankles, headaches, fatigue, small increases in blood pressure, anaemia (low iron in the blood) and damaged nerve and renal function.

At very high levels, lead can severely damage brain and kidney function and ultimately cause death. Those with diabetes have a higher risk of adverse effects associated with the kidney.

Workers at the Old Kingston Bus Depot are unlikely to have been exposed for long periods or to high levels, but if any worker is concerned about symptoms or the results from their blood test, what they should do, is consult their doctor.

## **Issue two: failure of controls**

Work carried out at the site in high lead dust level areas will disturb the dust, and controls have been put in place to minimise workers' exposure to this dust. If workers are returning higher than background lead blood levels, we know that the controls are failing to protect them, and they should be reviewed. There are two possible ways the controls can be failing to protect workers; either workers are not following or using the control measures, or the control measures are not good enough.

Most workers become exposed to lead through breathing it in or lead dust entering the body via the mouth from dirty hands during eating or smoking. Breathing dust in is the primary route of absorption.

Robson recommend that a review of the controls in place on the site is carried out, and either existing controls are enforced, or new controls are identified and implemented. It is particularly important that hand hygiene is enforced for all meal or smoking breaks.

## **1 Limitations**

While Robson has taken all care to ensure that this report includes the most accurate information available, samples were taken at certain times on the day or days indicated within the report and Robson is unable to comment on conditions at other times. Any statement of expected conditions at other times should be taken as possible conditions only.

The report, including any risk assessment presented, is based on the information obtained by Robson at the time of sampling. Any variation in the environment, activities, methods, practices, products, or equipment used may change exposures to hazards, invalidating the presented risk assessment. Robson recommends that risks be re-assessed prior to making any changes to the aforementioned factors.

The findings contained within this report are developed from the interpretation of the results of specific sampling methods used in accordance with generally accepted practices and standards, based on the current state of knowledge. To the best of Robson's knowledge, our assessment of the data represents a reasonable interpretation of the general conditions, and subsequent risk at the time of sampling. Should you have any questions or require further information please contact Robson Environmental.

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**From:** [Barisic, Natalie](#)  
**To:** [Collins, Jen](#)  
**Cc:** [Whitehouse, Michael](#); [McNamara, Conor](#); [Dawson, Helene](#); [Ozols, Peter](#); [Libby Gordon \(Libby.Gordon@act.gov.au\)](#)  
**Subject:** FW: T10589 Advice regarding elevated blood levels for workers at Old Bus Depot site  
**Date:** Friday, 12 March 2021 2:20:00 PM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image003.png](#)  
[T10589 Advice re elevated blood lead levels Old Kingston Bus Depot workers.docx](#)

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OFFICIAL

Hi Jen

We have received this advice from Robson's.

Most importantly the levels received from the 3 roofers and not notifiable in the ACT and the report identifies the levels are higher than background everyday exposure but do not indicate exposure of high levels of lead.

I will call to follow up.

Thanks

Nat

---

**From:** [Schedule 2.2\(a\)\(ii\)](#)  
**Sent:** Friday, 12 March 2021 10:07 AM  
**To:** Barisic, Natalie <Natalie.Barisic@act.gov.au>  
**Cc:** [Schedule 2.2\(a\)\(ii\)](#)  
**Subject:** FW: T10589 Advice regarding elevated blood levels for workers at Old Bus Depot site

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Natalie,

Attached is advice from Robsons regarding elevated blood levels at Kingston Depot

Further to our discussion yesterday I propose to send this advice to the 3 personnel that have elevated blood levels

The advice specifically advises that they should consult their doctor

[Schedule 2.2\(a\)\(ii\)](#),

Can you send this advice to the 3 personnel that recorded elevated blood levels  
Please emphasise the recommendation to consult their doctor

[Schedule 2.2\(a\)\(ii\)](#)

Project Manager

Schedule 2.2(a)(ii)

---

**From:** Schedule 2.2(a)(ii)

**Sent:** Friday, 12 March 2021 9:51 AM

**To:** Schedule 2.2(a)(ii)

**Subject:** T10589 Advice regarding elevated blood levels for workers at Old Bus Depot site

Hi Schedule 2.2(a)(ii),

I have put together an advice sheet for you about the elevated blood lead levels for the workers at this site.

If you have any other questions, please let me know and I will get an answer to you.

Regards,

Schedule 2.2(a)(ii)

Schedule 2.2(a)(ii)

Schedule 2.2(a)(ii)

Schedule 2.2(a)(ii)

WHS Consultant

BEng (Mech), DipPM

Phone: 02 6239 5656

Schedule 2.2(a)(ii)

Fax: 02 6239 5669

Schedule 2.2(a)(ii)

Web: [www.robsonenviro.com.au](http://www.robsonenviro.com.au)

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