

*Reference: NO21608\_16*

# **Asbestos Assessor's Report:**

## **TFTA (0233) CF3 P2**

### **Fanning River Integration – HOUSE THREE**

## **Project Aim & Description**

The site of the works is located at Townsville Field Training Area – Fanning River Station.

The aim of this project was to carry out an asbestos and lead in paint survey on buildings and structures to ascertain if asbestos containing materials are present prior to demolition works scheduled to be carried out.

Environics, 29<sup>th</sup> June 2014 – Environics-rpt-140612-5-rev0

## Document Control

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File No	Initial Release	Service Offer	Context
140612-5rev1 <b>DISCLAIMER</b> Quantities of materials given in this report are approximates only and must not be relied upon when quoting for removal. When preparing a quote always make first hand measurements of materials within the scope of work.	12/06/2014	Asbestos Assessor's Report: TFTA (0233) CF3 P2 Fanning River Integration House Three of Subject Property	The site of the works is located at Townsville Field Training Area - Fanning River Station.  The aim of this project was to carry out an asbestos survey on buildings and structures to ascertain if asbestos containing materials are present prior to demolition works scheduled to be carried out.

Revision No	Date	Revision Description	Author	Co-Author
0	12/06/2014	Report, initial release	LL	BR

Copy No(s)	Rev No	Company	Representative(s)	
1	0	Serco Sodexo Defence Services	Rod Knight Sandra Gillard	Jade Collison
2	0	Environics	Lawrence Lyons	Bradley Rivers

12<sup>th</sup> June 2014

**RE:** NQ21608.16

Dear Client,

On behalf of Envionics, I respectfully submit our report in relation to House Three of the subject property in the hope that it will receive the favourable consideration of Serco Sodexo Defence Services.

If further information or clarification is required please do not hesitate to contact me personally.

Sincerely,  
Envionics

Lawrence Lyons  
(Principle)

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## Photographs:

Photograph 1 – Showing House Three of the Property

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- One – AHIRs House Three (Asbestos)
- Two– AHIRs House Three (Lead in Paint)
- Three–NATA Laboratory Results (Asbestos)
- Four –NATA Laboratory Results (Lead in Paint)

## **1. INTRODUCTION**

### **1.1. Aim**

The aim of this project was to carry out an asbestos and lead in paint survey of buildings and structures of the Fanning River Station to ascertain if asbestos containing materials and lead based paints were present and to estimate the cross sectional areas of these material(s) prior to the planned demolition of various buildings and structures.

### **1.2. Background Information**

Fanning River that runs through the station is an tributary of the Burdekin River.

The station forms part of the Townsville field training area located south-west of Townsville. The majority of buildings and structures are located in the area referred to as 'Homestead'. Other assets are at various places across the property.

Contained in the section 2.1.1. is information as to the type of buildings and structures and their locations relative to each other and geographically by GPS coordinates.



### **1.3. Scope**

The scope of this report is House Three of the property in relation to asbestos containing materials and lead based paint.

#### **Photograph 1 – Showing House Three of the Property**

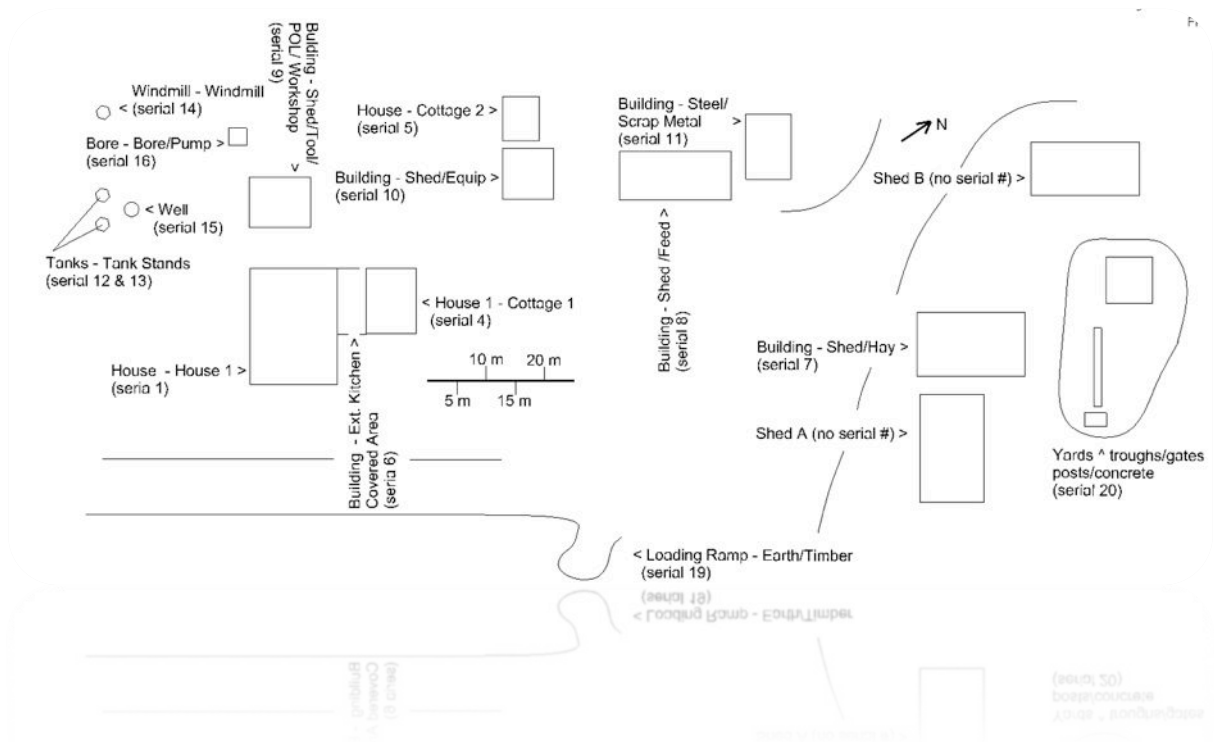


## **2. LOCATION OF ASSETS SURVEYED**

### **2.1. Drawing - Homestead Site Plan (Primary)**

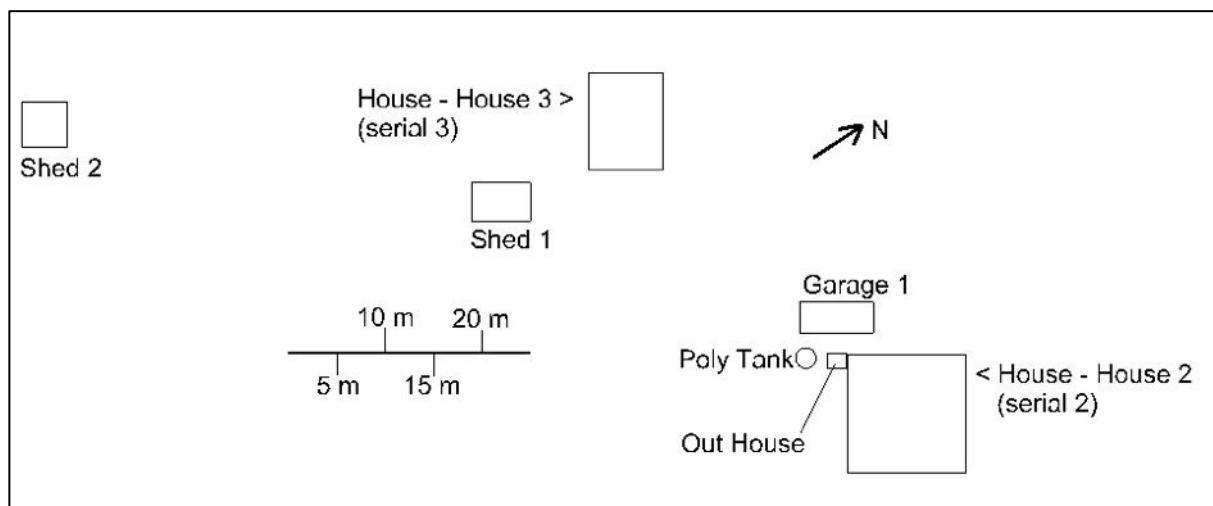
Shown on the following page are the primary buildings and structures of the homestead.

The GPS coordinates for the centre of the drawing are East 146° 25.874; and South 19° 43.860.



## 2.2. Drawing - Homestead Site Plan (Secondary)

Shown below are the secondary buildings and structures of the homestead. The GPS coordinates for the centre of the drawing are East 146° 25.799; and South 19° 43.975.



## 2.3. Details of Assets, Location, & Type

**Table One – Details of Assets, Location and Type**

Serial	Sector	GR E146 S19	Type	Description
1	Homestead	25.874 43.860	House	House 1
2	Homestead		House	House 2
3	Homestead		House	House 3
4	Homestead		House	Cottage 1
5	Homestead		House	Cottage 2
6	Homestead		Building	External Kitchen/Covered Area
7	Homestead		Building	Shed - Hay
8	Homestead		Building	Shed - Feed
9	Homestead		Building	Shed - Equipment/Tool/POL/Workshop
10	Homestead		Building	Shed - Equipment
11	Homestead		Building	Steel/Scrap metal
12	Homestead		Tank Stand	Tank Stand x 2
13	Homestead		Tank	Tanks x 2
14	Homestead		Windmill	Windmill
15	Homestead		Well	Well
16	Homestead		Bore	Bore/pump

**Table One continues**

Serial	Sector	GR E146 S19	Type	Description
17	Homestead		Septic Tanks	Septic Tanks
18	Homestead		Loading Ramp	Concrete
19	Homestead		Loading Ramp	Earth/Timber
20	Homestead		Yards - Homestead	Timber/steel/stable/troughs/gates/posts/concrete waste/fencing
21	Homestead		Airstrip	Fencing
22	Homestead	403 188	Waste	Steel/Scrap metal
23	Homestead	40824 18665	Yards - North	Tyre Licks x 6
24	Homestead	40736 18757	Water Point	Tank/3xtank rings/tyres/waste
25	Homestead	40699 18834	Bore	Bore
26	Sandy Creek	41521 19926	Gauging Station	Old Gauging Station foundations
27	Heifer	39364 20422	Water Point	Bore/scrap/Tyre Lick/waste (2ha area)
28	Box Creek	43272 25324	Yards	Yards/Dip/Shed/Hut/Scrap/Waste



**Table One continues**

Serial	Sector	GR E146 S19	Type	Description
29	Heifer	38570 23905	Water Point	Windmill & Tank
30	Steer	38 29	Water Point	Windmill & Tank
31	Sandy Creek	46658 19755	Water Point	Windmill/Well/Tanks x 2/Trough
32	Rocky	47802 16295	Water Point	Bore/Tyre Lick/Waste
33		420 201	Explorati on Bore	Exploration Bore
34		39318 29629	Explorati on Site	Bore
35	Sandy Creek	41322 19262	Dam	Dam/Trough/Lick
36	Yarraman	35320 12356	Dam	"Wall Dam
37	Homestead	38037 18512	Dam	Wall Dam/Trough/Tyre Licks x 2/Fence around trough
38	Kempvale B	east boundary	Fence	Common boundary fence
39	Trace	east boundary	Fence	Common boundary fence
40	Impact West	south boundary	Fence	Common boundary fence

**Table One continues**

Serial	Sector	GR E146 S19	Type	Description
41	Impact East	west boundary	Fence	Common boundary fence
42	Impact East	Fanning R East to 532 288	Fence	Common boundary fence
43	Emu	45440 13330	Water Point	Windmill/Bore/Fibreglass Tank/Gal Tank/Trough/Licks x 3
44	Emu	42251 15583	Explorati on Site	Bore tubes/rubbish
45	River	39866 14078	Yards	Trough Lick
46	River	40225 16658	Yards	Trough Lick/Timber Pallets
47	Homestead	39103 18415	Water Point	Old Bore/Scrap/Waste
48	Yarraman	37527 14634	Water Point	Windmill (Comet)/Bore/Trough/Tank/Tyre Licks x 2/Scrap
49	Sandy Creek	44776 22544	Water Point	Tank/Trough/Tyre Lick
50	Rocky	44332 16163	Water Point	Windmill/Well/Tank/Trough/Tyre Licks x 4
52	Mingela Road	45455 15002	Cattle Grid	Cattle Grid
53	Mingela Road	36402 21467	Cattle Grid	Cattle Grid

**Table One continues**

Serial	Sector	GR E146 S19	Type	Description
54	Cow	36120 11025	Yards	Spear Gate
55	Cow	36338 10875	Water Point	Windmill/Well/Trough/Scrap /Spear Gate/Tyre Lick x 3
56	Cow	34280 07582	Water Point	Solar Bore/Tank/Trough/Licks x 3
57	Cow	38056 08547	Water Point	Solar Bore/Tank/Trough/Licks x 3/Spear Gates x 2
58	Cow	40687 09212	Water Point	Old Well/Trough/Scrap
59	Cow	41996 07876	Water Point	Old Bore/Trough/Lick
60	River	40960 11382	Yards	Tyre Lick/Trough
61	Heifer	41004 24230	Water Point	Bore/poly pipe/waste steel
62	Homestead	40430 17740	Water Point	Bore / Waste
63	Emu	43827 12786	Explorati on Site	Exploration Drill Hole

### **3. METHODOLOGY**

#### **3.1. Terminology**

Throughout this report standard terminology relating to asbestos and asbestos containing materials has been used.

Definitions of these terms can be found in Section 1.3 of the Queensland Code of Practice; *How to Manage and Control Asbestos in the Workplace - Code of Practice 2011*.

#### **3.2. Investigation Methods**

Sampling for asbestos and lead in paint was undertaken in accordance with Environics (QLD) Health Safety & Hygiene's internal procedure for Asbestos Identification Sampling. In relation to asbestos, the procedure aligns with the process outlined in Appendix A of the Queensland Code of Practice; *How to Manage and Control Asbestos in the Workplace - Code of Practice 2011*. In relation to 'lead in paint' the same procedure is applicable in terms of best practice.

In each instance the sample was:

- Of a quantity sufficient to confirm status of asbestos presence and type, and the presence of lead in paint.
- Double sealed in individual sampling bags.
- Tools were wet wiped clean after sampling to avoid cross contamination.
- Intrusive sampling was sealed with spray paint.
- A photograph was taken indicative of condition and location that included a reference number.

All building material samples for asbestos or lead analysis were submitted to a NATA accredited laboratory for analysis.

All samples taken during this project were submitted to:

*Envirolab Services Pty Ltd*, 12 Ashley Street, Chatswood NSW 2067.

### **3.3. Legislation**

Applicable legislation and Codes of Practice:

- Queensland State Work Health and Safety Act and Regulation 2011
- How to Manage and Control Asbestos in the Workplace, Code of Practice 2011 (current approved code of practice under Commonwealth and QLD OHS legislation. How to Safely Remove Asbestos, Code of Practice 2011 (current approved code of practice under Commonwealth and QLD OHS legislation)
- Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres 2nd Edition (NOHSC:3003(2005)) (Approved method for monitoring airborne asbestos under state and commonwealth OHS legislation)
- Environmental Protection Act 1994 and Regulation 2008 (transport of asbestos waste)
- Local council regulations (approved landfill sites for disposal)

### 3.4. Risk Ratings

In relation to asbestos the following risk ratings are used in this report.

Risk Rating	Description
Very High	Friable (un-bonded) ACM likely to pose a risk to health from exposure. The material is readily accessible and prone to further disturbance, or unsealed friable asbestos material.
High	Friable (un-bonded) ACM that has deteriorated significantly. The material is readily accessible and prone to further disturbance, or unsealed friable asbestos, that is only likely to be disturbed during routine maintenance activity.
Medium	ACM showing minor deterioration that is only likely to be disturbed during routine maintenance activity.
Low	ACM that shows no or very minor signs of damage/deterioration, the ACM is not friable and in a stable condition (sealed/encapsulated).  Regular access to the ACM is unlikely to cause significant deterioration, or the material is adequately sealed.

## 4. RISK ASSESSMENT

### 4.1. Airborne Asbestos Fibres

The subject property has been confirmed to have a significant amount of asbestos-containing materials (ACMs), which are bonded materials such as asbestos cement sheet.

The potential for creating airborne asbestos fibres generated by the mechanical and weather related disintegration and some damage of the ACMs including small holes. The subsequent dispersion of fibres into the air is currently low.

Many of the ACMs may be removed under B-Class controls as the risk is low to medium. However, the millboard backing of the kitchen vinyl will require an A-class removal.



However, this potential will become high should any form of construction work or demolition work be undertaken. Airborne dust has the potential to contain respirable asbestos fibres.

It is for this reason that the ACMs must be removed before any construction or demolition works are undertaken.

## **5. RESULTS**

### **5.1. Asbestos**

Contained in 'Attachment One' are the AHIRs for House Three and the details in relation to the location where asbestos containing materials (ACMs) were found, their type, and their approximate cross section area in square meters.

### **5.2. Lead in Paint**

Contained in 'Attachment Two' are the AHIRs for House Three and the details in relation to the location where lead in paint(s) were found, and their approximate cross section area in square meters. A substantial amount of lead based paint containing lead at low concentration was found.

## **6. CONCLUSION**

The removal of ACMs from the subject property represent a low to medium risk as they are bonded and mostly sealed with a paint, noting that much of the paint of the property is lead based.

Further inspection by the assigned Asbestos Removalist will be required prior to work commencing to ensure A and B class controls are adequate.

## Appendix One –

### AHIRs House Three (Asbestos)



## **Appendix One – AHIRs Asbestos, House Three**

<b>1. HOUSE THREE .....</b>	<b>2</b>
<b>1.1. AHIR 140414-38 Eaves .....</b>	<b>2</b>
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# 1. HOUSE THREE

## 1.1. AHIR 140414-38 Eaves

Region:	NQ - NQ	Property:	TFTA (0233) CF3 P2 Fanning River Integration	Structure:	House 3				
AHIR:	140414-38	Level:	Survey	Location:	GR 25.835 43.925	Space:	External Areas		
AHIR	ACM:	Chrysotile	Estate Details:	Townsville Field Training Area, Fanning River Station.	ACM MGT:	Remove for demolition			
Secondary Location:	Eaves	Quantity (m2):	20	Occupancy In Use:	<input type="checkbox"/> No In Use:	<input checked="" type="checkbox"/>	Accessibility - Accessible:	<input checked="" type="checkbox"/> Inaccessible:	<input type="checkbox"/>
Application:	Lining	Control - Encapsulate:	<input type="checkbox"/> Leave and Manage:	<input type="checkbox"/> Remove:	<input checked="" type="checkbox"/> N/A:	<input type="checkbox"/> Other:			
ACM Status:	Detected:	<input checked="" type="checkbox"/>	Labels -	Appixed:	<input checked="" type="checkbox"/> Remove:	<input type="checkbox"/> Required:	<input type="checkbox"/>	Sample ID #:	A017
Friable:	<input type="checkbox"/> Bonded:	<input checked="" type="checkbox"/>	Not Detected:	<input type="checkbox"/>	References / Attachments / Comments:				
Condition:	Poor	Sample taken from south east eave of house.							

Photo Caption: A017 Sample Location

Laboratory: Envirolab Services Pty Ltd



Cert. of Analysis: 110214

Lab. Refer: 110214-17

Environics Refer: A017

### Lead in Paint

%w/w

Area  
m2:

Asbestos Detected - Yes: ☒ No: ☐ **Asbestos**

If Detected, What Type: Chrysotile & Amosite

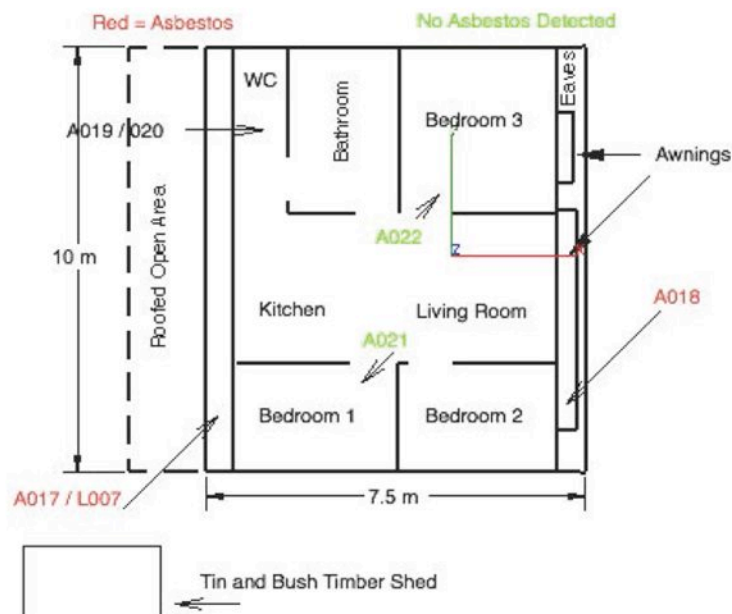
Sample Description: Area m2: 20

Grey compressed fibre cement material

Asbestos Assessor: Lawrie Lyons (Environics)

Drawings & Illustrations

### House 3



## 1.2. AHIR 140414-40 Awnings

Region:	NQ - NQ	Property:	TFTA (0233) CF3 P2 Fanning River Integration	Structure:	House 3
AHIR:	140414-40	Level:	Survey	Location:	GR 25.835 43.925
Space:	External Areas				


  

ACM:	Chrysotile & Amosite	Estate Details:	Townsville Field Training Area, Fanning River Station.	ACM MGT:	Remove for demolition
Secondary Location:	Awning	Quantity (m2):	14	Occupancy In Use:	<input type="checkbox"/> No In Use: <input checked="" type="checkbox"/>
Application:	Shade	Control - Encapsulate:	<input type="checkbox"/> Leave and Manage: <input type="checkbox"/> Remove: <input checked="" type="checkbox"/>	N/A:	<input type="checkbox"/> Other: <input type="checkbox"/>
ACM Status:	Detected: <input checked="" type="checkbox"/> Friable: <input type="checkbox"/> Bonded: <input checked="" type="checkbox"/> Not Detected: <input type="checkbox"/>	Labels - Appixed:	<input checked="" type="checkbox"/> Remove: <input type="checkbox"/> Required: <input type="checkbox"/>	Sample ID #:	A018
References / Attachments / Comments:					
Sample taken from awning on the northern side of the house.					

Photo Caption:	A018 Sample Location	Laboratory:	EnviroLab Services Pty Ltd
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Cert. of Analysis:	110214	<b>Lead in Paint</b> %w/w <input type="text"/> Area m2: <input type="text"/>
Lab. Refer:	110214-18	
Envionics Refer:	A018	

Asbestos Detected - Yes:	<input checked="" type="checkbox"/> No: <input type="checkbox"/>	<b>Asbestos</b>
If Detected, What Type:	Chrysotile & Amosite	
Sample Description:	Area m2:	14
Grey compressed fibre cement material		

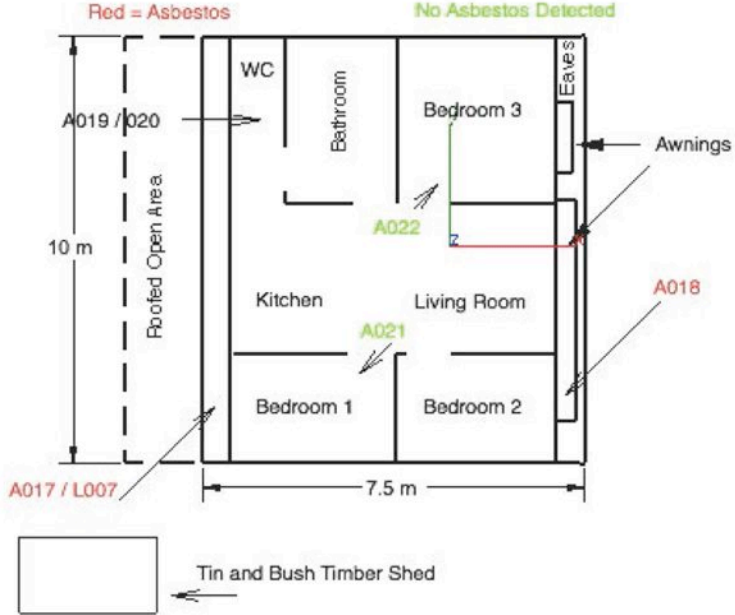
  

Asbestos Assessor:	Lawrie Lyons (Envionics)	Drawings & Illustrations
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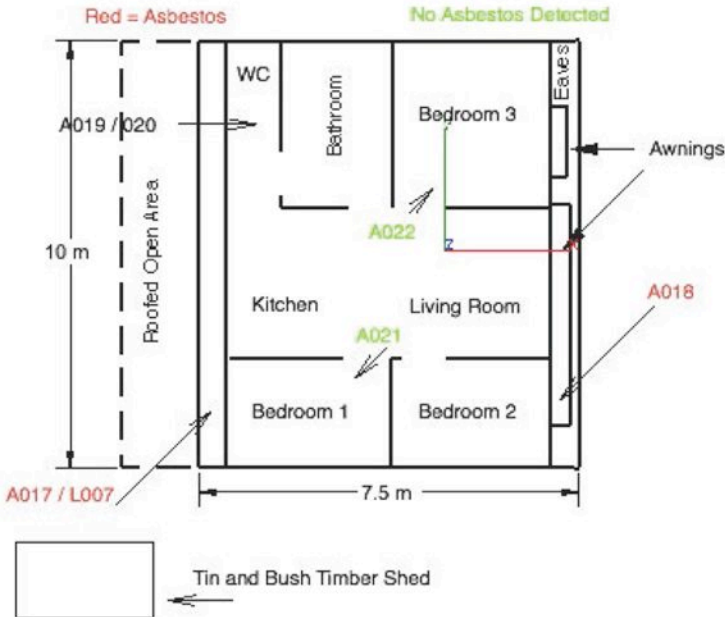
### House 3

Red = Asbestos      No Asbestos Detected





### 1.3. AHIR 140414-41 Toilet Floor

Region:	NQ - NQ	Property:	TFTA (0233) CF3 P2 Fanning River Integration		Structure:	House 3		
AHIR:	140414-41	Level:	Survey	Location:	GR 25.835 43.925	Space:	Internal Area Areas	
AHIR	ACM:	Chrysotile	Estate Details:		Townsville Field Training Area, Fanning River Station.	ACM MGT:	Remove for demolition	
Secondary Location:	Vinyl tile & adhesive		Quantity (m2):	2	Occupancy In Use:	<input type="checkbox"/> No In Use:	<input checked="" type="checkbox"/>	
Application:	flooring		Control - Encapsulate:	<input type="checkbox"/> Leave and Manage:	<input type="checkbox"/> Remove:	<input checked="" type="checkbox"/> N/A:	<input type="checkbox"/> Other:	
ACM Status:	Detected:	<input checked="" type="checkbox"/>	Labels - Appixed:	<input checked="" type="checkbox"/>	Remove:	<input type="checkbox"/> Required:	<input type="checkbox"/> Sample ID #:	
Friable:	<input type="checkbox"/> Bonded:	<input checked="" type="checkbox"/>	References / Attachments / Comments:					
Condition:	Poor		Grey brittle vinyl tile contains asbestos however the underlying adhesive contains no asbestos (refer to laboratory results for more details).					
Photo Caption:	A019 Sample Location		Laboratory:				Envirolab Services Pty Ltd	
			Cert. of Analysis:	110214		Lead in Paint		
			Lab. Refer:	110214-19		%w/w	<input type="text"/>	
			Enviroics Refer:	A019		Area m2:	<input type="text"/>	
			Asbestos Detected - Yes: <input checked="" type="checkbox"/> No: <input type="checkbox"/> Asbestos					
			If Detected, What Type:		Chrysotile			
			Sample Description:		Area m2: 2			
			Grey compressed fibre cement material					
Asbestos Assessor:			Lawrie Lyons (Enviroics)		Drawings & Illustrations			
<p><b>House 3</b></p> <p>Red = Asbestos      No Asbestos Detected</p> 								



## 1.4. AHIR 140414-42 Kitchen Floor

Region:	NQ - NQ	Property:	TFTA (0233) CF3 P2 Fanning River Integration	Structure:	House 3
AHIR:	140414-42	Level:	Survey	Location:	GR 25.835 43.925
Space:	Internal Area Areas				

ACM:	Chrysotile	Estate Details:	Townsville Field Training Area, Fanning River Station.	ACM MGT:	Remove for demolition
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Secondary Location:	Vinyl tile & adhesive	Quantity (m2):	6	Occupancy In Use:	<input type="checkbox"/>	No In Use:	<input checked="" type="checkbox"/>	Accessibility - Accessible:	<input checked="" type="checkbox"/>	Inaccessible:	<input type="checkbox"/>
Application:	Kitchen flooring	Control - Encapsulate:	<input type="checkbox"/>	Leave and Manage:	<input type="checkbox"/>	Remove:	<input checked="" type="checkbox"/>	N/A:	<input type="checkbox"/>	Other:	
ACM Status:	Detected: <input checked="" type="checkbox"/>	Labels -	Appixed: <input checked="" type="checkbox"/>	Remove:	<input type="checkbox"/>	Required:	<input type="checkbox"/>	Sample ID #:	A020		
Friable:	<input type="checkbox"/>	Bonded:	<input checked="" type="checkbox"/>	Not Detected:	<input type="checkbox"/>	References / Attachments / Comments:					
Condition:	Marble coloured vinyl contains asbestos however the underlying adhesive contains no asbestos (refer to laboratory results for more details).										

Photo Caption:	A020 Sample Location	Laboratory:	EnviroLab Services Pty Ltd
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Cert. of Analysis:	110214	<b>Lead in Paint</b> %w/w <input type="text"/> Area m2: <input type="text"/>
Lab. Refer:	110214-20	
EnviroLab Refer:	A020	

Asbestos Detected - Yes:	<input checked="" type="checkbox"/>	No:	<input type="checkbox"/>	<b>Asbestos</b>
If Detected, What Type:	Chrysotile			
Sample Description:	Area m2: 6			
Marble colored vinyl				

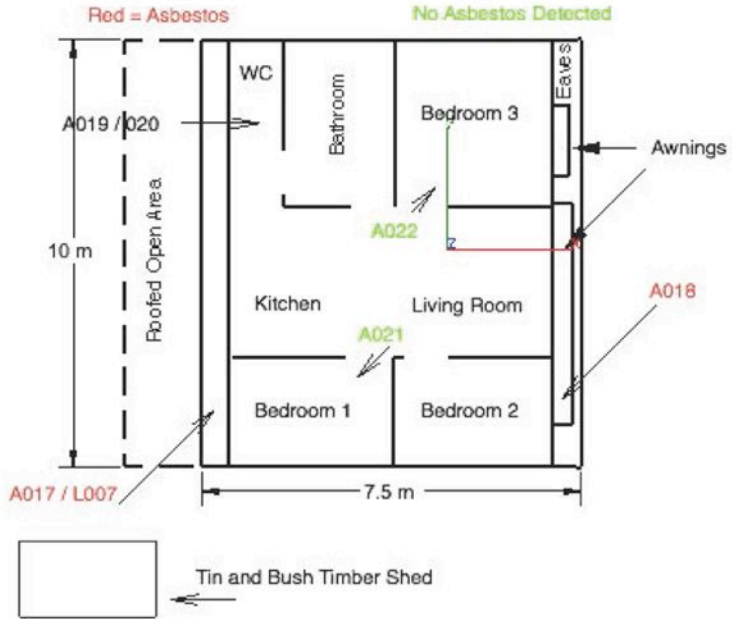
  

Asbestos Assessor:	Lawrie Lyons (EnviroLab)	Drawings & Illustrations
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**House 3**

Red = Asbestos      No Asbestos Detected




## 1.5. AHIR 140414-43 Bedrooms One & Two

Region:	NQ - NQ	Property:	TFTA (0233) CF3 P2 Fanning River Integration	Structure:	House 3
AHIR:	140414-43	Level:	Survey	Location:	GR 25.835 43.925
Space:	Internal Area Areas				

ACM:	Estate Details: Townsville Field Training Area, Fanning River Station.		ACM MGT:	Remove for demolition	
Secondary Location:	Fibrous Vinyl	Quantity (m2):	18	Occupancy In Use:	<input type="checkbox"/> No In Use: <input checked="" type="checkbox"/>
Application:	Bedroom flooring	Control - Encapsulate:	<input type="checkbox"/> Leave and Manage:	<input type="checkbox"/> Remove:	<input checked="" type="checkbox"/> N/A: <input type="checkbox"/> Other:
ACM Status:	Detected: <input type="checkbox"/> Friable: <input type="checkbox"/> Bonded: <input checked="" type="checkbox"/> Not Detected: <input checked="" type="checkbox"/>	Labels - Appixed:	<input checked="" type="checkbox"/> Remove:	<input type="checkbox"/> Required:	Sample ID #: A021
References / Attachments / Comments:					
Fibrous bituminous backed vinyl					
Condition:	Poor				

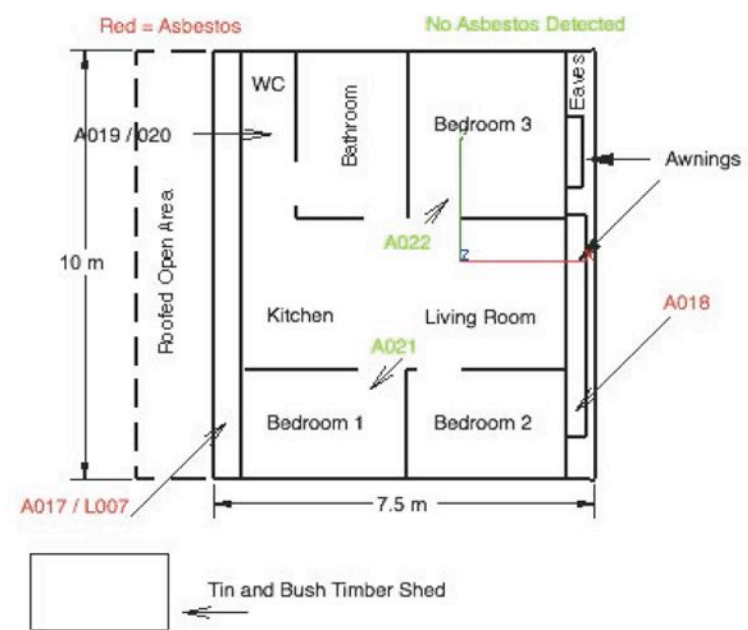
  

Photo Caption:	A021 Sample Location	Laboratory:	EnviroLab Services Pty Ltd				
		Cert. of Analysis:	110214				
		Lab. Refer:	110214-21				
		EnviroLab Refer:	A021				
		<table border="1"> <tr> <td colspan="2"><b>Lead in Paint</b></td> </tr> <tr> <td>%w/w</td> <td></td> </tr> <tr> <td>Area m2:</td> <td></td> </tr> </table>		<b>Lead in Paint</b>		%w/w	
<b>Lead in Paint</b>							
%w/w							
Area m2:							


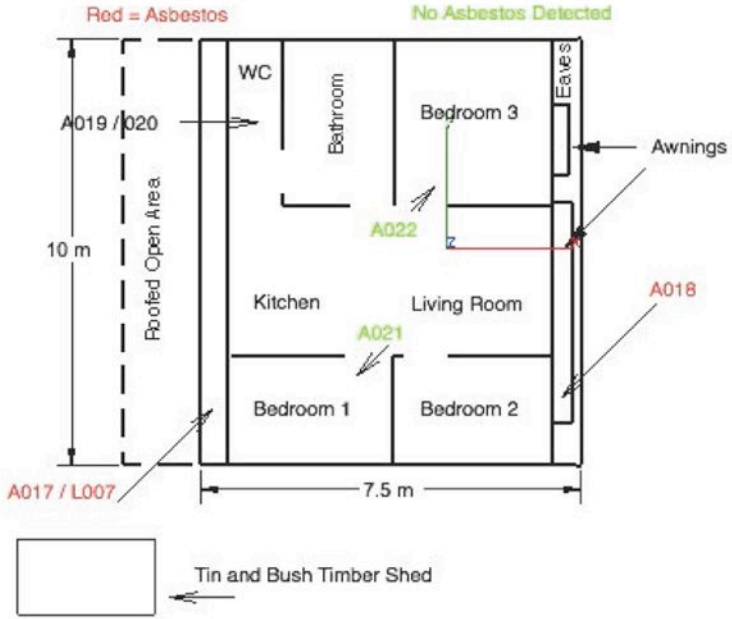
  

Asbestos Detected - Yes:	<input type="checkbox"/> No:	<input checked="" type="checkbox"/> <b>Asbestos</b>
If Detected, What Type:		
Sample Description:	Area m2:	18
Fibrous bituminous backed vinyl		


Asbestos Assessor:	Lawrie Lyons (EnviroLab)	Drawings & Illustrations
<p><b>House 3</b></p> <p>Red = Asbestos      No Asbestos Detected</p>  <p>10 m</p> <p>7.5 m</p> <p>WC</p> <p>Bathroom</p> <p>Bedroom 3</p> <p>Bedroom 2</p> <p>Bedroom 1</p> <p>Kitchen</p> <p>Living Room</p> <p>Roofed Open Area</p> <p>Awnings</p> <p>Tin and Bush Timber Shed</p>		

## 1.6. AHIR 140414-44 Bedroom 3 Floor

Region:	NQ - NQ	Property:	TFTA (0233) CF3 P2 Fanning River Integration		Structure:	House 3	
AHIR:	140414-44	Level:	Survey	Location:	GR 25.835 43.925	Space:	Internal Area Areas
AHIR	ACM:	Estate Details: Townsville Field Training Area, Fanning River Station.			ACM MGT:	Remove for demolition	
Secondary Location:	Fibrous Vinyl	Quantity (m2):	16	Occupancy In Use:	<input type="checkbox"/>	No In Use:	<input checked="" type="checkbox"/>
Application:	Bedroom 3 flooring	Control - Encapsulate:	<input type="checkbox"/>	Leave and Manage:	<input type="checkbox"/>	Remove:	<input checked="" type="checkbox"/>
ACM Status:	Detected: <input type="checkbox"/>	Labels -	Appixed: <input checked="" type="checkbox"/>	Remove:	<input type="checkbox"/>	Required:	<input type="checkbox"/>
Friable:	<input type="checkbox"/>	Bonded:	<input checked="" type="checkbox"/>	Not Detected:	<input checked="" type="checkbox"/>	Sample ID #:	A022
Condition:	Poor	References / Attachments / Comments:					
Fibrous bituminous backed vinyl							
Photo Caption:	A022 Sample Location			Laboratory:	Envirolab Services Pty Ltd		
				Cert. of Analysis:	110214		
				Lab. Refer:	110214-22		
				Enviroconics Refer:	A022		
				<b>Lead in Paint</b> %w/w <input type="text"/> Area m2: <input type="text"/>			
				Asbestos Detected - Yes: <input type="checkbox"/> No: <input checked="" type="checkbox"/> <b>Asbestos</b> If Detected, What Type: <input type="text"/>			
Sample Description:				Area m2:		16	
Fibrous bituminous backed vinyl							
Asbestos Assessor: Lawrie Lyons (Enviroconics)				Drawings & Illustrations			
<p><b>House 3</b></p> <p>Red = Asbestos      No Asbestos Detected</p>  <p>Tin and Bush Timber Shed</p>							



## 1.7. AHIR 140414-44 Walls and Ceilings

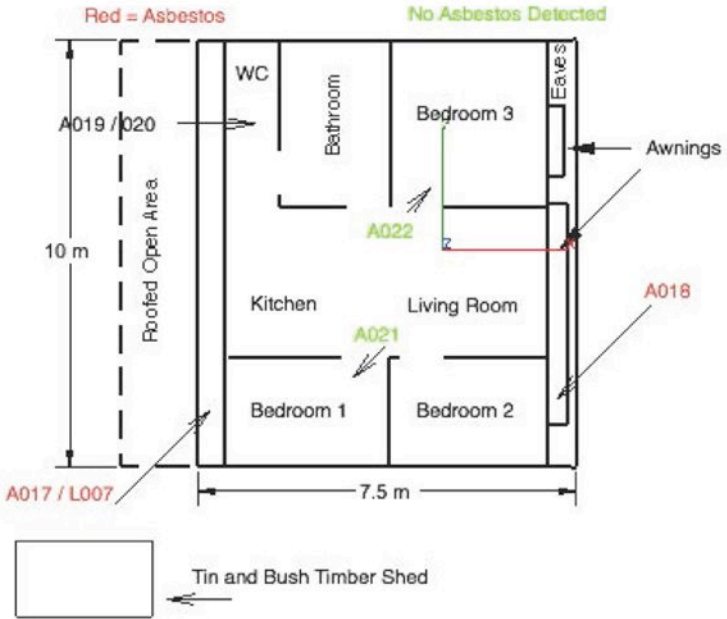
Region:	NQ - NQ	Property:	TFTA (0233) CF3 P2 Fanning River Integration		Structure:	House 3	
AHIR:	140414-45	Level:	Survey	Location:	GR 25.835 43.925	Space:	Internal Area Areas
AHIR		ACM:	Estate Details: Townsville Field Training Area, Fanning River Station.		ACM MGT:		Remove for demolition
Secondary Location:		Ceiling and Walls		Quantity (m2):	40	Occupancy In Use:	<input type="checkbox"/> No In Use: <input checked="" type="checkbox"/>
Application:		Internal Rooms		Control - Encapsulate:	<input type="checkbox"/> Leave and Manage:	<input type="checkbox"/> Remove:	<input checked="" type="checkbox"/> N/A: <input type="checkbox"/> Other: <input type="text"/>
ACM Status:		Detected: <input type="checkbox"/> Friable: <input type="checkbox"/> Bonded: <input type="checkbox"/> Not Detected: <input checked="" type="checkbox"/>		Labels -	Appixed: <input checked="" type="checkbox"/> Remove: <input type="checkbox"/> Required: <input type="checkbox"/>	Sample ID #: <input type="text"/>	
				References / Attachments / Comments:			
Condition: Poor				Walls and ceilings of house found to be masonite.			
Photo Caption:		Sample Location		Laboratory:		Envirolab Services Pty Ltd	
				Cert. of Analysis:		<input type="text"/>	
				Lab. Refer:		<input type="text"/>	
				Environics Refer:		<input type="text"/>	
				Asbestos Detected - Yes: <input type="checkbox"/> No: <input checked="" type="checkbox"/>		<b>Asbestos</b>	
				If Detected, What Type:		<input type="text"/>	
				Sample Description:		Area m2: 40	
				<input type="text"/>			

Asbestos Assessor: Lawrie Lyons (Environics)

Drawings & Illustrations

### House 3

Red = Asbestos      No Asbestos Detected



The floor plan shows a rectangular building with the following layout: WC at the top left, Bathroom below it, Kitchen in the center, Living Room to the right of the Kitchen, and three Bedrooms (Bedroom 1, 2, and 3) along the right side. Awnings are located on the right side. A Roofed Open Area is on the left side. Asbestos is marked in red at A017/L007 (Roofed Open Area), A018 (Awnings), and A022 (Bedroom 3). Other areas are marked green (A020, A021). Dimensions are 10m by 7.5m. A Tin and Bush Timber Shed is shown outside.

## Appendix Two –

### AHIRs House Three (Lead in Paint)



**Appendix Two –  
AHIRs Lead in Paint, House Three**


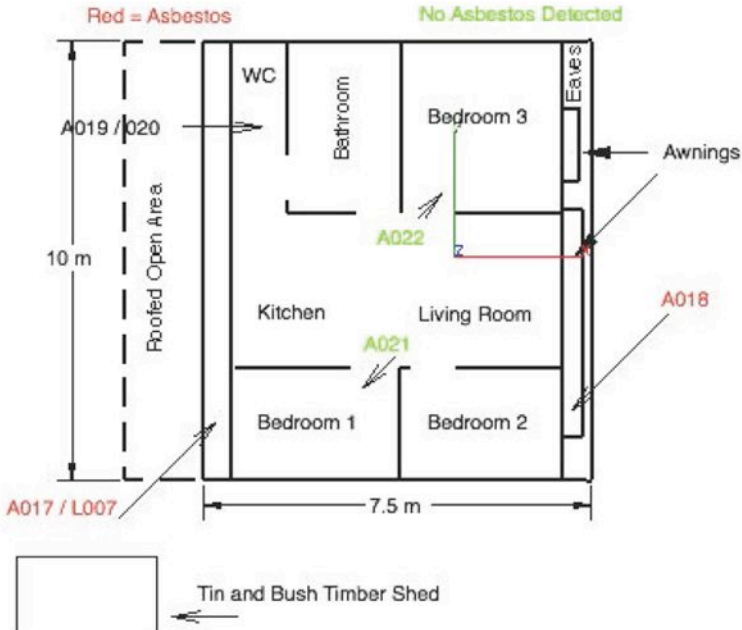
**1. HOUSE Three..... 2**

**1.1. AHIR 140414-39 Eaves ..... 2**



# 1. HOUSE THREE

## 1.1. AHIR 140414-39 Eaves

Region:	NQ - NQ	Property:	TFTA (0233) CF3 P2 Fanning River Integration		Structure:	House 3		
AHIR:	140414-39	Level:	Survey	Location:	GR 25.799 43.975	Space:	External Areas	
AHIR	ACM:	Lead in Paint Survey		Estate Details:	Townsville Field Training Area, Fanning River Station.		ACM MGT:	Remove for demolition
Secondary Location:	Eaves	Quantity (m2):	14	Occupancy In Use:	<input type="checkbox"/> No In Use: <input checked="" type="checkbox"/>	Accessibility - Accessible:	<input checked="" type="checkbox"/> Inaccessible:	<input type="checkbox"/>
Application:	Lining Sheets	Control - Encapsulate:	<input type="checkbox"/> Leave and Manage:	<input type="checkbox"/> Remove:	<input checked="" type="checkbox"/> N/A:	<input type="checkbox"/> Other:		
ACM Status:	Detected: <input type="checkbox"/> Friable: <input type="checkbox"/> Bonded: <input type="checkbox"/> Not Detected: <input type="checkbox"/>	Labels - Appixed:	<input checked="" type="checkbox"/> Remove:	<input type="checkbox"/> Required:	<input type="checkbox"/> Sample ID #:	L007		
Condition:	Poor	References / Attachments / Comments: The house is extensively painted with the same green paint. A very low concentration of lead detected in the paint.						
Photo Caption:	L007 Sample location		Laboratory: Envirolab Services Pty Ltd					
				Cert. of Analysis:		110213		<b>Lead in Paint</b> %w/w < 0.05 Area m2: 14
				Lab. Refer:		110213-7		
				Enviroconics Refer:		L007		
				Asbestos Detected - Yes: <input type="checkbox"/> No: <input type="checkbox"/>		<b>Asbestos</b>		
				If Detected, What Type:				
				Sample Description:		Area m2:		14
				Not applicable				
Asbestos Assessor: Lawrie Lyons (Enviroconics)								
Drawings & Illustrations								
<p style="text-align: center;"><b>House 3</b></p> <p style="text-align: center;">Red = Asbestos      No Asbestos Detected</p> 								

## Appendix Three –

### NATA Laboratory Results, House Three (Asbestos)



**CERTIFICATE OF ANALYSIS**

**110214**

**Client:**

**Environics (Qld) Pty Ltd**  
3 Jameson St  
Hermit Park  
QLD 4812

**Attention:** Lawrence Lyons

**Sample log in details:**

Your Reference:	<b><u>NQ21608-15 TFTA 0233, Fanning River Station</u></b>
No. of samples:	30 Materials
Date samples received / completed instructions received	22/05/2014 / 22/05/2014

**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.

***Please refer to the last page of this report for any comments relating to the results.***

**Report Details:**

Date results requested by: / Issue Date:	29/05/14 / 27/05/14
Date of Preliminary Report:	Not Issued

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

**Results Approved By:**



Jacinta Hurst  
Laboratory Manager

Asbestos ID - materials						
Our Reference:	UNITS	110214-1	110214-2	110214-3	110214-4	110214-5
Your Reference	-----	A001	A002	A003	A004	A005
Date Sampled	-----	10/04/2014	10/04/2014	10/04/2014	10/04/2014	10/04/2014
Type of sample		Material	Material	Material	Material	Material
Date analysed	-	27/05/2014	27/05/2014	27/05/2014	27/05/2014	27/05/2014
Mass / Dimension of Sample	-	35x15x5mm	40x30x5mm	30x25x5mm	25x16x2mm	40x22x2mm
Sample Description	-	Pink fibre cement material	Grey compressed fibre cement material	Grey compressed fibre cement material	Grey compressed fibre cement material	Grey fibre cement material
Asbestos ID in materials	-	Chrysotile asbestos detected Amosite asbestos detected	Chrysotile asbestos detected Amosite asbestos detected	Chrysotile asbestos detected	Chrysotile asbestos detected	Chrysotile asbestos detected Amosite asbestos detected

Asbestos ID - materials						
Our Reference:	UNITS	110214-6	110214-7	110214-8	110214-9	110214-10
Your Reference	-----	A006	A007	A008	A009	A010
Date Sampled	-----	10/04/2014	10/04/2014	10/04/2014	10/04/2014	10/04/2014
Type of sample		Material	Material	Material	Material	Material
Date analysed	-	27/05/2014	27/05/2014	27/05/2014	27/05/2014	27/05/2014
Mass / Dimension of Sample	-	20x18x5mm	60x52x1mm	27x25x5mm	35x27x6mm	65x40x5mm
Sample Description	-	Pale grey fibre cement material	Beige brittle vinyl tile	Grey compressed fibre cement material	Grey compressed fibre cement material	Grey compressed fibre cement material
Asbestos ID in materials	-	Chrysotile asbestos detected	Chrysotile asbestos detected	Chrysotile asbestos detected	Chrysotile asbestos detected	Chrysotile asbestos detected

Asbestos ID - materials						
Our Reference:	UNITS	110214-11	110214-12	110214-13	110214-14	110214-15
Your Reference	-----	A011	A012	A013	A014	A015
Date Sampled	-----	10/04/2014	10/04/2014	10/04/2014	11/04/2014	11/04/2014
Type of sample		Material	Material	Material	Material	Material
Date analysed	-	27/05/2014	27/05/2014	27/05/2014	27/05/2014	27/05/2014
Mass / Dimension of Sample	-	45x25x5mm	45x30x5mm	35x30x5mm	90x40x1mm	35x25x5mm
Sample Description	-	Grey compressed fibre cement material	Black compressed bituminous material	Grey compressed fibre cement material	Millboard backed beige vinyl sheet	Grey compressed fibre cement material
Asbestos ID in materials	-	Chrysotile asbestos detected Amosite asbestos detected	Chrysotile asbestos detected	Chrysotile asbestos detected	Chrysotile asbestos detected	Chrysotile asbestos detected

Asbestos ID - materials						
Our Reference:	UNITS	110214-16	110214-17	110214-18	110214-19	110214-20
Your Reference	-----	A016	A017	A018	A019	A020
Date Sampled	-----	11/04/2014	11/04/2014	11/04/2014	11/04/2014	11/04/2014
Type of sample		Material	Material	Material	Material	Material
Date analysed	-	27/05/2014	27/05/2014	27/05/2014	27/05/2014	27/05/2014
Mass / Dimension of Sample	-	42x17x5mm	35x30x7mm	90x16x6mm	34x26x2mm	27x25x2mm
Sample Description	-	Grey compressed fibre cement material	Grey compressed fibre cement material	Grey compressed fibre cement material	A)Grey brittle vinyl tile B) Adhesive	A)Marble colored vinyl tile B) Adhesive
Asbestos ID in materials	-	Chrysotile asbestos detected	Chrysotile asbestos detected Amosite asbestos detected	Chrysotile asbestos detected Amosite asbestos detected	A)Chrysotile asbestos detected B)No asbestos detected	A)Chrysotile asbestos detected B)No asbestos detected

Asbestos ID - materials						
Our Reference:	UNITS	110214-21	110214-22	110214-23	110214-24	110214-25
Your Reference	-----	A021	A022	A023	A024	A025
Date Sampled	-----	11/04/2014	11/04/2014	11/04/2014	11/04/2014	11/04/2014
Type of sample		Material	Material	Material	Material	Material
Date analysed	-	27/05/2014	27/05/2014	27/05/2014	27/05/2014	27/05/2014
Mass / Dimension of Sample	-	32x24x1mm	21x17x1mm	32x30x5mm	35x20x6mm	30x20x4mm
Sample Description	-	Fibrous bituminous backed vinyl material	Fibrous bituminous backed vinyl material	Grey compressed fibre cement material	Brown compressed fibre cement material	Beige fibre cement material
Asbestos ID in materials	-	No asbestos detected	No asbestos detected	Chrysotile asbestos detected	Chrysotile asbestos detected Amosite asbestos detected	Chrysotile asbestos detected

Asbestos ID - materials						
Our Reference:	UNITS	110214-26	110214-27	110214-28	110214-29	110214-30
Your Reference	-----	A026	A027	A028	A029	A030
Date Sampled	-----	11/04/2014	11/04/2014	11/04/2014	11/04/2014	11/04/2014
Type of sample		Material	Material	Material	Material	Material
Date analysed	-	27/05/2014	27/05/2014	27/05/2014	27/05/2014	27/05/2014
Mass / Dimension of Sample	-	51x40x5mm	50x20x4mm	13x12x3mm	30x15x3mm	20x11x1mm
Sample Description	-	Grey compressed fibre cement material	Ivory compressed fibre cement material	Grey quartz cement material	Grey quartz cement material	Beige compressed pebbly cement material
Asbestos ID in materials	-	Chrysotile asbestos detected	Chrysotile asbestos detected Amosite asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

Method ID	Methodology Summary
ASB-001	Asbestos ID - Qualitative identification of asbestos in bulk samples using Polarised Light Microscopy and Dispersion Staining Techniques including Synthetic Mineral Fibre and Organic Fibre as per Australian Standard 4964-2004.



**Report Comments:**

Sample 110214-19; The supplied sample was sub-sampled (110214-19A & 110214-19B) in order to accurately report the analytical results representative of the entire sample, as per AS4964-2004.

Sample 110214-20; The supplied sample was sub-sampled (110214-20A & 110214-20B) in order to accurately report the analytical results representative of the entire sample, as per AS4964-2004.

Asbestos ID was analysed by Approved Identifier: Paul Ching  
Asbestos ID was authorised by Approved Signatory: Paul Ching

INS: Insufficient sample for this test  
NA: Test not required  
<: Less than

PQL: Practical Quantitation Limit  
RPD: Relative Percent Difference  
>: Greater than

NT: Not tested  
NA: Test not required  
LCS: Laboratory Control Sample

### **Quality Control Definitions**

**Blank:** This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

**Duplicate:** 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.

**Matrix Spike:** A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

**LCS (Laboratory Control Sample):** This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

**Surrogate Spike:** 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.

### **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: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for SVOC 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.

## Appendix Four –

### NATA Laboratory Results, House Three (Lead in Paint)



**CERTIFICATE OF ANALYSIS**

**110213**

**Client:**

**Environics (Qld) Pty Ltd**  
3 Jameson St  
Hermit Park  
QLD 4812

**Attention:** Lawrence Lyons

**Sample log in details:**

Your Reference:	<b>NQ21608-15 TFTA 0233, Fanning River Station</b>
No. of samples:	10 paints
Date samples received / completed instructions received	22/05/14 / 22/05/14

**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.

***Please refer to the last page of this report for any comments relating to the results.***

**Report Details:**

Date results requested by: / Issue Date:	28/05/14 / 27/05/14
Date of Preliminary Report:	Not Issued

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

**Results Approved By:**



Jacinta Hurst  
Laboratory Manager

Lead in Paint Our Reference: Your Reference Type of sample Date Sampled	UNITS ----- -----	110213-1 L001 paint 10/04/2014	110213-2 L002 paint 10/04/2014	110213-3 L003 paint 10/04/2014	110213-4 L004 paint 10/04/2014	110213-5 L005 paint 10/04/2014
Date prepared	-	23/05/2014	23/05/2014	23/05/2014	23/05/2014	23/05/2014
Date analysed	-	23/05/2014	23/05/2014	23/05/2014	23/05/2014	23/05/2014
Lead in paint	% w/w	0.2	<0.05	0.2	0.1	<0.05

Lead in Paint Our Reference: Your Reference Type of sample Date Sampled	UNITS ----- -----	110213-6 L006 paint 11/04/2014	110213-7 L007 paint 11/04/2014	110213-8 L008 paint 11/04/2014	110213-9 L009 paint 11/04/2014	110213-10 L010 paint 12/04/2014
Date prepared	-	23/05/2014	23/05/2014	23/05/2014	23/05/2014	23/05/2014
Date analysed	-	23/05/2014	23/05/2014	23/05/2014	23/05/2014	23/05/2014
Lead in paint	% w/w	0.3	<0.05	3.3	<0.05	<0.05

Method ID	Methodology Summary
Metals-004	Digestion of Paint chips/scrapings/liquids for Metals determination by ICP-AES/MS and or CV/AAS.

**Client Reference: NQ21608-15 TFTA 0233, Fanning River Station**

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Lead in Paint						Base    Duplicate    %RPD		
Date prepared	-			23/05/2014	110213-1	23/05/2014    23/05/2014	LCS-1	23/05/2014
Date analysed	-			23/05/2014	110213-1	23/05/2014    23/05/2014	LCS-1	23/05/2014
Lead in paint	% w/w	0.05	Metals-004	<0.05	110213-1	0.2    0.3    RPD: 40	LCS-1	108%

**Report Comments:**

Asbestos ID was analysed by Approved Identifier: Not applicable for this job  
Asbestos ID was authorised by Approved Signatory: Not applicable for this job

INS: Insufficient sample for this test	PQL: Practical Quantitation Limit	NT: Not tested
NA: Test not required	RPD: Relative Percent Difference	NA: Test not required
<: Less than	>: Greater than	LCS: Laboratory Control Sample



### **Quality Control Definitions**

**Blank:** This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

**Duplicate:** 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.

**Matrix Spike:** A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

**LCS (Laboratory Control Sample):** This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

**Surrogate Spike:** 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.

### **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.

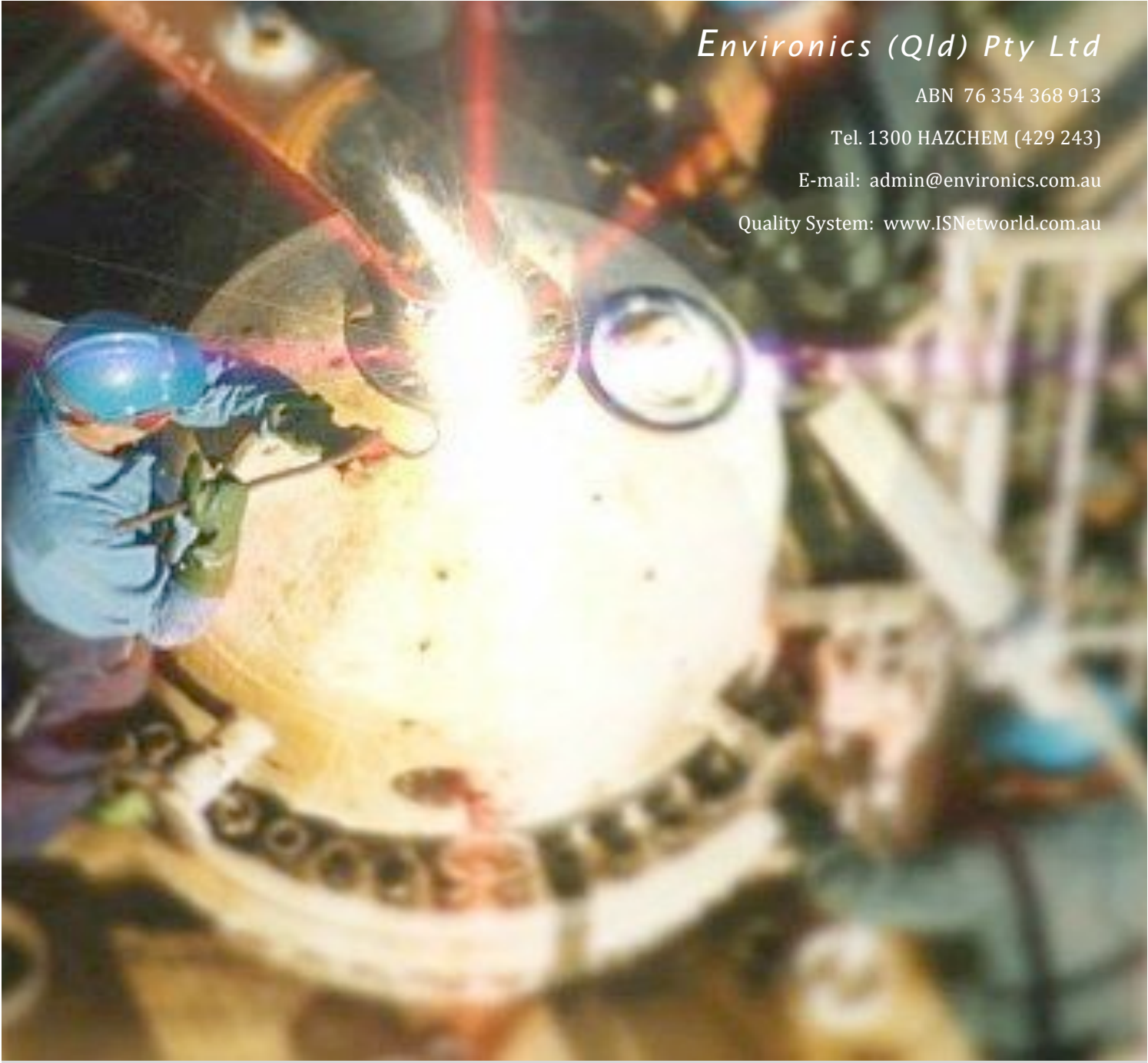
For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for SVOC 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.



*Environics (Qld) Pty Ltd*

ABN 76 354 368 913

Tel. 1300 HAZCHEM (429 243)

E-mail: [admin@environics.com.au](mailto:admin@environics.com.au)

Quality System: [www.ISNetworld.com.au](http://www.ISNetworld.com.au)

## *Think Safety, Work Safely*

The first recognised institution to print the word **Environics** was Cambridge University when in 1969 they defined the word in their dictionary as meaning:

*“ The study of human behaviour as influenced by environmental factors.”*

Accordingly, environmental factors from an industrial worker's perspective also includes the conditions of a workplace and it was for this reason we incorporated the word in 1995 for use in Australia as describing what we do best as workplace assessors, environmental scientists and engineers.

*Environics (Australia)*