



A GREENCAP  
CONSULTING COMPANY

# Risk Management Services

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## ASBESTOS FIBRE AIR MONITORING REPORT

Our Ref: C107605:J111804.156-20131011

Client: Hanson Construction Materials Pty Ltd

Attention: Martin Gear - Project Manager Aggregates

Job Location: East Guyong Quarry, Mitchell Highway, East Guyong NSW

Report Date: Wednesday 16 October 2013

Test Date: Friday 11 October 2013

Sampling Procedure: Control

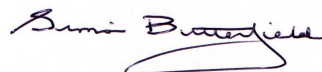
Sampled By: Pumps On: Pere Riini (Hanson)  
Pumps Off: Pere Riini (Hanson)

Method: *Filters examined in accordance with Safe Work Australia's Guidance Note on the Membrane Filter Method for the Estimation of Airborne Asbestos Fibres, 2<sup>nd</sup> Edition, 2005 [NOHSC:3003: (2005)] – Refer NAA Internal Laboratory Test Method NALAB 301.*

| Filter No.                                                                                            | Test Type<br>Sample Location                                                                                                                                                                 | Sample Period<br>Start-Finish | Average Flow Rate<br>(L/min) | Fibres/<br>Fields | Result(s)<br>Fibres/mL |
|-------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|------------------------------|-------------------|------------------------|
| Control/static monitoring during earthworks in the Infrastructure Area on the East Guyong Quarry Site |                                                                                                                                                                                              |                               |                              |                   |                        |
| 167871                                                                                                | Field Blank                                                                                                                                                                                  | -                             | -                            | 0.0/100           | -                      |
| 167732                                                                                                | Location 1 – Near Southern Boundary of Site, Access Road to Residence (No.3472) off Mitchell Highway, approx. 120 metres North of South Site Boundary – On barbed wire fence                 | 0710 – 1346                   | 1.00                         | 0.5/100           | < 0.01                 |
| 167933                                                                                                | Location 3 – Near Southern Boundary (SE Corner) of Site, Adjacent to New Access Road Entry (No.3410) off Mitchell Highway, approx. 30 metres from South Site Boundary – On barbed wire fence | 0713 – 1349                   | 1.00                         | 0.0/100           | < 0.01                 |
| 167743                                                                                                | Location 4 – Near Eastern Boundary (near SE Corner) of Site, approx. 70 metres West of Shed, Access Road – On barbed wire fence                                                              | 0716 – 1352                   | 1.00                         | 0.0/100           | < 0.01                 |
| 167736                                                                                                | Location 5 – Near Eastern Boundary (near Centre) of Site, approx. 50 metres West of East Site Boundary – On fencing post                                                                     | 0719 – 1355                   | 1.00                         | 0.0/100           | < 0.01                 |
| 167803                                                                                                | Location 6 – Western Boundary of Proposed Quarry Pit (near Western Site Boundary) – On barbed wire fence                                                                                     | 0724 – 1359                   | 1.00                         | 1.0/100           | < 0.01                 |
| 167809                                                                                                | Location 8 – Western Boundary (near NW Corner) of Site – On barbed wire fence                                                                                                                | 0727 – 1403                   | 1.00                         | 0.0/100           | < 0.01                 |
| 167957                                                                                                | Location 10 – Near Northern Boundary of Site (near NE Corner Site) – On fencing post                                                                                                         | 0732 – 1408                   | 1.00                         | 0.0/100           | < 0.01                 |

| Filter No.                                           | Test Type<br>Sample Location                                 | Sample Period<br>Start-Finish | Average Flow Rate<br>(L/min) | Fibres/<br>Fields | Result(s)<br>Fibres/mL |
|------------------------------------------------------|--------------------------------------------------------------|-------------------------------|------------------------------|-------------------|------------------------|
| 167799                                               | Location N1 – Northern Boundary Fence of Infrastructure Area | 0735 – 1411                   | 1.00                         | 0.0/100           | < 0.01                 |
| 167758                                               | Location N2 – Western Boundary Fence of Infrastructure Area  | 0744 – 1420                   | 1.00                         | 0.0/100           | < 0.01                 |
| 167717                                               | Location N3 – Eastern Boundary Fence of Infrastructure Area  | 0738 – 1414                   | 1.00                         | 0.0/100           | < 0.01                 |
| 167753                                               | Location N4 – Southern Boundary Fence of Infrastructure Area | 0741 – 1417                   | 1.00                         | 0.0/100           | < 0.01                 |
| Exposure/personal monitoring during earthworks in IA |                                                              |                               |                              |                   |                        |
| 167819                                               | Excavator Operator – John Willis (EODO)                      | 0750 – 1424                   | 1.00                         | 0.0/100           | < 0.01                 |

Note: Pere Riini of Hanson Construction Materials Pty Ltd has been formally trained as a third party for volume measurement. Noel Arnold & Associates Pty Ltd assume responsibility for the data collected.



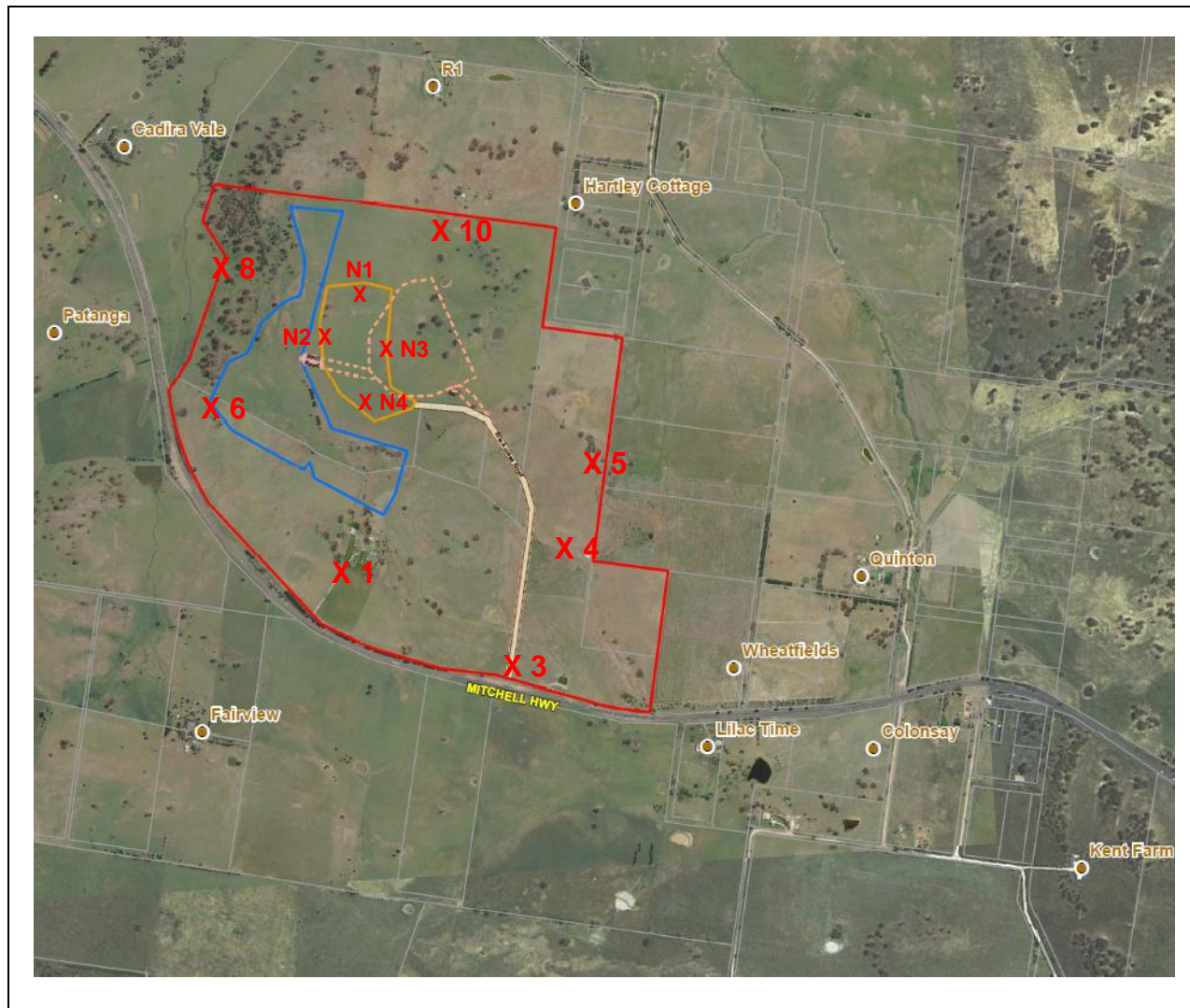
APPROVED COUNTER & SIGNATORY:  
SIMON BUTTERFIELD



Accredited for compliance with ISO/IEC 17025.  
Corporate Site No. 5450, Site No. 3402 Sydney  
Laboratory.

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in full.

Figure 1 – Air Monitoring Location



**Air Monitoring Sampling Plan  
East Guyong Quarry Site**

Monitoring Date: 11<sup>th</sup> October 2013

**Legend**

- X 1 Air monitoring locations
- Project Boundary
- Proposed Quarry Boundary
- Proposed Infrastructure Area Boundary

**Air Monitoring Location Coordinates**

|              |                        |              |                        |
|--------------|------------------------|--------------|------------------------|
| Location 1:  | 709,104mE ; 6300,660mN | Location N1: | 709,211mE ; 6301,528mN |
| Location 3:  | 709,601mE ; 6300,370mN | Location N2: | 709,035mE ; 6301,323mN |
| Location 4:  | 709,729mE ; 6300,716mN | Location N3: | 709,396mE ; 6301,245mN |
| Location 5:  | 709,870mE ; 6300,905mN | Location N4: | 709,208mE ; 6301,040mN |
| Location 6:  | 708,803mE ; 6301,185mN |              |                        |
| Location 8:  | 708,824mE ; 6301,587mN |              |                        |
| Location 10: | 709,465mE ; 6301,633mN |              |                        |

**Weather Conditions\***

|          |      |                |                           |
|----------|------|----------------|---------------------------|
| General  | Fine | Wind Direction | No data (technical issue) |
| Rainfall | 0    | Wind Speed     | No data (technical issue) |

\* East Guyong Quarry Weather Station