



A GREENCAP
CONSULTING COMPANY

Risk Management Services

NOEL ARNOLD & ASSOCIATES PTY LTD
A.C.N. 006 318 010 A.B.N. 76 006 318 010
Level 2, 11 Khartoum Road,
North Ryde, NSW 2113 Australia
Phone: (02) 9889 1800
Fax: (02) 9889 1811
Email: sydney@noel-arnold.com.au
www.noel-arnold.com.au

ASBESTOS FIBRE AIR MONITORING REPORT

Our Ref: C107605:J111804 M015-20130121
Client: Hanson Construction Materials Pty Ltd
Attention: Martin Gear - Project Manager Aggregates
Job Location: East Guyong Quarry, Mitchell Highway, East Guyong NSW
Report Date: Monday 21 January 2013 **Test Date:** Monday 21 January 2013
Sampling Procedure: Control **Sampled By:** Pumps On: SB
Pumps Off: SB

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

| Filter No. | Test Type Sample Location | Sample Period Start-Finish | Average Flow Rate (L/min) | Fibres/ Fields | Result(s) Fibres/mL |
|--|--|-------------------------------|------------------------------|-------------------|------------------------|
| Control static monitoring during excavation works in the eastern section of the southern side of the Mitchell Highway Intersection Upgrade | | | | | |
| 934 | Field Blank | - | - | 0.0/100 | - |
| 2104 | Location M1 - Southern Side of Mitchell Highway, East of Work Area – On signage | 0841 – 1612 | 1.20 | 7.0/100 | < 0.01 |
| 2195 | Location M2 - Southern Side of Mitchell Highway, West of Work Area – On fence post | 0846 – 1615 | 1.20 | 0.0/100 | < 0.01 |
| 1019 | Location M3 - Southern Side of Mitchell Highway, South of Work Area (site compound) – On fence | 0852 – 1608 | 1.20 | 7.5/100 | < 0.01 |
| 1243 | Location M4 - Northern Side of Mitchell Highway, North of Work Area – On road post | 0858 – 1623 | 1.20 | 1.0/100 | < 0.01 |
| 2211 | Location M5 – Southern Side of Mitchell Highway, Site Compound, Lunch Shed – On bench | 0855 – 1620 | 1.20 | 8.0/100 | < 0.01 |
| Control static monitoring during scraping of the topsoil for the new access road on the northern side of the East Guyong Quarry Site | | | | | |
| 1225 | Location M6 - Northern Side of Mitchell Highway, South of Work Area – On fence | 0904 – 1626 | 1.20 | 1.0/100 | < 0.01 |
| 2129A | Location M7 - Northern Side of Mitchell Highway, North of Work Area – On fence | 0907 – 1641 | 1.20 | 0.0/100 | < 0.01 |
| 2150A | Location M8 - Northern Side of Mitchell Highway, East of Work Area – On fence | 0910 – 1637 | 1.20 | 1.0/100 | < 0.01 |
| 2186 | Location M9 - Northern Side of Mitchell Highway, West of Work Area – On rock outcrop | 0925 – 1629 | 1.20 | 0.0/100 | < 0.01 |

| Filter No. | Test Type Sample Location | Sample Period Start-Finish | Average Flow Rate (L/min) | Fibres/ Fields | Result(s) Fibres/mL |
|--|--|-------------------------------|------------------------------|-------------------|------------------------|
| Exposure monitoring during the excavation / scraping works | | | | | |
| 2079 | Marty Rookyard (EODO Pty Ltd) – Excavator Operator (for new access road) | 0915 – 1632 | 1.20 | 2.0/100 | < 0.01 |
| 2122 | Simon Butterfield (NAA) – Surveillance & Spotter (for new access road & southern side of Mitchell Highway Upgrade Works) | 1023 – 1644 | 1.50 | 4.0/100 | < 0.01 |

**APPROVED COUNTER AND SIGNATORY :
SIMON BUTTERFIELD**

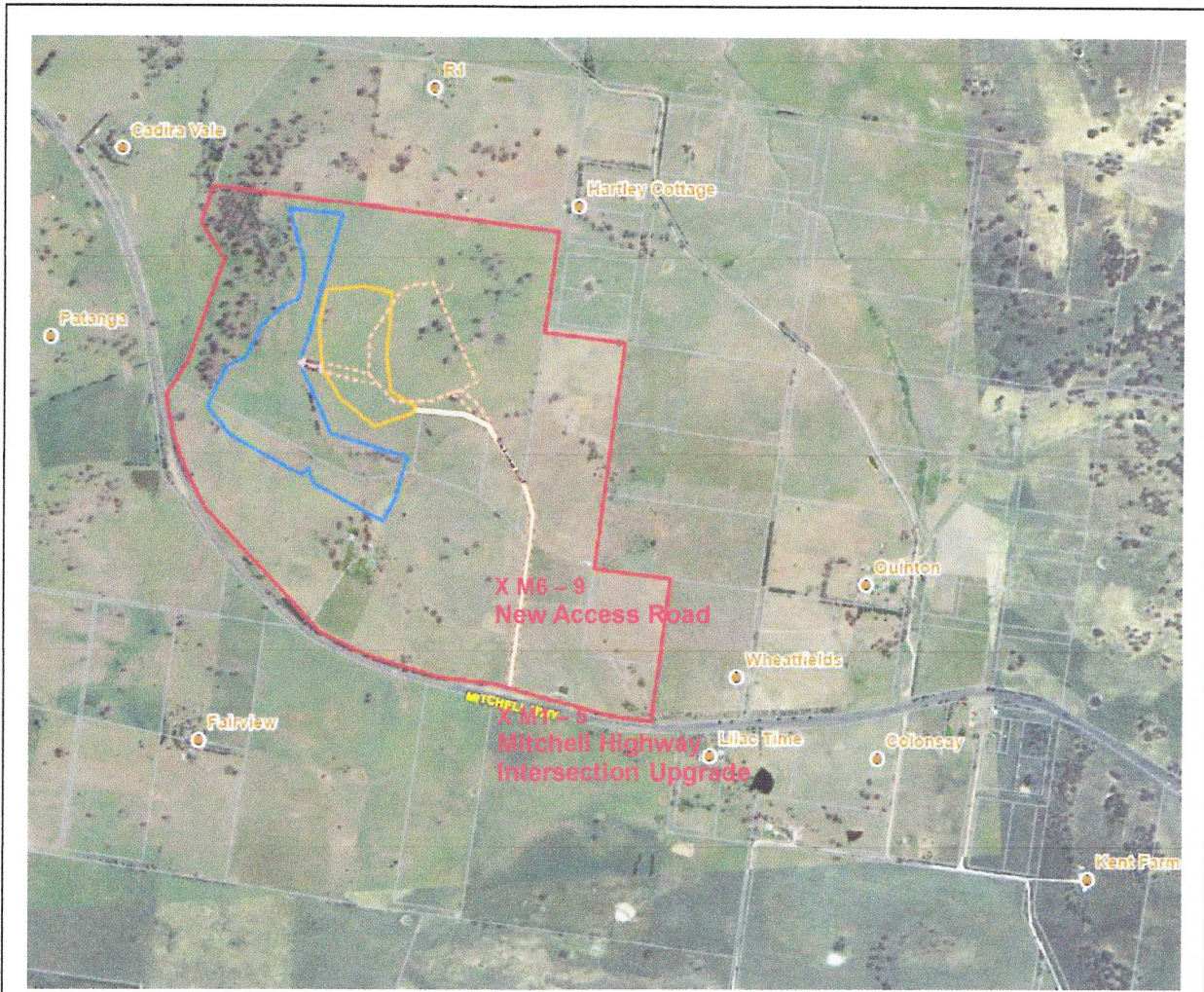


This document is issued in accordance with NATA's accreditation requirements.

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

This document shall not be reproduced, except in full.

Figure 1 – Air Monitoring Locations



| | | | |
|--|------------------------|--|------------------------|
| <p>Air Monitoring Sampling Plan East Guyong Quarry Mitchell Highway Intersection Upgrade Site</p> <p>Monitoring Date: 21st January 2013</p> | | <p>Legend</p> <ul style="list-style-type: none"> X 1 Air monitoring locations — Project Boundary — Proposed Quarry Boundary — Proposed Infrastructure Area Boundary | |
| <p>Air Monitoring Location Coordinates</p> | | | |
| Location M1: | 709,633mE ; 6300,275mN | Location M2: | 709,526mE ; 6300,314mN |
| Location M3: | 709,555mE ; 6300,277mN | Location M4: | 709,592mE ; 6300,316mN |
| Location M5: | 709,546mE ; 6300,276mN | Location M6: | 709,610mE ; 6300,548mN |
| Location M7: | 709,610mE ; 6300,704mN | Location M8: | 709,632mE ; 6300,635mN |
| Location M9: | 709,557mE ; 6300,628mN | | |
| <p>Weather Conditions*</p> | | | |
| General | Mostly Fine | Wind Direction | Mostly North East |
| Rainfall | 0.0 mm | Wind Speed | 2 – 22 km/h |

* East Guyong Quarry Weather Station