



Asbestos Clearance Certification

**Townson Road Precinct
Marsden Park
NSW 2765**

Prepared for:

Townson Road Landowners Group
c/o Mecone
Suite 805, 185 Elizabeth St
Sydney NSW 2000

Prepared by:

DLA Environmental

DL3164_S001025

October 2013

Sydney

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Maitland

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Branxton NSW 2335
Phone: 4933 0001

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ABN 36 926 003 197

1.0 INTRODUCTION

DLA Environmental (DLA) was commissioned by the Townson Road Landowners Group to undertake an Asbestos Clearance Validation for the removal of fragments of Asbestos Containing Material (ACM) from the surface of a dam bank in the north eastern corner of the Townson Road Precinct, located on Townson Road, Marsden Park NSW. Clearance certification was required following the identification of surface fragments of ACM during the Preliminary Site Investigation by DLA in September 2013.

Refer to **Figure 1 – Site Location** and **Figure 2 – Site Layout with ACM Location**

On completion of the remediation process and after the removal of all visible ACM fragments, DLA Environmental undertook an asbestos clearance investigation in accordance with the *Code of Practice – How to Safely Remove Asbestos* (Safe Work Australia, 2011).

The Asbestos Clearance Investigation of the site included two (2) stages:

— Visual Asbestos Clearance Inspection

- Conducted visual inspection following hand pick and removal of ACM fragments, 8th October 2013.

— Asbestos Clearance Soil Sampling

- Conducted bulk sampling of dam embankment on the 8th October 2013.

2.0 CLEARANCE METHODOLOGY

The sampling regime adopted by DLA Environmental for this Asbestos Clearance Certification was based on ensuring the entire remediation area was assessed. Outlined below is the complete Asbestos Clearance Certification procedures and methodology as utilised by DLA Environmental following the completion of asbestos-contaminated material removal.

The procedures used were formulated from methods outlined in *Part 3.10; Clearance Inspection* of the *How to Safely Remove Asbestos Code of Practice* (Safe Work Australia, 2011). These included Visual Inspections by an independent competent person and Soil Sampling and analysis.

2.1 Visual Asbestos Clearance Inspection

ACM was hand-picked by a class B licensed asbestos removalist with all visible ACM fragments removed off-site. Visual Clearance Inspection of the residual soils involved inspecting the surface of the dam bank. The areas were inspected thoroughly for the presence of fragments of ACM.

Upon completion of the remediation process, asbestos clearance soil sampling was conducted on the dam bank.

2.2 Asbestos Clearance Soil Sampling

Bulk soil samples were collected from the dam bank. Any subsequent positive results will determine that the associated soil would be unsuitable and would require remediation and disposal to a licensed Landfill Facility in accordance with the DECCW 2009 Waste Classification Guidelines: Part 1 Classifying Waste.

Soil sampling was conducted in accordance with the NSW EPA *Contaminated Sites: Sampling Design Guidelines*, September 1995. Bulk soil sampling involves the collection of multiple sub-samples from within a nominated area that are combined to form one (1) bulk sample. The entire bulk sample is then analysed for asbestos content. This technique substantially increases the possibility of positively identifying asbestos fibre, if present. The bulk sample must be kept below 500 grams to allow the NATA Laboratory to analyse the entire sample.

During the assessment, remediation and certification of contaminated sites the integrity of data collected is paramount. With the remediation and certification of the stockpile area a number of measures were utilised.

2.2.1 Sample Collection

All samples were collected by DLA Environmental representatives who are specifically trained in hazardous waste field investigation techniques and health and safety procedures. All techniques used are specified in DLA Environmental Field Manual for Contaminated Sites, which are based on methods specified by the NSW EPA, NSW Workcover Authority and the United States Environment Protection Agency (US EPA).

2.2.2 Sample Containment

The bulk samples were placed directly into sealed zip lock polyethylene plastic bags, which were then placed within a larger sealed plastic bag to be delivered to the lab. Sample identification was included on each individual plastic bag.

2.2.3 Decontamination

All equipment used in the sampling program were decontaminated prior to use and between samples to prevent cross contamination. Decontamination of equipment involved the following procedures:

- Cleaning equipment in potable water to remove gross contamination;
- Cleaning in a solution of Decon 90 and water, and;
- Rinsing in clean demineralised water followed by wiping with clean lint free cloths.

2.2.4 Sample Tracking and Identification

All samples were identified with a unique sample number and all sampling details were included on the sample label and were reproduced on the chain of custody records.

2.2.5 Sample Transport

All soil samples were transported under chain of custody from the site to Australian Safer Environment and Technology Pty Ltd of Hornsby, Sydney. Australian Safer Environment and Technology Pty. Ltd. is NATA registered for asbestos analysis. During the project, the laboratory reported that all the samples arrived intact.

3.0 RESULTS

Asbestos clearance certification results are provided below for the northeast dam area of the Townson Road Precinct, Townson Road, Marsden Park NSW.

Clearance validation is based upon the entire area being:

- Clear of visual asbestos containing materials; and,
- Asbestos soil samples having no asbestos content.

3.1 Visual Inspections

A visual inspection of the dam bank following the hand pick and removal of the impacted material failed to identify any ACM following remedial works. At the completion of works the dam bank was thoroughly inspected and indicated that all ACM had been removed.

3.2 Soil Sampling

Results from soil analysis by a NATA Certified Laboratory indicate that the remediated excavation areas are free of asbestos.

NATA Certified Laboratory Results are attached as **Appendix A**.

Table 3a: Dam Bank Soil Sampling

Sample	Date	Description	Result
Dam East	8/10/2013	Eastern Portion of Dam Bank	No Asbestos Detected
Dam West	8/10/2013	Western Portion of Dam Bank	No Asbestos Detected

The above samples were obtained to ensure all contamination had been removed. Sampling indicated that all contaminated material had been either removed from the Site or remediated effectively.

3.3 Quantities

The handpicked ACM fragments were transported to an appropriate disposal facility alongside other ACM collected from separate asbestos remediation works conducted by the removalist. The ACM was transported to SITA Waste Disposal Facility at 20 Davis Road, Wetherill Park, an EPA licensed landfill facility. The disposal documentation details 1.84 tonnes of asbestos containing materials received at the landfill.

Refer to **Appendix B** – Disposal Documentation

4.0 CONCLUSION

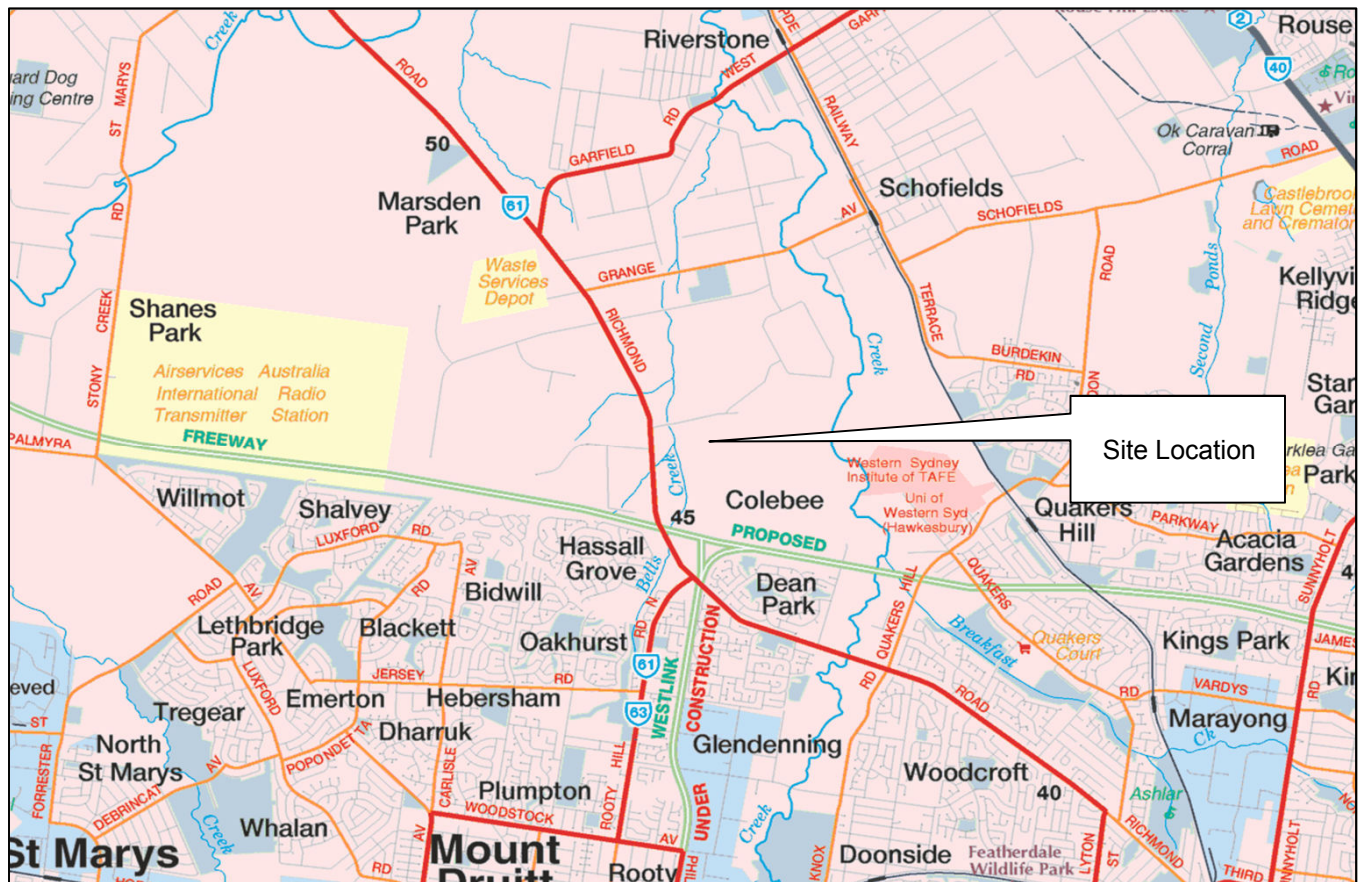
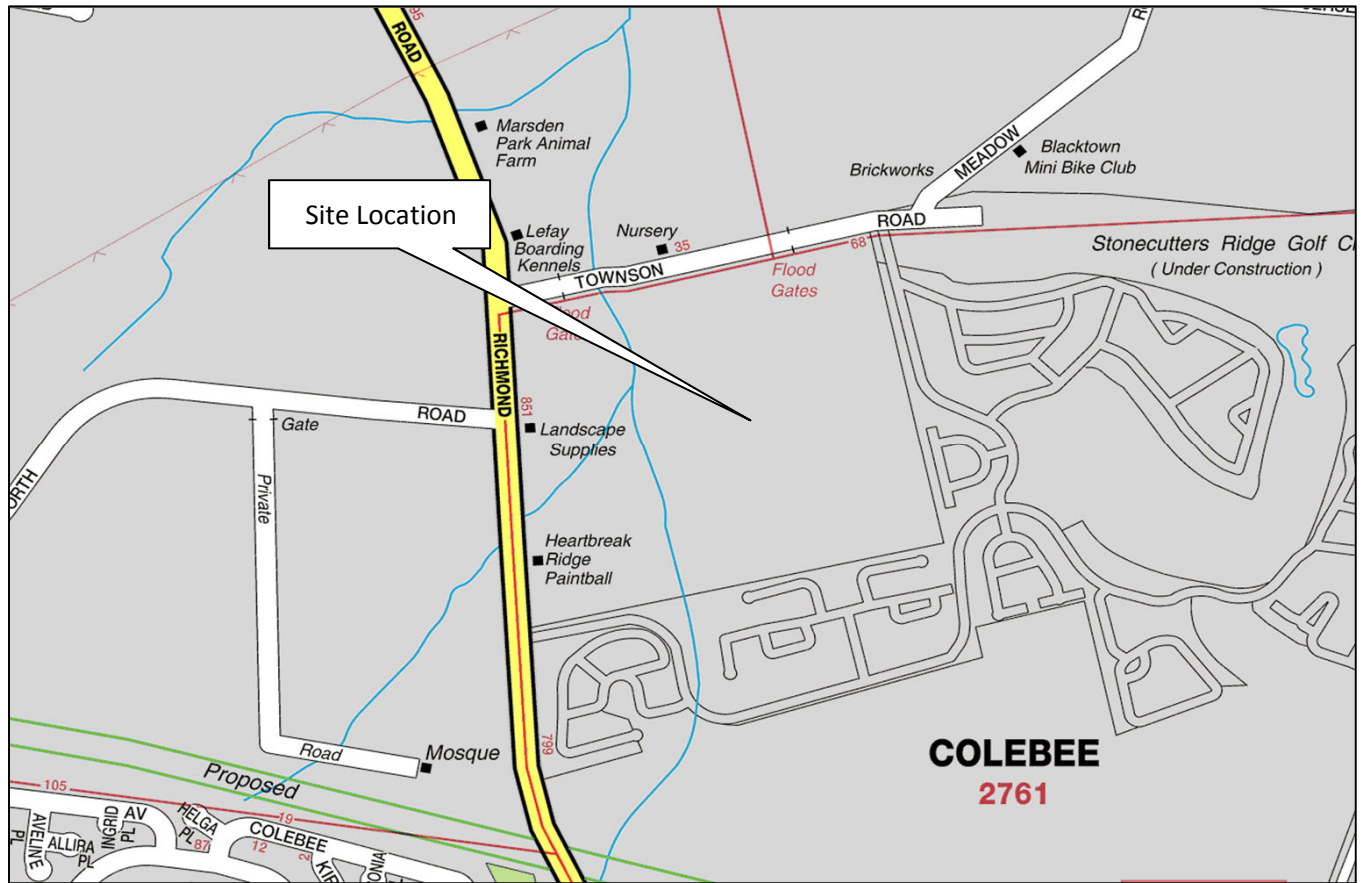
Laboratory analysis and visual inspection has found no evidence of bonded asbestos within the surface soils of the dam bank in the northeast of the Site and asbestos fines or fibrous asbestos was not detected within soil samples collected. The clearance inspections, analysis and monitoring results are satisfactory and indicate that asbestos containing materials have been successfully removed from surface of the dam bank in the north east of the Townson Road Precinct, Marsden Park. The area can now be accessed without risk to health or the environment generally.

Due to the nature of the material and associated site history, it is never possible to guarantee every fragment of asbestos containing material has been identified. In the unlikely event that soil disturbance uncovers a fragment of an asbestos containing material, given its bonded matrix and isolated nature; this event would not pose an unacceptable health risk to the property. All asbestos events should be addressed however and for this reason the Unexpected Finds Protocol in use at the Site should be included for future site activities. The Unexpected Finds Protocol should be implemented to address any minor discoveries.

Refer to **Appendix C** – Unexpected Finds Protocol.

Figure 1

Site Location



 Unit 2b/30 Leighton Place Hornsby, NSW 2077	DESIGNED: DLA	SITE LOCATION	
	COMPILED: JC	CLIENT: Mecone	DRAWING: 11/09/2013
	PROJ. No. DL3164	LOCATION: Townson Road Colebee	FIGURE: 1

Figure 2

Site Layout with Unexpected Find Location

Townson Road, Colebee, NSW

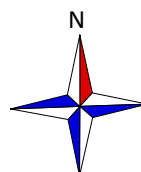
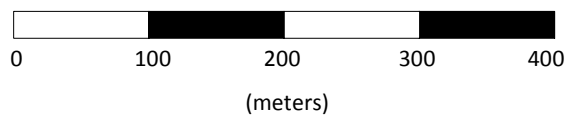


Figure modified from www.nearmaps.com.au 2.09.2013 air photo

Legend

- Site Boundary
- Clearance Location

Scale



Unit 2b/30 Leighton Place
Hornsby, NSW 2077

Title: Clearance Location

Client: Mecone	Job No: DL3164	Figure No: 2	Date: 15/10/2013
Newcastle Office Phone (02) 4949 3800 Fax (02) 4949 3811	Sydney Office Phone (02) 9476 1765 Fax (02) 9476 1557	Scale: As Shown	Sheet: 1 of 1
		Revision: R00	

Appendix A

NATA Certified Analytical Data



AUSTRALIAN SAFER ENVIRONMENT & TECHNOLOGY PTY LTD

ABN 36 088 095 112

Our ref: ASET35528/ 38708 / 1 - 2
Your ref: DL3164 - Townson Road
NATA Accreditation No: 14484

14 October 2013

DLA Environmental
2B/30 Leighton Street
Hornsby NSW 2077

Attn: Mr David Lane

Dear David

Asbestos Identification

This report presents the results of two samples, forwarded by DLA Environmental on 10 October 2013, for analysis for asbestos.

1.Introduction:Two samples forwarded were examined and analysed for the presence of asbestos.

2. Methods : The samples were examined under a Stereo Microscope and selected fibres were analysed by Polarized Light Microscopy in conjunction with Dispersion Staining method (**Safer Environment Method 1.**)

3. Results : **Sample No. 1. ASET35528 / 38708 / 1. Dam East.**
Approx dimensions 7.1 cm x 6.8 cm x 3.8 cm
The sample consisted of a mixture of clayish soil, stones and plant matter.
No asbestos detected.

Sample No. 2. ASET35528 / 38708 / 2. Dam West.
Approx dimensions 8.1 cm x 7.1 cm x 3.2 cm
The sample consisted of a mixture of clayish soil, stones and plant matter.
No asbestos detected.

Analysed and reported by,

Nisansala Maddage. BSc(Hons)
Environmental Scientist/Approved Identifier
Approved Signatory



This document is issued in accordance with NATA's Accreditation requirements. Accredited for compliance with ISO/IEC 17025.

SUITE 710 / 90 GEORGE STREET, HORNSBY NSW 2077 – P.O. BOX 1644 HORNSBY WESTFIELD NSW 1635
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OCCUPATIONAL HEALTH & SAFETY STUDIES • INDOOR AIR QUALITY SURVEYS • HAZARDOUS MATERIAL SURVEYS • RADIATION SURVEYS • ASBESTOS SURVEYS
ASBESTOS DETECTION & IDENTIFICATION • REPAIR & CALIBRATION OF SCIENTIFIC EQUIPMENT • AIRBORNE FIBRE & SILICA MONITORING

Appendix B

Disposal Documentation



B.U GROUP PTY LIMITED

ASBESTOS REMOVAL AND MANAGEMENT*ROOF AND WALL
CLADDING REMOVAL AND REPLACEMENT*REINSULATION*
CONTAMINATED WASTE CLEAN UP*GENERAL DEMOLITION
AND STRIPOUT*OBLIGATION FREE QUOTES AND ADVICE*
24 HOUR EMERGENCY SERVICE.

Date: 15/10/13

To: Chase Property Investments Pty Ltd
Level 1/179 Victoria Road,
Drummoyne NSW 2047

Dear Sir/Madam,

As require. Asbestos we do the job at 68 Townson Rd, Schofields. approximately ½ bags, our worker take to one site with have a bin there. So you can see so many weights on the tipping docket.

We thank you for the opportunity to do business with you. Should you require any further assistance, please do not hesitate to contact us on 02 9608 2151

Yours Faithfully,
BU Group Pty Ltd

SITA Australia

ABN: 76 002 902 650

Phone: 02 9609 3377

Wetherill Park NSW 2164

Tax Invoice

Reference: DR210007638.0

Voucher No: 151 09 02 8/10/2013

REGGROSS
TARE
NET

BIS6NU
2.32t
1.52t
0.80t

Account: 800189

80189 - CASH TRANSACTION - DRD INT
Cust ref: DR

SPECIAL - ASBESTOS -1575

0.80t @ \$300.00t \$240.00

Source: External

Dest: Davis Road WMC

Total (ex GST): \$240.00

ST: \$24.00

Total Price: \$264.00

Payment Details

CREDIT CARD \$264.00
Total Amount Tendered \$264.00
Change Given: \$0.00

Driver:

Operator:

WOKAF

SITA Australia

ABN: 76 002 902 650

Phone: 02 9609 3377

Wetherill Park NSW 2164

Tax Invoice

Reference: DR210006642.0

Voucher No: 1504 15 29 27/09/2013

REGGROSS
TARE
NET

BQ27HO
3.38t
1.54t
1.84t

Account: 800189

800189 - CASH TRANSACTION - DRD INT
Cust ref: DR

DRY Small Vehicles -1212

1.84t @ \$267.27t \$491.78

Source: External

Dest: Davis Road WMC

Total (ex GST): \$491.78

GST: \$49.18

Total Price: \$540.96

Payment Details

CREDIT CARD \$540.96
Total Amount Tendered \$540.96
Change Given: \$0.00

Driver:

Operator:

WONKT

Appendix C

Unexpected Finds Protocol

Unexpected Find of Asbestos Containing Material PROTOCOL

Townson Road Precinct Townson Road Marsden Parl, NSW 2765

Listed below are the steps that need to be followed in the event of an unexpected discovery of suspected asbestos containing materials within the Townson Road Precinct, Townson Road, Marsden Park, 2765. Previous studies have identified asbestos containing material in the north east of the Site.

Due to the nature of this material it is not possible to guarantee every fragment has been identified, therefore, it is appropriate this Unexpected Find Protocol is introduced on the Site.

This protocol is to be posted on-site in an accessible location for all operators to read with its contents included in the on-site induction package.

➤ SUSPECTED ASBESTOS MATERIAL UNCOVERED

1. Cease disturbance of the material and leave the immediate area.
2. Contact the Site Foreman or appropriate Manager.
3. Foreman to conduct an assessment of the location of the suspected asbestos containing material taking into consideration possible asbestos matrix and quantity of material. ie. If the quantity is small and the material is bonded the Foreman may initiate a cleanup using appropriate personal protective equipment and procedures.
4. If Foreman decides the material and quantities warrants further investigation the area is to be barricaded off to provide a ten metre (10m) exclusion zone. Work can recommence in adjacent areas outside the exclusion zone.
5. The Foreman arranges with his Manager to organise a further qualified assessment of the suspected materials.
6. Visual assessments and samples collected by a suitably qualified Occupational Hygienist. Samples sent to a NATA registered laboratory for analysis.

7. Confirm Presence of Asbestos by Visual or Analysis?

YES – Conduct asbestos clean-up utilising accepted practices in accordance with the Safe Work Australia Code of Practice and Chapter 8 Part 8.7 Asbestos – Particular Provisions of the WHS Regulation 2011.

Conduct visual clearance inspections and airborne asbestos monitoring.

If both inspections and monitoring are acceptable the barricades can be removed and resume work notification instructed.

Complete the Asbestos Incident Report form and forward to designated Management.

NO - Remove the barricades and resume work.

**Townson Road Precinct
Townson Road
Marsden Park, NSW 2765**

Asbestos Incident Report

Report Number _____

Time of Incident _____

Date of Incident _____

Details of
Incident _____

Classification of Incident (Circle)

Minor asbestos Incident
Major Asbestos Incident
Breach of Regulations
Regulatory Involvement

Immediate Action Taken:

Signed: _____

Date: _____