



PICKFORD & RHYDER CONSULTING PTY LTD

ABN 17 105 546 076

Occupational Hygiene Measurements and Solutions. NATA
Accredited.

PO Box 1422 Lane Cove 1595

Rear - 244 Burns Bay Road
Lane Cove NSW
Australia

Phone: (02) 9418 9151

Fax: (02) 9418 9150

HAZARDOUS MATERIALS REPORT AFRICAN SAVANNAH & CONGO EXHIBITS MOSMAN TARONGA ZOO

Report prepared by

Gary Rhyder
Occupational Hygienist COH, FAIOH

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I. INTRODUCTION

The Taronga Conservation Society Australia is proposing to create the African Savannah and Congo Exhibits. As part of the DA application Gary Rhyder and Katrina Grose of Pickford and Rhyder Consulting Pty Ltd visited the site on 29 September to 2016. The purpose of the visit was to identify buildings that were to be demolished and prepare hazardous materials report on the buildings identified to the demolished.

The Diagram in Appendix A shows the extent of the works for the African Savannah and Congo Exhibits.

II. PROJECT BACKGROUND

The African Savannah & Congo forms a key part of the '2013 Centenary Plan' which seeks to build upon the success of the 2000 Master Plan by enhancing the zoo experience, improving animal welfare and providing an opportunity to capture the essence of Taronga 'For the Wild' Mantra as a driver for zoo visitors and staff.

The Africa Precinct brings animals from the same geographic area into one focused space where the diversity of the African continent can be better interpreted and creates greater opportunity for visitor dwell time.

To deliver an 'African Savannah and Congo' precinct by redeveloping the African Savannah with expanded space for a combined Giraffes and zebra exhibit, brings lions back to the public view by mid-2018 in order to consolidate African wildlife to a single precinct, highlight the giraffe and lion and retain the city as a backdrop.

III. HAZARDOUS MATERIALS SURVEY

The hazardous material survey conducted on 29 September 2106 was intended to identify buildings affected by the project that contain hazardous materials. To achieve this goal a walk around of the proposed site of the African Savannah & Congo Exhibits was conducted in association with the site asbestos register. It was not intended to carry out an extensive survey of the buildings as this will be done prior to the demolition of the buildings.

The buildings that are currently identified as containing asbestos containing material (ACM) in the proposed African Savannah and Congo Exhibits are;

Turner House – Contains ACM walls, ceilings and eaves. All of the ACM in the building is non friable and currently in good condition.

Orangutan office – contains ACM walls and ceilings. All of the ACM is non friable and is in good condition.

Giraffe House - Contains ACM in the form of a water proofing membrane on the roof.

Appendix B contains photographs Turner House (photos 1 and 2) and the Giraffe House (Photo 3).

No investigation was carried out on the extent of ACM soil in the proposed African Savannah & Congo Exhibits. Based on previous work on the site there is a likelihood that non friable ACM may be present in the soil.

IV. CURRENT MANAGEMENT OF HAZARDOUS MATERIALS

Taronga Zoo, Mosman has an Asbestos Management Plan (AMP) for the site. The goal of the AMP is to give consideration to the removal of ACM at Taronga Zoo during renovation, refurbishment and/or maintenance, where practicable, in preference to other control measures such as enclosure, encapsulation or sealing.

The ACM contaminated soil on site is managed in accordance with the site Asbestos Cement Contaminated Soil Methodology.

V. MANAGEMENT OF PROPOSED WORKS

Currently the buildings are occupied and a comprehensive survey could not be conducted. When the buildings are no longer occupied a comprehensive survey for hazardous materials will be conducted for the purpose of the demolition.

All works carried out on the buildings involving the removal of ACM will be carried out in accordance with the following legislation and Codes of Practice;

Work Health and Safety Act 2011

Work Health and Safety Regulation 2011

How to Safely Remove Asbestos Code of Practice 2014

Protection of the Environment Operations (Waste) Regulation 2014

A Safework NSW licensed asbestos removalist will be used to remove the ACM from the buildings and an Asbestos Clearance Report issued prior to demolition works.

Air monitoring for airborne asbestos fibres is not required for non-friable removal work. However, Taronga Zoo has a policy of conducting air monitoring for asbestos removal work. All air monitoring will be conducted in accordance with the National Association of Testing Authorities (NATA) requirements, using the April 2005 National Occupational Health & Safety Commission 'Guidance Note on the Membrane Filter Method (MFM) for Estimating Airborne Asbestos Dust' (2nd Edition).

APPENDIX A

DIAGRAMS OF EXTENT OF WORKS







APPENDIX B

PHOTOGRAPHS OF IDENTIFIED BUILDINGS



Photo 1 Turner House front office – AC walls and ceiling



Photo 2 Turner House – AC eaves



Photo 3 Original Giraffe House