


GEOTECHNIQUE® PTY LTD

ABN 64 002 841 063

# PRELIMINARY CONTAMINATION ASSESSMENT

## PROPOSED MULTI STOREY MIXED DEVELOPMENT

**LOT 1 IN DP771927**
**61-79 HENRY STREET, PENRITH**

**REPORT NO 14561/1-AA 2 DECEMBER 2019**

Lemko Place, Penrith NSW 2750 PO Box 880, Penrith NSW 2751
Telephone (02) 4722 2700
e-mail: info@geotech.com.au www.geotech.com.au

GEOTECHNIQUE® PTY LTD

ABN 64 002 841 063

Job No: 14561/1
Our Ref: 14561/1-AA
2 December 2019

Australian Foundation for Disability
C/- J Wyndham Prince Pty Ltd
PO Box 4366
PENRITH WESTFIELD NSW 2750
Email: mwhite@jwprince.com.au

Attention: Mr M White

Dear Sir

re: **Proposed Multi Storey Mixed Development**
**Lot 1 in DP771927, 61-79 Henry Street, Penrith**
**Preliminary Contamination Assessment**

Please find herewith our preliminary contamination assessment (PCA) report for the above site. It is understood that the site is proposed for mixed use development.

A summary of the outcome of the assessment is summarised in the Executive Summary.

If you have any questions, please do not hesitate to contact the undersigned.

Yours faithfully
GEOTECHNIQUE PTY LTD

ANWAR BARBHUYIA
Senior Associate
B.E (Civil), MEngSc (Enviro), MIEAust

GEOTECHNIQUE® PTY LTD

ABN 64 002 841 063

## EXECUTIVE SUMMARY

This executive summary presents a synopsis of a preliminary contamination assessment (PCA) for a parcel of land currently registered as Lot 1 in DP771927, located at 61-79 Henry Street, Penrith, in the local government area of Penrith.

It is understood that the site is proposed for mixed use development.

The objectives of the assessment were to ascertain whether the site potentially presents a risk of harm to human health and the environment, and to determine the suitability of the site for the proposed residential and commercial development.

The scope of work included site reconnaissance, review of site history information and geological maps, limited borehole drilling, soil sampling and testing, and preparation of this report.

The findings of this PCA are summarised as follows:

- The site comprised one large single storey commercial building to the north and two double storey commercial buildings to the east and west. An electrical sub-station was located in the south-eastern portion of the site. The vacant portion of the site is occupied by a large car park in the middle and concrete driveways along the boundary lines.
- The site is underlain by fill materials, overlying natural clayey soil. The boreholes did not reveal any visual evidence of asbestos or other indicators of significant contamination, such as staining, odours or significant foreign matter.
- All the laboratory test results satisfied the criteria for stating that the analytes selected are either not present i.e. concentrations less than laboratory limits of reporting, or present in the sampled soil at concentrations that do not pose a risk of hazard to human health or the environment under a "residential with minimal opportunities for soil access" form of development, with the exception of detection of asbestos fines (AF) and fibrous asbestos (FA) in the fill profile at one location and elevated Benzo(a)Pyrene concentrations in the fill profile at another location, as shown on Drawing No 14561/1-AA2. Asbestos (AF and FA) presents a risk of harm to human health, whilst elevated Benzo(a)Pyrene concentrations might impact on terrestrial ecosystems.

Based on this assessment, in our opinion, the site is considered suitable for the proposed mixed use development subject to implementation of the following recommendations, prior to earthworks:

- Detailed sampling and testing in the vicinity of BH3 and BH5 to delineate the extent of asbestos and PAH contamination.
- Additional sampling and testing of soils at 21 locations beneath the buildings, car park, driveway and open area after demolition and/or removal/clearing of site features and hardstand area to satisfy EPA sampling guidelines for 1.62ha area, as 5 systematic locations was already adopted during the PCA.
- Development of a remedial action plan (RAP) to remediate asbestos and/or PAH contaminated fill materials plus any other contamination identified through the recommended additional sampling and testing, followed by appropriate validation.

If any suspect materials (identified by unusual staining, odour, discolouration or inclusions such as building rubble, asbestos sheets/pieces/pipes, ash material, etc.) are encountered during any stage of future earthworks/site preparation/demolitions, the Unexpected Finds Management Protocol (Appendix J) should be implemented. In the event of contamination, detailed assessment, remediation and validation will be necessary.

For any materials to be excavated and removed from the site, it is recommended that waste classification of the materials, in accordance with the "Waste Classification Guidelines Part 1: Classifying Waste" (NSW EPA 2014), NSW EPA resource recovery exemptions and orders under the Protection of the Environment Operations (Waste) Regulation 2014, or NSW EPA Certification: Virgin excavated natural material is undertaken prior to disposal at an appropriately licensed landfill or potential re-use at other sites.

Any imported soil (fill) must be assessed by a qualified environmental consultant, prior to importation, to ensure suitability for the proposed use. In addition, the imported fill must not contain asbestos and ash, be free of unusual odour, not be discoloured, and not acid sulphate soil or potential acid sulphate soil. The imported fill should either be virgin excavated natural material or excavated natural material.

Reference should be made to Section 16.0 of the report and Appendix K, which set out details of the limitations of the assessment.

**TABLE OF CONTENTS**

Page

1.0 INTRODUCTION ---- 1
2.0 SCOPE OF WORK ---- 2
3.0 SITE IDENTIFICATION ---- 2
4.0 SITE HISTORY ---- 3
4.1 Aerial Photographs ---- 3
4.2 NSW Land Registry Services Records ---- 3
4.3 Section 10.7 Planning Certificate ---- 3
4.4 NSW EPA Record of Notices and Environment Protection Licences ---- 4
4.5 SafeWork NSW Records ---- 4
4.6 Council Records ---- 4
5.0 SITE CONDITION AND SURROUNDING ENVIRONMENT ---- 7
5.1 Site Condition ---- 7
5.2 Surrounding Environment ---- 8
6.0 TOPOGRAPHY, GEOLOGY & HYDROGEOLOGY ---- 8
7.0 POTENTIAL FOR CONTAMINATION / CONCEPTUAL SITE MODEL ---- 9
7.1 Potential Areas of Environmental Concern ---- 9
7.2 Potentially Contaminated Media ---- 10
7.3 Potential Migration ---- 10
8.0 DATA QUALITY OBJECTIVES ---- 11
9.0 SAMPLING & ANALYSIS PLAN AND SAMPLING METHODOLOGY ---- 14
10.0 FIELD QUALITY ASSURANCE AND QUALITY CONTROL ---- 16
10.1 Sampling Personnel ---- 16
10.2 Decontamination Procedures ---- 16
10.3 Rinsates ---- 17
10.4 Trip Spikes ---- 17
10.5 Duplicate Sample ---- 18
10.6 Inter-laboratory Duplicate (Split) Sample ---- 19
11.0 LABORATORY QUALITY ASSurance AND QUALITY CONTROL ---- 19
12.0 QA/QC DATA EVALUATION ---- 20
13.0 ASSESSMENT CRITERIA ---- 21
14.0 FIELD & LABORATORY TEST RESULTS, ASSESSMENT & DISCUSSION ---- 22
14.1 Field Results ---- 22
14.2 Analytical Results ---- 22
14.2.1 Metals (As, Cd, Cr, Cu, Pb, Hg, Ni & Zn) ---- 23
14.2.2 TRH and BTEX ---- 23
14.2.3 Polycyclic Aromatic Hydrocarbons (PAH) ---- 23
14.2.4 Organochlorine Pesticides (OCP) ---- 23
14.2.5 Polychlorinated Biphenyls (PCB) ---- 23
14.2.6 Phenols ---- 23
14.2.7 Asbestos ---- 23
15.0 CONCLUSION AND RECOMMENDATIONS ---- 24
16.0 LIMITATIONS ---- 25

## *LIST OF REFERENCES*

### *DRAWINGS*


| | |
|---|---|
| *Drawing No 14561/1-AA1* | *Site Features* |
| *Drawing No 14561/2-AA1* | *Borehole Locations* |
| *Drawing No 14561/1-AA2* | *Locations of Concern* |


### *TABLES*


| | |
|---|---|
| *Table A* | *Rinsates* |
| *Table B* | *Trip Spikes* |
| *Tables C* | *Duplicate Sample* |
| *Tables D* | *Split Sample* |
| *Tables E1 & E2* | *Metals, Cation Exchange Capacity (CEC) & pH Test Results – Discrete Samples* |
| *Table F* | *Total Recoverable Hydrocarbons (TRH) & BTEX Test Results – Discrete Samples* |
| *Table G* | *Polycyclic Aromatic Hydrocarbons (PAH) Test Results – Discrete Samples* |
| *Table H* | *Organochlorine Pesticides (OCP), Polychlorinated Biphenyls (PCB) & Phenols Test Results – Discrete Samples* |
| *Table I* | *Asbestos Test Results – Discrete Samples* |

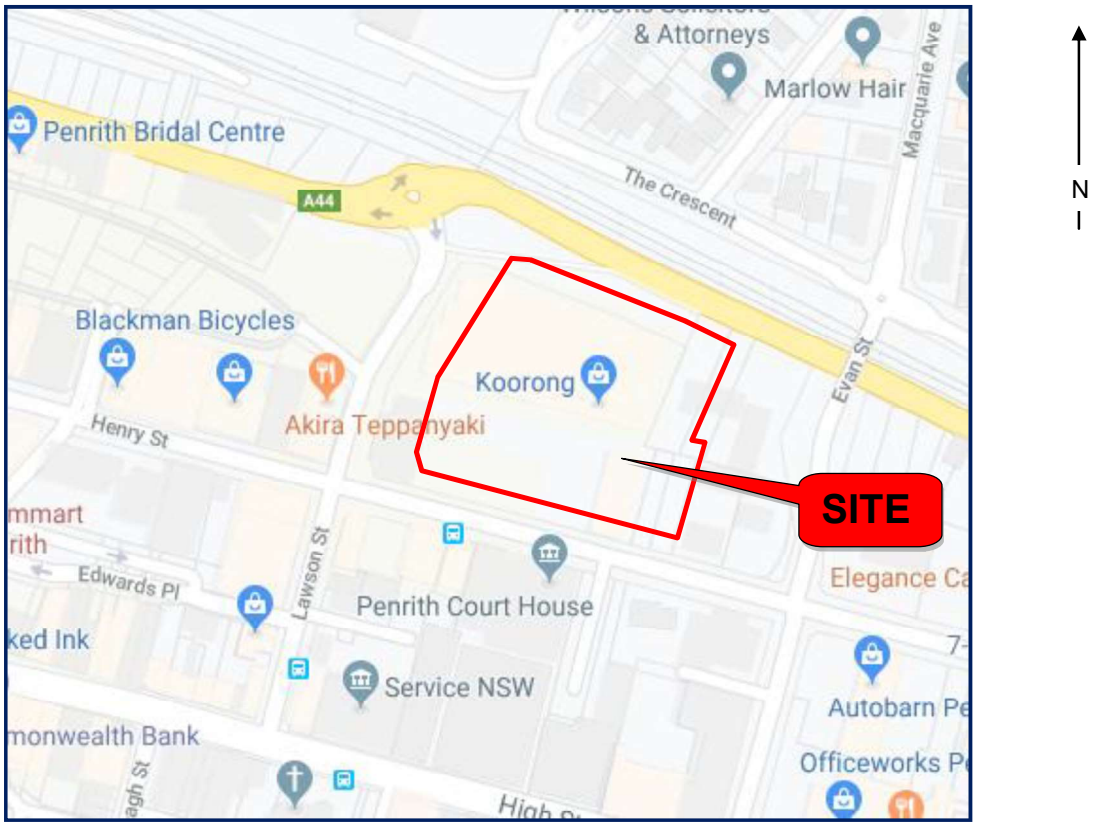

### *APPENDICES*


| | |
|---|---|
| *APPENDIX A* | *Aerial Photographs* |
| *APPENDIX B* | *NSW Land Registry Services records* |
| *APPENDIX C* | *Section 10.7 Planning Certificate* |
| *APPENDIX D* | *NSW EPA Record of Notices & Environment Protection Licences* |
| *APPENDIX E* | *Response from SafeWork NSW* |
| *APPENDIX F* | *Council Records* |
| *APPENDIX G* | *Engineering Log - Borehole* |
| *APPENDIX H* | *Groundwater Map* |
| *APPENDIX I* | *Laboratory Test Results Reports/Certificates* |
| *APPENDIX J* | *Unexpected Finds Management Protocol* |
| *APPENDIX K* | *Environmental Notes* |

## 1.0 INTRODUCTION

This report presents the results of a preliminary contamination assessment (PCA) for a parcel of land currently registered as Lot 1 in DP771927, located at 61-79 Henry Street, Penrith, in the local government area of Penrith, as indicated on Figure 1 below:

**FIGURE 1**




Map Data ©2019 Google

Based on the preliminary concept drawings received, it is understood that the proposed development at the above site involves demolition of existing commercial building structures and construction of a number of multi-storey buildings (both commercial and residential use) including a hotel building at the south-west corner. The proposed buildings are up to twenty storeys high with three levels of basement car park. The basement excavation is anticipated to be about 9.0m deep below the existing ground surface.

The objectives of the assessment were to ascertain whether the site potentially presents a risk of harm to human health and the environment, and to determine the suitability of the site for the proposed residential and commercial development.

This report was prepared generally in accordance with the NSW Environment Protection Authority (EPA), "Guidelines for Consultants Reporting on Contaminated Sites" – 2011, and to satisfy Managing Land Contamination: Planning Guidelines, State Environmental Planning Policy No. 55 – Remediation of Land.

## 2.0 SCOPE OF WORK

In order to achieve the objective of this assessment, the following scope of work was conducted in accordance with our fee proposal (Ref: Q8898E) dated 23 August 2019:

- A desktop study of;
  - Historical aerial photographs.
  - NSW Land Registry Services records.
  - Section 10.7 Planning Certificate.
  - EPA records of notices.
  - SafeWork NSW and Council records.
  - Groundwater bore records of Department of Primary Industries, Office of Water.
  - Soil and geological maps.
- Inspection by an Environmental Engineer from Geotechnique Pty Ltd (Geotechnique) to identify the site conditions and any areas of potential environmental concern based on visual and olfactory indicators of potential contamination.
- Soil sampling by a Geotechnical Engineer in limited borehole locations during Geotechnical Investigation.
- Chemical analysis by National Association of Testing Authorities (NATA) accredited testing laboratories, in accordance with chains of custody (COC) prepared by Geotechnique.
- Implementation of industry standard quality assurance (QA) and quality control (QC) measures. QC samples were also forwarded to the testing laboratories.
- Assessment of the laboratory analytical results against current applicable guidelines.
- Assessment of field and laboratory QA and QC.
- Assessment of the contamination status of soil at limited locations.
- Preparation of this report.

## 3.0 SITE IDENTIFICATION

The site is located at 61-79 Henry Street, Penrith, in the local government area of Penrith, and is registered as Lot 1 in DP771927.

As shown on Drawing No 14561/1-AA1, the site is irregular in shape and covers an area of approximately 1.62ha.

Reference may be made to the cadastral and deposited plans in Appendix B for details of the location and dimensions of the site.

## 4.0 SITE HISTORY

In order to formulate a picture of the site history and to assist in identification of any potential contamination, Geotechnique obtained and/or reviewed information including historical aerial photographs, certificates of land titles (past and present), Planning Certificates issued by Council under Section 10.7 of the Environmental Planning and Assessment Act 1979, NSW EPA records regarding notices for contaminated land, SafeWork NSW information pertaining to storage of dangerous goods and Council records. The information reviewed is presented in the following sub-sections:

### 4.1 Aerial Photographs

Aerial photographs taken in 1951, 1961, 1970, 1978, 1986, 1994, 2005 and July 2019 were examined. Copies of the aerial photographs are attached in Appendix A. The writer made the following observations. Due to scale, some of the listed observations are best interpretations only.

The site consisted of numerous residential dwellings from 1961 until at least 1982. Between 1982 and 1994 the site was developed for commercial use, with the construction of a large structure in the northern portion of the site, two smaller structures in the east and west of the site and a central car park area. The site has remained essentially unchanged since 1994.

The surrounding properties to the north were residential until at least 1982, and have remained vacant until the present day. A rail corridor is situated to the north of the site. The surrounding properties to the south (over Henry Street) were most likely residential since 1961 before being developed for commercial purposes and use as a courthouse prior to1970. The surrounding properties to the east were most likely residential since 1961 before being developed for use as a police station prior to 1982. The properties to the west (over Lawson Street) were most likely residential since 1961 before being developed for commercial purposes prior to 1982.

### 4.2 NSW Land Registry Services Records

The chronological list of proprietors for the site is presented in Appendix B.

NSW Department of Lands records indicate that various commercial enterprises owned the site. Various commercial enterprises also leased the site.

### 4.3 Section 10.7 Planning Certificate

The Planning Certificate (Certificate No: 19/04384) under Section 10.7 Environmental Planning and Assessment Act 1979 for Lot 1 in DP771927, issued by Penrith City Council on 21 October 2019, indicated the following:

- The site is zoned B3 Commercial Core, under the Penrith Local Environmental Plan 2010.
- The site does not include or comprise a critical habitat.
- The site is not located in a conservation area.
- An item of environmental heritage is not situated on the site.
- The site is not affected by the operation of section 38 or 39 of the *Coastal Protection Act 1979*. To the extent that council has been so notified by the Department of Public Works.

- The site is not proclaimed a mine subsidence district within the meaning of Section 15 of the *Mine Subsidence Compensation Act, 1961*.
- The site is not affected by road widening or road realignment under Division 2 of Part 3 of the Roads Act 1993, any environmental planning instrument or any resolution of the Council.
- The site is not affected by any of the matters prescribed by Section 59(2) of the Contaminated Land Management Act 1997.

Reference may be made to Appendix C for the Section 10.7 (2 & 5) Certificate.

### 4.4 NSW EPA Record of Notices and Environment Protection Licences

The NSW EPA publishes records of notices for contaminated lands under Section 58 of the CLM Act 1997. The notices relate to investigation and/or remediation of site contamination considered to pose a significant risk of harm under the definition in the CLM Act. A search of the EPA records on 31 October 2019 revealed no notices issued for the site. It should be noted that the EPA record of notices for Contaminated Land does not provide a record of all contaminated lands in NSW. At the time of searching the records, 382 sites in NSW were registered in the database.

The EPA issues environment protection licences to owners or operators of various industrial premises under the Protection of the Environment Operations (POEO) Act to control the air, noise, water and waste impacts of an activity. A search of the POEO Public Register on 31 October 2019 found no records for the site.

NSW EPA and the POEO Public Register records are detailed in Appendix D of this report.

### 4.5 SafeWork NSW Records

A request was made to SafeWork NSW to search for any information on licences to keep dangerous goods, including underground tank(s) and/or other underground facilities at the site.

A search of Stored Chemical Information Database (SCID) and the microfiche records held by SafeWork NSW, did not locate any records pertaining to the site (refer to Appendix E).

### 4.6 Council Records

A request was made to Penrith City Council, under the Government Information (Public Access) Application, for access to any relevant information pertaining to the site. The request included information regarding rezoning, Development Applications (DA), Building Applications (BA) and application approvals. This information can sometimes include complaints or comments from neighbouring persons or companies, which might be relevant to the contamination status of the site.

A summary of the available records of The Penrith City Council regarding approval of DA for the site is listed below, as provided by Penrith Council on 25 October 2019 via email.

| **Site Location:** | | | | **61-79 Henry Street, Penrith** | | |
|---|---|---|---|---|---|---|
| **Date** | **Address** | **Applicant** | **File Number** | **Proposal** | **Determination (accepted / rejected)** | **Additional information** |
| 29/01/1987 | | Stokes, Hayes and Kanas Pty Ltd | DA274/86 | Erection of retail showrooms and office development with associated car parking | Granted | |
| 07/04/1987 | 4 Lawson Street, Penrith | Stokes Hayes & Kanas Pty Ltd | Building Permit No. 10221 | | Approved | |
| 26/08/1987 | Unit 4, 61-79 Henry Street, Penrith | Clinicare Medical Centres | DA202/87 | Occupation of Unit 4 as a medical centre, chemist shop and refreshment room/coffee shop | Granted | |
| 17/09/1987 | 79 Henry Street, Penrith | Harvey Norman Discounts Ltd | Building Permit No. 12655 | | Approved | |
| 15/10/1987 | 61 Henry Street, Penrith | Clinicare Medical Centres | Building Permit No. 12687 | | Approved | |
| 17/11/1987 | 79 Henry Street, Penrith | Rebel Sports Warehouse | Building Permit No. 13201 | | Approved | |
| 30/03/1990 | DP 771927, Henry Street, Penrith | Ford & Cullen | DA68/90 | Occupation of premises for the purpose of a retail sales / hire of video cassettes and accessories | Granted | |
| 25/05/1990 | 61 Henry Street, Penrith | Charles Grandville Architects | Building Permit No. 24715 | | Approved | |
| 03/03/1992 | 8 Henry Street, Penrith | SHK Architect (NSW) Pty Ltd | Building Permit No. 31894 | | Approved | |
| 19/06/1992 | 65 Henry / Lawson Street, Penrith | Harvey Norman Pty Ltd | Building Permit No. 32885 | | Approved | |
| 19/10/1992 | 4 Lawson Street, Penrith | SHK Architect (NSW) Pty Ltd | Building Permit No. 34241 | | Approved | |
| 30/04/1993 | 61-73 Henry Street, Penrith | Harvey Norman Pty Ltd | Building Permit No. 932590 | | Approved | |

| **Site Location:** | | | | **61-79 Henry Street, Penrith** | | |
|---|---|---|---|---|---|---|
| **Date** | **Address** | **Applicant** | **File Number** | **Proposal** | **Determination (accepted / rejected)** | **Additional information** |
| 04/08/1997 | 61-73 Henry Street, Penrith | Mullane Planning Consultants | DA970279 | Provision of on-site parking | Granted | |
| 29/01/2001 | 61 Henry Street, Penrith | Construction Management Services Pty Ltd | DA01/0157 | Demolish existing ramp & erect new pedestrian ramp | Granted | Construction certificate issued on 29 January 2001<br>Occupation Certificate related to this DA issued on 24 February 2004 |
| 25/03/2002 | 61 Henry Street, Penrith | Koorong Books Pty Ltd | DA02/0307 | Alteration to shop front and new internal work | Granted | Construction certificate issued on 11 April 2002<br>Occupation Certificate related to this DA issued on 22 October 2004 |
| 07/05/2003 | 71 Henry Street, Penrith | Elite Fitness Penrith | DA03/0582 | 4 Signs | Granted | |
| Unknown | Unknown | N F Billyard Pty Ltd | DA07/1415 | Curves weightloss and fitness centre | Unknown | |
| Unknown | Unknown | Uncle Bills Retail Pty Ltd | DA10/0442 | Shop fit out – Uncle Bills retail & 3 advertising signs | Unknown | |
| 17/02/2012 | 61-79 Henry Street, Penrith | Coast2coast Projects | DA11/1247 | Advertising signs x 5 – Discount Drug Store | Refused | Refused to due to proposal being inconsistent with the three provisions of the Penrith Development Control Plan 2006-3.1 Advertising Signs |
| 13/03/2013 | 61-79 Henry Street, Penrith | Stimson Consultant Services Pty Ltd | Occupation Certificate 14/013 related to DA12/0994 | Alteration to existing commercial premises and new business identification signage | Approved | Occupation Certificate 14/013 issued on 13 February 2014<br>Compliance certificate issued on 10 February 2014<br>Construction certificate No. 13/06.057 issued on 4 July 2013 |
| 11/04/2013 | 67-69 Henry Street, Penrith | Wentworth Healthcare Limited | Complying Development Certificate No. CDC13-05 | Office fit-out | Issued | Occupation certificate no. OC13-05 issued on 15 August 2013 |
| 16/10/2013 | 61-79 Henry Street, Penrith | | DA13/1185 | Fit-out & use as music tuition studio | Approved | Major Assessment Report |

| **Site Location:** | | | | **61-79 Henry Street, Penrith** | | |
|---|---|---|---|---|---|---|
| **Date** | **Address** | **Applicant** | **File Number** | **Proposal** | **Determination (accepted / rejected)** | **Additional information** |
| 19/12/2013 | 61-79 Henry Street, Penrith | Australian Foundation for Disability | Occupation Certificate No. 13/121885-2 | | Approved | |
| 10/11/2017 | 61-79 Henry Street, Penrith | Issued by Local Management Services Pty | Certificate No: 8031509 | Internal alteration to existing retail and office building | Approved | Final Occupation Certificate Complying Development Certificate issued on 24 April 2017 |
| 14/09/2019 | Suite 4A, 61-79 Henry Street, Penrith | AZA Health Group Pty Ltd | Final Occupation Certificate No. 12/0584/01 | Internal fitout of suite 4A for use as a dental surgery | Issued | Complying Development Certificate issued on 19 June 2012 |

Reference may be made to Appendix F for Council records.

## 5.0 SITE CONDITION AND SURROUNDING ENVIRONMENT

### 5.1 Site Condition

At the time of the site inspection on 30 October 2019, the following salient points were noted:

- The northern portion of the site was a large building which was being used for commercial purposes. The south-eastern and south-western portions of the site also contained smaller buildings utilised for commercial purposes
- An electrical sub-station was located in the south-eastern portion of the site.
- The southern portion of the site primarily consisted of a bitumen carpark
- There was a concrete driveway around the perimeter of the property, with the exception of the southern boundary.
- The northern and eastern sides of the site also consisted of garden beds.
- There were drainage pits throughout the perimeter of the site and also where the bitumen carpark was located.

The site features are indicated on Drawing No 14561/1-AA1.

There were no obvious ash materials on the ground surface, odour, or discolouration that would indicate the potential for contamination. There were no obvious features associated with underground storage tanks (bowser, breather pipe, inlet valve and piping). There were no air emissions emanating from the site.

### 5.2 Surrounding Environment

At the time of field work, the neighbouring properties were as follows:

| | |
|---|---|
| To the north: | Council land and further north, Great Western Highway |
| To the east: | Brick buildings, possible residential or commercial land |
| To the west: | Lawson Street |
| To the south: | Henry Street |

## 6.0 TOPOGRAPHY, GEOLOGY & HYDROGEOLOGY

In general, the ground slopes from east to west.

The Geological Map of Penrith (Geological Series Sheet 9030, Scale 1:100,000, Edition 1, 1991), published by the Department of Minerals and Energy indicates the residual soils within the site to be underlain by Triassic Age Shale of the Wianamatta Group, comprising shale, carbonaceous claystone, claystone, laminite, fine to medium grained lithic sandstone, rare coal and tuff.

The Soil Landscape Map of Penrith (soil Landscape Series Sheet 9030, Scale 1:100,000, 1989), prepared by the Soil Conservation Service of NSW, indicates that the site is located within the Luddenham Landscape area and typically consists of poorly drained/relatively impermeable residual natural soils.

Reference should be made to Engineering Log in Appendix G for descriptions of the soils encountered during sampling for this assessment. Based on information from the borehole drilling, the sub-surface profile across the site is generalised as follows:

| | |
|---|---|
| **Hardstand** | 40mm asphaltic concrete and 160mm thick roadbase gravel at BH1 and BH2 (bitumen car park)<br>150 to 500mm thick concrete at boreholes BH 3 to BH5. |
| **Fill Material** | The following 3 types of fill were encountered;<br>Type 1: 1m thick silty clay, medium plasticity, brown grey, with mixed gravel and ironstone Type 1 fill in BH1 was underlain by natural clayey soil.<br>Type 2: 500mm thick silty clay, low to medium plasticity, grey/brown. Type 2 fill in BH2 was underlain by natural clayey soil.<br>Type 3: 1.35m thick sand, fine grained, yellow/grey. Type 3 fill in TBH3 was underlain by shale bedrock.<br>Type 4: 1m thick silty clay, low to medium plasticity, brown, traces of gravel. Type 1 fill in BH5 was underlain by Type 5 fill.<br>Type 5: 2.2m thick silty clay, medium to high plasticity, grey/brown. Type 5 fill in BH5 was underlain by natural clayey soil. |
| **Natural Soil** | Silty Clay/Silty Sandy Clay/Clay, low to high plasticity, red, pale brown mottled orange, brown grey, grey/orange, red/brown, red/grey, grey/red with yellow staining, red mottled brown, grey/brown, with or without ironstone, was encountered beneath the fill material.<br>Silty Clay, low to medium plasticity, red mottled brown was encountered immediately below the concrete hardstand in BH4.<br>The thickness of natural soil is ranging from about 700mm to 6.4m. |
| **Bedrock** | SHALE, grey, extremely to distinctly weathered, low to medium strength SHALE, grey, slightly weathered to fresh, medium to high strength<br>Bedrock was encountered ranging from about 900mm to 7.6m below the existing ground surface beneath the natural soil. In BH3, shale bed rock was encountered beneath the fill layer. |

No fibro-cement pieces were observed in any borehole locations.

No creek or river was near the site. The closest water body is Peach Tree Creek and Nepean River which are situated approximately 1.3km and 1.7km respectively to the west of the site.

A site-specific groundwater analysis was outside the scope of this assessment. However, a search was carried out on 31 October 2019 through the website of Department of Primary Industries Office of Water for any registered groundwater bore data within a radius of 500m of the site. The search revealed no information available on that date. The groundwater map is included in Appendix H of this report.

## 7.0 POTENTIAL FOR CONTAMINATION / CONCEPTUAL SITE MODEL

### 7.1 Potential Areas of Environmental Concern

Based on the preceding sections, areas of environmental concern (AEC) and associated contaminants of potential concern have been identified and are presented in the following table:

**Areas of Environmental Concern& Associated Contaminants of Potential Concern**

| Potential AEC | Rational / Details | Potential Contaminants[1] |
|---|---|---|
| Car Park | The car park is potentially contaminated with lead, resulting from exhaust residue associated with vehicle parking. In addition, there is potential for petroleum hydrocarbon contamination resulting from possible motor oil/fuel leaks. | Lead<br>Total Recoverable Hydrocarbons (TPH)<br>Benzene, Toluene, Ethyl Benzene and Xylenes (BTEX)<br>Polycyclic Aromatic Hydrocarbons (PAH)<br>Phenols |
| Electrical Sub-station | The electrical sub-station is potentially contaminated with Polychlorinated Biphenyls (PCB) due to the presence of transformer and capacitor. | PCB |
| In the vicinity of buildings | In the surface soils surrounding the buildings, there is potential for metals and Organochlorine Pesticides (OCP) contamination due to possible pest control. Due to the age of the house and building, some building materials may contain asbestos. | Arsenic and Lead<br>OCP<br>Asbestos |
| Garden beds | The presence of garden beds indicate potential for applied agricultural chemicals and fertilisers.<br>The use of agricultural chemicals and fertilisers could lead to Metals, Organophosphate Pesticides (OPP) and persistent Organochlorine Pesticides (OCP) contamination. The predicted persistence of OCP is less than 15 years, whilst the predicted persistence of OPP is typically less than one year. | Metals [2]<br>OCP<br>OPP |

| Potential AEC | Rational / Details | Potential Contaminants[1] |
|---|---|---|
| Fill Materials | Fill materials was encountered in most of the site. As the source of fill materials is unknown, there is potential for the fill materials to be contaminated. | Metals [3]<br>TRH<br>BTEX<br>PAH<br>OCP<br>Polychlorinated Biphenyls (PCB)<br>Asbestos |

[1] The suite of potential contaminants identified will be reviewed subject to the findings of the council record and excavated materials and added to if considered appropriate.
[2] Metals suite includes arsenic, cadmium, copper, lead, mercury and zinc
[3] Metals suite includes arsenic, cadmium, chromium, copper, lead, mercury, nickel and zinc

### 7.2 Potentially Contaminated Media

Potentially contaminated media present at the site include:

- Fill materials.
- Natural soil.

Based on the potential mobility of contaminants and their associated potential leachability through the soil / fill profile, vertical migration of contaminants from the topsoil into the underlying deeper natural soil might have occurred. As a result, the deeper natural soil is also considered to be potentially contaminated media.

Groundwater or perched water was not encountered during sampling. If a substantial source of contamination is identified within the soil on-site, a groundwater assessment could be necessary.

Surface water is not identified as a potentially contaminated medium based on the absence of any permanent waterbody transecting the site.

### 7.3 Potential Migration

Contaminants generally migrate from a site via a combination of windblown dust, rainwater infiltration, groundwater migration and surface water run-off. The potential for contaminants to migrate is a combination of:

- The nature of the contaminants (solid / liquid and mobility characteristics).
- The extent of the contaminants (isolated or widespread).
- The location of the contaminants (surface soils or at depth).
- The site topography, geology, hydrology and hydrogeology.

Off-site impacts of contaminants in soil are generally governed by the transport media available and likely receptors. The most common transport medium is water, whilst receptors include initially uncontaminated soils, groundwater, surface waterbodies, humans, flora and fauna.

The potential contaminants identified as part of the site history review, site inspection and field sampling were generally in a solid form (e.g. metals, OCP, PAH, Phenols, asbestos etc).

The potential for migration of contaminants via wind-blown dust is considered low as a result the ground surface being covered with hardstand or buildings. The potential for migration of contamination via surface run-off is also expected to be minor. Some migration of contaminants via surface water may still occur in the event of heavy rain.

Migration of any soil contaminants to the deeper soil and/or groundwater regime would generally be via leaching from the contaminated soil, facilitated by infiltration of surface water. Given that the deeper natural soil beneath the site is relatively impermeable (refer to Section 6.0 for the regional geology information), the potential for any contaminants migrating from the contaminated soil to the groundwater table below is considered low. Furthermore, the relatively impermeable clay layer would have minimised the potential for any contaminants migrating to deeper soil.

Sensitive receptors at the site under the current site conditions and in the immediate vicinity are considered to include site visitors who may come into contact with potentially contaminated media within the site.

## 8.0 DATA QUALITY OBJECTIVES

The data qualitative objectives (DQO) are qualitative and quantitative statements that specify the quality of the data required for the assessment. DQO must ensure that the data obtained is sufficient to characterise the contamination of a site and enable appropriate assessment of health and environmental risks for the current or proposed use. The DQO were developed for this assessment in accordance with accordance with National Environment Protection (Assessment of Site Contamination) Measure (NEPM) 1999 (April 2013), as well as in accordance with the Australian Standard "*Guide to the Sampling and Investigation of Potentially Contaminated Soil Part 1: Non-volatile and semi-volatile compounds*" (AS4482.1-2005) and "*Guide to the Sampling and Investigation of Potentially Contaminated Soil Part 2: Volatile substances*" (AS4482.2-1999). The DQO process adopted is outlined below.

**State the Problem**

The site was a commercial land. The site also contains fill materials as well as buildings, an electrical sub-station, garden beds and car park. As a result, the potential exists for contamination to have occurred within the site in the past and presently.

The site is proposed for construction of a number of multi-storey buildings (both commercial and residential use) with three levels basement car park.

The following key professional personnel were involved in the assessment:

| | |
|---|---|
| Mr Anwar Barbhuyia | Associate |
| Mr Saurabh Sapkota | Environmental Engineer |
| Mr Ram Ravi-Indran | Geotechnical Engineer |

**Identify the Decisions**
The decisions to be made in completing the assessment are as follows:

- Does the site, or is the site, likely to present a risk of harm to human health or the environment?
- Is the site currently suitable for the proposed end use?
- Is there any potential for groundwater contamination?
- Are there any off-site migration issues to be considered?
- Is further investigation required to adequately address the abovementioned decisions?
- Is further investigation required to delineate the extent of contamination identified?
- Does the site require remediation to ensure suitability for the proposed end use?

**Identify Inputs to the Decisions**
The inputs into the decision process are as follows:

- Historical information (presented in Section 4.0).
- Site operations and observation details (presented in Section 5.0).
- Limited sampling points at this stage, as the site is occupied by buildings and car park.
- Soil profile information obtained through the sampling phase.
- Chemical and/or physical test data on analysed samples.
- Assessment of test data / data sets against applicable soil investigation levels in the NEPM 1999 (April 2013). For asbestos assessment, the assessed soil must not contain asbestos containing material (ACM) in excess of 0.04%w/w and surface soil within the site is free of visible ACM, and asbestos fines (AF) and fibrous asbestos (FA) in the soil is <0.001% w/w.

**Define the Study Boundaries**
The study boundary for this assessment is defined by the boundaries of the subject site, as shown on Drawing No 14561/1-AA1 and summarised in Section 3.0 of this report.

**Develop a Decision Rule**
The information obtained through this assessment will be used to characterise the site in terms of contamination issues and risk to human health and the environment. The decision rule in characterising the site will be as follows:

- Laboratory test results will be assessed individually.
- The assessment criteria are the NSW EPA produced and/or endorsed criteria, as specified in Section 13.0 of this report. For asbestos assessment, the assessed soil must not have ACM in excess of 0.04%w/w, surface soil within the site is free of visible ACM, and AF and FA in the soil is <0.001% w/w.
- The site will be deemed to potentially contain contamination “hot spots” if any of the individual concentrations exceed the assessment criteria adopted, any presence of asbestos-cement pieces on the surface soil or presence of ACM in excess of 0.04%w/w in the assessed soil, or detection of AF and FA in excess of 0.001%w/w in the assessed soil.
- Further investigation, remediation and/or management will be recommended if the site is found to be contaminated or containing contamination “hot spots”.

Laboratory test results will only be accepted and considered useable for this assessment under the following conditions:

- All laboratories used are accredited by NATA for the analyses undertaken.
- All detection limits set by the laboratories fall below the assessment criteria adopted.
- Analyte concentrations in the rinsate water sample do not vary significantly from the laboratory limits of reporting.
- The recovery of spike concentrations in the trip spike sample is sufficient so as not to impact on the reported concentrations of the soil samples when the same recovery is applied (BTEX only).
- The differences between the reported concentrations of analytes in the field duplicate samples and the corresponding original samples are within accepted limits (refer to Section 10.5).
- The differences between the reported concentrations of analytes in the inter-laboratory duplicate (split) samples and the corresponding original samples are within accepted limits (refer to Section 10.6).
- The QA/QC protocols and results reported by the laboratories comply with the requirements of the NEPM 1999 (April 2013) "*Guideline on Laboratory Analysis of Potentially Contaminated Soils*".

**Specify Limits on Decision Errors**

The limits on decision errors for this assessment are as follows:

- Limited sampling points as a part of PCA, as the as the site is occupied by buildings and car park.
- Analyte selection in the site is based on site history, site activities and the presence of fill materials. The possibility of any other potential contaminants that would be detected through field observation (through odours, staining, and colouring) might need to be included.
- The assessment criteria adopted from the guidelines stated in Section 13.0 have risk probabilities already incorporated.
- The acceptable limits for field and inter-laboratory duplicate (split) comparisons are outlined in Sections 10.5 and 10.6 of this report.
- The acceptance limits for laboratory QA/QC parameters are based on the laboratory reported acceptance limits and those stated in the NEPM 1999 (April 2013) "*Guideline on Laboratory Analysis of Potentially Contaminated Soils*".

**Optimise the Design for Obtaining Data**

- The procedures adopted for location and collection of environmental samples were developed prior to implementation. The sampling program was designed to ensure integrity of data collection during the assessment, including decontamination techniques, sample labelling, storage and COC protocols.
- The analytical program was developed in theory prior to undertaking the sampling (based on site history and site activities) and refined on the basis of field observations (both surface and sub-surface) during the sampling phase. All potential contaminants have been covered in the limited sampling points.

- Only laboratories accredited by NATA for the analyses undertaken were used for this assessment. The laboratory performance is assessed through review of statistics calculated for QA samples such as blanks, spikes, duplicates and surrogates.
- The field QA/QC protocols adopted are outlined in Section 10.0 of this report. The QA/QC program incorporates preparation of traceable documentation of procedures used in the sampling and analytical program and in data validation procedures.

**Data Quality Indicators**

The performance of the assessment in achieving the DQO will be assessed through the application of Data Quality Indicators (DQI), defined as follows:

| | |
|---|---|
| **Precision** | A quantitative measure of the variability (or reproducibility) of data. |
| **Accuracy** | A quantitative measure of the closeness of reported data to the "true" value. |
| **Representativeness** | The confidence (expressed qualitatively) that data is representative of each media present on the site. |
| **Completeness** | A measure of the amount of useable data from a data collection activity. |
| **Comparability** | The confidence (expressed qualitatively) that data can be considered equivalent for each sampling and analytical event. |

Assessment of the data DQI is presented in Section 9.0 (sampling) and Section 12.0 (analysis) of this report.

## 9.0 SAMPLING & ANALYSIS PLAN AND SAMPLING METHODOLOGY

Sampling and analyses were carried out within the site to obtain a reasonable assessment of the following:

1. Nature and location of any soil contaminant(s) within the site.
2. The risk(s) that the contaminant(s) (if present) poses to human health and/or the environment under the conditions of the proposed land uses.

Soil sampling was carried out on 30 and 31 August and 1 November 2019 by a Geotechnical Engineer from Geotechnique, who was responsible for visually assessing the site, locating the nominated borehole locations, recovery of soil samples, preparation of samples for delivery to NATA accredited laboratories, and logging the sub-surface profile encountered at each borehole location.

Based on the "Sampling Design Guidelines for Contaminated Sites" 1995 EPA, twenty six (26) systematic sampling locations is required for 1.62ha size area. However, as most of the site occupied by commercial buildings, as part of PCA only limited 5 sampling points (BH1 to BH5) were adopted concurrently with the geotechnical investigation.

The borehole locations are shown on Drawing No 14561/1-AA1.

The sampling procedures adopted were as follows:

- The boreholes were drilled to the depth interval nominated by the Geotechnical Engineer. The representative soil sample was recovered from the auger using disposable gloves. The stainless steel auger was decontaminated prior to use and also between sampling locations in order to prevent cross contamination (refer to Section 10.2 for details of the procedures for decontamination of the auger).
- To minimise the potential loss of volatiles, the laboratory soil sample was immediately transferred to a labelled, laboratory supplied, 250ml glass jar and sealed with an airtight, Teflon screw top lid. The fully filled jar was then placed in a chilled container.
- The recovered soil sample for asbestos analysis was transferred into laboratory supplied separate small plastic zip-lock bag, which was placed inside a larger plastic bag.

In order to ensure the analytical performance of the primary laboratory, duplicate and split samples were prepared for analyses. Samples were kept in labelled laboratory supplied glass jars (acid-washed and solvent-rinsed) and sealed with airtight screw top Teflon lids. The fully filled jars were placed in a chilled container.

A rinsate water sample was collected and placed in a glass bottle and vial supplied by the laboratory at the completion of each day field works. The fully filled bottle and vial were labelled and placed in a chilled container.

At the completion of field sampling, the chilled container and large plastic bag were transported to our Penrith office and the chilled container was transferred to a refrigerator where the temperature was maintained below 4 °C.

The chilled containers with trip spike sample and large plastic bag were forwarded to the primary laboratory of SGS Environmental Services (SGS) and the secondary laboratory, Envirolab Services Pty Ltd (Envirolab), both NATA accredited. COC were then forwarded to the laboratories.

On receipt of the samples and COC, the laboratories returned the Sample Receipt Confirmation, verifying the integrity of all samples received.

Based on the potential for contamination mentioned in Section 7.0, at least one fill sample from each type of fill were analysed for Metals (arsenic, cadmium, chromium copper, lead, mercury, nickel and zinc), TRH, BTEX, PAH, OCP, PCB and asbestos. The samples were also analysed for Phenols for screening purposes. Deeper similar type fill samples were analysed for Metals (arsenic, cadmium, chromium copper, lead, mercury, nickel and zinc). One discrete deeper fill sample was also analysed for TRH, BTEX, PAH, OCP, PCB, Phenols and asbestos for screening purposes. One surface natural soil sample, immediately below the concrete hardstand, was analysed for Metals (arsenic, cadmium, chromium copper, lead, mercury, nickel and zinc), TRH, BTEX, PAH, OCP, PCB and Phenols. Natural samples immediately below the fill materials were analysed for Metals (arsenic, cadmium, chromium copper, lead, mercury, nickel and zinc), TRH, BTEX and PAH. Two natural samples were also analysed for OCP and PCB for screening purposes. Selected deeper natural soil samples were analysed for Metals (arsenic, cadmium, chromium copper, lead, mercury, nickel and zinc).

The following table provides a list of the DQI (refer to Section 8.0) for the soil sampling phase of the assessment and the methods adopted in ensuring that the DQI were met.

| DATA QUALITY INDICATOR | METHOD(S) OF ACHIEVEMENT |
|---|---|
| Completeness | As a part of PCA, sampling was carried out in limited sampling points, as site is occupied by commercial buildings and car park.<br>Representative coverage of potential contaminants in the site based on history, site activities and presence of fill materials.<br>On site visual assessment of soils uncovered.<br>Use of trained and qualified field staff (Section 10.1).<br>Preparation of sample location plan.<br>Preparation of soil profile logs.<br>Preparation of COC records. |
| Comparability | Using appropriate techniques for sample recovery.<br>Appropriate industry standard decontamination procedures adopted (Section 10.2).<br>Experienced samplers used.<br>Using appropriate sample storage and transportation methods. |
| Representativeness | As a part of PCA, sampling was carried out in limited sampling points, as site is occupied by commercial buildings and car park.<br>Representative coverage of potential contaminants in the site based on history, site activities and presence of fill materials. |
| Precision and Accuracy | Rinsate blank water, trip spike, field duplicate, and inter-laboratory duplicate / split samples recovered or prepared (Section 10.3 to 10.6). |

## 10.0 FIELD QUALITY ASSURANCE AND QUALITY CONTROL

### 10.1 Sampling Personnel

Geotechnique undertook all the sampling associated with this assessment. A Geotechnical Engineer from Geotechnique (Ram Ravi-Indran), nominated sampling positions based on the project brief prepared by the Project Manager, supervised (full time) drilling of boreholes, logged the soil profile encountered, recovered soil samples at a frequency determined by the sampling plan (project brief), and packed the samples (refer to Section 9.0).

Mr Ravi-Indran has a Bachelor of Civil Engineering degree and has been employed by Geotechnique as a Geotechnical Engineer since early 2019. At commencement of employment, Mr Ravi-Indran underwent supervised training in Geotechnique procedures for sampling and logging.

### 10.2 Decontamination Procedures

As stated in Section 9.0 of this report, soil samples were transferred directly to the laboratory supplied, glass jar and plastic bag using disposable gloves from the auger. The auger was decontaminated prior to use and also between the different borehole locations. As stated in Sections 10.5 and 10.6, trowel was used to divide the soil sample into two portions to prepare duplicate/split samples. Decontamination of the augers and trowel involved the following:

- Removal of soils adhering to the auger and trowel by scrubbing with a brush.
- Washing the auger and trowel thoroughly in a solution of phosphate free detergent (Decon 90) using brushes and disposable towels.
- Rinsing the auger and trowel thoroughly with distilled water.
- Repeating the washing / rinsing steps and rinsing with water.
- Drying the auger and trowel with a clean cloth.

A sample of the final rinsate water sample was recovered at completion of each day sampling.

### 10.3 Rinsates

One rinsate water sample was recovered on completion of field work, each of the three days of field work (RS1, RS2 and RS3) in order to identify possible cross contamination between the sampling locations.

The rinsates were analysed for Metals (arsenic, cadmium, chromium, copper, lead, mercury, nickel and zinc) and/or PAH. The test results for the rinsate water samples are summarised in Table A. The laboratory test results certificates are included in Appendix I.

As indicated in Table A, all concentrations in the rinsate blank samples were less than the laboratory limits of reporting (LOR), which indicates that adequate decontamination had been carried out in the field.

### 10.4 Trip Spikes

Trip spike samples are obtained from the laboratory on a regular basis, prior to conducting field sampling where volatile substances are suspected. The samples are held in the Penrith office of Geotechnique, at less than 4°C, for a period of not more than seven days. During the field work, the trip spike sample was kept in the chilled container with soil samples recovered from the site. The trip spike sample was then forwarded to the primary laboratory together with the soil samples recovered from the site.

The laboratory prepares the trip spike by adding a known amount of pure petrol standard to a clean sand sample. The sample is mixed thoroughly to ensure a relatively homogenous distribution of the spike throughout the sample. When the sample is submitted for analysis, the same procedure is adopted for testing as for the soil samples being analysed from the site.

The purpose of the trip spike is to detect any loss or potential loss of volatiles from the soil samples during field work, transportation, sample extraction or testing.

Three trip spikes (TS1, TS2 and TS3) were forwarded to the primary analytical laboratory with the samples collected from the site and were tested for BTEX. The test results for the trip spikes, reported as a percentage recovery of the applied and known spike concentrations, are shown in Table B. The laboratory test results certificates are included in Appendix I.

As indicated in Table B, the results show generally good recovery of the spike concentrations. Furthermore, all BTEX results were less than laboratory LOR and there was no visible or olfactory indication of hydrocarbon contamination.

Based on the above, it is considered that any loss of volatiles from the recovered samples that might have occurred would not affect the outcome / conclusions of this report.

### 10.5 Duplicate Sample

A field duplicate sample was prepared in the field through the following processes:

- A larger than normal quantity of soil was recovered from the sample location selected for duplication.
- The sample was placed in a decontaminated stainless bowl and divided into two portions using the decontaminated trowel.
- One portion of the sub-sample was immediately transferred using the decontaminated trowel into a labelled, laboratory supplied, 250ml glass jar and sealed with an airtight Teflon screw top lid. The fully filled jar was labelled as the duplicate sample and immediately placed in a chilled container.
- The remaining portion was stored in the same way and labelled as the original sample.

The duplicate sample was prepared on the basis of sample numbers recovered during the field work.

The duplicate sample frequency was computed using the total number of samples analysed as part of this assessment. The duplicate sample frequencies computed are as follows:

| | | | |
|---|---|---|---|
| Metals: | 19 samples analysed; | 1 duplicate; | 5.3% frequency |
| TRH: | 12 samples analysed; | 1 duplicate; | 8.3% frequency |
| BTEX: | 12 samples analysed; | 1 duplicate; | 8.3% frequency |
| PAH: | 13 samples analysed; | 1 duplicate; | 7.7% frequency |
| OCP | 10 samples analysed | 1 duplicate; | 10% frequency |
| PCB: | 10 samples analysed | 1 duplicate; | 10% frequency |
| Phenols: | 8 samples analysed | 1 duplicate; | 13% frequency |

The duplicate frequency adopted complies with the NEPM, which recommends a duplicate frequency of at least 5%.

The duplicate sample test results are presented with the analytical reports in Appendix I and summarised in Table C.

A comparison was made of the laboratory test results for the duplicate sample with the original sample and the Relative Percentage Differences (RPD) was computed to assess the accuracy of the laboratory test procedures. RPD within 30% are generally considered acceptable. However, this variation can be higher for organic analysis than for inorganics and for low concentrations of analytes.

As shown in Table C, the comparisons between the duplicate and corresponding original sample indicated generally acceptable RPD, with the exception of higher RPD of few metals, mainly due to the heterogeneity of samples.

All the concentrations with RPD in excess of 30% in the duplicate pairs were both less than the relevant assessment criteria.

Therefore, the variations are not considered critical and the laboratory test data provided by SGS are of adequate accuracy and reliability for this assessment.

### 10.6 Inter-laboratory Duplicate (Split) Sample

The inter-laboratory duplicate (split) sample provides a check on the analytical performance of the primary laboratory. The split sample was prepared on the basis of sample numbers recovered during field work and the analyses undertaken by the primary laboratory.

The split sample was prepared in the same manner as the duplicate sample. Reference should be made to Section 10.5.

The split sample frequency was computed using the total number of samples analysed as part of this assessment. The split sample frequencies computed are as follows:

| | | | |
|---|---|---|---|
| Metals: | 19 samples analysed; | 1 split; | 5.3% frequency |
| TPH: | 12 samples analysed; | 1 split; | 8.3% frequency |
| BTEX: | 12 samples analysed; | 1 split; | 8.3% frequency |
| PAH: | 13 samples analysed; | 1 split; | 7.7% frequency |
| OCP | 10 samples analysed | 1 split; | 10% frequency |
| PCB: | 10 samples analysed | 1 split; | 10% frequency |
| Phenols: | 8 samples analysed | 1 split; | 13% frequency |

The split sample frequency adopted complies with the NEPM, which recommends a frequency of 5%.

The laboratory certificates of analysis from Envirolab are included in Appendix I of this report. The results are also summarised in Table D.

Based on Schedule B (3) of the NEPM, the difference in the results between the split samples should generally be within 30% of the mean concentration determined by both laboratories, i.e., RPD should be within 30%. However, this variation can be higher for organic analysis than for inorganics and for low concentrations of analytes.

As shown in Tables D, the comparisons between the split and corresponding original sample indicated generally acceptable RPD, with the exception of higher RPD for three Metals and PAH, mainly due to the heterogeneity of samples.

All the concentrations with RPD in excess of 30% in the splits pairs were either both less than the relevant assessment criteria or both above the relevant assessment criteria.

Therefore, the variations are not considered critical and the test results provided by the primary laboratory are deemed reliable for this assessment.

## 11.0 LABORATORY QUALITY ASSURANCE AND QUALITY CONTROL

Geotechnique uses only laboratories accredited by the NATA for chemical analyses. The laboratories also incorporate quality laboratory management systems to ensure that trained analysts using validated methods and suitably calibrated equipment produce reliable results.

In addition to the QC samples, the laboratories also ensure that all analysts receive certification as to their competence in carrying out the analysis and participate in national and international proficiency studies.

SGS and Envirolab are accredited by NATA and operate a Quality System designed to comply with ISO / IEC 17025.

The discrete soil samples were generally analysed within the allowable holding times detailed in Schedule B(3) of The *NEPM 1999 (April 2013)*. It should be noted that there is no specific holding time for asbestos analysis. The rinsate samples were generally analysed within the allowable holding times for water detailed in Standard Methods for the Examination of Water and Wastewater (APHA).

The test methods adopted by the laboratories are indicated with the laboratory test results certificates. As part of the analytical run for the project, the laboratories included laboratory blanks, duplicate samples, laboratory control samples, matrix spikes, matrix spike duplicates and/or surrogate spikes.

We have checked the QA/QC procedures and results adopted by the laboratories against the appropriate guidelines. The QC sample numbers adopted by SGS and Envirolab are considered adequate for the analyses undertaken.

The methods used by SGS and Envirolab have been validated and endorsed by NATA.

The samples analysed for TPH ($C_6$–$C_9$) and/or BTEX were extracted by the purge and trap method recommended by the NSW EPA.

All reported laboratory LOR / Practical Quantitation Limit (PQL) were less than the assessment criteria adopted for each analyte.

Overall, the QC elements adopted by SGS and Envirolab indicate that the analytical data falls within acceptable levels of accuracy and precision for the analysis of soils. The analytical data provided is therefore considered to be reliable and useable for this assessment.

## 12.0 QA/QC DATA EVALUATION

The following table provides a list of the DQI for the analytical phase of the assessment and the methods adopted in ensuring that the DQI were met:

| DATA QUALITY INDICATOR | METHOD(S) OF ACHIEVEMENT |
|---|---|
| Data Completeness | Laboratory sample receipt information received confirming receipt of samples intact and appropriate COC.<br>Analysis for all potential contaminants of concern.<br>NATA registered laboratory analytical reports / certificates of analysis provided. |
| Data Comparability | Use of NATA registered laboratories.<br>Test methods consistent for each sample.<br>Test methods comparable between primary and secondary laboratory.<br>Acceptable RPD between original samples and field duplicates and inter-laboratory duplicate / split samples. |

| DATA QUALITY INDICATOR | METHOD(S) OF ACHIEVEMENT |
|---|---|
| Data Representativeness | Representative coverage of potential contaminants in the site based on history, site activities, and presence of fill materials.<br>Adequate duplicate, split, trip spike and rinsate sample numbers.<br>Adequate laboratory internal QC and QA methods, complying with the NEPM. |
| Data Precision and Accuracy | Acceptable concentrations in rinsate blank water samples.<br>Acceptable recoveries of spike concentrations in trip spike samples.<br>Acceptable RPD for duplicate comparison overall.<br>Acceptable RPD for inter-laboratory duplicate / split sample comparison overall.<br>Appropriate and validated laboratory test methods used.<br>Adequate laboratory performance based on results of the blank samples, duplicates, surrogate spike samples, control samples and/or matrix spike samples. |

Based on the above, it is considered that both laboratories complied with the QA and QC DQI. As such, it is concluded that the laboratory test data obtained are reliable and useable for this assessment.

## 13.0 ASSESSMENT CRITERIA

Investigation levels and screening levels developed in the NEPM 1999 (April 2013) were used in this assessment, as follows:

- Risk-based Health Investigation Levels (HIL) for a broad range of metals and organic substances. The HIL are applicable for assessing human health risk via all relevant pathways of exposure. The HIL as listed in Table 1A(1) of Schedule B1 "*Guideline on Investigation Levels for Soil and Groundwater*" are provided for different land uses and applicable to the top 3m of soil for residential use.

  The site is proposed for construction of a number of multi-storey buildings (both commercial and residential use) with three levels basement car park. Therefore, with regard to human health, analytical results were assessed against risk based HIL for more stringent *residential with minimal opportunities for soil access* (HIL B).

- Health Screening Levels (HSL) for selected petroleum compounds, fractions and Naphthalene are applicable for assessing human health risk via inhalation and direct contact pathways. The HSL depend on specific soil physicochemical properties, land use scenarios and the characteristics of building structures. The HSL listed in Table 1A(3) of Schedule B1 "*Guideline on Investigation Levels for Soil and Groundwater*" apply to different soil types and depths below surface to >4 m.

  For this assessment the analytical results were assessed against the available HSL for *high density residential* (HSL B) for sand to depth of 0m to <1m and clay to depth of 0m to <1m, 1m to <2m and 2m to <4m.

- Ecological Screening Levels (ESL) for selected petroleum hydrocarbon compounds, TPH fractions and Benzo(a)Pyrene are applicable for assessing the risk to terrestrial ecosystems. ESL listed in Table 1B(6) of Schedule B1 "*Guideline on Investigation Levels for Soil and Groundwater*" broadly apply to coarse and fine-grained soils and various land uses and are generally applicable to the top 2m of soil.

  The analytical results were assessed against the available ESL for *urban residential* for coarse-grained soil (sand) and fine-grained soil (clay).

- Ecological Investigation Levels (EIL), a specific type of Soil Quality Guidelines (SQG) for selected metals, is applicable for assessing the risk to terrestrial ecosystems. EIL listed in Table 1B(1-5) of Schedule B1 "*Guideline on Investigation Levels for Soil and Groundwater*" depend on specific soil physicochemical properties and land use scenarios and generally apply to the top 2m of soil. For arsenic and lead, generic EIL are adopted, for *urban residential* land use for aged contamination. For other metals, where available, EIL are calculated using the EIL calculator developed by CSIRO for NEPC.

  For this assessment the analytical results were assessed against the available SQG / EIL for *urban residential* land use for aged contamination in soil for low traffic volume.

  For DDT and Naphthalene, generic EIL are adopted, for *urban residential* land use for fresh contaminants.

For discrete soil samples, the individual concentrations of analytes were assessed against the HIL B / HSL B / ESL / EIL.

For asbestos, the assessed soil must not contain ACM in excess of 0.04%w/w and surface soil within the site is free of visible ACM, and asbestos fines (AF) and fibrous asbestos (FA) in the soil is <0.001% w/w.

The site will be deemed contaminated or containing contamination "hot spots" if the above criteria are unfulfilled. Further investigation, remediation and/or management will be recommended if the area of concern is found to be contaminated or containing contamination "hot spots".

The adopted assessment criteria for the soil samples are detailed in Tables E1, E2 and F to I.

## 14.0 FIELD & LABORATORY TEST RESULTS, ASSESSMENT & DISCUSSION

### 14.1 Field Results

Details of the sub-surface conditions encountered during field work for this assessment are presented in Engineering Log in Appendix G of this report. As discussed in Section 6.0, the general soil profile comprised fill underlain by natural clayey soil.

The boreholes did not reveal any visual evidence of asbestos or other indicators of significant contamination, such as staining, odours or significant foreign matter.

### 14.2 Analytical Results

Reference may be made to Appendix I for the actual laboratory analytical reports from SGS. The test results are also presented in Tables E1, E2 and F to I together with the assessment criteria adopted. A discussion of the test data is presented in the following sub-sections.

#### 14.2.1 Metals (As, Cd, Cr, Cu, Pb, Hg, Ni & Zn)

Test results of CEC and pH were adopted to calculate EIL in Tables E1 and E2.

The Metals test result for discrete selected fill samples are presented in Table E1 and as indicated, all concentrations of Metals were below the relevant available ecological investigation level (EIL) and the HIL for residential with minimal opportunities for soil access (HIL B).

The Metals test result for discrete selected natural samples are presented in Table E2 and as indicated, all concentrations of Metals were below the relevant available EIL and HIL B.

#### 14.2.2 TRH and BTEX

The TRH and BTEX test results for discrete selected fill samples and natural samples are presented in Table F.

As shown in Table F, the concentrations of F1 (TRH C6-C10 less BTEX), F2 (TRH >C10-C16 less Naphthalene), F3 (TRH >C16-C34), F4 (TRH >C34-C40) and BTEX were below the relevant HSL B and ESL adopted. Moreover, all test results were below the laboratory limits of reporting (LOR).

#### 14.2.3 Polycyclic Aromatic Hydrocarbons (PAH)

The PAH test results for discrete selected fill samples and natural samples are presented in Table G and as shown, concentrations of Benzo(a)pyrene, Benzo(a)pyrene TEQ, Naphthalene and Total PAH were well below the relevant HIL B or ESL or HSL B or EIL adopted, with the exception of highlighted Benzo(a)Pyrene concentrations. Benzo(a)Pyrene concentrations exceeded the ESL.

#### 14.2.4 Organochlorine Pesticides (OCP)

The OCP test results for discrete selected fill samples and natural samples are presented in Table H and as indicated, all concentrations of OCP were well below the relevant HIL B. Concentrations of DDT were also below the EIL. Moreover, all test results were below the laboratory LOR.

#### 14.2.5 Polychlorinated Biphenyls (PCB)

The PCB test results for discrete selected fill samples and natural samples are presented in Table H and as indicated, the concentrations of PCB were below the relevant HIL B adopted as well as below the laboratory LOR.

#### 14.2.6 Phenols

The Phenols test results for discrete selected fill samples and discrete selected natural soil sample are presented in Table H and as indicated, the concentrations of Phenols were below the relevant HIL B adopted as well as below the laboratory LOR.

#### 14.2.7 Asbestos

The asbestos test results for the discrete selected fill samples are presented in Table I, and as indicated, AF and FA in excess of 0.001%w/w were found in surface fill sample BH3, which presents a risk of harm to human health. No ACM was encountered in any analysed fill samples.

## 15.0 CONCLUSION AND RECOMMENDATIONS

The findings of this PCA are summarised as follows:

- The site comprised one large single storey commercial building to the north and two double storey commercial buildings to the east and west. An electrical sub-station was located in the south-eastern portion of the site. The vacant portion of the site is occupied by a large car park in the middle and concrete driveways along the boundary lines.
- The site is underlain by fill materials, overlying natural clayey soil. The boreholes did not reveal any visual evidence of asbestos or other indicators of significant contamination, such as staining, odours or significant foreign matter.
- As presented in summary tables (Tables E1, E2 and F to I) and discussed in Section 14.2, all the laboratory test results satisfied the criteria for stating that the analytes selected are either not present i.e. concentrations less than laboratory LOR, or present in the sampled soil at concentrations that do not pose a risk of hazard to human health or the environment under a "residential with minimal opportunities for soil access" form of development, with the exception of detection of asbestos fines (AF) and fibrous asbestos (FA) in the fill profile at one location and elevated Benzo(a)Pyrene concentrations in the fill profile at another location, as shown on Drawing No 14561/1-AA2. Asbestos (AF and FA) presents a risk of harm to human health, whilst elevated Benzo(a)Pyrene concentrations might impact on terrestrial ecosystems.

Based on this assessment, in our opinion, the site is considered suitable for the proposed mixed use development subject to implementation of the following recommendations, prior to earthworks:

- Detailed sampling and testing in the vicinity of BH3 and BH5 to delineate the extent of asbestos and PAH contamination.
- Additional sampling and testing of soils at 21 locations beneath the buildings, car park, driveway and open area after demolition and/or removal/clearing of site features and hardstand area to satisfy EPA sampling guidelines for 1.62ha area, as 5 systematic locations was already adopted during the PCA.

If any suspect materials (identified by unusual staining, odour, discolouration or inclusions such as building rubble, asbestos sheets/pieces/pipes, ash material, etc.) are encountered during any stage of future earthworks/site preparation/demolitions, the Unexpected Finds Management Protocol (Appendix J) should be implemented. In the event of contamination, detailed assessment, remediation and validation will be necessary.

For any materials to be excavated and removed from the site, it is recommended that waste classification of the materials, in accordance with the "Waste Classification Guidelines Part 1: Classifying Waste"( NSW EPA 2014), NSW EPA resource recovery exemptions and orders under the Protection of the Environment Operations (Waste) Regulation 2014, or NSW EPA Certification: Virgin excavated natural material is undertaken prior to disposal at an appropriately licensed landfill or potential re-use at other sites.

Any imported soil (fill) must be assessed by a qualified environmental consultant, prior to importation, to ensure suitability for the proposed use. In addition, the imported fill must not contain asbestos and ash, be free of unusual odour, not be discoloured, and not acid sulphate soil or potential acid sulphate soil. The imported fill should either be virgin excavated natural material or excavated natural material.

## 16.0 LIMITATIONS

Within the scope of work outlined in the fee proposal (Our Ref: Q8898E) dated 23 August 2019, the services performed by Geotechnique were conducted in a manner consistent with the level of quality and skill generally exercised by members of the profession and consulting practice.

To the best of our knowledge, all information obtained and contained in this report is true and accurate. No further investigation has been carried out to authenticate the information provided. Supporting documentation was obtained where possible, some of which is contained in this report.

This report has been prepared for Australian Foundation for Disability through J Wyndham Prince Pty Ltd for the purposes stated within. Penrith City Council may rely upon the report for development and/or construction application determinations. Reliance on this report by other parties shall be at such parties' sole risk as the report might not contain sufficient information for other purposes.

This report shall only be presented in full and may not be used to support any objective other than those set out in the report, except where written approval is provided by Geotechnique Pty Ltd.

The information in this report is considered accurate at the completion of field sampling (1 November 2019). Any variations to the site form or use beyond that date will nullify the conclusion stated.

Whilst the assessment conducted at the site was carried out in accordance with current NSW guidelines, the potential always exists for contaminated soils to be present between sampled locations.

Presented in Appendix K is a document entitled "Environmental Notes", which should be read in conjunction with this report.

***LIST OF REFERENCES***

*Australian Standard "Guide to the Sampling and Investigation of Potentially Contaminated Soil Part 1: Non-volatile and semi-volatile compounds" (AS4482.1-2005)*

*Australian Standard "Guide to the Sampling and Investigation of Potentially Contaminated Soil Part 2: Volatile substances" (AS4482.2-1999)*

*Contaminated Land Management Act 1997*

*Contaminated Land Management Regulation 1998*

*Contaminated Sites: Guidelines for Consultants Reporting on Contaminated Sites – NSW Environment Protection Authority 2011*

*Contaminated Sites: Guidelines for the NSW Site Auditor Scheme (3rd Edition) –NSW EPA 2017*

*Contaminated Sites: Sampling Design Guidelines - NSW Environment Protection Authority 1995*

*Geology of Penrith 1:100,000 Sheet (9030) – Geological Survey of New South Wales, Department of Minerals and Energy 1991*

*Managing Land Contamination: Planning Guidelines SEPP 55 – Remediation of Land – Department of Urban Affairs and Planning / NSW Environment Protection Authority 1998*

*National Environment Protection (Assessment of Site Contamination) Measure – National Environmental Protection Council (NEPM) 1999 (April 2013)*

*Protection of the Environment Operations (Waste) Regulation 2005 – General Exemption Under Part 6, Clause 51 and 51A – The Excavated Natural Material Exemption & Order 2014*

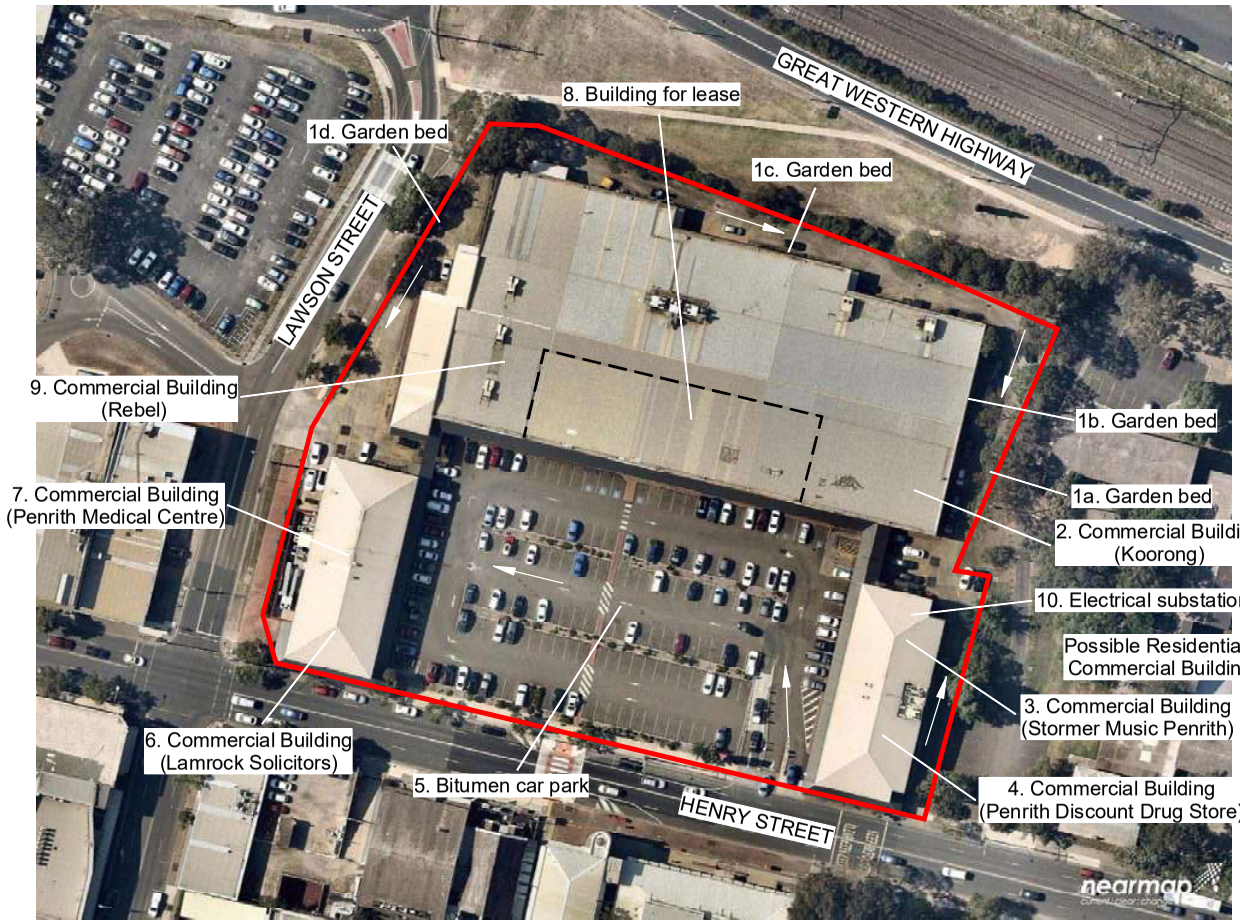
*Soil Landscape of Penrith 1:100,000 Sheets (9030) – Soil Conservation Service Survey of NSW 1989*

*Standard Methods for the Examination of Water and Wastewater – American Public Health Association (APHA) 2005*

*Waste Classification Guidelines Part 1: Classifying Waste - NSW DECC (November 2014)*

**DRAWINGS**

| | |
|---|---|
| *Drawing No 14561/1-AA1* | *Site Features* |
| *Drawing No 14561/2-AA1* | *Borehole Locations* |
| *Drawing No 14561/1-AA2* | *Locations of Concern* |




Imagery ©2019 NearMap.com

N

LEGEND

Slope

0 15 30 45 60 75m

Scale 1:1500

GEOTECHNIQUE PTY LTD
PO Box 880
Penrith NSW 2750
Tel: 02 4722 2700
Fax: 02 4722 2777
e-mail:info@geotech.com.au
www.geotech.com.au

NOTES

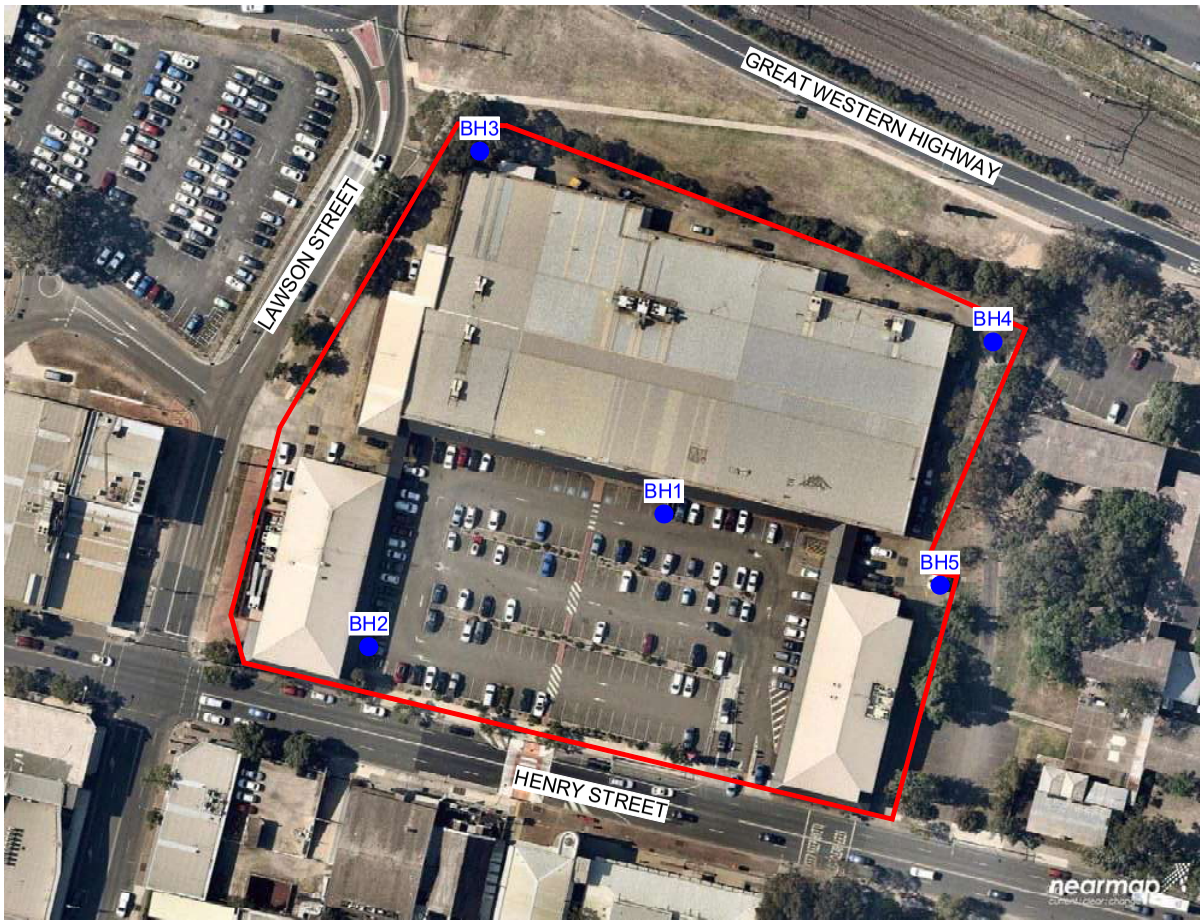
1. Site features are indicative and are not to scale.
2. This drawing has been produced using a base plan provided by others to which additional information e.g test pits, borehole locations or notes have been added. Some or all of the plan may not be relevant at the time of producing this drawing

J Wyndham Prince Pty Ltd
Proposed Multi Storey Mixed Development
61-79 Henry Street
Penrith

Site Features

Drawing No: 14561/1-AA1
Job No: 14561/1
Drawn By: MH
Date: 8 November 2019
Checked By: AB/SS

File No: 14561-1
Layers: 0, AA1




Imagery ©2019 NearMap.com

N

LEGEND

- Borehole

0 15 30 45 60 75m

Scale 1:1500

GEOTECHNIQUE® PTY LTD
PO Box 880
Penrith NSW 2750
Tel: 02 4722 2700
Fax: 02 4722 2777
e-mail:info@geotech.com.au
www.geotech.com.au

NOTES

1. Site features are indicative and are not to scale.
2. This drawing has been produced using a base plan provided by others to which additional information e.g test pits, borehole locations or notes have been added. Some or all of the plan may not be relevant at the time of producing this drawing

J Wyndham Prince Pty Ltd
Proposed Multi Storey Mixed Development
61-79 Henry Street
Penrith

Borehole Locations

Drawing No: 14561/2-AA1
Job No: 14561/2
Drawn By: MH
Date: 5 November 2019
Checked By: RR

File No: 14561-2
Layers: 0, AA1




Imagery ©2019 NearMap.com

N

| Sample Location | Depth (m) | Contaminant | Concentration |
|---|---|---|---|
| BH3 | 0.1-0.25 | Asbestos (<7mm AF/FA) | **0.004% w/w** |
| BH5 | 0.55-0.7 | Benzo(a)Pyrene (BaP) | **1.9mg/kg** |
| BH5 | 1.05-1.2 | BaP | **1.0mg/kg** |
| **Assessment Criteria** | **0.04% w/w** for ACM in soil for residential land use<br>**0.001% w/w** for AF & FA in soil<br>**No visual asbestos (ACM)** for surface soil<br>BaP = **0.7mg/kg** (ESL- Fine-grained soil) | | |

Notes:

ACM: Asbestos Containing Material

AF / FA: Asbestos Fine / Fibrous Asbestos

ESL : Ecological Screening Level for urban residential land use

LEGEND

Slope

0 15 30 45 60 75m

Scale 1:1500

GEOTECHNIQUE® PTY LTD
PO Box 880
Penrith NSW 2750
Tel: 02 4722 2700
Fax: 02 4722 2777
e-mail:info@geotech.com.au
www.geotech.com.au

NOTES

1. Site features are indicative and are not to scale.
2. This drawing has been produced using a base plan provided by others to which additional information e.g test pits, borehole locations or notes have been added. Some or all of the plan may not be relevant at the time of producing this drawing

J Wyndham Prince Pty Ltd
Proposed Multi Storey Mixed Development
61-79 Henry Street
Penrith

Locations of Concern

Drawing No: 14561/1-AA2
Job No: 14561/1
Drawn By: MH
Date: 2 December 2019
Checked By: AB

File No: 14561-1
Layers: 0, AA2

**TABLES**


| | |
|---|---|
| *Table A* | *Rinsates* |
| *Table B* | *Trip Spikes* |
| *Tables C* | *Duplicate Sample* |
| *Tables D* | *Split Sample* |
| *Tables E1 & E2* | *Metals, Cation Exchange Capacity (CEC) & pH Test Results – Discrete Samples* |
| *Table F* | *Total Recoverable Hydrocarbons (TRH) & BTEX Test Results – Discrete Samples* |
| *Table G* | *Polycyclic Aromatic Hydrocarbons (PAH) Test Results – Discrete Samples* |
| *Table H* | *Organochlorine Pesticides (OCP), Polychlorinated Biphenyls (PCB) & Phenols Test Results – Discrete Samples* |
| *Table I* | *Asbestos Test Results – Discrete Samples* |

GEOTECHNIQUE PTY LTD

## TABLE A
## RINSATES
## (Ref No: 14561/1-AA)

| SAMPLE<br>DATE | RS1<br>30/10/2019 | RS2<br>31/10/2019 | RS3<br>1/11/2019 |
|---|---|---|---|
| **METAL** | **(mg/L)** | **(mg/L)** | **(mg/L)** |
| Arsenic | <0.02 | <0.02 | <0.02 |
| Cadmium | <0.001 | <0.001 | <0.001 |
| Chromium | <0.005 | <0.005 | <0.005 |
| Copper | <0.005 | <0.005 | <0.005 |
| Lead | <0.02 | <0.02 | <0.02 |
| Mercury | <0.0001 | <0.0001 | <0.0001 |
| Nickel | <0.005 | <0.005 | <0.005 |
| Zinc | <0.01 | <0.01 | <0.01 |
| **POLYCYCLIC AROMATIC HYDROCARBON (PAH)** | **-** | **-** | **(µg/L)** |
| Total PAH | - | - | <1 |
| Naphthalene | - | - | <0.1 |
| Benzo(a)Pyrene | - | - | <0.1 |

GEOTECHNIQUE PTY LTD

**TABLE B**
**TRIP SPIKES**
**(Ref No: 14561/1-AA)**

| Sample | Sampling Date | BTEX | | | |
|---|---|---|---|---|---|
| | | Benzene | Toluene | Ethylbenzene | Xylenes |
| TS1 | 30/10/2019 | 88% | 97% | 102% | 103% |
| TS2 | 31/10/2019 | 72% | 77% | 78% | 77% |
| TS3 | 1/11/2019 | 83% | 86% | 89% | 90% |

Note : results are reported as percentage recovery of known spike concentrations

GEOTECHNIQUE
PTY LTD

# TABLE C
## DUPLICATE SAMPLE
## (Ref No: 14561/1-AA)

| ANALYTE | BH1 0.7-0.85 (m) mg/kg | DSS1 mg/kg | RELATIVE PERCENTAGE DIFFERENCES (RPD) % |
|---|---|---|---|
| Arsenic | 3 | 5 | 50 |
| Cadmium | <0.3 | <0.3 | - |
| Chromium | 7.1 | 7.9 | 11 |
| Copper | 37 | 42 | 13 |
| Lead | 11 | 15 | 31 |
| Mercury | <0.05 | <0.05 | - |
| Nickel | 53 | 55 | 4 |
| Zinc | 52 | 74 | 35 |
| **TOTAL RECOVERABLE HYDROCARBONS (TRH)** | | | |
| F1 (C6-C10 less BTEX) | <25 | <25 | - |
| F2 (>C10-C16) | <25 | <25 | - |
| F3 (>C16-C34) | <90 | <90 | - |
| F4 (>C34-C40) | <120 | <120 | - |
| **BTEX** | | | |
| Benzene | <0.1 | <0.1 | - |
| Toluene | <0.1 | <0.1 | - |
| Ethyl Benzene | <0.1 | <0.1 | - |
| Xylenes | <0.3 | <0.3 | - |
| **POLYCYCLIC AROMATIC HYDROCARBONS** | | | |
| Benzo(a)Pyrene TEQ | <0.3 | <0.3 | - |
| Total PAH | <0.8 | <0.8 | - |
| Naphthalene | <0.1 | <0.1 | - |
| Benzo(a)Pyrene | <0.1 | <0.1 | - |
| **ORGANOCHLORINE PESTICIDES (OCP)** | | | |
| Hexachlorobenzene (HCB) | <0.1 | <0.1 | - |
| Heptachlor | <0.1 | <0.1 | - |
| Aldrin+Dieldrin | <0.15 | <0.15 | - |
| Endrin | <0.2 | <0.2 | - |
| Methoxychlor | <0.1 | <0.1 | - |
| Mirex | <0.1 | <0.1 | - |
| Endosulfan (alpha, beta & sulphate) | <0.5 | <0.5 | - |
| DDD+DDE+DDT | <0.6 | <0.6 | - |
| Chlordane (alpha & gamma) | <0.2 | <0.2 | - |
| **POLYCHLORINATED BIPHENYLS (PCB)** | | | |
| Total PCB | <1 | <1 | - |
| **Phenols** | <5 | <5 | - |

GEOTECHNIQUE PTY LTD

# TABLE D
## SPLIT SAMPLE
## (Ref No: 14561/1-AA)

| ANALYTE | BH5 0.55-0.7 (m) mg/kg (SGS) | DSS1 mg/kg (ENVIROLAB) | RELATIVE PERCENTAGE DIFFERENCES (RPD) % |
|---|---|---|---|
| Arsenic | 10 | 8 | 22 |
| Cadmium | <0.3 | 0.6 | - |
| Chromium | 13 | 14 | 7 |
| Copper | 35 | 34 | 3 |
| Lead | 130 | 93 | 33 |
| Mercury | 0.2 | 0.3 | 40 |
| Nickel | 8.0 | 9 | 12 |
| Zinc | 260 | 180 | 36 |
| **TOTAL RECOVERABLE HYDROCARBONS (TRH)** | | | |
| F1 (C6-C10 less BTEX) | <25 | <25 | - |
| F2 (>C10-C16) | <25 | <50 | - |
| F3 (>C16-C34) | <90 | <100 | - |
| F4 (>C34-C40) | <120 | <100 | - |
| **BTEX** | | | |
| Benzene | <0.1 | <0.2 | - |
| Toluene | <0.1 | <0.5 | - |
| Ethyl Benzene | <0.1 | <1 | - |
| Xylenes | <0.3 | <3 | - |
| **POLYCYCLIC AROMATIC HYDROCARBONS (PAH)** | | | |
| Benzo(a)Pyrene TEQ | 2.6 | 1.4 | 60 |
| Total PAH | 18 | 11 | 48 |
| Naphthalene | <0.1 | <1 | - |
| Benzo(a)Pyrene | 1.9 | 0.92 | 70 |
| **ORGANOCHLORINE PESTICIDES (OCP)** | | | |
| Hexachlorobenzene (HCB) | <0.1 | <0.1 | - |
| Heptachlor | <0.1 | <0.1 | - |
| Aldrin+Dieldrin | <0.15 | <0.2 | - |
| Endrin | <0.2 | <0.1 | - |
| Methoxychlor | <0.1 | <0.1 | - |
| Endosulfan (alpha (I), beta (II) & sulphate) | <0.5 | <0.3 | - |
| DDD+DDE+DDT | <0.6 | <0.3 | - |
| Chlordane (alpha & gamma) | <0.2 | <0.2 | - |
| **POLYCHLORINATED BIPHENYLS (PCB)** | | | |
| Total PCB | <1 | <0.1 | - |
| **Phenols** | <5 | <5 | - |

GEOTECHNIQUE
PTY LTD

**TABLE E1**
**METAL, CATION EXCHANGE CAPACITY (CEC) & pH TEST RESULTS**
**DISCRETE SAMPLES**
**(Ref No: 14561/1-AA)**

| Sample Location | Depth (m) | METAL (mg/kg) ARSENIC | CADMIUM | CHROMIUM (Total) | COPPER | LEAD | MERCURY | NICKEL | ZINC | CEC ($cmol_c/kg$) | pH |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Fill Samples** | | | | | | | | | | | |
| BH1 | 0.2-0.35 | 3 | <0.3 | 7.1 | 47 | 9 | <0.05 | 69 | 57 | 18 | 9.3 |
| BH1 | 0.7-0.85 | 3 | <0.3 | 7.1 | 37 | 11 | <0.05 | 53 | 52 | 18 | 9.2 |
| BH2 | 0.25-0.4 | 4 | <0.3 | 6.9 | 28 | 18 | <0.05 | 16 | 42 | 11 | 7.4 |
| BH3 | 0.1-0.25 | 2 | <0.3 | 8.5 | 8.9 | 6 | <0.05 | 14 | 30 | 5.9 | 8.5 |
| BH3 | 0.8-0.95 | 3 | <0.3 | 6.1 | 10 | 20 | <0.05 | 13 | 42 | 8.2 | 8.3 |
| BH4 | 0.25-0.4 | 5 | <0.3 | 9.8 | 11 | 9 | <0.05 | 1.2 | 10 | 5.1 | 5.6 |
| BH5 | 0.55-0.7 | 10 | <0.3 | 13 | 35 | 130 | 0.2 | 8.0 | 260 | 13 | 6.4 |
| BH5 | 1.05-1.2 | 7 | <0.3 | 13 | 25 | 88 | 0.21 | 7.3 | 170 | 7.3 | 6.5 |
| BH5 | 1.55-1.7 | 6 | <0.3 | 14 | 21 | 23 | <0.05 | 14 | 66 | 16 | 7.3 |
| BH5 | 2.55-2.7 | 3 | <0.3 | 7.6 | 14 | 9 | <0.05 | 5.9 | 24 | 16 | 7.7 |
| Limit of Reporting (LOR) | | 1 | 0.3 | 0.5 | 0.5 | 1 | 0.05 | 0.5 | 2 | 0.02 | 0.1 |
| **NATIONAL ENVIRONMENT PROTECTION AMENDMENT MEASURE (2013)** | | | | | | | | | | | |
| Health-based Investigation Levels (HIL) B - [a] Residential B | | 500 | 150 | 500 [c] | 30000 | 1200 | 30 [d] | 1200 | 60000 | | |
| Ecological Investigation Levels (EIL) - [b] Urban residential | | 100 [e] | - | 190 [f] | 210 | 1100 [g] | - | 190 | 540 | | |

Notes:
a: Residential with minimal opportunities for soil access; includes dwellings with fully and permanently paved yard space such as high-rise buildings and apartments.
b: EIL of aged chromium, copper, nickel & zinc were derived from calculation spreadsheet developed by CSIRO for NEPC; Old Suburb with Low Traffic; the average CEC= 11.9 cmolc/kg & pH= 7.6; the assumed clay content=1 % were selected for derivation of EIL; a conservative approach.
c: Chromium (VI)
d: Methyl Mercury
e: Generic EIL for aged arsenic
f: Chromium (III)
g: Generic added contaminant limit for aged lead

GEOTECHNIQUE
PTY LTD

**TABLE E2**
**METAL, CATION EXCHANGE CAPACITY (CEC) & pH TEST RESULTS**
**DISCRETE SAMPLES**
**(Ref No: 14561/1-AA)**

| Sample Location | Depth (m) | METAL (mg/kg) ARSENIC | CADMIUM | CHROMIUM (Total) | COPPER | LEAD | MERCURY | NICKEL | ZINC | CEC ($cmol_c/kg$) | pH |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Natural Samples** | | | | | | | | | | | |
| BH1 | 1.25-1.35 | 6 | <0.3 | 24 | 26 | 33 | <0.05 | 16 | 62 | 14 | 7.2 |
| BH1 | 1.8-1.9 | 6 | <0.3 | 11 | 22 | 16 | <0.05 | 13 | 40 | 14 | 7.5 |
| BH1 | 2.3-2.4 | 3 | <0.3 | 7.1 | 18 | 9 | <0.05 | 7.8 | 22 | 17 | 8.1 |
| BH1 | 4.5-4.6 | 9 | <0.3 | 9.8 | 30 | 13 | <0.05 | 9.0 | 50 | 12 | 8.1 |
| BH2 | 0.7-0.8 | 5 | <0.3 | 11 | 13 | 15 | <0.05 | 4.0 | 16 | 9.9 | 5.9 |
| BH2 | 2.6-2.7 | 7 | <0.3 | 15 | 8.1 | 11 | <0.05 | 1.5 | 12 | 11 | 5.2 |
| BH2 | 4.1-4.2 | 11 | <0.3 | 9.2 | 15 | 13 | <0.05 | 1.6 | 16 | 16 | 4.6 |
| BH3 | 1.75-1.85 | 42 | <0.3 | 8.3 | 23 | 10 | <0.05 | 8.8 | 190 | 30 | 7.5 |
| BH5 | 3.85-3.95 | 7 | <0.3 | 6.8 | 33 | 20 | <0.05 | 17 | 71 | 17 | 7.7 |
| Limit of Reporting (LOR) | | 1 | 0.3 | 0.5 | 0.5 | 1 | 0.05 | 0.5 | 2 | 0.02 | 0.1 |
| **NATIONAL ENVIRONMENT PROTECTION AMENDMENT MEASURE (2013)** | | | | | | | | | | | |
| Health-based Investigation Levels (HIL) B - [a] Residential B | | 500 | 150 | 500 [c] | 30000 | 1200 | 30 [d] | 1200 | 60000 | | |
| Ecological Investigation Levels (EIL) - [b] Urban residential | | 100 [e] | - | 410 [f] | 220 | 1100 [g] | - | 230 | 650 | | |

Notes:
a: Residential with minimal opportunities for soil access; includes dwellings with fully and permanently paved yard space such as high-rise buildings and apartments.
b: EIL of aged chromium, copper, nickel & zinc were derived from calculation spreadsheet developed by CSIRO for NEPC; Old Suburb with Low Traffic; the average CEC=15.7cmolc/kg & pH=6.9; the assumed clay content=10 % were selected for derivation of EIL; a conservative approach.
c: Chromium (VI)
d: Methyl Mercury
e: Generic EIL for aged arsenic
f: Chromium (III)
g: Generic added contaminant limit for aged lead

GEOTECHNIQUE PTY LTD

# TABLE F
## TOTAL RECOVERABLE HYDROCARBONS (TRH) AND BTEX TEST RESULTS
## DISCRETE SAMPLES
## (Ref No: 14561/1-AA)

| | | | | | | | | | | | | | NATIONAL ENVIRONMENT PROTECTION AMENDMENT MEASURE (2013) | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | TRH (mg/kg) | | | | | BTEX (mg/kg) | | | | | Health Screening Levels (HSL) B High density residential | | | | | | Ecological Screening Levels for fine-grained soil Urban residential | | | | | | | | Ecological Screening Levels for coarse-grained soil Urban residential | | | | | | | |
| Sample Location | Depth (m) | Soil type | F1 | F2* | F2** | F3 | F4 | BENZENE | TOLUENE | ETHYLBENZENE | XYLENES | | F1 | F2* | BENZENE | TOLUENE | ETHYLBENZENE | XYLENES | F1 | F2** | F3 | F4 | BENZENE | TOLUENE | ETHYLBENZENE | XYLENES | F1 | F2** | F3 | F4 | BENZENE | TOLUENE | ETHYLBENZENE | XYLENES |
| BH1 | 0.2-0.35 | Clay | <25 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 | | 50 | 280 | 0.7 | 480 | NL | 110 | 180 | 120 | 1300 | 5600 | 65 | 105 | 125 | 45 | - | - | - | - | - | - | - | - |
| BH1 | 0.7-0.85 | Clay | <25 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 | | 50 | 280 | 0.7 | 480 | NL | 110 | 180 | 120 | 1300 | 5600 | 65 | 105 | 125 | 45 | - | - | - | - | - | - | - | - |
| BH1 | 1.25-1.35 | Clay | <25 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 | | 90 | NL | 1 | NL | NL | 310 | 180 | 120 | 1300 | 5600 | 65 | 105 | 125 | 45 | - | - | - | - | - | - | - | - |
| BH2 | 0.25-0.4 | Clay | <25 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 | | 50 | 280 | 0.7 | 480 | NL | 110 | 180 | 120 | 1300 | 5600 | 65 | 105 | 125 | 45 | - | - | - | - | - | - | - | - |
| BH2 | 0.7-0.8 | Clay | <25 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 | | 50 | 280 | 0.7 | 480 | NL | 110 | 180 | 120 | 1300 | 5600 | 65 | 105 | 125 | 45 | - | - | - | - | - | - | - | - |
| BH3 | 0.1-0.25 | Sand | <25 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 | | 45 | 110 | 0.5 | 160 | 55 | 40 | - | - | - | - | - | - | - | - | 180 | 120 | 300 | 2800 | 50 | 85 | 70 | 105 |
| BH3 | 0.8-0.95 | Sand | <25 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 | | 45 | 110 | 0.5 | 160 | 55 | 40 | - | - | - | - | - | - | - | - | 180 | 120 | 300 | 2800 | 50 | 85 | 70 | 105 |
| BH3 | 1.75-1.85 | Clay | <25 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 | | 90 | NL | 1 | NL | NL | 310 | 180 | 120 | 1300 | 5600 | 65 | 105 | 125 | 45 | - | - | - | - | - | - | - | - |
| BH4 | 0.25-0.4 | Clay | <25 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 | | 50 | 280 | 0.7 | 480 | NL | 110 | 180 | 120 | 1300 | 5600 | 65 | 105 | 125 | 45 | - | - | - | - | - | - | - | - |
| BH5 | 0.55-0.7 | Clay | <25 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 | | 50 | 280 | 0.7 | 480 | NL | 110 | 180 | 120 | 1300 | 5600 | 65 | 105 | 125 | 45 | - | - | - | - | - | - | - | - |
| BH5 | 1.55-1.7 | Clay | <25 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 | | 90 | NL | 1 | NL | NL | 310 | 180 | 120 | 1300 | 5600 | 65 | 105 | 125 | 45 | - | - | - | - | - | - | - | - |
| BH5 | 3.85-3.95 | Clay | <25 | <25 | <25 | <90 | <120 | <0.1 | <0.1 | <0.1 | <0.3 | | 150 | NL | 2 | NL | NL | NL | 180 | 120 | 1300 | 5600 | 65 | 105 | 125 | 45 | - | - | - | - | - | - | - | - |
| Limit of Reporting (LOR) | | | 25 | 25 | 25 | 90 | 120 | 0.1 | 0.1 | 0.1 | 0.3 | | | | | | | | | | | | | | | | | | | | | | | |

Notes:
F1: C6-C10 less BTEX
F2*: >C10-C16 less Naphthalene
F2**: >C10-C16
F3: >C16-C34
F4: >C34-C40
NL: Not Limiting

GEOTECHNIQUE PTY LTD

# TABLE G
## POLYCYCLIC AROMATIC HYDROCARBONS (PAH) TEST RESULTS
## DISCRETE SAMPLES
## (Ref No: 14561/1-AA)

| | | | | | | | NATIONAL ENVIRONMENT PROTECTION AMENDMENT MEASURE (2013) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | PAH (mg/kg) | | | | Health-based Investigation Levels (HIL) B - Residential B | | Health Screening Level (HSL) B - High density residential | Generic Ecological Investigation Level (EIL) - Urban residential | Ecological Screening Level (ESL) - Urban residential |
| Sample Location | Depth (m) | Soil type | BaP TEQ | TOTAL PAHs | NAPHTHALENE | BENZO(a)PYRENE (BaP) | BaP TEQ | TOTAL PAHs | NAPHTHALENE | NAPHTHALENE | BENZO(a)PYRENE (BaP) |
| BH1 | 0.2-0.35 | Clay | <0.3 | <0.8 | <0.1 | <0.1 | 4 | 400 | 5 | 170 | 0.7 |
| BH1 | 0.7-0.85 | Clay | <0.3 | <0.8 | <0.1 | <0.1 | 4 | 400 | 5 | 170 | 0.7 |
| BH1 | 1.25-1.35 | Clay | <0.3 | <0.8 | <0.1 | <0.1 | 4 | 400 | NL | 170 | 0.7 |
| BH2 | 0.25-0.4 | Clay | <0.3 | <0.8 | <0.1 | <0.1 | 4 | 400 | 5 | 170 | 0.7 |
| BH2 | 0.7-0.8 | Clay | <0.3 | <0.8 | <0.1 | <0.1 | 4 | 400 | 5 | 170 | 0.7 |
| BH3 | 0.1-0.25 | Sand | <0.3 | <0.8 | <0.1 | <0.1 | 4 | 400 | 3 | 170 | 0.7 |
| BH3 | 0.8-0.95 | Sand | <0.3 | <0.8 | <0.1 | <0.1 | 4 | 400 | 3 | 170 | 0.7 |
| BH3 | 1.75-1.85 | Clay | <0.3 | <0.8 | <0.1 | <0.1 | 4 | 400 | NL | 170 | 0.7 |
| BH4 | 0.25-0.4 | Clay | <0.3 | <0.8 | <0.1 | <0.1 | 4 | 400 | 5 | 170 | 0.7 |
| BH5 | 0.55-0.7 | Clay | 2.6 | 18 | <0.1 | **1.9** | 4 | 400 | 5 | 170 | 0.7 |
| BH5 | 1.05-1.2 | Clay | 1.4 | 11 | <0.1 | **1.0** | 4 | 400 | NL | 170 | 0.7 |
| BH5 | 1.55-1.7 | Clay | <0.3 | <0.8 | <0.1 | <0.1 | 4 | 400 | NL | 170 | 0.7 |
| BH5 | 3.85-3.95 | Clay | <0.3 | <0.8 | <0.1 | <0.1 | 4 | 400 | NL | 170 | 0.7 |
| Limit of Reporting (LOR) | | | 0.3 | 0.8 | 0.1 | 0.1 | | | | | |

Notes: a: Residential with minimal opportunities for soil access; includes dwellings with fully and permanently paved yard space such as high-rise buildings and apartments.

NL: Not Limiting

GEOTECHNIQUE PTY LTD

## TABLE H
### ORGANOCHLORINE PESTICIDES (OCP), POLYCHLORINATED BIPHENYLS (PCB) & PHENOLS TEST RESULTS
### DISCRETE SAMPLES
### (Ref No: 14561/1-AA)

| Sample Location | Depth (m) | OCP (mg/kg) | | | | | | | | | | PCB (mg/kg) | Phenols (mg/kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | HEXACHLOROBENZENE (HCB) | HEPTACHLOR | ALDRIN+DIELDRIN | ENDRIN | METHOXYCHLOR | MIREX | ENDOSULFAN (alpha, beta & sulphate) | DDD+DDE+DDT | DDT | CHLORDANE (alpha & gamma) | | |
| BH1 | 0.2-0.35 | <0.1 | <0.1 | <0.15 | <0.2 | <0.1 | <0.1 | <0.5 | <0.6 | <0.2 | <0.2 | <1 | <5 |
| BH1 | 0.7-0.85 | <0.1 | <0.1 | <0.15 | <0.2 | <0.1 | <0.1 | <0.5 | <0.6 | <0.2 | <0.2 | <1 | <5 |
| BH1 | 1.25-1.35 | <0.1 | <0.1 | <0.15 | <0.2 | <0.1 | <0.1 | <0.5 | <0.6 | <0.2 | <0.2 | <1 | - |
| BH2 | 0.25-0.4 | <0.1 | <0.1 | <0.15 | <0.2 | <0.1 | <0.1 | <0.5 | <0.6 | <0.2 | <0.2 | <1 | <5 |
| BH2 | 0.7-0.8 | <0.1 | <0.1 | <0.15 | <0.2 | <0.1 | <0.1 | <0.5 | <0.6 | <0.2 | <0.2 | <1 | - |
| BH3 | 0.1-0.25 | <0.1 | <0.1 | <0.15 | <0.2 | <0.1 | <0.1 | <0.5 | <0.6 | <0.2 | <0.2 | <1 | <5 |
| BH3 | 0.8-0.95 | <0.1 | <0.1 | <0.15 | <0.2 | <0.1 | <0.1 | <0.5 | <0.6 | <0.2 | <0.2 | <1 | <5 |
| BH4 | 0.25-0.4 | <0.1 | <0.1 | <0.15 | <0.2 | <0.1 | <0.1 | <0.5 | <0.6 | <0.2 | <0.2 | <1 | <5 |
| BH5 | 0.55-0.7 | <0.1 | <0.1 | <0.15 | <0.2 | <0.1 | <0.1 | <0.5 | <0.6 | <0.2 | <0.2 | <1 | <5 |
| BH5 | 1.55-1.7 | <0.1 | <0.1 | <0.15 | <0.2 | <0.1 | <0.1 | <0.5 | <0.6 | <0.2 | <0.2 | <1 | <5 |
| Limit of Reporting (LOR) | | 0.1 | 0.1 | 0.15 | 0.2 | 0.1 | 0.1 | 0.5 | 0.6 | 0.2 | 0.2 | 1 | 5 |
| **NATIONAL ENVIRONMENT PROTECTION AMENDMENT MEASURE (2013)** | | | | | | | | | | | | | |
| Health-based Investigation Levels (HIL) B - Residential B[a] | | 15 | 10 | 10 | 20 | 500 | 20 | 400 | 600 | | 90 | 1 | 45000 |
| Ecological Investigation Levels (EIL) - Urban residential | | | | | | | | | | 180[b] | | | |

Notes: a: Residential with minimal opportunities for soil access; includes dwellings with fully and permanently paved yard space such as high-rise buildings and apartments.

b: Generic EIL for DDT

GEOTECHNIQUE
PTY LTD

**TABLE I**
**ASBESTOS TEST RESULTS**
**DISCRETE SAMPLES**
**(Ref No: 14561/1-AA)**

| Sample Location | Depth (m) | ASBESTOS (% w/w) | |
|---|---|---|---|
| **Soil Sample** | | ACM (>7mm) | AF/FA (<7mm) |
| BH1 | 0.2-0.35 | <0.01 | <0.001 |
| BH1 | 0.7-0.85 | <0.01 | <0.001 |
| BH2 | 0.25-0.4 | <0.01 | <0.001 |
| BH3 | 0.1-0.25 | <0.01 | **0.004** |
| BH3 | 0.8-0.95 | <0.01 | <0.001 |
| BH5 | 0.55-0.7 | <0.01 | <0.001 |
| BH5 | 1.55-1.7 | <0.01 | <0.001 |
| Limits of Reporting (LOR) | | 0.01 | 0.001 |
| **NATIONAL ENVIRONMENT PROTECTION AMENDMENT MEASURE (2013)** Health Screening Levels - Residential B[a] | | 0.04 | 0.001 |

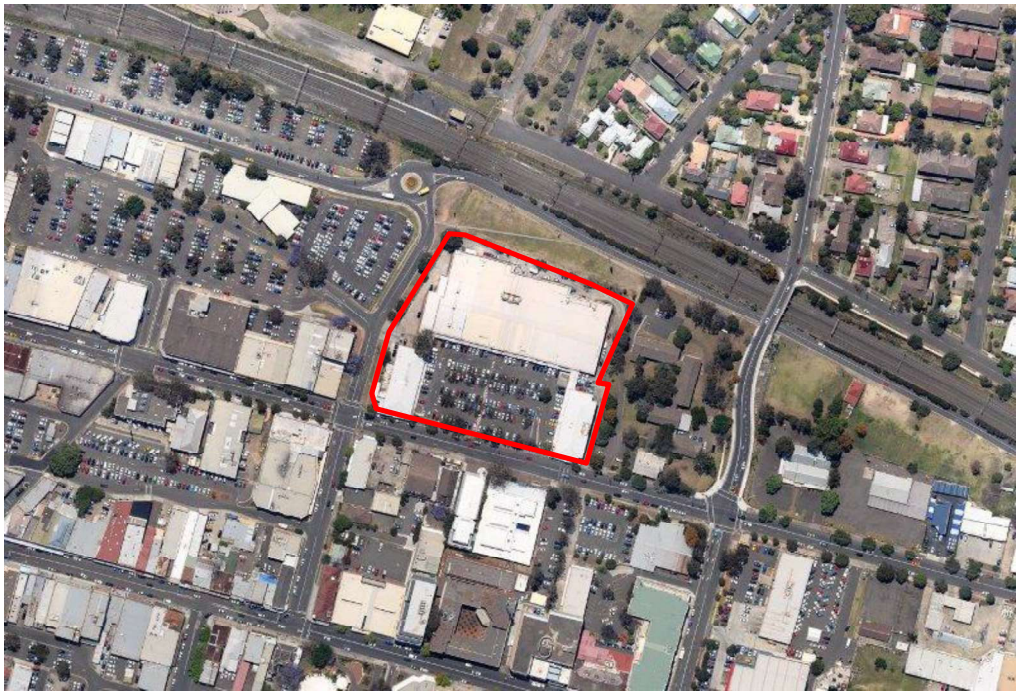
Notes:
ACM: Asbestos Containing Material
AF: Asbestos Fines
FA: Fibrous Asbestos
a: Residential with minimal opportunities for soil access; includes dwellings with fully and permanently paved yard space such as high-rise buildings and apartments.

# APPENDIX A

## AERIAL PHOTOGRAPHS



**September 2019**



**October 2009**



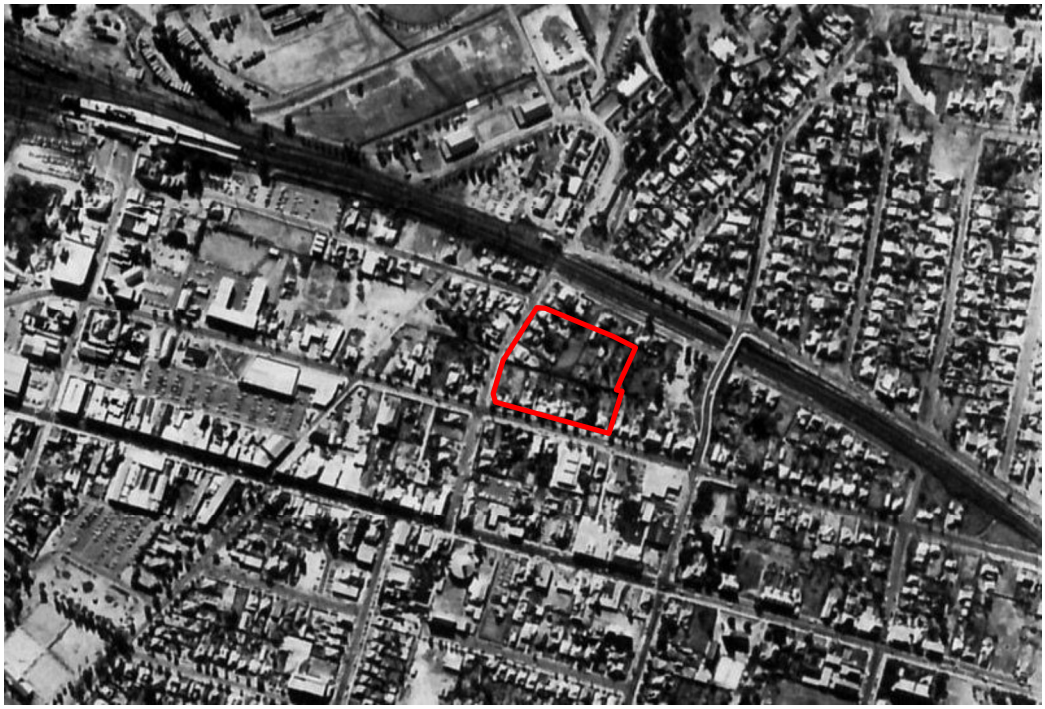
**2002**



**1994**



**1982**



**1970**



**1961**

**APPENDIX B**

---

**DEPARTMENT OF LANDS RECORDS**

**14561/1**

# Summary of Proprietors

## Lot 1 DP771927

| Year | Proprietor |
|---|---|
| 2008 - 2019 | Australian Foundation for Disability |
| 2000 - 2008 | AMP Capital Investors Limited (formerly AMP Henderson Global Investors Limited and AMP Asset Management Australia Limited) |
| 1994 - 2000 | Perpetual Trustee Company Limited |
| 1992 - 1994 | GIO Life Limited |
| 1987 - 1992 | GIO Australia Holdings Limited (formerly Government Insurance Office of New South Wales) |
| 1987 | Hooker Corporation Limited |

| Expiry Date | Lessees (Part) |
|---|---|
| 31/10/2041 | Endeavour Energy of substation no. 18042 |
| 30/6/2022 | Shop 3B – Koorong Books Pty Limited |
| 23/9/2021 | Shop 5B – Stormer Music Pty Ltd |
| 30/4/2021 | Suite 4B – Lamrocks Legal Pty Limited |
| 30/4/2020 | Suite 4A - IPN Medical Centres Pty Limited |
| 31/8/2020 | Unit 1 – Rebel Sport Limited |
| 31/8/2020 | Shop 5A - New Apothecary Pty Ltd |
| 30/6/2017 | Showrooms 2A, 2B and 3A – The Good Guys Discount Warehouses (Australia) Pty Limited |
| 30/9/2016 | Suite 5A – Wentworth Healthcare Limited |

NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: 1/771927

| SEARCH DATE | TIME | EDITION NO | DATE |
|---|---|---|---|
| 21/10/2019 | 11:33 AM | 54 | 5/2/2019 |

NO CERTIFICATE OF TITLE HAS ISSUED FOR THE CURRENT EDITION OF THIS FOLIO.
CONTROL OF THE RIGHT TO DEAL IS HELD BY NATIONAL AUSTRALIA BANK LIMITED.

LAND

LOT 1 IN DEPOSITED PLAN 771927
AT PENRITH
LOCAL GOVERNMENT AREA PENRITH
PARISH OF CASTLEREAGH COUNTY OF CUMBERLAND
TITLE DIAGRAM DP771927

FIRST SCHEDULE

AUSTRALIAN FOUNDATION FOR DISABILITY (T AE76146)

SECOND SCHEDULE (12 NOTIFICATIONS)

1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
2 EASEMENT(S) AFFECTING THE PART(S) SHOWN SO BURDENED IN THE TITLE DIAGRAM CREATED BY:
DP771927 -EASEMENT TO DRAIN WATER 3 WIDE
DP771927 -EASEMENT TO DRAIN WATER VARIABLE WIDTH
DP771927 -EASEMENT FOR UNDERGROUND MAINS 1 WIDE AND VARIABLE
3 AH196897 LEASE TO IPN MEDICAL CENTRES PTY LIMITED OF SUITE 4A, HENRY LAWSON CENTRE, 61-79 HENRY STREET, PENRITH. EXPIRES: 30/4/2020. OPTION OF RENEWAL: 2 PERIODS OF 5 YEARS EACH.
4 AH574888 LEASE TO THE GOOD GUYS DISCOUNT WAREHOUSES (AUSTRALIA) PTY LIMITED BEING SHOWROOMS 2A, 2B AND 3A, HENRY LAWSON CENTRE, 61-79 HENRY STREET, PENRITH. EXPIRES: 30/6/2017. OPTION OF RENEWAL: 2 X FIVE (5) YEARS.
5 AI77463 LEASE TO REBEL SPORT LIMITED OF UNIT 1, HENRY LAWSON CENTRE, 61-79 HENRY STREET, PENRITH. EXPIRES: 31/8/2020. OPTION OF RENEWAL: 5 YEARS WITH A FURTHER OPTION OF 5 YEARS. (SEE AP3715)
AP3716 VARIATION OF LEASE AI77463 OPTION OF RENEWAL: IS PRESERVED.
6 AI183244 LEASE TO WENTWORTH HEALTHCARE LIMITED OF SUITE 5A, HENRY LAWSON CENTRE, 61-79 HENRY STREET, PENRITH. EXPIRES: 30/9/2016. OPTION OF RENEWAL: 3 YEARS.
7 AK649674 LEASE TO NEW APOTHECARY PTY LTD OF SHOP 5A, HENRY

END OF PAGE 1 - CONTINUED OVER

SECOND SCHEDULE (12 NOTIFICATIONS) (CONTINUED)
---

| | | |
|---|---|---|
| | | LAWSON CENTRE, 61-79 HENRY STREET, PENRITH. EXPIRES: 31/8/2020. OPTION OF RENEWAL: 5 YEARS WITH ONE FURTHER OPTION OF 5 YEARS. |
| 8 | AK922978 | LEASE TO ENDEAVOUR ENERGY OF SUBSTATION NO. 18042 SHOWN IN DP644540. EXPIRES: 31/10/2041. |
| 9 | AM391454 | MORTGAGE TO NATIONAL AUSTRALIA BANK LIMITED |
| 10 | AM898867 | LEASE TO KOORONG BOOKS PTY LIMITED OF SHOP 3B, HENRY LAWSON CENTRE, 61-79 HENRY STREET, PENRITH. EXPIRES: 30/6/2022. |
| 11 | AN845181 | LEASE TO LAMROCKS LEGAL PTY LTD OF SUITE 4B, LEVEL 1, 61-79 HENRY STREET, PENRITH. EXPIRES: 30/4/2021. OPTION OF RENEWAL: 3 YEARS. |
| 12 | AP39226 | LEASE TO STORMER MUSIC PTY LTD OF SHOP 5B, 61-79 HENRY STREET, PENRITH. EXPIRES: 23/9/2021. OPTION OF RENEWAL: 3 YEARS. |

NOTATIONS
---

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***



Obtained from NSW LRS on 21 October 2019 10:33 AM AEST © Office of the Registrar-General 2019
* Any entries preceded by an asterisk do not appear on the current edition of the Certificate of Title. Warning: the information appearing under notations has not been formally recorded in the Register. GlobalX hereby certifies that the information contained in this document has been provided electronically by the Registrar General in accordance with Section 96B(2) of the Real Property Act 1900. Note: Information contained in this document is provided by GlobalX Pty Ltd, ABN 35 099 032 596, www.globalx.com.au an approved NSW Information Broker.

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE
21/10/2019 12:03PM

FOLIO: 1/771927

First Title(s): OLD SYSTEM
Prior Title(s): PA60381 PA60382
PA60383 PA60384
PA60385 PA60386
PA60387 PA60388
PA60389 PA60390

| Recorded | Number | Type of Instrument | C.T. Issue |
|---|---|---|---|
| 5/7/1988 | PA60390 | PRIMARY APPLICATION | FOLIO CREATED EDITION 1 |

PRIOR TITLES(S) AS AMENDED:
VOL 336 FOL 144, VOL 2509 FOL 28,
VOL 4095 FOL 57, VOL 4095 FOL 80,
VOL 10463 FOL 53, VOL 10554 FOLS 205-206,
VOL 13208 FOL 137, PA60381, PA60382,
PA60383, PA60384, PA60385, PA60386,
PA60387, PA60388, PA60389, PA60390.

| | | | |
|---|---|---|---|
| 25/10/1988 | X947551 | DEPARTMENTAL DEALING | |
| 14/11/1988 | X881310 | LEASE | |
| 14/11/1988 | X881311 | LEASE | |
| 14/11/1988 | X881312 | LEASE | |
| 14/11/1988 | X881313 | LEASE | |
| 14/11/1988 | X881314 | LEASE | EDITION 2 |
| 14/6/1989 | X881315 | LEASE | |
| 14/6/1989 | X881316 | TRANSFER | EDITION 3 |
| 21/8/1989 | Y545868 | LEASE | EDITION 4 |
| 29/8/1989 | | AMENDMENT: CT DELIVEREE | |
| 16/11/1989 | Y558165 | SUB-LEASE | EDITION 5 |
| 6/12/1989 | Y689779 | SUB-LEASE | |
| 5/2/1990 | Y746659 | LEASE | |
| 5/2/1990 | Y746660 | LEASE | EDITION 6 |
| 9/2/1990 | | AMENDMENT: CT DELIVEREE | |
| 28/2/1990 | Y850279 | LEASE | EDITION 7 |

END OF PAGE 1 - CONTINUED OVER

SEARCH DATE
21/10/2019 12:03PM

FOLIO: 1/771927 PAGE 2

| Recorded | Number | Type of Instrument | C.T. Issue |
|---|---|---|---|
| 18/7/1990 | Z79481 | TRANSFER OF LEASE | |
| 18/7/1990 | Z79482 | TRANSFER OF LEASE | |
| 24/8/1990 | Z180105 | SUB-LEASE | |
| 14/3/1991 | Z541194 | SUB-LEASE | |
| 14/3/1991 | Z547070 | CAVEAT | |
| 21/5/1991 | DP644540 | DEPOSITED PLAN | |
| 21/5/1991 | Z556638 | SUB-LEASE | EDITION 8 |
| 8/1/1992 | E31964 | LEASE | EDITION 9 |
| 17/2/1992 | E243357 | LEASE | EDITION 10 |
| 28/7/1992 | E255434 | REQUEST | |
| 28/7/1992 | E637267 | DEPARTMENTAL DEALING | |
| 28/7/1992 | E255435 | LEASE | EDITION 11 |
| 31/8/1992 | E724499 | TRANSFER OF LEASE | |
| 31/8/1992 | E724500 | TRANSFER OF LEASE | |
| 8/9/1992 | E735360 | SURRENDER OF LEASE | |
| 8/9/1992 | E735361 | LEASE | |
| 8/9/1992 | E735362 | SURRENDER OF LEASE | |
| 8/9/1992 | E735363 | LEASE | EDITION 12 |
| 11/11/1992 | E879400 | SUB-LEASE | |
| 30/11/1992 | E937688 | TRANSFER | EDITION 13 |
| 19/7/1993 | I407559 | SUB-LEASE | |
| 19/7/1993 | I430647 | TRANSFER OF LEASE | |
| 1/9/1993 | I614940 | DEPARTMENTAL DEALING | |
| 16/9/1993 | I575214 | LEASE | |
| 16/9/1993 | I575215 | LEASE | EDITION 14 |
| 20/9/1993 | I535316 | CAVEAT | |
| 30/11/1993 | I836187 | LEASE | EDITION 15 |

END OF PAGE 2 - CONTINUED OVER

| Recorded | Number | Type of Instrument | C.T. Issue |
|---|---|---|---|
| 2/9/1994 | U580132 | WITHDRAWAL OF CAVEAT | |
| 2/9/1994 | U580133 | TRANSFER OF LEASE | |
| 2/9/1994 | U580134 | VARIATION OF LEASE | |
| 2/9/1994 | U580135 | REQUEST | |
| 2/9/1994 | U580136 | LEASE | EDITION 16 |
| 5/9/1994 | U580137 | TRANSFER | EDITION 17 |
| 5/12/1994 | U834227 | TRANSFER OF LEASE | |
| 18/10/1995 | O390259 | SUB-LEASE | |
| 2/11/1995 | O657651 | LEASE | EDITION 18 |
| 15/2/1996 | O661773 | REQUEST | |
| 15/2/1996 | O661774 | SUB-LEASE | |
| 16/2/1996 | O921356 | LEASE | EDITION 19 |
| 18/3/1997 | 2913665 | DEPARTMENTAL DEALING | |
| 18/3/1997 | 2862558 | TRANSFER OF LEASE | |
| 18/3/1997 | 2862559 | TRANSFER OF LEASE | |
| 18/3/1997 | 2884001 | LEASE | EDITION 20 |
| 1/7/1997 | 3193371 | LEASE | EDITION 21 |
| 21/11/1997 | 3315623 | SUB-LEASE | |
| 7/1/1998 | 3714708 | SURRENDER OF LEASE | |
| 7/1/1998 | 3714709 | LEASE | EDITION 22 |
| 5/11/1998 | 5377688 | LEASE | EDITION 23 |
| 30/3/1999 | 5716541 | LEASE | EDITION 24 |
| 13/10/1999 | 6262636 | LEASE | EDITION 25 |
| 4/11/1999 | 6318244 | MORTGAGE OF LEASE | |
| 8/11/1999 | 6325141 | LEASE | EDITION 26 |
| 20/12/1999 | 6437848 | LEASE | |
| 20/12/1999 | 6438631 | SUB-LEASE | EDITION 27 |

END OF PAGE 3 - CONTINUED OVER

| Recorded | Number | Type of Instrument | C.T. Issue |
|---|---|---|---|
| 22/6/2001 | 7612249 | APPLICATION | |
| 22/6/2001 | 7612257 | CHANGE OF NAME | EDITION 28 |
| 4/7/2001 | 7740849 | LEASE | EDITION 29 |
| 11/9/2001 | 7931523 | SURRENDER OF LEASE | |
| 11/9/2001 | 7931524 | LEASE | |
| 11/9/2001 | 7931525 | LEASE | |
| 11/9/2001 | 7931526 | LEASE | |
| 11/9/2001 | 7931527 | LEASE | EDITION 30 |
| 28/11/2002 | 9168497 | SUB-LEASE | |
| 28/11/2002 | 9168617 | SUB-LEASE | |
| 12/12/2002 | 9168790 | LEASE | |
| 12/12/2002 | 9195626 | SUB-LEASE | |
| 31/12/2002 | 9252586 | DEPARTMENTAL DEALING | |
| 5/2/2003 | 9168791 | LEASE | |
| 5/2/2003 | 9280164 | LEASE | EDITION 31 |
| 23/5/2003 | 9562484 | LEASE | |
| 23/5/2003 | 9562485 | LEASE | EDITION 32 |
| 14/7/2003 | 9785688 | TRANSFER OF LEASE | |
| 26/11/2003 | AA195247 | VARIATION OF LEASE | |
| 26/11/2003 | AA195248 | VARIATION OF LEASE | |
| 26/11/2003 | AA195249 | LEASE | EDITION 33 |
| 9/12/2003 | AA236052 | VARIATION OF LEASE | |
| 9/2/2004 | AA396863 | LEASE | |
| 9/2/2004 | AA396864 | VARIATION OF LEASE | EDITION 34 |
| 10/3/2004 | AA483480 | LEASE | EDITION 35 |
| 20/4/2004 | AA571037 | CHANGE OF NAME | EDITION 36 |
| 26/8/2004 | AA903590 | TRANSFER OF LEASE | |
| 3/12/2004 | AB131551 | MORTGAGE OF LEASE | |

END OF PAGE 4 - CONTINUED OVER

| Recorded | Number | Type of Instrument | C.T. Issue |
|---|---|---|---|
| 11/10/2005 | AB828715 | LEASE | EDITION 37 |
| 13/3/2006 | AC170863 | VARIATION OF LEASE | |
| 13/3/2006 | AC170864 | LEASE | EDITION 38 |
| 7/8/2006 | AC512045 | LEASE | EDITION 39 |
| 14/9/2007 | AD414273 | VARIATION OF LEASE | EDITION 40 |
| 30/1/2008 | AD715705 | CHANGE OF NAME | |
| 26/2/2008 | AD561133 | REJECTED - LEASE | |
| 22/9/2008 | AE76143 | LEASE | |
| 22/9/2008 | AE76144 | LEASE | |
| 22/9/2008 | AE76145 | LEASE | |
| 22/9/2008 | AE76146 | TRANSFER | |
| 22/9/2008 | AE76147 | MORTGAGE | EDITION 41 |
| 19/11/2008 | AE312537 | LEASE | |
| 19/11/2008 | AE312538 | LEASE | EDITION 42 |
| 7/3/2011 | AG103362 | TRANSFER OF LEASE | |
| 7/3/2011 | AG103363 | VARIATION OF LEASE | |
| 7/3/2011 | AG103368 | REQUEST | |
| 7/3/2011 | AG103369 | LEASE | |
| 7/3/2011 | AG103373 | LEASE | EDITION 43 |
| 11/7/2012 | AH103202 | VARIATION OF LEASE | |
| 27/8/2012 | AH196897 | LEASE | EDITION 44 |
| 2/4/2013 | AH574888 | LEASE | EDITION 45 |
| 3/6/2013 | AH773562 | SURRENDER OF LEASE | |
| 3/6/2013 | AH773563 | LEASE | EDITION 46 |
| 29/7/2013 | AH908087 | LEASE | EDITION 47 |
| 10/4/2014 | AI77481 | LEASE | |
| 10/4/2014 | AI77463 | LEASE | |
| 10/4/2014 | AI183244 | LEASE | |
| 10/4/2014 | AI362314 | LEASE | EDITION 48 |

END OF PAGE 5 - CONTINUED OVER

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE
21/10/2019 12:03PM

FOLIO: 1/771927 PAGE 6

| Recorded | Number | Type of Instrument | C.T. Issue |
|---|---|---|---|
| 5/8/2016 | AK649674 | LEASE | EDITION 49 |
| 27/7/2017 | AK922978 | LEASE | |
| 27/7/2017 | AM391453 | DISCHARGE OF MORTGAGE | |
| 27/7/2017 | AM391454 | MORTGAGE | EDITION 50 |
| 20/11/2017 | AM898867 | LEASE | EDITION 51<br>CORD ISSUED |
| 9/11/2018 | AN845181 | LEASE | EDITION 52<br>CORD ISSUED |
| 18/1/2019 | AP3715 | TRANSFER OF LEASE | |
| 18/1/2019 | AP3716 | VARIATION OF LEASE | EDITION 53<br>CORD ISSUED |
| 5/2/2019 | AP39226 | LEASE | EDITION 54<br>CORD ISSUED |

*** END OF SEARCH ***

advlgeo PRINTED ON 21/10/2019

Obtained from NSW LRS on 21 October 2019 11:03 AM AEST

© Office of the Registrar-General 2019

Req:R182208 /Doc:DL AE076146 /Rev:23-Sep-2008 /NSW LRS /Pgs:ALL /Prt:31-Oct-2019 09:13 /Seq:1 of 1
© Office of the Registrar-General /Src:GLOBALX /Ref:advlgeo

Form: 01T
Licence: 05-11-638
Licensee: Softdocs
Reimer Winter Williamson

# TRANSFER

**New South Wales**
**Real Property Act 1900**

AE76146Q

**PRIVACY NOTE: Section 31B of the Real Property Act 1900 (RP Act) authorises the R by this form for the establishment and maintenance of the Real Property Act Register. Section 31B of the Act requires that the Register is made available to any person for search upon payment of a fee, if any.**

| | | |
|---|---|---|
| **STAMP DUTY** | Office of State Revenue use only | Office of State Revenue NSW Treasury 30/5/08 Client No: 1411509 1272 Duty: $2 - Trans No: S0008716 Asct details: |
| (A) **FOLIO OF THE REGISTER** | 1/771927 | |
| (B) **LODGED BY** | Document Collection Box: 24J | Name, Address or DX, Telephone, and LLPN if any: LLPN:123836E CTB. Reference (optional): 057532-TE93 |
| **CODE** | T TW (Sheriff) | |
| (C) **TRANSFEROR** | AMP CAPITAL INVESTORS LIMITED (ACN 001 777 591) | |
| (D) **CONSIDERATION** | The transferor acknowledges receipt of the consideration of $ 16,495,000.00 and as regards the folio | |
| (E) **ESTATE** | of the Register specified above transfers to the transferee an estate in fee simple. | |
| (F) **SHARE TRANSFERRED** | | |
| (G) | Encumbrances (if applicable): | |
| (H) **TRANSFEREE** | AUSTRALIAN FOUNDATION FOR DISABILITY (ABN 99 000 223 729) | |
| (I) | **TENANCY:** | |
| **DATE** | 30 / 05 / 08 | |

(J) I certify that the person(s) signing opposite, with whom I am personally acquainted or as to whose identity I am otherwise satisfied, signed this instrument in my presence.

Signature of witness: X

Name of witness: X John Paul Anthony
Address of witness: X Lvl 15, 50 Bridge St Sydney 2000

Certified correct for the purposes of the Real Property Act 1900 by the person(s) named below who signed this instrument pursuant to the power of attorney specified.

Signature of attorney: P STEVEN

Attorney's name: ~~Stephen~~ Reeve Gosper and Dale Phillips
Signing on behalf of: AMP CAPITAL INVESTORS LIMITED
Power of attorney Book: 4515 No: 20

Certified correct for the purposes of the Real Property Act 1900 by the person whose signature appears below.

Signature:

Signatory's name: RONALD WINTER
Signatory's capacity: Solicitor for the transferee

60

Req:R183408 /Doc:DL AA571037 /Rev:21-Apr-2004 /NSW LRS /Pgs:ALL /Prt:31-Oct-2019 10:40 /Seq:1 of 3
© Office of the Registrar-General /Src:GLOBALX /Ref:advlgeo

Form: 10CN
Release: 1.1
www.lpi.nsw.com.au

Pg2

# CHANGE OF NA

**New South Wales**
**Real Property Act 1900**

AA571037K

**PRIVACY NOTE:** this information is legally required and wil[illegible] part of the public record

(A) **LAND**

Torrens Title
Vol 8625 Fol 42; 1/771927; 1/539673

(B) **REGISTERED DEALING**

| Number | Torrens Title |
|---|---|
| | |

(C) **LODGED BY**

| Delivery Box | Name, Address or DX and Telephone | CODE |
|---|---|---|
| 698B | DIBBS BARKER GOSLING<br>8/123 PITT STREET<br>8233 9500<br>DX 101, BOX 698b<br>Reference: 3176098.mdn.sm | CN |

(D) **REGISTERED PROPRIETOR**

AMP HENDERSON GLOBAL INVESTRS LIMITED ACN 001 777 591

(E) **NEW NAME**

AMP CAPITAL INVESTORS LIMITED ACN 001 777 591

OVER

(F) I, the registered proprietor referred to above, apply to have my new name recorded in the Register in respect of the above land

(G) **STATUTORY DECLARATION BY THE APPLICANT**

I DAVID ELWYN RICHARDSON of Level 22, 33 Alfred Street, Sydney

solemnly and sincerely declare that—

1. I am an authorised signatory of the registered proprietor.
2. On 12/12/03 the registered proprietor changed names as shown on the certified copy of the certificate of registration of change of name as annexed and marked "A".

I make this solemn declaration conscientiously believing the same to be true and by virtue of the provisions of the Oaths Act 1900.

and I certify this application to be correct for the purposes of the Real Property Act 1900.

Made and subscribed at Sydney in the State of New South Wales

on 14 APRIL 2004 in the presence of—

Signature of witness: [signature] Signature of applicant: [signature]

Name of witness: VICTORIA SWEETMAN

Address of witness: level 21, AMP Building, 33 Alfred St, Sydey, NSW, 2000

Qualification of witness: PRACTISING SOLICITOR (NSW)

CST 698B.

All handwriting must be in block capitals.

Req:R183408 /Doc:DL AA571037 /Rev:21-Apr-2004 /NSW LRS /Pgs:ALL /Prt:31-Oct-2019 10:40 /Seq:2 of 3
© Office of the Registrar-General /Src:GLOBALX /Ref:advlgeo

I certify that this is a true & correct copy of the original document

Victoria Sweetman
Solicitor, NSW & QLD
Date: 14 APRIL 2004

AMP SERVICES LIMITED
ATTN: DAVID RICHARDSON
GPO BOX 4134
SYDNEY NSW 2001

Remove this top section if desired before framing

# Certificate of Registration on Change of Name

This is to certify that

**AMP HENDERSON GLOBAL INVESTORS LIMITED**

**Australian Company Number 001 777 591**

did on the twelfth day of December 2003 change its name to

**AMP CAPITAL INVESTORS LIMITED**

**Australian Company Number 001 777 591**

The company is a public company.

The company is limited by shares.

The company is taken to be registered under the Corporations Act 2001 in New South Wales and the date of commencement of registration is the twenty-second day of August, 1979.

Issued by the
Australian Securities and Investments Commission
on this twelfth day of December, 2003.

David Knott
Chairman

CERTIFICATE

Req:R183408 /Doc:DL AA571037 /Rev:21-Apr-2004 /NSW LRS /Pgs:ALL /Prt:31-Oct-2019 10:40 /Seq:3 of 3
© Office of the Registrar-General /Src:GLOBALX /Ref:advlgeo

DIRECTION ANNEXURE

Use this side only for Second Schedule directions

DO NOT USE BOTH SIDES OF THE FORM

AA571037

## FIRST SCHEDULE DIRECTIONS

| FOLIO IDENTIFIER | DIRECTION | DETAILS |
|---|---|---|
| 8625-42 | ON | AMP CAPITAL INVESTORS LIMITED BY CHANGE OF NAME AA571037. |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

## SECOND SCHEDULE AND OTHER DIRECTIONS

| FOLIO IDENTIFIER | DIRECTION | NOTFN TYPE | DEALING NUMBER | DETAILS |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |

Req:R183753 /Doc:DL 7612257 /Rev:26-Jun-2001 /NSW LRS /Pgs:ALL /Prt:31-Oct-2019 11:08 /Seq:1 of 4
© Office of the Registrar-General /Src:GLOBALX /Ref:advlgeo

Form: 10CN
Licence: 98M111
Edition: 0008

# CHANGE OF NAME

New South Wales
Real Property Act 1900

7612257V

PRIVACY NOTE: this information is legally required and will bec

(A) **LAND**

Torrens Title: *Folio Identifiers 5/236488; 6/236488; B/415100; 1/771927; 11/567397; 1/917989 and 1/633257.*

(B) **REGISTERED DEALING**

| Number | Torrens Title |
|---|---|
| | |

(C) **LODGED BY**

| Delivery Box | Name, Address or DX and Telephone | CODE |
|---|---|---|
| *41J* | *Mallesons Stephen Jaques*<br>*DX 113 SYDNEY*<br>*Tel: (02) 9296 2000*<br>Reference (optional): *AAV: 02-5032-8406* | CN |

(D) **REGISTERED PROPRIETOR**

Whose name is to be changed; show the name as it currently appears on the Torrens Title

*AMP ASSET MANAGEMENT AUSTRALIA LIMITED (ABN 59 001 777 591)*

(E) **NEW NAME**

Of the above registered proprietor in full

*AMP HENDERSON GLOBAL INVESTORS LIMITED (ABN 59 001 777 591)*

(F) I, the registered proprietor referred to above, apply to have my new name recorded in the Register in respect of the above land/ registered dealing.

(G) **STATUTORY DECLARATION BY THE APPLICANT**

I ~~[new name]~~ ..... solemnly and sincerely declare that—

1 ~~I am identical with the registered proprietor referred to above~~; *See annexure 'A' for statutory declaration.*

~~2. on~~ ..... at .....

~~in the State of~~ ..... ~~I married~~ ..... ;

3. .....

.....

I make this solemn declaration conscientiously believing the same to be true and by virtue of the Oaths Act 1900, and I certify this application to be correct for the purposes of the Real Property Act 1900.

~~Made and subscribed at~~ ..... ~~in the state of~~ .....

~~on~~ ..... ~~in the presence of~~

~~Signature of witness~~:

~~Name of witness~~:

~~Address of witness~~:

~~Qualification of witness~~:

~~Signature of applicant~~:

All handwriting must be in block capitals.



A set of notes on this form (10CN-2) is available from Land and Property Information NSW.

Req:R183753 /Doc:DL 7612257 /Rev:26-Jun-2001 /NSW LRS /Pgs:ALL /Prt:31-Oct-2019 11:08 /Seq:2 of 4
© Office of the Registrar-General /Src:GLOBALX /Ref:advlgeo

## Annexure A - Statutory Declaration

Req:R183753 /Doc:DL 7612257 /Rev:26-Jun-2001 /NSW LRS /Pgs:ALL /Prt:31-Oct-2019 11:08 /Seq:3 of 4
© Office of the Registrar-General /Src:GLOBALX /Ref:advlgeo



# STATUTORY DECLARATION

I, **Alexander Burton CARRODUS,** of Level 22, Sydney Cove Building, 33 Alfred Street, Sydney in the State of New South Wales, do solemnly and sincerely declare as follows:

1. I am the Secretary of AMP Henderson Global Investors Limited (ABN 59 001 777 591), ("the Company").

2. The Company, by valid resolution of its members, has changed its name from AMP Asset Management Australia Limited, effective from 6 October 2000.

3. The attached copy of the Certificate of Registration on Change of Name, issued by the Australian Securities and Investments Commission and dated 6 October 2000, marked for identification purposes as Annexure "A" and comprising a single page, is a true copy of the original certificate, retained by the Company.

Subscribed and declared at **SYDNEY** )
)
dated 16 OCT 2000 )
)
before me )
)
)

.....
A Justice of the Peace in New South Wales

.....

Req:R183753 /Doc:DL 7612257 /Rev:26-Jun-2001 /NSW LRS /Pgs:ALL /Prt:31-Oct-2019 11:08 /Seq:4 of 4
© Office of the Registrar-General /Src:GLOBALX /Ref:advlgeo

# Certificate of Registration on Change of Name

This is to certify that

**AMP ASSET MANAGEMENT AUSTRALIA LIMITED**

**Australian Company Number 001 777 591**

did on the sixth day of October 2000 change its name to

**AMP HENDERSON GLOBAL INVESTORS LIMITED**

**Australian Company Number 001 777 591**

The company is a public company.

The company is limited by shares.

The company is taken to be registered as a company under the Corporations Law of New South Wales.

Issued by the
Australian Securities and Investments Commission
on this sixth day of October, 2000.

Alan Cameron
Chairman

CERTIFICATE

**Annexure "A"**

This is the Annexure marked "A " referred to in the Statutory Declaration of Alexander Burton CARRODUS made at SYDNEY and dated 16 OCT 2000

.....
A Justice of the Peace in New South Wales

Req:R313625 /Doc:DL 7612249 /Rev:26-Jun-2001 /NSW LRS /Pgs:ALL /Prt:27-Nov-2019 08:41 /Seq:1 of 3
© Office of the Registrar-General /Src:GLOBALX /Ref:advlgeo

Form: 04RP
Licence: 00-06-006
Licensee: Mallesons Stephen Jaques

# APPLICATION TO RECORD NEW REGISTERED PROPRIET

New South Wales
Section 46C Real Property Act 1900
Section 12(4) Trustee Act 1925

7612249U

STAMP DUTY
RELODG
15 JUN 2001
TIME: 12:25

Office of State Revenue use only

(A) LAND

Torrens Title
Folio Identifier 1/771927

(B) REGISTERED DEALING

| Number | Torrens Title |
|---|---|
| | |

(C) LODGED BY

| LTO Box | Name, Address or DX and Telephone | CODE |
|---|---|---|
| 41J | Mallesons Stephen Jaques<br>DX 113 Sydney<br>(02) 9296 2000<br>REFERENCE (15 character maximum): RMG/AAV:761861 | AP |

(D) APPLICANT

**AMP ASSET MANAGEMENT AUSTRALIA LIMITED** ACN 001 777 591

(E) PRESENT REG'D PROPRIETOR

**PERPETUAL TRUSTEE COMPANY LIMITED** ACN 000 001 007

(F) NEW REG'D PROPRIETOR

**AMP ASSET MANAGEMENT AUSTRALIA LIMITED** ACN 001 777 591

(G) **APPLICATION UNDER SECTION 46C REAL PROPERTY ACT 1900**

In regard to the land/registered dealing specified above, the applicant requests the Registrar General to record the new registered proprietor on the folio of the Register, the land/registered dealing having vested in the new registered proprietor pursuant to-

(H) Sections 601EB, 601FS and 1462 of the Corporations Law and by Virtue of the registration of the New Registered Proprietor as repsonsible entity of the GIO Property Wholesale Trust ARSN 093 326 179.

~~(G) APPLICATION UNDER SECTION 12(4) TRUSTEE ACT 1925~~

~~In regard to the land/registered dealing specified above, the applicant requests the Registrar General to record the new registered proprietor on the folio of the Register consequent on-~~

(I)

(J) We certify this dealing correct for the purposes of the Real Property Act 1900. **DATE:**

~~Signed in my presence by the applicant who is personally known to me.~~

**SEE ANNEXURE 'A' FOR EXECUTION**

~~Signature of witness:~~ ~~Signature of applicant:~~

~~Name of witness:~~

~~Address of witness:~~

All handwriting must be in block capitals

Req:R313625 /Doc:DL 7612249 /Rev:26-Jun-2001 /NSW LRS /Pgs:ALL /Prt:27-Nov-2019 08:41 /Seq:2 of 3
© Office of the Registrar-General /Src:GLOBALX /Ref:advlgeo

# EXECUTION

**SIGNED** by )
as attorney for **AMPAM** under power of )
attorney registered book 4267 no. 437 )
in the presence of: )
)
..... )
Signature of witness )
)
DANIEL FOCHESATO )
Name of witness (block letters) )
)
Level 19, 33 Alfred Street )
Address of witness )
)
Sydney )
Occupation of witness )

AMP ASSET MANAGEMENT AUSTRALIA LIMITED
A.C.N. 001 777 591

by its undersigned Attorneys (who have not received notice of the revocation of the Power of Attorney dated the 21st day of March 2000 under the authority of which this instrument has been signed in Syd this 19th day of Sep 2000

P. Smith
.....
Colin Payne
.....
witnesses

By executing this agreement the attorney states that the attorney has received no notice of revocation of the power of attorney

Req:R313625 /Doc:DL 7612249 /Rev:26-Jun-2001 /NSW LRS /Pgs:ALL /Prt:27-Nov-2019 08:41 /Seq:3 of 3
© Office of the Registrar-General /Src:GLOBALX /Ref:advlgeo

Office of State Revenue
NSW Treasury

**Mallesons Stephen Jaques**
**DX 113**
**Sydney**

FILM WITH
7612249

**7th November 2000**

**RE: APPLICATION TO RECORD NEW REGISTERED PROPRIETOR**
**AMP ASSET MANAGEMENT AUSTRALIA LIMITED A C N 001 777 591**
**LAND: 1/771927**

I refer to your letter dated 13th October 2000 the contents of which have been noted.

From 1 July 1998 the Duties Act 1997 replaced the Stamp Duties Act 1920 and the Taxation Administration Act 1996 applies to the Duties Act 1997.

All documents, which are executed on or after 1/7/98, are assessed under the Duties Act 1997.

In terms of the above the document lodged for assessment and based on the information you have provided is not liable to duty and does not require stamping or marking by the Office of State Revenue

The transaction does not constitute a transfer for the purposes of the Duties Act.

This opinion can only be used for the above document containing the same terms and conditions and no other as that which has been provided for perusal on which this opinion is based.

If you wish to discuss this matter further please do not hesitate to contact the above-mentioned officer.

F Fa
For R G Smith
Commissioner of State Revenue

**Contact: F Fazzino**
**Phone: 9689-6162**
**Our Ref: application /F0065/vol1/fol 128**
**Your ref: Andrew Henville/Andrew Vickery**

Lang Centre,
Cnr Hunter and Marsden Street,
Parramatta
Locked Bag 5215, Parramatta 2124
DX 28400 Parramatta
Phone (02) 9689 6200
Facsimile (02) 9689 6464

Req:R182986 /Doc:DL U580137 /Rev:22-Mar-2010 /NSW LRS /Pgs:ALL /Prt:31-Oct-2019 10:09 /Seq:1 of 2
© Office of the Registrar-General /Src:GLOBALX /Ref:advlgeo

97-01T

# TRANSFER

Real Property Act, 1900

U 580137 E

Office of State Revenue use only

$2.00

010794 2422 04 20081403 3/02

(A) **LAND TRANSFERRED**

Show no more than 20 References to Title.
If appropriate, specify the share transferred.

1/771927

(B) **LODGED BY**

| L.T.O. Box | Name, Address or DX and Telephone |
|---|---|
| 937K | BROPHY BRIDGE & MIROW<br>DX 1181 Sydney<br>Ph: 221-3977<br>REFERENCE (max. 15 characters): JKB 6530 |

(C) **TRANSFEROR** GIO LIFE LIMITED ACN 008 630 546 of Level 1, 2 Martin Place, Sydney

(D) acknowledges receipt of the consideration of $12,000,000

and as regards the land specified above transfers to the Transferee an estate in fee simple

(E) subject to the following **ENCUMBRANCES** 1. SEE ANNEXURE "X" 2. LP 3.

& Lease U580136

(F) **TRANSFEREE**

T

PERPETUAL TRUSTEE COMPANY LIMITED ACN 000 001 007
of 39 Hunter Street, Sydney

(G) ~~TENANCY:~~

(H) We certify this dealing correct for the purposes of the Real Property Act, 1900. **DATED** 30/6/94

Signed in my presence by the Transferor who is personally known to me.

Signature of Witness

W. J. MIROW

Name of Witness (BLOCK LETTERS)

1160 PHILLIP ST SYDNEY SOLICITOR.

Address of Witness

**SIGNED, SEALED and DELIVERED by GEOFFREY CUNNINGHAM, GENERAL MANAGER PROPERTY INVESTMENTS as attorney for GIO LIFE LIMITED under power of attorney Registered Book 3888 No. 190 dated 29th June 1992.**

Signature of Transferor

Signed in my presence by the Transferee who is personally known to

Signature of Witness

Name of Witness (BLOCK LETTERS)

Address of Witness

Signature of Transferee Solicitor
J.K. BROPHY.

**INSTRUCTIONS FOR FILLING OUT THIS FORM ARE AVAILABLE FROM THE LAND TITLES OFFICE**

CHECKED BY (office use only) Reg20

OFF: L:2 $41194

Req:R182986 /Doc:DL U580137 /Rev:22-Mar-2010 /NSW LRS /Pgs:ALL /Prt:31-Oct-2019 10:09 /Seq:2 of 2
© Office of the Registrar-General /Src:GLOBALX /Ref:advlgeo

**THIS IS THE ANNEXURE MARKED "X" REFERRED TO IN THE TRANSFER DATED 30TH JUNE 1994 MADE BETWEEN GIO LIFE LIMITED AND PERPETUAL TRUSTEE COMPANY LIMITED.**

**Leases:-**

X881312
X881313
X881315
Y746660
Y850279
E31964
E243357
Z180105
Z556638
E255435
E735361
E735363
I575214
I575215
I836187

Z180105
Z556638

[29-7/1]

Z 180105
Z 556638

Req:R182962 /Doc:DL E937688 /Rev:17-May-2010 /NSW LRS /Pgs:ALL /Prt:31-Oct-2019 10:08 /Seq:1 of 3
© Office of the Registrar-General /Src:GLOBALX /Ref:advlgeo

RP13

# TRANSFER

Real Property Act, 1900

E 937688 D

Office of State Revenue use only

OFFICE OF STATE REVENUE (N.S.W. TREASURY) 1992/93 P27 NO STAMP DUTY IS PAYABLE ON THIS INSTRUMENT

B

(A) **LAND TRANSFERRED**

Show no more than 20 References to Title.
If appropriate, specify the share transferred.

FOLIO IDENTIFIER 1/771927

(B) **LODGED BY**

| L.T.O. Box | Name, Address or DX and Telephone |
|---|---|
| 937K | BROPHY BRIDGE & MIROW<br>DX 1181, SYDNEY<br>REFERENCE (max. 15 characters): JKB:5953 |

(C) **TRANSFEROR** AB KS GIO AUSTRALIA HOLDINGS LIMITED (formerly Government Insurance Office of NSW)
ACN 054 573 401 of Level 1, 2 Martin Place, Sydney

(D) acknowledges receipt of the consideration of $11,203,984.00

and as regards the land specified above transfers to the transferee an estate in fee simple

(E) subject to the following **ENCUMBRANCES** 1. X881312 2. X881313 3. X881315
SEE ANNEXURE "A"

(F) **TRANSFEREE**

T

GIO LIFE LTD ACN 008 630 546

of Level 1, 2 Martin Place, Sydney

(G) as joint tenants/tenants in common

(H) We certify this dealing correct for the purposes of the Real Property Act, 1900. **DATE** 29.10.92

Signed in my presence by the transferor who is personally known to me.

Signature of Witness

ANNE BANKS
Name of Witness (BLOCK LETTERS)

225 George Street, Sydney
Address of Witness

~~Signed in my presence for and on behalf of GIO Australia Holdings Limited ACN 054 573 401 by its attorney who is personally known to me and who declares that he has been duly appointed by the Board of Directors of that company as an attorney of the company for the purposes of the Power of Attorney dated the day of 1992 Registration No and that he has no notice of the revocation of his powers thereunder~~

ATTORNEY SIGNED PURSUANT TO A DELEGATION OF THE MANAGING DIRECTOR OF THE GOVERNMENT INSURANCE OFFICE OF N.S.W. UNDER SECTION 38B OF THE GOVERNMENT INSURANCE ACT 1927.

Signature of Transferor

Signed in my presence by the transferee who is personally known to me.

Signature of Witness

MICHAEL ROBERT AITKEN
Name of Witness (BLOCK LETTERS)

225 George Street, Sydney
Address of Witness

~~Signed in my presence for and on behalf of GIO Life Ltd ACN 008 630 546 by its attorney who is personally known to me and who declares that he has been duly appointed by the Board of Directors of that company as an attorney of the company for the purposes of the Power of Attorney dated the day of 1992 Registration No and that he has no notice of the revocation of his powers thereunder~~

M. Stanhope
ATTORNEY

SIGNED ON BEHALF OF GIO LIFE LIMITED by PURSUANT TO A POWER OF ATTORNEY DATED 29th JUNE 1992

Signature of Transferee

Book 3886
Registered No 190

☞ **INSTRUCTIONS FOR FILLING OUT THIS FORM ARE AVAILABLE FROM THE LAND TITLES OFFICE**

CHECKED BY (office use only)

Req:R182962 /Doc:DL E937688 /Rev:17-May-2010 /NSW LRS /Pgs:ALL /Prt:31-Oct-2019 10:08 /Seq:2 of 3
© Office of the Registrar-General /Src:GLOBALX /Ref:advlgeo

B

THIS IS THE ANNEXURE MARKED "A" FORMING PART OF THE TRANSFER BETWEEN **GIO AUSTRALIA HOLDINGS LIMITED** AS TRANSFEROR AND **GIO LIFE LTD** AS TRANSFEREE AND DATED THE 29TH DAY OF OCTOBER 1992

**Continuation of Encumbrances**

| | | |
|---|---|---|
| Y746659 | ✓ | Y558165 |
| Y746660 | ✓ | Z180105 |
| Y850279 | ✓ | Z541194 |
| | | Z556638 |
| E31964 | ✓ | E255435 |
| E243357 | ✓ | E735361 |
| | | E735303 |
| ~~X881310~~ | | |
| ~~X881311~~ | | |
| ~~X881314~~ | | |
| Y545868 | ✓ | |

[23-10/1]

Req:R182962 /Doc:DL E937688 /Rev:17-May-2010 /NSW LRS /Pgs:ALL /Prt:31-Oct-2019 10:08 /Seq:3 of 3
© Office of the Registrar-General /Src:GLOBALX /Ref:advlgeo

B

OFFICE OF STATE REVENUE
(N.S.W. TREASURY)
1992/93 P27
NO STAMP DUTY IS PAYABLE
ON THIS INSTRUMENT

# GOVERNMENT INSURANCE OFFICE (PRIVATISATION) ACT 1991

## MINISTERIAL ORDER

I, JOHN JOSEPH FAHEY, Treasurer of New South Wales, PURSUANT to the Section of the Government Insurance Office (Privatisation) Act 1991 ("the Act") referred to in Item 1 of each Schedule to this Order **ORDER** that part or parts of the business undertaking of the transferor corporation specified in Item 2 of each Schedule ("Transferor") be transferred to the transferee corporation specified in Item 3 of each Schedule ("Transferee"), being the part or parts of the business undertaking which are described in Item 4 of each Schedule and which comprise the assets, rights and liabilities described in Item 5 of each Schedule ("Assets, Rights and Liabilities to be Transferred") and that the consideration for the transfer shall be the amount shown in Item 6 of each Schedule.

The transfers of assets, rights and liabilities to which this Order relates shall take effect on 30 June 1992:

(a) at 8.00 pm Australian Eastern Standard Time in the case of a transfer made pursuant to section 20 of the Act; and

(b) otherwise at 8.30 pm Australian Eastern Standard Time.

Dated at Sydney this 30th day of June, 1992

Treasurer

29 June 1992
1126411

Req:R182285 /Doc:DL X881316 /Rev:19-Aug-2010 /NSW LRS /Pgs:ALL /Prt:31-Oct-2019 09:18 /Seq:1 of 1
© Office of the Registrar-General /Src:GLOBALX /Ref:advlgeo

(20)

[redacted]

RELODGED
24NOV1988
290

X881316

RP 13 STAMP DUTY

$1-00

DUTY

1/743518

1/743517

# TRANSFER

REAL PROPERTY ACT, 1900

T 37 of 37 $42 R2/2

IDENTIFIER 1/771927

NOW BEING 1/743517

| | Torrens Title Reference | Part Only. Delete Whole and Give Details | Location |
|---|---|---|---|
| DESCRIPTION OF LAND Note (a) | Folio Identifier 1/~~743518~~ T43568, 1/~~743517~~ T43517 4/192127, 2/703081, 1/744045, 2/744045 Vol 10554 Fols 205 & 206 Vol 15493 Fol 220, Vol 15495 Fol 188 Vol 15501 Fol 62, Vol 15493 Fol 242 Vol 10463 Fol 53, Vol 336 Fol 144, Vol 15408 Fol 6, Vol 13208 Fol 117, Vol 4095 Fol 57, Vol 4095 Fol 80, Vol 2500 Fol 20 ~~No. 408 Book 3715~~ Vol 15516 Fol 76 | WHOLE (X) | British Castlereagh County Cumberland |

TRANSFEROR Note (b)

HOOKER CORPORATION LIMITED

ESTATE Note (c)

(the abovenamed TRANSFEROR) hereby acknowledges receipt of the consideration of $11,657,295.00 and transfers an estate in fee simple in the land above described to the TRANSFEREE

TRANSFEREE Note (d)

GOVERNMENT INSURANCE OFFICE OF NEW SOUTH WALES of 111 Elizabeth Street, Sydney

OFFICE USE ONLY S

TENANCY Note (e)

as joint tenants/tenants in common

PRIOR ENCUMBRANCES Note (f)

Subject to the following PRIOR ENCUMBRANCES : LEASES NO.'S X881310, X881311, X881312, X881313, X881314 and X881315

DATE 30th November 1987

We hereby certify this dealing to be correct for the purposes of the Real Property Act, 1900

EXECUTION Note (g)

Signed in my presence by the transferor who is personally known to me

Signature of Witness

Name of Witness (BLOCK LETTERS)

Address and occupation of Witness

The Common Seal of Hooker Corporation Limited was hereto affixed by the authority of the Directors

Director

Secretary

Signature of Transferor

Signed in my presence by the transferee who is personally known to me

Note (g)

Signature of Witness

Name of Witness (BLOCK LETTERS)

Address and occupation of Witness

C.W.J. MIROW

Solicitor for Transferee

TO BE COMPLETED BY LODGING PARTY Notes (h) and (i)

LODGED BY Murphy Brudge & Murray

Delivery Box Number 937K

| LOCATION OF DOCUMENTS | CT | OTHER |
|---|---|---|
| Herewith. | | |
| In L.T.O. with | | |
| Produced by | | |

OFFICE USE ONLY

| Checked | Passed | REGISTERED 18 NOV 1988 |
|---|---|---|
| Signed | Extra Fee | |

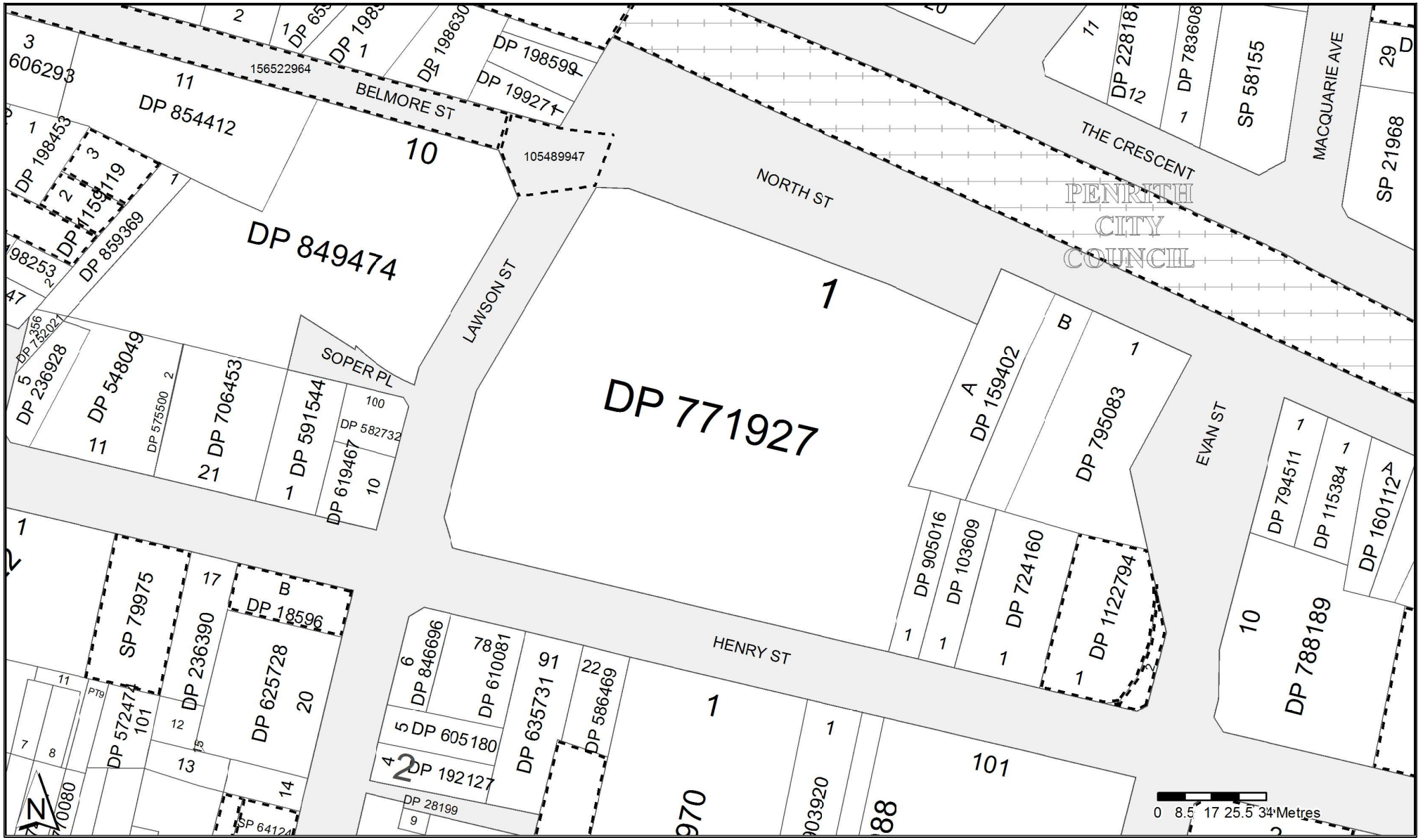
| | | |
|---|---|---|
| Secondary Directions | | |
| Delivery Directions | C.T. | 937K |

1781-592 (84)

# Cadastral Records Enquiry Report : Lot 1 DP 771927

**Ref :** NOUSER

**Locality :** PENRITH
**LGA :** PENRITH
**Parish :** CASTLEREAGH
**County :** CUMBERLAND




Report Generated 10:22:15 AM, 22 October, 2019
Copyright © Crown in right of New South Wales, 2017

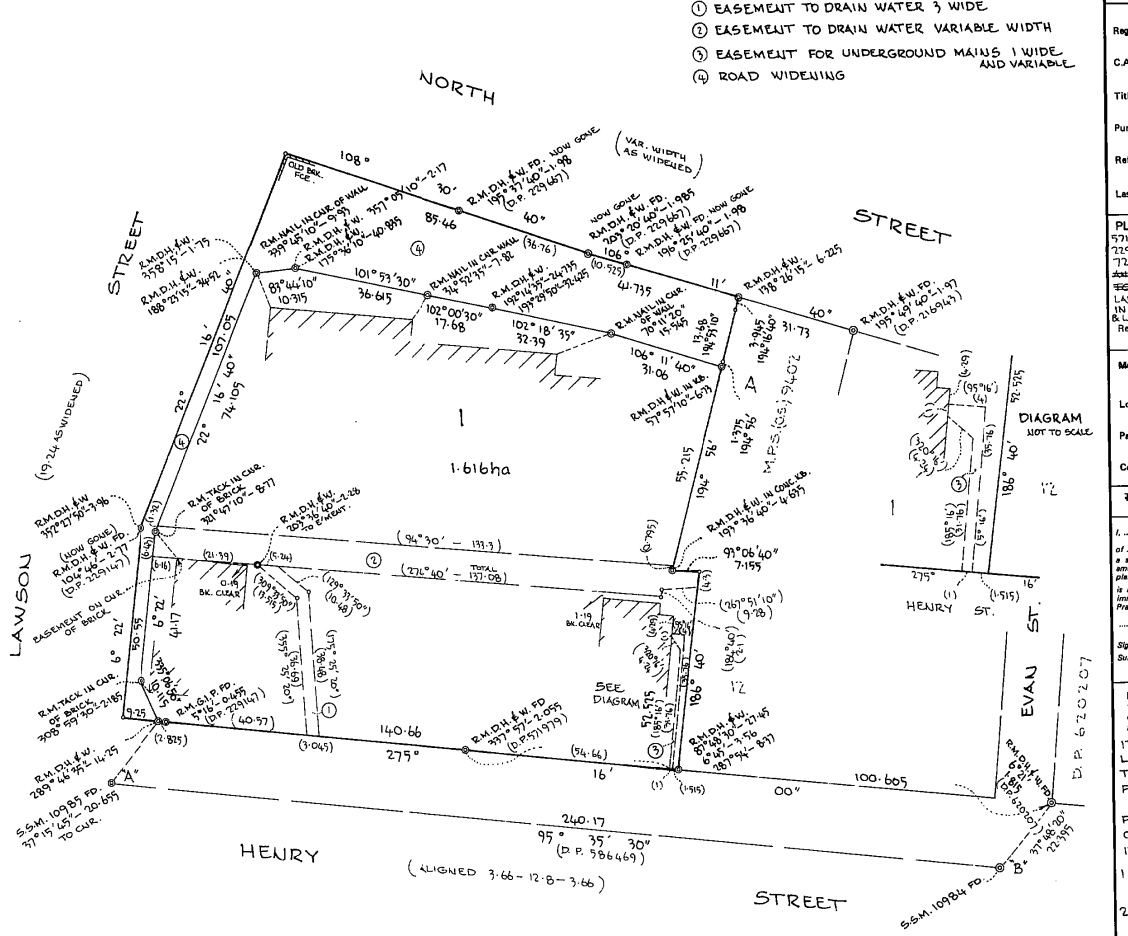
**This information is provided as a searching aid only.Whilst every endeavour is made to ensure that current map, plan and titling information is accurately reflected, the Registrar General cannot guarantee the information provided. For ALL ACTIVITY PRIOR TO SEPTEMBER 2002 you must refer to the RGs Charting and Reference Maps**

Req:R147788 /Doc:DP 0771927 P /Rev:26-Oct-1992 /NSW LRS /Pgs:ALL /Prt:24-Oct-2019 11:29 /Seq:1 of 1
© Office of the Registrar-General /Src:GLOBALX /Ref:advlgeo

PLAN FORM 2 — Plan Drawing only to appear in this space — *OFFICE USE ONLY

Signatures and seals only.

① EASEMENT TO DRAIN WATER 3 WIDE
② EASEMENT TO DRAIN WATER VARIABLE WIDTH
③ EASEMENT FOR UNDERGROUND MAINS 1 WIDE AND VARIABLE
④ ROAD WIDENING




DP 771927

Registered: 29.6.1988

C.A.: S.5785 OF 27.10.1987

Title System: TORRENS & OLD SYSTEM

Purpose: P.A.S 60381 TO 60390 INCL. & CONSOLIDATION

Ref. Map: U6460-62, 64, 623

Last Plan: D.P.192127 D.P.229147 D.P.229667 D.P.319180 D.P.571979 D.P.705081 D.P.723361 D.P.743517 D.P.743518 D.P.744045

PLAN OF LOT 1 DP.229147, LOT 1 D.P. 571979, LOT B D.P.319180, LOTS 1 & 2 D.P. 229667, LOT 2 D.P.705081, LOT 1 D.P. 723361, LOTS 1 TO 6 INCL. ~~LOTS 1 TO 3 INCL.~~ SEC. B D.P. 192127, LOTS 4 & 5 ~~TO 7 INCL.~~ SEC. 5 D.P. 192127 ~~AND~~ THE LAND IN C.T. VOL. 4095 FOL. 57 LOT 1 IN D.P.743517, LOT 1 IN D.P. 743518 & LOTS 1 & 2 IN D.P. 744045.

Reduction Ratio 1: 800

Lengths are in metres.

Mun./Shire City: PENRITH

Locality: PENRITH

Parish: CASTLEREAGH

County: CUMBERLAND

~~This is sheet 1 of my plan/s~~ ~~sheets~~
(Delete if inapplicable).

I, PETER FREEBURN

of 2 CASTLEREAGH ST, PENRITH

a surveyor registered under the Surveyors Act, 1929, as amended, hereby certify that the survey represented in this plan

is accurate and has been made *~~(1) by me~~ (2) under my immediate supervision in accordance with the Survey Practice Regulations, 1933, and was completed on †

19TH AUGUST 1987

Signature

Surveyor registered under Surveyors Act, 1929, as amended.
Datum Line of Azimuth: A — B
*Strike out either (1) or (2). †Insert date of survey.

Panel for use only for statements of intention to dedicate public roads or to create public reserves, drainage reserves, easements or restrictions as to user.

IT IS INTENDED TO DEDICATE THE LAND SHOWN AS ROAD WIDENING TO THE PUBLIC FOR ROAD PURPOSES.

PURSUANT TO SEC. 88B OF THE CONVEYANCING ACT 1919-1964 IT IS INTENDED TO CREATE:

1. EASEMENT TO DRAIN WATER 3 WIDE
2. EASEMENT TO DRAIN WATER VARIABLE WIDTH
3. EASEMENT FOR UNDERGROUND MAINS 1 WIDE AND VARIABLE

Council Clerk's Certificate 76/87

I hereby certify that —

(a) the requirements of the Local Government Act, 1919 (other than the requirements for the registration of plans), and

*(b) ~~the requirements of section 24B of the †Metropolitan Water, Sewerage and Drainage Act, 1924, as amended, †Hunter District Water, Sewerage, and Drainage Act, 1938, as amended~~

have been complied with by the applicant in relation to the proposed consolidated lot (Insert "new road", "subdivision" or "consolidated lot") set out herein

Subdivision No. S. 5785

Date 29-10-87

(Signature) Council Clerk

*This part of certificate to be deleted where the application is only for a consolidated lot or the opening of a new road or where the land to be subdivided is wholly outside the areas of operations of the Metropolitan Water Sewerage and Drainage Board and the Hunter District Water Board.
†Delete if inapplicable.

Table of mm: 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 370 380 390

WARNING: CREASING OR FOLDING WILL LEAD TO REJECTION

SURVEYOR'S REFERENCE 11010 - H

This negative is a photograph made as a permanent record of a document in the custody of the Registrar General this day. 4th July, 1988

Table of mm: 10 20 30 40 50 60 70 110 120 130 140

PLAN FORM 2

Plan Drawing only to appear in this space

*OFFICE USE ONLY

SIGNATURE AND SEALS ONLY.

DP 644540

Registered: 10 14·5·1991

C.A:

Title System: TORRENS

Purpose: LEASE

Ref. Map: UG4 60-64

Last Plan: DP 771927

PLAN OF SUBSTATION PREMISES Nº 18042 WITHIN LOT 1 DP 771927

Lengths are in metres. Reduction Ratio 1: 800

Mun./Shire City: PENRITH

Locality: PENRITH

Parish: CASTLEREAGH

County: CUMBERLAND

This is sheet 1 of my plan in sheets. (Delete if inapplicable)

I, HUGH CAMPBELL McCUBBEN

of 7 BEVANS ROAD GALSTON. 2159

a surveyor registered under the Surveyors Act, 1929, as amended, hereby certify that the survey represented in this plan is accurate and has been made in accordance with the Survey Practice Regulations, 1933 and any special requirements of the Department of Lands, and was completed on

25TH DAY OF JANUARY, 1991

Signature: H Cam McCubben

Surveyor registered under Surveyors Act, 1929, as amended

Datum Line of Azimuth 'A' – 'B'

Insert date of survey

Plans used in preparation of survey/compilation.

D.P. 771927

PANEL FOR USE ONLY for statements of intention to dedicate public roads or to create public reserves, drainage reserves, easements or restrictions as to user.

PLAN AMENDED IN L.T.O. AT SURVEYORS REQUEST 10 14·5·1991

(X) SUBSTATION PREMISES Nº 18042

(Y) PROPOSED EASEMENT FOR UNDERGROUND MAINS 1 WIDE AND VARIABLE VIDE DP 771927

DIAGRAM NOT TO SCALE

D. P. 7 7 1 9 2 7

LAWSON STREET

HENRY STREET

EVAN STREET

SEE DIAGRAM 1

D.P. 622207

SSM 10985 FD 'A'

SSM 10984 FD 'B'

SSM 5792? PLACED

(ALIGNED 3GG – 12B – 3GG)

PLAN IS NOT AVAILABLE FOR TITLE ISSUE

Crown Lands Office Approval

PLAN APPROVED ..... Authorised Officer

Land District .....

Paper No. .....

Field Book ..... pages .....

Council Clerk's Certificate

I hereby certify that —

(a) the requirements of the Local Government Act, 1919 [other than the requirements for the registration of plans], and

*(b) the requirements of section 345 of the † Metropolitan Water, Sewerage and Drainage Act, 1924, as amended, † Hunter District Water, Sewerage, and Drainage Act, 1938, as amended

have been complied with by the applicant in relation to the proposed ..... [insert "new road", "subdivision" or "consolidated lot"] set out herein

Subdivision No. .....

Date .....

(Signature) ..... Council Clerk

Council File No. .....

*This part of certificate to be deleted where the application is only for a consolidation/or the opening of a new road or where the land to be subdivided is wholly outside the areas of operations of the Metropolitan Water Sewerage and Drainage Board and the Hunter District Water Board.

† Delete if inapplicable.

87/205 FILE Nº 148/PC/10

SURVEYOR'S REFERENCE: RP3529

mpd

WARNING: CREASING OR FOLDING WILL LEAD TO REJECTION

This negative is a photograph made as a permanent record of a document in the custody of the Registrar General this day. 16th May, 1991

Req:R286277 /Doc:DP 0644540 P /Rev:06-Jan-1993 /NSW LRS /Pgs:ALL /Prt:21-Nov-2019 08:16 /Seq:1 of 1
© Office of the Registrar-General /Src:GLOBALX /Ref:advlgeo

**APPENDIX C**

---

**SECTION 10.7 PLANNING CERTIFICATE**

PENRITH CITY COUNCIL

Civic Centre
601 High Street, Penrith

PO Box 60 Penrith NSW 2751

Telephone: 02 4732 7777
Facsimile: 02 4732 7958

Email: pencit@penrithcity.nsw.gov.au

# PLANNING CERTIFICATE UNDER SECTION 10.7

**Environmental Planning and Assessment Act, 1979**

Property No: 320389
Your Reference: 14561/1
Contact No:

Issue Date: 21 October 2019
Certificate No: 19/04384

Issued to: Geotechnique Pty Ltd
PO Box 880
PENRITH NSW 2750

PRECINCT 2010

## DESCRIPTION OF LAND

**County: CUMBERLAND** **Parish: CASTLEREAGH**

**Location:** 61-79 Henry Street PENRITH NSW 2750
**Land Description:** Lot 1 DP 771927

## - PART 1 PRESCRIBED MATTERS –

In accordance with the provisions of Section 10.7(2) of the Act the following information is furnished in respect of the abovementioned land:

### 1 *NAMES OF RELEVANT PLANNING INSTRUMENTS AND DCPs*

***1(1) The name of each environmental planning instrument that applies to the carrying out of development on the land:***

Penrith Local Environmental Plan 2010, published 22nd September 2010, as amended, applies to the land.

Sydney Regional Environmental Plan No.9 - Extractive Industry (No.2), gazetted 15 September 1995, as amended, applies to the local government area of Penrith.

Sydney Regional Environmental Plan No. 20 - Hawkesbury-Nepean River (No. 2 - 1997), gazetted 7 November 1997, as amended, applies to the local government area of Penrith (except land to which State Environmental Planning Policy (Penrith Lakes Scheme) 1989 applies).

The following State environmental planning policies apply to the land (subject to the exclusions noted below):

State Environmental Planning Policy No.1 - Development Standards. (Note: This policy does not apply to the land to which Penrith Local Environmental Plan 2010 or State Environmental Planning Policy (Western Sydney Employment Area) 2009 apply.)
State Environmental Planning Policy No.19 - Bushland in Urban Areas. (Note: This policy does not apply to certain land referred to in the National Parks and Wildlife Act 1974 and the Forestry Act 1916.)
State Environmental Planning Policy No.21 - Caravan Parks.
State Environmental Planning Policy No.33 - Hazardous and Offensive Development.

PENRITH CITY COUNCIL

Civic Centre
601 High Street, Penrith

PO Box 60 Penrith NSW 2751

Telephone: 02 4732 7777
Facsimile: 02 4732 7958

Email: pencit@penrithcity.nsw.gov.au



State Environmental Planning Policy No.50 - Canal Estate Development. (Note: This policy does not apply to the land to which State Environmental Planning Policy (Penrith Lakes Scheme) 1989 applies.
State Environmental Planning Policy No.55 - Remediation of Land.
State Environmental Planning Policy No.64 - Advertising and Signage.
State Environmental Planning Policy No.65 - Design Quality of Residential Apartment Development.
State Environmental Planning Policy No.70 - Affordable Housing (Revised Schemes).
State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 (Note: This policy applies to land within New South Wales that is land zoned primarily for urban purposes or land that adjoins land zoned primarily for urban purposes, but only as detailed in clause 4 of the policy.)
State Environmental Planning Policy (Building Sustainability Index: BASIX) 2004.
State Environmental Planning Policy (State Significant Precincts) 2005.
State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2013.
State Environmental Planning Policy (Miscellaneous Consent Provisions) 2007.
State Environmental Planning Policy (Infrastructure) 2007.
State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.
State Environmental Planning Policy (Affordable Rental Housing) 2009.
State Environmental Planning Policy (State and Regional Development) 2011.
State Environmental Planning Policy (Vegetation in Non-Rural Areas) 2017.
State Environmental Planning Policy (Education Establishments and Child Care Centre Facilities) 2017.
State Environmental Planning Policy (Primary Production and Rural Development) 2019.

***1(2) The name of each proposed environmental planning instrument that will apply to the carrying out of development on the land and that is or has been the subject of community consultation or on public exhibition under the Act:***

An Annual Update Amendment Planning Proposal applies to this land.

The Planning Proposal seeks to resolve several policy changes, contemporise certain elements and undertake "housekeeping" changes which are minor in nature. (See www.penrithcity.nsw.gov.au for details).

Draft State Environmental Planning Policy (Western Sydney Corridors) may apply to the land. Further information is available here: https://www.transport.nsw.gov.au/corridors.

On 22 June 2018, the NSW Government announced changes to the recommended alignments for the Western Sydney corridors, including continuing with the previously gazetted 1951 corridor for the Bells Line of Road Castlereagh Connection.

Draft State Environmental Planning Policy (Primary Production & Rural Development) applies to the land.

Draft State Environmental Planning Policy (Environment) applies to the land.

Draft State Environmental Planning Policy (Remediation of Land) applies to the land.

Draft Standard Instrument (Local Environmental Plans) Order 2006 applies to the land.

PENRITH CITY COUNCIL

Civic Centre
601 High Street, Penrith

PO Box 60 Penrith NSW 2751

Telephone: 02 4732 7777
Facsimile: 02 4732 7958

Email: pencit@penrithcity.nsw.gov.au



Draft State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 applies to the land.

***1(3) The name of each development control plan that applies to the carrying out of development on the land:***

Penrith Development Control Plan 2014 applies to the land.

## 2 *ZONING AND LAND USE UNDER RELEVANT LEPs*

***For each environmental planning instrument or proposed instrument referred to in clause 1 (other than a SEPP or proposed SEPP) that includes the land in any zone (however described):***

***2(a)-(d) the identity of the zone; the purposes that may be carried out without development consent; the purposes that may not be carried out except with development consent; and the purposes that are prohibited within the zone. Any zone(s) applying to the land is/are listed below and/or in annexures.***

***(Note: If no zoning appears in this section see section 1(1) for zoning and land use details (under the Sydney Regional Environmental Plan or State Environmental Planning Policy that zones this property).)***

**Zone B3 Commercial Core**
**(Penrith Local Environmental Plan 2010)**

**1 Objectives of zone**
• To provide a wide range of retail, business, office, entertainment, community and other suitable land uses that serve the needs of the local and wider community.
• To encourage appropriate employment opportunities in accessible locations.
• To maximise public transport patronage and encourage walking and cycling.
• To strengthen the role of Penrith City Centre as the business, retail and cultural centre for the region.

**2 Permitted without consent**
Nil

**3 Permitted with consent**
Amusement centres; Car parks; Centre-based child care facilities; Commercial premises; Community facilities; Educational establishments; Entertainment facilities; Environmental facilities; Environmental protection works; Flood mitigation works; Function centres; Helipads; Hotel or motel accommodation; Information and education facilities; Medical centres; Mortuaries; Oyster aquaculture; Passenger transport facilities; Places of public worship; Recreation areas; Recreation facilities (indoor); Registered clubs; Respite day care centres; Restricted premises; Roads; Sex services premises; Signage; Tank-based aquaculture; Tourist and visitor accommodation; Veterinary hospitals

**4 Prohibited**
Bed and breakfast accommodation; Farm stay accommodation; Pond-based aquaculture; Any other development not specified in item 2 or 3

PENRITH CITY COUNCIL

Civic Centre
601 High Street, Penrith

PO Box 60 Penrith NSW 2751

Telephone: 02 4732 7777
Facsimile: 02 4732 7958

Email: pencit@penrithcity.nsw.gov.au

# PLANNING CERTIFICATE UNDER SECTION 10.7

**Environmental Planning and Assessment Act, 1979**

## Flood planning

All or part of the subject land is identified in Penrith Local Environmental Plan 2010 (PLEP 2010) Clause 7.2 Flood Planning. Development consent is required for any development on land to which Clause 7.2 of PLEP 2010 applies.

## Additional information relating to Penrith Local Environmental Plan 2010

**Note 1**: Under the terms of Clause 2.4 of Penrith Local Environmental Plan 2010 development may be carried out on unzoned land only with development consent.

**Note 2**: Under the terms of Clause 2.6 of Penrith Local Environmental Plan 2010 land may be subdivided but only with development consent, except for the exclusions detailed in the clause.

**Note 3**: Under the terms of Clause 2.7 of Penrith Local Environmental Plan 2010 the demolition of a building or work may be carried out only with development consent.

**Note 4**: A temporary use may be permitted with development consent subject to the requirements of Clause 2.8 of Penrith Local Environmental Plan 2010.

**Note 5**: Under the terms of Clause 4.1A of Penrith Local Environmental Plan 2010, despite any other provision of this plan, development consent must not be granted for dual occupancy on an internal lot in Zone R2 Low Density Residential.

**Note 6**: Under the terms of Clause 5.1 of Penrith Local Environmental Plan 2010 development on land acquired by an authority of the State under the owner-initiated acquisition provisions may, before it is used for the purpose for which it is reserved, be carried out, with development consent, for any purpose.

**Note 7**: Under the terms of Clause 5.3 of Penrith Local Environmental Plan 2010 development consent may be granted to development of certain land for any purpose that may be carried out in an adjoining zone.

**Note 8**: Clause 5.10 of Penrith Local Environmental Plan 2010 details when development consent is required/not required in relation to heritage conservation.

**Note 9:** Under the terms of Clause 5.11 of Penrith Local Environmental Plan 2010 bush fire hazard reduction work authorised by the *Rural Fires Act 1997* may be carried out on any land without development consent.

**Note 10**: Under the terms of Clause 7.1 of Penrith Local Environmental Plan 2010 (PLEP 2010) development consent is required for earthworks unless the work is exempt development under PLEP 2010 or another applicable environmental planning instrument, or the work is ancillary to other development for which development consent has been given.

**Note 11**: Sex services premises and restricted premises may only be permitted subject to the requirements of Clause 7.23 of Penrith Local Environmental Plan 2010.

PENRITH CITY COUNCIL

Civic Centre
601 High Street, Penrith

PO Box 60 Penrith NSW 2751

Telephone: 02 4732 7777
Facsimile: 02 4732 7958

Email: pencit@penrithcity.nsw.gov.au



***2(e) whether any development standards applying to the land fix minimum land dimensions for the erection of a dwelling-house on the land and, if so, the minimum land dimensions so fixed:***

(Information is provided in this section only if any development standards applying to the land fix minimum land dimensions for the erection of a dwelling-house on the land and, if so, the minimum land dimensions so fixed.)

***2(f) whether the land includes or comprises critical habitat:***

(Information is provided in this section only if the land includes or comprises critical habitat.)

***2(g) whether the land is in a conservation area (however described):***

(Information is provided in this section only if the land is in a conservation area (however described).)

***2(h) whether an item of environmental heritage (however described) is situated on the land:***

(Information is provided in this section only if an item of environmental heritage (however described) is situated on the land.)

***2A ZONING AND LAND USE UNDER STATE ENVIRONMENTAL PLANNING POLICY (SYDNEY REGION GROWTH CENTRES) 2006***

(Information is provided in this section only if the land is within any zone under State Environmental Planning Policy (Sydney Region Growth Centres) 2006.)

***3 COMPLYING DEVELOPMENT***

***HOUSING CODE***

(The Housing Code only applies if the land is within Zones R1, R2, R3, R4 or RU5 under Penrith Local Environmental Plan 2010 or an equivalent zone in a non standard template planning instrument.)

Complying development under the Housing Code **may** be carried out on the land if the land is within one of the abovementioned zones.

***RURAL HOUSING CODE***

(The Rural Housing Code only applies if the land is within Zones RU1, RU2, RU3, RU4, RU6 or R5 under Penrith Local Environmental Plan 2010 or an equivalent zone in a non standard template planning instrument.)

Complying development under the Rural Housing Code **may** be carried out on the land if the land is within one of the abovementioned zones.

PENRITH CITY COUNCIL

Civic Centre
601 High Street, Penrith

PO Box 60 Penrith NSW 2751

Telephone: 02 4732 7777
Facsimile: 02 4732 7958

Email: pencit@penrithcity.nsw.gov.au



***LOW RISE MEDIUM DENSITY HOUSING CODE***

(The Low Rise Medium Density Housing Code only applies if the land is within Zones R1, R2, R3 or RU5 under Penrith Local Environmental Plan 2010 or an equivalent zone in a non standard template planning instrument.)

Complying development under the Low Rise Medium Density Housing Code **may** be carried out on the land if the land is within one of the abovementioned zones.

Please note that Council has been deferred from the application of Part 3B of the Low Rise Medium Density Housing Code until 1 July 2020. That Part will not apply to Penrith Local Government Area during this time.

***GREENFIELD HOUSING CODE***

(The Greenfield Housing Code only applies if the land is within Zones R1, R2, R3, R4 or RU5 under Penrith Local Environmental Plan 2010 or an equivalent zone in a non standard template planning instrument, and if the land is identified as a Greenfield Housing Code Area by the Greenfield Housing Code Area Map.)

Complying development under the Greenfield Housing Code **may** be carried out on the land if the land is within one of the abovementioned zones, and if the land is identified as a Greenfield Housing Code Area by the Greenfield Housing Code Area Map.

***HOUSING ALTERATIONS CODE***

Complying development under the Housing Alterations Code **may** be carried out on the land.

***GENERAL DEVELOPMENT CODE***

Complying development under the General Development Code **may** be carried out on the land.

***COMMERCIAL AND INDUSTRIAL ALTERATIONS CODE***

Complying development under the Commercial and Industrial Alterations Code **may** be carried out on the land.

***SUBDIVISIONS CODE***

Complying development under the Subdivisions Code **may** be carried out on the land.

***DEMOLITION CODE***

Complying development under the Demolition Code **may** be carried out on the land.

PENRITH CITY COUNCIL

Civic Centre
601 High Street, Penrith

PO Box 60 Penrith NSW 2751

Telephone: 02 4732 7777
Facsimile: 02 4732 7958

Email: pencit@penrithcity.nsw.gov.au

# PLANNING CERTIFICATE UNDER SECTION 10.7

**Environmental Planning and Assessment Act, 1979**

## *COMMERCIAL AND INDUSTRIAL (NEW BUILDINGS AND ADDITIONS) CODE*

(The Commercial and Industrial (New Buildings and Additions) Code only applies if the land is within Zones B1, B2, B3, B4, B5, B6, B7, B8, IN1, IN2, IN3, IN4 or SP3 under Penrith Local Environmental Plan 2010 or an equivalent zone in a non standard template planning instrument.)

Complying development under the Commercial and Industrial (New Buildings and Alterations) Code **may** be carried out on the land if the land is within one of the abovementioned zones.

## *FIRE SAFETY CODE*

Complying development under the Fire Safety Code **may** be carried out on the land.

(NOTE: (1) Council has relied on Planning and Infrastructure Circulars and Fact Sheets in the preparation of this information. Applicants should seek their own legal advice in relation to this matter with particular reference to State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.
(2) Penrith Local Environmental Plan 2010 (if it applies to the land) contains additional complying development not specified in State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.)

## *4 COASTAL PROTECTION*

The land is not affected by the operation of sections 38 or 39 of the Coastal Protection Act 1979, to the extent that council has been so notified by the Department of Public Works.

## *5 MINE SUBSIDENCE*

The land is not proclaimed to be a mine subsidence district within the meaning of section 15 of the Mine Subsidence Compensation Act 1961.

## *6 ROAD WIDENING AND ROAD REALIGNMENT*

The land is not affected by any road widening or road realignment under:
(a) Division 2 of Part 3 of the Roads Act 1993, or
(b) an environmental planning instrument, or
(c) a resolution of council.

## *7 COUNCIL AND OTHER PUBLIC AUTHORITY POLICIES ON HAZARD RISK RESTRICTIONS*

**(a) Council Policies**
The land is affected by the Asbestos Policy adopted by Council.
The land is not affected by any other policy adopted by the council that restricts the development of the land because of the likelihood of land slip, bushfire, tidal inundation, subsidence, acid sulphate soils or any other risk (other than flooding).

**(b) Other Public Authority Policies**
The Bush Fire Co-ordinating Committee has adopted a Bush Fire Risk Management Plan that covers the local government area of Penrith City Council, and includes public, private and Commonwealth lands.

The land is not affected by a policy adopted by any other public authority and notified to the council for the express purpose of its adoption by that authority being referred to in planning certificates issued by the council, that restricts the development of the land because of the likelihood of land slip, tidal inundation, subsidence, acid sulphate soils or any other risk (other than flooding).

### *7A FLOOD RELATED DEVELOPMENT CONTROLS INFORMATION*

(1) Development on the land or part of the land for the purposes of dwelling houses, dual occupancies, multi dwelling housing or residential flat buildings (not including development for the purposes of group homes or seniors housing) (if such uses are permissible on the land) is subject to flood related development controls.

(2) Development on the land or part of the land for industrial or commercial purposes (if such uses are permissible on the land) is subject to flood related development controls.
Development on the land or part of the land for purposes other than industrial or commercial, or for purposes other than those referred to in (1) above, will be considered on a merits based approach and flood related development controls may apply.

Note: The land is subject to Penrith Development Control Plan 2014 Section C3.5 Flood Planning. On application and payment of the prescribed fee Council may be able to provide in writing a range of advice in regard to the extent of flooding affecting the property.

### *8 LAND RESERVED FOR ACQUISITION*

No environmental planning instrument or proposed environmental planning instrument referred to in clause 1 makes provision in relation to the acquisition of the land by a public authority, as referred to in section 3.15 of the Act.

### *9 CONTRIBUTIONS PLANS*

The Cultural Facilities Development Contributions Plan applies anywhere residential development is permitted within the City of Penrith.

The Penrith City Local Open Space Development Contributions Plan applies anywhere residential development is permitted within the City of Penrith, excluding industrial areas and the release areas identified in Appendix B of the Plan (Penrith Lakes, Cranebrook, Sydney Regional Environmental Plan No. 30 - St Marys, Waterside, Thornton, the WELL Precinct, Glenmore Park and Erskine Park).

The Penrith City District Open Space Facilities Development Contributions Plan applies anywhere residential development is permitted within the City of Penrith, with the exclusion of industrial lands and the Penrith Lakes development site.

The Penrith City Centre Civic Improvement Plan applies to the land.

### *9A BIODIVERSITY CERTIFIED LAND*

(Information is provided in this section only if the land is biodiversity certified land under Part 8 of the *Biodiversity Conservation Act 2016*. (Note. biodiversity certified land includes land certified under

Part 7AA of the *Threatened Species Conservation Act 1995* that is taken to be certified under Part 8 of the *Biodiversity Conservation Act 2016*.))

### *10 BIODIVERSITY STEWARDSHIP SITES*

(Information is provided in this section only if Council has been notified by the Chief Executive of the Office of Environment and Heritage that the land is land to which a biobanking stewardship agreement under Part 5 of the *Biodiversity Conservation Act 2016* relates. Note. Biodiversity stewardship agreements include biobanking agreements under Part 7A of the *Threatened Species Conservation Act 1995* that are taken to be biodiversity stewardships agreements under Part 5 of the *Biodiversity Conservation Act 2016*)

### *10A NATIVE VEGETATION CLEARING SET ASIDES*

(Information is provided in this section only if Council has been notified of the existence of a set aside area by Local Land Services or it is registered in the public register under which section 60ZC of the *Local Land Services Act 2013* relates).

### *11 BUSH FIRE PRONE LAND*

The land is not identified as bush fire prone land according to Council records.

### *12 PROPERTY VEGETATION PLANS*

(Information is provided in this section only if Council has been notified that the land is land to which a property vegetation plan approved under the *Native Vegetation Act 2003* applies and continues in force.)

### *13 ORDERS UNDER TREES (DISPUTES BETWEEN NEIGHBOURS) ACT 2006*

(Information is provided in this section only if Council has been notified that an order has been made under the Trees (Disputes Between Neighbours) Act 2006 to carry out work in relation to a tree on the land.)

### *14 DIRECTIONS UNDER PART 3A*

(Information is provided in this section only if there is a direction by the Minister in force under section 75P(2)(c1) of the Act (repealed on 1st October 2011) that a provision of an environmental planning instrument prohibiting or restricting the carrying out of a project or a stage of a project on the land under Part 4 of the Act does not have effect.)

### *15 SITE COMPATIBILITY CERTIFICATES AND CONDITIONS AFFECTING SENIORS HOUSING*

(Information is provided in this section only if:

(a) there is a current site compatibility certificate (seniors housing), of which the council is aware, issued under State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 in respect of proposed development on the land; and/or

(b) any terms of a kind referred to in clause 18(2) of State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 have been imposed as a condition of consent to a development application granted after 11 October 2007 in respect of the land.)

### *16 SITE COMPATIBILITY CERTIFICATES FOR INFRASTRUCTURE*

(Information is provided in this section only if there is a valid site compatibility certificate (infrastructure), of which council is aware, in respect of proposed development on the land.)

### *17 SITE COMPATIBILITY CERTIFICATES AND CONDITIONS FOR AFFORDABLE RENTAL HOUSING*

(Information is provided in this section only if:
(a) there is a current site compatibility certificate (affordable rental housing), of which the council is aware, in respect of proposed development on the land; and/or
(b) any terms of a kind referred to in clause 17(1) or 37(1) of State Environmental Planning Policy (Affordable Rental Housing) 2009 have been imposed as a condition of consent to a development application in respect of the land.)

### *18 PAPER SUBDIVISION INFORMATION*

(Information is provided in this section only if a development plan adopted by a relevant authority applies to the land or is proposed to be subject to a consent ballot, or a subdivision order applies to the land.)

### *19 SITE VERIFICATION CERTIFICATES*

(Information is provided in this section only if there is a current site verification certificate, of which council is aware, in respect of the land.)

***NOTE: The following matters are prescribed by section 59(2) of the Contaminated Land Management Act 1997 as additional matters to be specified in a planning certificate***

(a) (Information is provided in this section only if, as at the date of this certificate, the land (or part of the land) is significantly contaminated land within the meaning of the Contaminated Land Management Act 1997.)

(b) (Information is provided in this section only if, as at the date of this certificate, the land is subject to a management order within the meaning of the Contaminated Land Management Act 1997.)

(c) (Information is provided in this section only if, as at the date of this certificate, the land is the subject of an approved voluntary management proposal within the meaning of the Contaminated Land Management Act 1997.)

(d) (Information is provided in this section only if, at the date of this certificate, the land subject to an ongoing maintenance order within the meaning of the Contaminated Land Management Act 1997.)

(e) (Information is provided in this section only if the land is the subject of a site audit statement within the meaning of the Contaminated Land Management Act 1997 - a copy of which has been provided to Council.)

Note: Section 10.7(5) information for this property may contain additional information regarding contamination issues.

### *20 LOOSE FILL ASBESTOS INSULATION*

(Information is provided in this section only if there is a residential premises listed on the register of residential premises that contain or have contained loose-fill asbestos insulation (as required by Division 1A of Part 8 of the Home Building Act 1989))

### *21 AFFECTED BUILDING NOTICES AND BUILDING PRODUCT RECTIFICATION ORDERS*

(Information is provided in this section only if Council is aware of any "affected building notice" and/or a "building product rectification order" in force for the land).

Note: The Environmental Planning and Assessment Amendment Act 2017 commenced operation on the 1 March 2018. As a consequence of this Act the information contained in this certificate needs to be read in conjunction with the provisions of the Environmental Planning and Assessment (Savings, Transitional and Other Provisions) Regulation 2017, and Environmental Planning and Assessment Regulation 2000.

Information is provided only to the extent that Council has been notified by relevant government departments.

**10.7(5) Certificate**
**This Certificate is directed to the following**
**relevant matters affecting the land**

When information pursuant to section 10.7(5) is requested the Council is under no obligation to furnish any of the information supplied herein pursuant to that section. Council draws your attention to section 10.7(6) which states that a council shall not incur any liability in respect of any advice provided in good faith pursuant to sub-section (5). The absence of any reference to any matter affecting the land shall not imply that the land is not affected by any matter not referred to in this certificate.

Note:

- Council's 10.7(5) information does not include development consent or easement information. Details of development consents may be obtained by making enquiries with Council's Development Services Department pursuant to section 12 of the Local Government Act 1993 or (for development applications lodged after January 2007) by viewing the Online Services area at www.penrithcity.nsw.gov.au . Details of any easements may be obtained from a Title Search at Land and Property Information New South Wales.
- This certificate does not contain information relating to Complying Development Certificates.
- This certificate may not provide full details of development rights over the land.

* Threatened Species Conservation Act 1995

When considering any development application Council must have regard to the Threatened Species Conservation Act 1995. Please note that this legislation may have application to any land throughout

the city. Interested persons should make their own enquiries in regard to the impact that this legislation could have on this land.

* Preservation of Trees and Vegetation
See Chapter C2 of Penrith Development Control Plan 2014 for specific controls relating to the preservation of trees and vegetation.

* Development Control Plan General Information
Penrith Development Control Plan 2014 which applies to the land, sets out requirements for a range of issues that apply across the Penrith Local Government Area, including:

- Site Planning and Design Principles
- Vegetation Management
- Water Management
- Land Management
- Waste Management
- Landscape Design
- Culture and Heritage
- Public Domain
- Advertising and Signage
- Transport, Access and Parking
- Subdivision
- Noise and Vibration, and
- Infrastructure and Services.

The Development Control Plan also specifies requirements relating to various types of land uses including:

- Rural Land Uses
- Residential Development
- Commercial and Retail Development, and
- Industrial Development

as well as for a number of specific activities, including child care centres; health consulting rooms; educational establishments; parent friendly amenities; places of public worship; vehicle repair stations; cemeteries, crematoria and funeral homes; extractive industries; and telecommunication facilities.

The Development Control Plan also details requirements relating to key precincts within the Penrith Local Government Area, including:

- Caddens
- Claremont Meadows Stage 2
- Cranebrook
- Emu Heights
- Emu Plains
- Erskine Business Park
- Glenmore Park
- Kingswood
- Mulgoa Valley
- Orchard Hills

- Penrith
- Penrith Health and Education Precinct
- Riverlink Precinct
- St Clair,
- St Marys / St Marys North, and
- Sydney Science Park.

Penrith Development Control Plan 2014 may be accessed at https://www.penrithcity.nsw.gov.au/Building-and-Development/Planning-and-Zoning/Planning-Controls/Development-Control-Plans/

* Penrith City Centre Controls

See Part 8 of Penrith Local Environmental Plan 2010 and Chapter E11 of Penrith Development Control Plan 2014 for specific controls relating to Penrith City Centre (which includes the subject property).

* Active Street Frontage

The land is identified as an "Active Street Frontage" on the Penrith Local Environmental Plan 2010 (PLEP 2010) Active Street Frontages Map. See Clause 7.8 of PLEP 2010 for details.

* Key Sites Map

The land is identified on the Penrith Local Environmental Plan 2010 (PLEP 2010) Key Sites Map. See Clause 8.4 of PLEP 2010 for details.

Additional matters that consent authority must consider

Clause 92 (1)(f) of *Environmental Planning and Assessment Regulation 2000* (the Regulation) applies to the land. Relevantly this clause provides:

*(f) in the case of a development application for development for the erection of a building for residential purposes on land in Penrith City Centre, the Development Assessment Guideline: An Adaptive Response to Flood Risk Management for Residential Development in the Penrith City Centre published by the Department of Planning and Environment on 28 June 2019.*

A copy of this Guideline is available on the website of the Department.

Clause 92(1)(a)-(e) of the Regulation may also apply to the land.

**Warwick Winn**
**General Manager**

PER



PENRITH CITY COUNCIL

Civic Centre
601 High Street, Penrith

PO Box 60 Penrith NSW 2751

Telephone: 02 4732 7777
Facsimile: 02 4732 7958

Email: pencit@penrithcity.nsw.gov.au

# PLANNING CERTIFICATE UNDER SECTION 10.7

**Environmental Planning and Assessment Act, 1979**

**Please note:**

Certain amendments to the Environmental Planning and Assessment Act 1979 No 203 (Act) commenced on 1 March 2018.

The Environmental Planning and Assessment (Amendment) Act 2017 No 60 makes structural changes to the Act and, as a consequence, the Act has been renumbered in a decimal format. For example, Section 149 Planning Certificates have become Section 10.7 Certificates. Some of the information in this certificate may refer to the previous version of the Act.

Council is committed to updating all relevant documents in a timely manner. This will include planning instruments, applications, approvals, orders, certificates, forms and other associated documents in both printed and electronic versions. Council is required to implement these changes and regrets any inconvenience caused to the local business, industry and the community.

**APPENDIX D**

---

**NSW EPA RECORD OF NOTICES & ENVIRONMENT PROTECTION LICENCES**

# Contaminated land - record of notices

## Record under section 58 of the Contaminated Land Management Act 1997

This record is maintained by OEH in accordance with Part 5 of the Contaminated Land Management Act 1997 (CLM Act).

The record **does** provide

- ✓ a record of written notices issued by OEH under the CLM Act, including preliminary investigation orders.
- ✓ the names of the sites, owners or occupiers **at the time of OEH action** in relation to the site
- ✓ copies of site audit statements (SAS) provided to OEH under section 52 of the CLM Act and relating to significantly contaminated land.

The record **does not** provide

- ✘ a record of all contaminated land in NSW. See frequently asked questions
- ✘ a list of notifications of contamination that OEH receives.
- ✘ the names of the sites, owners or occupiers if it changes **after OEH action** in relation to the site.
- ✘ some personal information.

... more about the CLM record of notices

**From 1 July 2009 there were changes to the terminology of certain OEH actions under the CLM Act.** See the list of these changes.

The record includes notices issued under sections 35 and 36 of the Environmentally Hazardous Chemicals Act 1985. These sections have been repealed. These notices are treated by the CLM Act as management orders.

Before using the record of notices see the Disclaimer and terms of use.

As at Thursday, 31 October 2019 there are 1638 notices in the record relating to 382 sites.

Show me the entire record or Search the record

31 October 2019

# Search results

Your search for: LGA: Penrith City Council

Matched 29 notices relating to 7 sites.

Search Again

Refine Search

| Suburb | Address | Site Name | Notices related to this site |
|---|---|---|---|
| BERKSHIRE PARK | (Northern end of Compartment 5) The Northern ROAD | Castlereagh State Forest | 6 former |
| COLYTON | 88 Great Western HIGHWAY | Ampol Service Station | 1 current |
| JAMISONTOWN | 92 Mulgoa ROAD | 7-Eleven Service Station | 4 current and 2 former |
| LUDDENHAM | Lot 4 The Northern ROAD | Elura Liquid Waste Disposal Site | 1 former |
| MULGOA | Mulgoa ROAD | Penrith Waste Services | 2 former |
| PENRITH | Castlereagh ROAD | Crane Enfield Metals | 5 current and 3 former |
| ST MARYS | Vallance STREET | Drum Recycler | 5 former |



31 October 2019

**For business and industry**

**For local government**

**Contact us**

131 555 (tel:131555)

info@epa.nsw.gov.au (mailto:info@epa.nsw.gov.au)

EPA Office Locations (https://www.epa.nsw.gov.au/about-us/contact-us/locations)

Accessibility (https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/help-index)
Disclaimer (https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/disclaimer)
Privacy (https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/privacy)
Copyright (https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/copyright)

(https://au.linkedin.environment-protection-authority-

Find us on (https://www.facebook.com/NSW

# Search results

Your search for:Suburb: PENRITH

Matched 8 notices relating to 1 site.

Search Again

Refine Search

| Suburb | Address | Site Name | Notices related to this site |
|---|---|---|---|
| PENRITH | Castlereagh ROAD | Crane Enfield Metals | 5 current and 3 former |

Page 1 of 1

31 October 2019

## For business and industry

## For local government

## Contact us

- 131 555 (tel:131555)
- info@epa.nsw.gov.au (mailto:info@epa.nsw.gov.au)
- EPA Office Locations (https://www.epa.nsw.gov.au/about-us/contact-us/locations)

# Search results

Your search for: FULL REGISTER

Matched 1638 notices relating to 382 sites.

Search Again

Refine Search

| Suburb | Address | Site Name | Notices related to this site |
|---|---|---|---|
| NELLIGEN | Old Bolaro ROAD | Lot 2 Old Bolaro Road | 1 current and 4 former |
| NEWCASTLE | Bound by Hunter River, Selwyn Street & Industrial DRIVE | BHP Steelworks (Closure site) | 2 current and 22 former |
| NEWCASTLE | 26-28 Honeysuckle DRIVE | Reclaimed Land | 1 former |
| NEWTOWN | 79 Wilson STREET | Adjacent to Former Service Station | 3 former |
| NEWTOWN | 81 Wilson STREET | Former Service Station | 4 former |
| NORTH ROTHBURY | Main ROAD | Ayrefield Colliery | 1 current |
| NORTH SYDNEY | Adjacent to Sub Base Platypus, High STREET | Neutral Bay Sediments | 2 former |
| NORTH SYDNEY | High STREET | Sub Base Platypus (previously HMAS Platypus) | 1 former |
| NOWRA | Lamonds LANE | Former gasworks | 2 current and 1 former |
| NOWRA EAST | Lot 3 Kalandar STREET | Mobil Service Station | 6 former |
| OBERON | Off Endeavour STREET | CSR Ltd Property and King's Stockyard Creek | 5 former |
| ORANGE | 5-7 Edward STREET | 5-7 Edward St Orange | 2 current |
| ORANGE | 24-28 Peisley STREET | Former Fuel Depot | 1 current |
| OYSTER BAY | 20 Carvers ROAD | Shell Coles Express Service Station | 6 current and 1 former |
| PADDINGTON | 59 Oxford STREET | 7-Eleven Service Station | 1 current |
| PADSTOW | 55 Bryant STREET | Former Exide Battery Manufacturing & Recycling | 2 current and 1 former |
| PAGEWOOD | Corner of Page Street and Holloway STREET | Former Email Site | 2 current and 6 former |
| PENNANT HILLS | 386 Pennant Hills ROAD | Shell Coles Express Pennant Hills West | 3 current and 1 former |
| PENRITH | Castlereagh ROAD | Crane Enfield Metals | 5 current and 3 former |
| PITT TOWN | Lot 24 Pitt Town Bottoms ROAD | Chemical Waste Disposal Site | 3 former |

... 11 12 13 14 15 16 17 18 19 20



31 October 2019

**For business and industry**

**For local government**

**Contact us**

131 555 (tel:131555)

info@epa.nsw.gov.au (mailto:info@epa.nsw.gov.au)

EPA Office Locations (https://www.epa.nsw.gov.au/about-us/contact-us/locations)

Accessibility (https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/help-index)
Disclaimer (https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/disclaimer)
Privacy (https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/privacy)
Copyright (https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/copyright)

Find us on (https://au.linkedin.com/company/environment-protection-authority-nsw) (https://twitter.com/epansw)

# Search results

Your search for: **General Search** with the following criteria

**Suburb** - Penrith

returned 118 results

Export to excel

1 of 6 Pages

Search Again

| Number | Name | Location | Type | Status | Issued date |
|---|---|---|---|---|---|
| 1584282 | | Jane Street and Mulgoa Road Infrastructure Upgrade , PENRITH, NSW 2740 | s.80 Surrender of a Licence | Pending | 20 Aug 2019 |
| 21071 | 5R Solutions Pty Ltd | 2115-2131 Castlereagh Road , PENRITH, NSW 2750 | POEO licence | Issued | 29 Mar 2019 |
| 1042219 | A.C.N. 098 953 336 PTY LTD | 182-184 Andrews Road, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 10 Nov 2004 |
| 247 | BORAL RESOURCES (NSW) PTY LTD | PEACHTREE ROAD, PENRITH, NSW 2750 | POEO licence | No longer in force | 22 Aug 2000 |
| 12405 | CAPRAL LIMITED | 2115 CASTLEREAGH ROAD, PENRITH, NSW 2750 | POEO licence | Issued | 09 Mar 2006 |
| 1070974 | CAPRAL LIMITED | 2115 CASTLEREAGH ROAD, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 30 Jul 2007 |
| 1077652 | CAPRAL LIMITED | 2115 CASTLEREAGH ROAD, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 31 Aug 2007 |
| 1109988 | CAPRAL LIMITED | 2115 CASTLEREAGH ROAD, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 19 Apr 2010 |
| 1525967 | CAPRAL LIMITED | 2115 CASTLEREAGH ROAD, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 31 Oct 2014 |
| 1526072 | CAPRAL LIMITED | 2115 CASTLEREAGH ROAD, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 11 Nov 2014 |
| 1098 | CRANE ENFIELD METALS PTY. LIMITED | 2115 CASTLEREAGH ROAD, PENRITH, NSW 2750 | POEO licence | Issued | 26 Jun 2000 |
| 1004546 | CRANE ENFIELD METALS PTY. LIMITED | 2115 CASTLEREAGH ROAD, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 20 Mar 2001 |
| 1017498 | CRANE ENFIELD METALS PTY. LIMITED | 2115 CASTLEREAGH ROAD, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 24 Nov 2003 |
| 1056426 | CRANE ENFIELD METALS PTY. LIMITED | 2115 CASTLEREAGH ROAD, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 09 Mar 2006 |
| 1072470 | CRANE ENFIELD METALS PTY. LIMITED | 2115 CASTLEREAGH ROAD, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 20 Sep 2007 |
| 1104995 | CRANE ENFIELD METALS PTY. LIMITED | 2115 CASTLEREAGH ROAD, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 04 Nov 2009 |
| 1510672 | CRANE ENFIELD METALS PTY. LIMITED | 2115 CASTLEREAGH ROAD, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 04 Feb 2013 |
| 1512789 | CRANE ENFIELD METALS PTY. LIMITED | 2115 CASTLEREAGH ROAD, PENRITH, NSW 2750 | Compliance Audit | Complete | 13 Mar 2013 |
| 1512775 | CRANE ENFIELD METALS PTY. LIMITED | 2115 CASTLEREAGH ROAD, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 19 Mar 2013 |
| 1515690 | CRANE ENFIELD METALS PTY. LIMITED | 2115 CASTLEREAGH ROAD, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 26 Jul 2013 |

1 2 3 4 5 6

31 October 2019

**For business and industry**

**For local government**

**Contact us**

131 555 (tel:131555)

info@epa.nsw.gov.au (mailto:info@epa.nsw.gov.au)

EPA Office Locations (https://www.epa.nsw.gov.au/about-us/contact-us/locations)

Accessibility (https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/help-index)
Disclaimer (https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/disclaimer)
Privacy (https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/privacy)
Copyright (https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/copyright)

Find us on (https://au.linkedin.com/company/environment-protection-authority-nsw) (https://twitter.com/NSWEPA)

# Search results

Your search for: **General Search** with the following criteria

**Suburb** - Penrith

returned 118 results

Export to excel

2 of 6 Pages

Search Again

| Number | Name | Location | Type | Status | Issued date |
|---|---|---|---|---|---|
| 1525217 | CRANE ENFIELD METALS PTY. LIMITED | 2115 CASTLEREAGH ROAD, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 26 Sep 2014 |
| 10945 | CUMMINS SOUTH PACIFIC PTY. LTD. | 7 Andrews Road, PENRITH, NSW 2750 | POEO licence | Surrendered | 19 Jun 2000 |
| 1035208 | CUMMINS SOUTH PACIFIC PTY. LTD. | 7 Andrews Road, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 08 Mar 2004 |
| 1038290 | CUMMINS SOUTH PACIFIC PTY. LTD. | 7 Andrews Road, PENRITH, NSW 2750 | s.80 Surrender of a Licence | Issued | 28 Jun 2004 |
| 308 | DORF CLARK INDUSTRIES LIMITED | 2101 CASTLEREAGH ROAD, PENRITH, NSW 2750 | POEO licence | Surrendered | 17 Jan 2000 |
| 1024084 | DORF CLARK INDUSTRIES LIMITED | 2101 CASTLEREAGH ROAD, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 06 Jan 2003 |
| 1044228 | DORF CLARK INDUSTRIES LIMITED | 2101 CASTLEREAGH ROAD, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 08 Feb 2005 |
| 1062634 | DORF CLARK INDUSTRIES LIMITED | 2101 CASTLEREAGH ROAD, PENRITH, NSW 2750 | s.80 Surrender of a Licence | Issued | 04 Jul 2006 |
| 11290 | ENDEAVOUR ENERGY | 96-120 Blaikie Road, PENRITH, NSW 2750 | POEO licence | No longer in force | 08 Jan 2001 |
| 1035197 | ENDEAVOUR ENERGY | 96-120 Blaikie Road, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 08 Mar 2004 |
| 1017070 | FORT DODGE AUSTRALIA PTY LIMITED | 2152 CASTLEREAGH ROAD, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 13 May 2002 |
| 1029829 | FORT DODGE AUSTRALIA PTY LIMITED | 2152 CASTLEREAGH ROAD, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 27 Aug 2003 |
| 1038827 | FORT DODGE AUSTRALIA PTY LIMITED | 2152 CASTLEREAGH ROAD, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 28 Jul 2004 |
| 1046584 | FORT DODGE AUSTRALIA PTY LIMITED | 2152 CASTLEREAGH ROAD, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 28 Apr 2005 |
| 1066270 | FORT DODGE AUSTRALIA PTY LIMITED | 2152 CASTLEREAGH ROAD, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 15 Dec 2006 |
| 1072508 | FORT DODGE AUSTRALIA PTY LIMITED | 2152 CASTLEREAGH ROAD, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 23 Jul 2007 |
| 1100623 | FORT DODGE AUSTRALIA PTY LIMITED | 2152 CASTLEREAGH ROAD, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 07 Oct 2009 |
| 1526441 | Glass Recovery Services Pty Ltd | 126 Andrews Road, PENRITH, NSW 2740 | s.91 Clean Up Notice | Issued | 27 Jan 2015 |
| 1535765 | Glass Recovery Services Pty Ltd | 126 Andrews Road, PENRITH, NSW 2740 | s.91 Clean Up Notice | Issued | 23 Aug 2016 |
| 3085780565 | Glass Recovery Services Pty Ltd | 126 Andrews Road, PENRITH, NSW 2740 | Penalty Notice | Issued | 28 Oct 2016 |

1 2 3 4 5 6

31 October 2019

**For business and industry**

**For local government**

**Contact us**

131 555 (tel:131555)

info@epa.nsw.gov.au (mailto:info@epa.nsw.gov.au)

EPA Office Locations (https://www.epa.nsw.gov.au/about-us/contact-us/locations)

Accessibility (https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/help-index)
Disclaimer (https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/disclaimer)
Privacy (https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/privacy)
Copyright (https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/copyright)

Find us on (https://au.linkedin.com/company/environment-protection-authority-victoria) (https://twitter.com/epavictoria)

# Search results

Your search for: **General Search** with the following criteria

**Suburb** - Penrith

returned 118 results

Export to excel 3 of 6 Pages Search Again

| Number | Name | Location | Type | Status | Issued date |
|---|---|---|---|---|---|
| 20381 | Glass Recovery Services Pty Ltd | 126 Andrews Road, PENRITH, NSW 2740 | POEO licence | Issued | 07 Nov 2017 |
| 3173525960 | Glass Recovery Services Pty Ltd | 126 Andrews Road, PENRITH, NSW 2740 | Penalty Notice | Issued | 13 Aug 2018 |
| 3173525970 | Glass Recovery Services Pty Ltd | 126 Andrews Road, PENRITH, NSW 2740 | Penalty Notice | Issued | 13 Aug 2018 |
| 3173526281 | Glass Recovery Services Pty Ltd | 126 Andrews Road, PENRITH, NSW 2740 | Penalty Notice | Issued | 04 Oct 2018 |
| 3173526034 | Glass Recovery Services Pty Ltd | 126 Andrews Road, PENRITH, NSW 2740 | Penalty Notice | Issued | 06 Nov 2018 |
| 12132 | GULF WESTERN PREMIUM QUALITY LUBRICATING OILS (MANUFACTURING) PTY LIMITED | 1 COOMBES DRIVE, PENRITH, NSW 2750 | POEO licence | Surrendered | 01 Oct 2004 |
| 1097227 | GULF WESTERN PREMIUM QUALITY LUBRICATING OILS (MANUFACTURING) PTY LIMITED | 1 COOMBES DRIVE, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 02 Feb 2009 |
| 1104874 | GULF WESTERN PREMIUM QUALITY LUBRICATING OILS (MANUFACTURING) PTY LIMITED | 1 COOMBES DRIVE, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 17 Aug 2009 |
| 1109128 | GULF WESTERN PREMIUM QUALITY LUBRICATING OILS (MANUFACTURING) PTY LIMITED | 1 COOMBES DRIVE, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 20 Nov 2009 |
| 1522908 | GULF WESTERN PREMIUM QUALITY LUBRICATING OILS (MANUFACTURING) PTY LIMITED | 1 COOMBES DRIVE, PENRITH, NSW 2750 | s.80 Surrender of a Licence | Issued | 23 Jul 2014 |
| 6472 | JAMES KEITH COSGROVE | 8 HOYLE PLACE, PENRITH, NSW 2750 | POEO licence | Surrendered | 21 Jun 2000 |
| 1044521 | JAMES KEITH COSGROVE | 8 HOYLE PLACE, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 16 Feb 2005 |
| 1057715 | JAMES KEITH COSGROVE | 8 HOYLE PLACE, PENRITH, NSW 2750 | s.80 Surrender of a Licence | Issued | 18 May 2006 |
| 7019 | JAMISON PRIVATE HOSPITAL PROPERTY PTY LTD | 366 JAMISON ROAD, PENRITH, NSW 2750 | POEO licence | Surrendered | 20 Mar 2001 |
| 1006127 | JAMISON PRIVATE HOSPITAL PROPERTY PTY LTD | 366 JAMISON ROAD, PENRITH, NSW 2750 | s.80 Surrender of a Licence | Issued | 12 Apr 2001 |
| 2869 | LD&D MILK PTY LTD | 2257 - 2265 CASTLEREAGH ROAD, PENRITH, NSW 2750 | POEO licence | Issued | 05 Jun 2000 |
| 1012903 | LD&D MILK PTY LTD | 2257 - 2265 CASTLEREAGH ROAD, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 18 Feb 2002 |
| 1525246 | LD&D MILK PTY LTD | 2257 - 2265 CASTLEREAGH ROAD, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 02 Oct 2014 |
| 1556498 | LD&D MILK PTY LTD | 2257 - 2265 CASTLEREAGH ROAD, PENRITH, NSW 2750 | s.96 Prevention Notice | Issued | 08 Sep 2017 |
| 21135 | MCCONNELL DOWELL CONSTRUCTORS (AUST) | Jane Street and Mulgoa Road | POEO licence | Issued | 26 Sep 2018 |

**For business and industry**

**For local government**

**Contact us**

PTY LTD

Infrastructure
Upgrade , PENRITH,
NSW 2740

1 2 3 4 5 6

31 October 2019

- 131 555 (tel:131555)
- info@epa.nsw.gov.au (mailto:info@epa.nsw.gov.au)
- EPA Office Locations (https://www.epa.nsw.gov.au/about-us/contact-us/locations)

Accessibility (https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/help-index)
Disclaimer (https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/disclaimer)
Privacy (https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/privacy)
Copyright (https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/copyright)

Find us on (https://au.linkedin.environment-protection-authority-(https://www.

# Search results

Your search for: **General Search** with the following criteria

**Suburb** - Penrith

returned 118 results

Export to excel

4 of 6 Pages

Search Again

| Number | Name | Location | Type | Status | Issued date |
|---|---|---|---|---|---|
| 1579384 | MCCONNELL DOWELL CONSTRUCTORS (AUST) PTY LTD | Jane Street and Mulgoa Road Infrastructure Upgrade , PENRITH, NSW 2740 | s.58 Licence Variation | Issued | 15 Jul 2019 |
| 21087 | MEYER TIMBER N.S.W. PTY LTD | 2101-2113 Castlereagh Road, PENRITH, NSW 2750 | POEO licence | Issued | 06 Apr 2018 |
| 3741 | NAREX AUSTRALIA PTY LTD | LOT D FROGMORE ROAD, PENRITH, NSW 2750 | POEO licence | Surrendered | 31 Jan 2001 |
| 1007235 | NAREX AUSTRALIA PTY LTD | LOT D FROGMORE ROAD, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 10 May 2001 |
| 1008444 | NAREX AUSTRALIA PTY LTD | LOT D FROGMORE ROAD, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 20 Aug 2001 |
| 1019295 | NAREX AUSTRALIA PTY LTD | LOT D FROGMORE ROAD, PENRITH, NSW 2750 | s.80 Surrender of a Licence | Issued | 23 Jul 2002 |
| 6357 | O-I OPERATIONS (AUSTRALIA) PTY LTD | 130-172 ANDREW ROAD, PENRITH, NSW 2750 | POEO licence | Issued | 07 Jun 2000 |
| 1007008 | O-I OPERATIONS (AUSTRALIA) PTY LTD | 130-172 ANDREW ROAD, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 05 Jul 2002 |
| 1020003 | O-I OPERATIONS (AUSTRALIA) PTY LTD | 130-172 ANDREW ROAD, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 09 Sep 2002 |
| 1072516 | O-I OPERATIONS (AUSTRALIA) PTY LTD | 130-172 ANDREW ROAD, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 20 Aug 2007 |
| 1085783 | O-I OPERATIONS (AUSTRALIA) PTY LTD | 130-172 ANDREW ROAD, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 21 Oct 2008 |
| 1104746 | O-I OPERATIONS (AUSTRALIA) PTY LTD | 130-172 ANDREW ROAD, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 06 Aug 2009 |
| 1109805 | O-I OPERATIONS (AUSTRALIA) PTY LTD | 130-172 ANDREW ROAD, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 26 Feb 2010 |
| 1511632 | O-I OPERATIONS (AUSTRALIA) PTY LTD | 130-172 ANDREW ROAD, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 22 Feb 2013 |
| 1512576 | O-I OPERATIONS (AUSTRALIA) PTY LTD | 130-172 ANDREW ROAD, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 12 Aug 2014 |
| 2818 | PANASONIC AVC NETWORKS AUSTRALIA PTY LTD | 164 STATION STREET, PENRITH, NSW 2750 | POEO licence | Surrendered | 24 Mar 2000 |
| 1015398 | PANASONIC AVC NETWORKS AUSTRALIA PTY LTD | 164 STATION STREET, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 04 Mar 2002 |
| 1048338 | PANASONIC AVC NETWORKS AUSTRALIA PTY LTD | 164 STATION STREET, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 31 May 2005 |
| 1057191 | PANASONIC AVC NETWORKS AUSTRALIA PTY LTD | 164 STATION STREET, PENRITH, NSW 2750 | s.80 Surrender of a Licence | Issued | 10 Apr 2006 |
| 10349 | SYDNEY OLYMPIC PARK AUTHORITY | CASTLEREAGH ROAD, PENRITH, NSW 2750 | POEO licence | Surrendered | 06 Jan 2000 |

1 2 3 4 5 6

31 October 2019

**For business and industry**

**For local government**

**Contact us**

EPA Office Locations (https://www.epa.nsw.gov.au/about-us/contact-us/locations)

Accessibility (https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/help-index)
Disclaimer (https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/disclaimer)
Privacy (https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/privacy)
Copyright (https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/copyright)

Find us on (https://au.linkedin.com/company/environment-protection-authority-nsw) (https://twitter.com/NSWEPA)

# Search results

Your search for: **General Search** with the following criteria

**Suburb** - Penrith

returned 118 results

Export to excel

5 of 6 Pages

Search Again

| Number | Name | Location | Type | Status | Issued date |
|---|---|---|---|---|---|
| 1009237 | SYDNEY OLYMPIC PARK AUTHORITY | CASTLEREAGH ROAD, PENRITH, NSW 2750 | s.80 Surrender of a Licence | Issued | 13 Aug 2001 |
| 1409 | SYDNEY WATER CORPORATION | CASTLEREAGH ROAD, PENRITH, NSW 2750 | POEO licence | Issued | 25 May 2000 |
| 1005313 | SYDNEY WATER CORPORATION | CASTLEREAGH ROAD, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 22 Oct 2001 |
| 1017898 | SYDNEY WATER CORPORATION | CASTLEREAGH ROAD, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 26 Jun 2002 |
| 1018895 | SYDNEY WATER CORPORATION | CASTLEREAGH ROAD, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 23 Dec 2002 |
| 1028330 | SYDNEY WATER CORPORATION | CASTLEREAGH ROAD, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 08 Jul 2003 |
| 1032690 | SYDNEY WATER CORPORATION | CASTLEREAGH ROAD, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 25 Nov 2003 |
| 1032982 | SYDNEY WATER CORPORATION | CASTLEREAGH ROAD, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 19 Mar 2004 |
| 1047700 | SYDNEY WATER CORPORATION | CASTLEREAGH ROAD, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 30 Jun 2005 |
| 1061410 | SYDNEY WATER CORPORATION | CASTLEREAGH ROAD, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 29 Jun 2006 |
| 1070089 | SYDNEY WATER CORPORATION | CASTLEREAGH ROAD, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 15 Mar 2007 |
| 1074754 | SYDNEY WATER CORPORATION | CASTLEREAGH ROAD, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 27 Jun 2007 |
| 1092452 | SYDNEY WATER CORPORATION | CASTLEREAGH ROAD, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 19 Nov 2008 |
| 1116048 | SYDNEY WATER CORPORATION | CASTLEREAGH ROAD, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 02 Jul 2010 |
| 1129012 | SYDNEY WATER CORPORATION | CASTLEREAGH ROAD, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 27 Jun 2011 |
| 1504851 | SYDNEY WATER CORPORATION | CASTLEREAGH ROAD, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 28 Jun 2012 |
| 1526090 | SYDNEY WATER CORPORATION | CASTLEREAGH ROAD, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 08 Jan 2015 |
| 1528922 | SYDNEY WATER CORPORATION | CASTLEREAGH ROAD, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 23 Mar 2015 |
| 1538189 | SYDNEY WATER CORPORATION | CASTLEREAGH ROAD, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 19 Feb 2016 |
| 1539414 | SYDNEY WATER CORPORATION | CASTLEREAGH ROAD, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 14 Apr 2016 |

1 2 3 4 5 6

31 October 2019

**For business and industry**

**For local government**

**Contact us**

131 555 (tel:131555)

info@epa.nsw.gov.au (mailto:info@epa.nsw.gov.au)

EPA Office Locations (https://www.epa.nsw.gov.au/about-us/contact-us/locations)

Accessibility (https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/help-index)
Disclaimer (https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/disclaimer)
Privacy (https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/privacy)
Copyright (https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/copyright)

Find us on (https://au.linkedin.com/company/environment-protection-authority-nsw)

# Search results

Your search for: **General Search** with the following criteria

**Suburb** - Penrith

returned 118 results

Export to excel

6 of 6 Pages

Search Again

| Number | Name | Location | Type | Status | Issued date |
|---|---|---|---|---|---|
| 1542270 | SYDNEY WATER CORPORATION | CASTLEREAGH ROAD, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 28 Jul 2016 |
| 1552585 | SYDNEY WATER CORPORATION | CASTLEREAGH ROAD, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 01 Jun 2017 |
| 1572463 | SYDNEY WATER CORPORATION | CASTLEREAGH ROAD, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 30 Nov 2018 |
| 1577311 | SYDNEY WATER CORPORATION | CASTLEREAGH ROAD, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 25 Mar 2019 |
| 1580188 | SYDNEY WATER CORPORATION | CASTLEREAGH ROAD, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 01 Jul 2019 |
| 1586318 | SYDNEY WATER CORPORATION | CASTLEREAGH ROAD, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 04 Oct 2019 |
| 1587664 | SYDNEY WATER CORPORATION | CASTLEREAGH ROAD, PENRITH, NSW 2750 | s.58 Licence Variation | Pending | 30 Oct 2019 |
| 11461 | TOTAL CONCRETE SOLUTIONS PTY LIMITED | 261 COOMBES DRIVE, PENRITH, NSW 2750 | POEO licence | No longer in force | 19 Oct 2001 |
| 1294 | VICARY CORPORATION PTY LIMITED | 60-62 REGENTVILLE ROAD, PENRITH, NSW 2750 | POEO licence | Surrendered | 22 Aug 2000 |
| 1018540 | VICARY CORPORATION PTY LIMITED | 60-62 REGENTVILLE ROAD, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 27 Jun 2002 |
| 1039098 | VICARY CORPORATION PTY LIMITED | 60-62 REGENTVILLE ROAD, PENRITH, NSW 2750 | s.80 Surrender of a Licence | Issued | 19 Jul 2004 |
| 12106 | VIP STEEL PACKAGING PTY LTD | 182-184 Andrews Road, PENRITH, NSW 2750 | POEO licence | Surrendered | 28 Apr 2004 |
| 1065654 | VIP STEEL PACKAGING PTY LTD | 182-184 Andrews Road, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 25 Oct 2006 |
| 1093267 | VIP STEEL PACKAGING PTY LTD | 182-184 Andrews Road, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 10 Nov 2008 |
| 1127751 | VIP STEEL PACKAGING PTY LTD | 182-184 Andrews Road, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 03 Jun 2011 |
| 1511942 | VIP STEEL PACKAGING PTY LTD | 182-184 Andrews Road, PENRITH, NSW 2750 | s.80 Surrender of a Licence | Issued | 04 Mar 2013 |
| 5269 | VIRBAC (AUSTRALIA) PTY LTD | 2152 CASTLEREAGH ROAD, PENRITH, NSW 2750 | POEO licence | Issued | 10 Aug 2000 |
| 1526064 | VIRBAC (AUSTRALIA) PTY LTD | 2152 CASTLEREAGH ROAD, PENRITH, NSW 2750 | s.58 Licence Variation | Issued | 11 Nov 2014 |



31 October 2019

**For business and industry**

**For local government**

**Contact us**

131 555 (tel:131555)

info@epa.nsw.gov.au (mailto:info@epa.nsw.gov.au)

EPA Office Locations (https://www.epa.nsw.gov.au/about-us/contact-us/locations)

Accessibility (https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/help-index)
Disclaimer (https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/disclaimer)
Privacy (https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/privacy)
Copyright (https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/copyright)

Find us on (https://au.linkedin.com/company/environment-protection-authority-nsw) (https://twitter.com/NSWEPA)

# Background

A strategy to systematically prioritise, assess and respond to notifications under Section 60 of the ***Contaminated Land Management Act 1997*** (CLM Act) has been developed by the EPA. This strategy acknowledges the EPA's obligations to make information available to the public under ***Government Information (Public Access) Act 2009***.

When a site is notified to the EPA, it may be accompanied by detailed site reports where the owner has been proactive in addressing the contamination and its source. However, often there is minimal information on the nature or extent of the contamination.

After receiving a report, the first step is to confirm that the report does not relate to a pollution incident. The *Protection of the Environment Operations Act 1997* (POEO Act) deals with pollution incidents, waste stockpiling or dumping. The EPA also has an **incident management** process to manage significant incidents.

In many cases, the information indicates the contamination is securely immobilised within the site, such as under a building or carpark, and is not currently causing any significant risks for the community or environment. Such sites may still need to be cleaned up, but this can be done in conjunction with any subsequent building or redevelopment of the land. These sites do not require intervention under the CLM Act, and are dealt with through the **planning and development consent process**. In these cases, the EPA informs the local council or other planning authority, so that the information can be recorded and considered at the appropriate time.

Where indications are that the contamination could cause actual harm to the environment or an unacceptable offsite impact (i.e. the land is 'significantly contaminated'), the EPA would apply the regulatory provisions of the CLM Act to have the responsible polluter and/or landowner investigate and remediate the site. If the reported contamination could present an immediate or long-term threat to human health NSW Health will be consulted. SafeWork NSW and Water NSW can also be consulted if there appear to be occupational health and safety risks or an impact on groundwater quality.

As such, the sites notified to the EPA and presented in the list of contaminated sites notified to the EPA are at various stages of the assessment and remediation process. Understanding the nature of the underlying contamination, its implications and implementing a remediation program where required, can take a considerable period of time. The list provides an indication, in relation to each nominated site, as to the management status of that particular site. Further detailed information may be available from the EPA or the person who notified the site.

The following questions and answers may assist those interested in this issue:

# Frequently asked questions

### What is the difference between the 'List of NSW contaminated sites notified to EPA' and the 'Contaminated Land: Record of Notices'?

A site will be on the **Contaminated Land: Record of Notices** only if the EPA has issued a regulatory notice in relation to the site under the *Contaminated Land Management Act 1997*.

The sites appearing in the list of NSW contaminated sites notified to the EPA indicate that the notifiers consider that the sites are contaminated and warrant reporting to EPA. However, the contamination may or may not be significant enough to warrant regulation by the EPA. The EPA needs to review and, if necessary, obtain more information before it can make a determination as to whether the site warrants regulation.

## Why does my site appear on the list?

Your site appears on the list for one or more of the following reasons

- The site owner and/or the person partly or fully responsible for causing the contamination notified the EPA about the contamination under Section 60 of the *Contaminated Land Management Act 1997*. In other words, the site owner or the 'polluter' believes the site is contaminated.
- The EPA has been notified via other means and is satisfied that the site is or was contaminated.

## Does the list contain all contaminated sites in NSW?

No. The list only contains contaminated sites that EPA is aware of, with regard to its regulatory role under the CLM Act. An absence of a site from the list does not necessarily mean the site is not contaminated.

The EPA relies upon responsible parties to notify contaminated sites.

## How are notified contaminated sites managed by the EPA?

There are different ways that the EPA manages these notified contaminated sites. First, an initial assessment is carried out by the EPA. At the completion of the initial assessment, the EPA may take one or more than one of the following management approaches:

- The contamination warrants the EPA's direct regulatory intervention either under the *Contaminated Land Management Act 1997* or the *Protection of the Environment Operations Act 1997* (POEO Act), or both. Information about current or past regulatory action on this site can be found on the EPA website.
- The contamination with respect to the current use or approved use of the site, as defined under the *Contaminated Land Management Act 1997,* is not significant enough that it warrants EPA regulation.
- The contamination does not require EPA regulation and can be managed by a planning approval process.
- The contamination is related to an operational underground petroleum storage system, such as a service station or fuel depot. The contamination may be managed under the POEO Act and the Protection of the Environment Operation (Underground Petroleum Storage Systems) Regulation 2014.

Note: There are specific instances where contamination is managed under a specifically tailored program operated by another agency. For example the **Division of Resources & Geoscience's Derelict Mines Program** and the **NSW DPI Cattle tick dip site locator**.

The Legacy contamination management procedures for these sites will be detailed in a Memorandum of Understanding between the NSW EPA, NSW Resources and Energy and Dept. Primary Industries (Crown Lands and Biosecurity) (Note: the MoU is currently in draft).

## I am the owner of a site that appears on the list. What should I do?

First of all, you should ensure the current use of the site is compatible with the site contamination. Secondly, if the site is the subject of EPA regulation, make sure you comply with the regulatory requirements, and you have considered your obligations to notify other parties who may be affected.

If you have any concerns, contact us and we may be able to offer you general advice, or direct you to accredited professionals who can assist with specific issues.

## I am a prospective buyer of a site that appears on the list. What should I do?

You should seek advice from the vendor to put the contamination issue into perspective. You may need to seek independent expert advice.

The information provided in the list, particularly the EPA site management class, is meant to be indicative only, and a starting point for your own assessment. Site contamination as a legacy of past site uses is not uncommon, particularly in an urban environment. If the contamination on a site is properly remediated or managed, it may not materially impact upon the intended future use of the site. However, each site needs to be considered in context.

## Who can I contact if I need more information about a site?

If you have questions about a site on the list of sites notified to the EPA you can contact the Environment Line at any time. By phone: 131 555 or by email: info@environment.nsw.gov.au

# List of NSW Contaminated Sites Notified to the EPA

## Disclaimer

The EPA has taken all reasonable care to ensure that the information in the list of contaminated sites notified to the EPA (the list) is complete and correct. The EPA does not, however, warrant or represent that the list is free from errors or omissions or that it is exhaustive.

The EPA may, without notice, change any or all of the information in the list at any time.

You should obtain independent advice before you make any decision based on the information in the list.

The list is made available on the understanding that the EPA, its servants and agents, to the extent permitted by law, accept no responsibility for any damage, cost, loss or expense incurred by you as a result of:

1. any information in the list; or
2. any error, omission or misrepresentation in the list; or
3. any malfunction or failure to function of the list;
4. without limiting (2) or (3) above, any delay, failure or error in recording, displaying or updating information.

| Site Status | Explanation |
|---|---|
| Under assessment | The contamination is being assessed by the EPA to determine whether regulation is required. The EPA may require further information to complete the assessment. For example, the completion of management actions regulated under the planning process or *Protection of the Environment Operations Act 1997*. |
| Under Preliminary Investigation Order | The EPA has issued a Preliminary Investigation Order under s10 of the *Contaminated Land Management Act 1997*, to obtain additional information needed to complete the assessment. |
| Regulation under CLM Act not required | The EPA has completed an assessment of the contamination and decided that regulation under the *Contaminated Land Management Act 1997* is not required. |
| Regulation being finalised | The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation under the |

| | |
|---|---|
| | *Contaminated Land Management Act 1997*. A regulatory approach is being finalised. |
| Contamination currently regulated under CLM Act | The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation under the *Contaminated Land Management Act 1997* (CLM Act). Management of the contamination is regulated by the EPA under the CLM Act. Regulatory notices are available on the EPA's Contaminated Land Public Record. |
| Contamination currently regulated under POEO Act | Contamination is currently regulated under the *Protection of the Environment Operations Act 1997* (POEO Act). The EPA as *the appropriate regulatory authority* reasonably suspects that a pollution incident is occurring/ has occurred and that it requires regulation under the POEO Act. The EPA may use environment protection notices, such as clean up notices, to require clean up action to be taken. Such regulatory notices are available on the POEO public register. |
| Contamination being managed via the planning process (EP&A Act) | The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation. The contamination of this site is managed by the consent authority under the *Environmental Planning and Assessment Act 1979* (EP&A Act) planning approval process, with EPA involvement as necessary to ensure significant contamination is adequately addressed. The consent authority is typically a local council or the Department of Planning and Environment. |
| Contamination formerly regulated under the CLM Act | The EPA has determined that the contamination is no longer significant enough to warrant regulation under the *Contaminated Land Management Act 1997* (CLM Act). The contamination was addressed under the CLM Act. |
| Contamination formerly regulated under the POEO Act | The EPA has determined that the contamination is no longer significant enough to warrant regulation. The contamination was addressed under the *Protection of the Environment Operations Act 1997* (POEO Act). |
| Contamination was addressed via the planning process (EP&A Act) | The EPA has determined that the contamination is no longer significant enough to warrant regulation. The contamination was addressed by the appropriate consent authority via the planning process under the *Environmental Planning and Assessment Act 1979* (EP&A Act). |

| | |
|---|---|
| Ongoing maintenance required to manage residual contamination (CLM Act) | The EPA has determined that ongoing maintenance, under the *Contaminated Land Management Act 1997* (CLM Act), is required to manage the residual contamination. Regulatory notices under the CLM Act are available on the EPA's Contaminated Land Public Record. |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| ABBOTSFORD | Former Gasworks | 83 Wymston PARADE | Gasworks | Contamination formerly regulated under the CLM Act | -33.85288351 | 151.1265979 |
| ABBOTSFORD | Former Gasworks | 82, 83, 84 Wymston Pde, & 37, 39, 43, 45 St Albans STREET | Gasworks | Contamination formerly regulated under the CLM Act | -33.85288316 | 151.1267729 |
| ABBOTSFORD | Former Gasworks | 85 Wymston PARADE | Gasworks | Regulation under CLM Act not required | -33.85265214 | 151.1266277 |
| ABBOTSFORD | Former Gasworks | 80-81 Wymston Pde and 35 and 41 St Albans STREET | Gasworks | Regulation under CLM Act not required | -33.85306653 | 151.1268142 |
| ABBOTSFORD | Former Gasworks | 43 St Albans STREET | Gasworks | Contamination formerly regulated under the CLM Act | -33.85270604 | 151.126976 |
| ABERDEEN | Former Transport Depot | 87-89 St Andrew STREET | Other Industry | Regulation under CLM Act not required | -32.17160931 | 150.8972859 |
| ALBION PARK | Caltex Albion Park Service Station | 1 Calderwood ROAD | Service Station | Regulation under CLM Act not required | -34.57131362 | 150.7647971 |
| ALBION PARK RAIL | Caltex Service Station | 174 Princes HIGHWAY | Service Station | Regulation under CLM Act not required | -34.56134097 | 150.7953663 |
| ALBION PARK RAIL | Caltex Service Station | 31 Princes HIGHWAY | Service Station | Regulation under CLM Act not required | -34.55162786 | 150.7880626 |
| ALBION PARK RAIL | Former Timber Storage Area | 36 Rivulet CRESCENT | Other Industry | Regulation under CLM Act not required | -34.54872597 | 150.7899351 |
| ALBURY | Mobil Depot, Railway Place Albury | 1 Railway PLACE | Other Petroleum | Regulation under CLM Act not required | -36.08526805 | 146.9236999 |
| ALBURY | Woolworths Petrol | 515 Young STREET | Service Station | Regulation under CLM Act not required | -36.08073723 | 146.92351 |
| ALBURY | Former Caltex Service Station | 842 David STREET | Service Station | Regulation under CLM Act not required | -36.06398743 | 146.9252143 |
| ALBURY | SRA Land, 514 to 526 Young Street | 514 to 526 Young STREET | Other Petroleum | Regulation under CLM Act not required | -36.08084123 | 146.9241682 |
| ALBURY | Former Gasworks and surrounding commercial land. | 441 Kiewa STREET | Gasworks | Contamination currently regulated under CLM Act | -36.08357983 | 146.9137004 |
| ALBURY | Coles Express Albury | 465 Guinea STREET | Service Station | Regulation under CLM Act not required | -36.07513665 | 146.9213077 |
| ALBURY | Former Thales Australia site, Albury | 161 Fallon STREET | Other Industry | Contamination currently regulated under CLM Act | -36.064966 | 146.9434831 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| ALBURY | Xpress Service Station | 616-624 Young STREET | Service Station | Contamination formerly regulated under the CLM Act | -36.07555262 | 146.9256466 |
| ALBURY | Albury Plaza | Cnr Smollett Street and Townsend STREET | Other Industry | Regulation under CLM Act not required | -36.08112933 | 146.9135719 |
| ALBURY | Mobil Albury Aviation Fuel Depot | Hangar 8 (Albury Airport), Ogden PLACE | Other Petroleum | Regulation under CLM Act not required | -36.07178139 | 146.9530165 |
| ALBURY | SRA Land | 448 and 452 Young STREET | Unclassified | Regulation under CLM Act not required | -36.08438605 | 146.9235454 |
| ALBURY | Caltex Service Station | Dean Street, Corner Creek STREET | Service Station | Regulation under CLM Act not required | -36.07978937 | 146.9110825 |
| ALEXANDRIA | Former Mobil Service Station | 20 O'Riordan STREET | Service Station | Regulation under CLM Act not required | -33.9075539 | 151.2014811 |
| ALEXANDRIA | Caltex Alexandria Service Station | 133 Wyndham St, cnr McEvoy STREET | Service Station | Regulation under CLM Act not required | -33.90220927 | 151.2000425 |
| ALEXANDRIA | Former Cadbury Schweppes | 49-59 O'Riordan STREET | Other Industry | Contamination formerly regulated under the CLM Act | -33.91406619 | 151.195067 |
| ALEXANDRIA | Formerly Gas N Go Alexandria (fully redeveloped into residential apartment as of September 2016) | 10-20 Botany ROAD | Service Station | Regulation under CLM Act not required | -33.89536227 | 151.1987818 |
| ALEXANDRIA | Mascot Developments | 494-504 Gardeners ROAD | Other Industry | Regulation under CLM Act not required | -33.9198218 | 151.191282 |
| ALEXANDRIA | Alexandria GoGas | 562 Botany ROAD | Service Station | Regulation under CLM Act not required | -33.91577222 | 151.2000753 |
| ALEXANDRIA | Australian Refined Alloys | 202-212 Euston ROAD | Metal Industry | Regulation under CLM Act not required | -33.91505136 | 151.185872 |
| ALEXANDRIA | Alexandra Canal Sediments | Off Huntley STREET | Unclassified | Contamination currently regulated under CLM Act | -33.92204213 | 151.1770009 |
| ALEXANDRIA | Australia Post | 10-24 Ralph STREET | Other Industry | Contamination was addressed via the planning process (EP&A Act) | -33.91583041 | 151.197997 |
| ALEXANDRIA | Perry Park | 1B Maddox STREET | Landfill | Regulation under CLM Act not required | -33.90809949 | 151.1962945 |
| ALEXANDRIA | Alexandria Gardens | 146-156 Wyndham Street & 146-156 Botany ROAD | Unclassified | Regulation under CLM Act not required | -33.89956961 | 151.1997377 |
| ALEXANDRIA | Sydney Park | Sydney Park, Alexandria ROAD | Landfill | Contamination currently regulated under CLM Act | -33.91163421 | 151.1840827 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| ALEXANDRIA | Former Industrial Site (now Value Suites) | 16 O'Riordan STREET | Other Industry | Regulation under CLM Act not required | -33.9069796 | 151.201902 |
| ALEXANDRIA | The Gentry Alexandria - 31 to 41 William St. | 31-41 William STREET | Unclassified | Regulation under CLM Act not required | -33.91288033 | 151.1980106 |
| ALSTONVILLE | Caltex Service Station Alstonville | 73 Main STREET | Service Station | Regulation under CLM Act not required | -28.84115994 | 153.4388699 |
| AMBARVALE | Caltex Service Station | 37 Woodhouse DRIVE | Service Station | Regulation under CLM Act not required | -34.08438034 | 150.8019168 |
| ANNANDALE | 7-Eleven (former Mobil) Annandale Service Station | 198 Parramatta ROAD | Service Station | Regulation under CLM Act not required | -33.88706434 | 151.1741135 |
| ANNANDALE | Shell Coles Express Service Station | 124-126 Johnston STREET | Service Station | Regulation under CLM Act not required | -33.88085651 | 151.1704805 |
| APPIN | Elladale Creek Aqueduct Upper Canal | Macquariedale ROAD | Unclassified | Regulation under CLM Act not required | -34.18867067 | 150.7539597 |
| APPIN | West Cliff Colliery | Wedderburn ROAD | Other Petroleum | Regulation under CLM Act not required | -34.21970612 | 150.8217522 |
| ARDLETHAN | Landmark Fertiliser Storage Facility | 18 & 24-26 Ariah STREET | Chemical Industry | Regulation under CLM Act not required | -34.35696645 | 146.9007084 |
| ARGENTON | NSW Mines Rescue Services - Argenton | 533 Lake ROAD | Other Industry | Regulation under CLM Act not required | -32.93807208 | 151.6269664 |
| ARMIDALE | Former Mobil Depot | 132 Niagara STREET | Other Petroleum | Contamination formerly regulated under the CLM Act | -30.51115918 | 151.6490343 |
| ARMIDALE | Caltex Service Station | 146 Miller STREET | Service Station | Regulation under CLM Act not required | -30.51362759 | 151.6481123 |
| ARMIDALE | RTA land adjoining Martin Street estate | adjoining Martin STREET | Other Industry | Contamination formerly regulated under the CLM Act | -30.5045 | 151.6433 |
| ARMIDALE | Shell Service Station | 93 Marsh STREET | Service Station | Regulation under CLM Act not required | -30.51299824 | 151.6697557 |
| ARMIDALE | Parklands near the former gasworks | Beardy Street and Allingham STREET | Gasworks | Regulation under CLM Act not required | -30.51013465 | 151.6652722 |
| ARMIDALE | Gasworks and portion of Harris Park | Corner of Beardy Street and Allingham STREET | Gasworks | Contamination currently regulated under CLM Act | -30.51157406 | 151.6623073 |
| ARMIDALE | Martin Street Estate, Lot 3 | Lot 3 Martin STREET | Other Industry | Regulation under CLM Act not required | -30.5066659 | 151.6453692 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| ARMIDALE | Martin Street Estate | Martin STREET | Other Industry | Regulation under CLM Act not required | -30.50559024 | 151.6431854 |
| ARMIDALE | Caltex Armidale Girraween Service Station | 6-8 Queen Elizabeth DRIVE | Service Station | Regulation under CLM Act not required | -30.50348872 | 151.6510748 |
| ARMIDALE | Martin Street, Crown Land | Martin STREET | Other Industry | Contamination formerly regulated under the CLM Act | -30.50414076 | 151.6429516 |
| ARMIDALE | Former Shell Depot | 134 Niagara STREET | Other Petroleum | Regulation under CLM Act not required | -30.51180178 | 151.6488634 |
| ARMIDALE | Caltex Service Station | 144 Marsh STREET | Service Station | Regulation under CLM Act not required | -30.51709925 | 151.6675802 |
| ARMIDALE | Caltex North Hill Service Station | 2-4 Marsh STREET | Service Station | Regulation under CLM Act not required | -30.50320439 | 151.6727051 |
| ARMIDALE | Mobil Armidale Service Station and Former Depot | 10-12 McLennan STREET | Service Station | Regulation under CLM Act not required | -30.51107573 | 151.648242 |
| ARMIDALE | Caltex Service Station | 19/10541 New England HIGHWAY | Service Station | Regulation under CLM Act not required | -30.53210764 | 151.6160492 |
| ARMIDALE | Armidale Dumaresq Council Grafton Road Depot | 15-25 Grafton ROAD | Other Petroleum | Regulation under CLM Act not required | -30.52058076 | 151.6815261 |
| ARNCLIFFE | 7-Eleven Arncliffe | 28 Princes HIGHWAY | Service Station | Regulation under CLM Act not required | -33.93428397 | 151.1525438 |
| ARTARMON | 7-Eleven (former Mobil) Artarmon Service Station | 477 Pacific HIGHWAY | Service Station | Regulation under CLM Act not required | -33.81053826 | 151.1774248 |
| ASHBY | Ashby Dry Dock | via Clarence STREET | Other Industry | Contamination formerly regulated under the CLM Act | -29.44158377 | 153.1972304 |
| ASHFIELD | Vehicle Workshop | 445-449 Liverpool ROAD | Service Station | Regulation under CLM Act not required | -33.88826829 | 151.1167477 |
| ASQUITH | BP Service Station | 462 Pacific HIGHWAY | Service Station | Regulation under CLM Act not required | -33.68982678 | 151.106156 |
| ATTUNGA | Attunga Limestone Mine (Waste Oil Site) | Garthowen ROAD | Other Industry | Regulation under CLM Act not required | -30.92920627 | 150.8579435 |
| AUBURN | DIC Australia | 323 Chisholm ROAD | Other Industry | Regulation under CLM Act not required | -33.87228962 | 151.0157032 |
| AUBURN | Former Ajax chemical factory | 9 Short STREET | Other Industry | Contamination currently regulated under CLM Act | -33.83671601 | 151.0292071 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| AUBURN | Janyon | Manchester ROAD | Other Industry | Regulation under CLM Act not required | -33.84467826 | 151.020745 |
| AUBURN | Maintrain Facility - Sydney Trains Auburn | Manchester ROAD | Other Industry | Regulation under CLM Act not required | -33.84410947 | 151.0242502 |
| AUBURN | Department of Corrective Services land adjacent to the former Auburn Landfill | Jamieson STREET | Landfill | Contamination formerly regulated under the CLM Act | -33.82928257 | 151.0590653 |
| AWABA | Awaba Colliery | Wilton ROAD | Other Industry | Regulation under CLM Act not required | -33.02098186 | 151.5383612 |
| BALGOWLAH | BP Service Station | Cnr Sydney Road and Maretimo STREET | Service Station | Regulation under CLM Act not required | -33.79546175 | 151.2559309 |
| BALGOWLAH | Part of Manly Council Maintenance Depot | 8-10 Roseberry STREET | Other Petroleum | Regulation under CLM Act not required | -33.78928907 | 151.2679557 |
| BALGOWNIE | Fuel Power Plus | 99 Balgownie ROAD | Service Station | Contamination currently regulated under POEO Act | -34.38925632 | 150.8808544 |
| BALLINA | Former Mobil Service Station | 37-41 Cherry STREET | Service Station | Regulation under CLM Act not required | -28.86952673 | 153.5624436 |
| BALLINA | Ballina Shell | 273 River STREET | Service Station | Regulation under CLM Act not required | -28.86809272 | 153.5552789 |
| BALLINA | Woolworths Petrol | Kerr STREET | Service Station | Regulation under CLM Act not required | -28.85824461 | 153.5605439 |
| BALLINA | Ballina Mays Motors | River STREET | Other Petroleum | Regulation under CLM Act not required | -28.86935402 | 153.5585931 |
| BALRANALD | Caltex Service Station | Sturt HIGHWAY | Service Station | Regulation under CLM Act not required | -34.66747746 | 143.5662034 |
| BANKSIA | Woolworths Petrol Service Station Banksia | 314 Princes HIGHWAY | Service Station | Regulation under CLM Act not required | -33.94567308 | 151.1416884 |
| BANKSIA | Cooks Cove Development | Cooks Cove PARK | Landfill | Under assessment | -33.948464 | 151.153128 |
| BANKSMEADOW | Orica Botany Groundwater Project | 16-20 Beauchamp ROAD | Chemical Industry | Contamination currently regulated under CLM Act | -33.9552673 | 151.2151954 |
| BANKSMEADOW | Discovery Cove, Former Ampol Rail Terminal | 1801 Botany ROAD | Other Petroleum | Regulation being finalised | -33.96162178 | 151.2184122 |
| BANKSMEADOW | Caltex Terminal | 1-3 Penrhyn ROAD | Other Petroleum | Contamination currently regulated under POEO Act | -33.96335328 | 151.2171062 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| BANKSMEADOW | Orica Botany (Pre-2003 Regulation) | Port Feeder ROAD | Chemical Industry | Contamination currently regulated under CLM Act | -33.9516159 | 151.2195804 |
| BANKSMEADOW | Veolia Waste Transfer Terminal (former Keith Engineering site) | 34-36 McPherson STREET | Other Industry | Regulation under CLM Act not required | -33.95811039 | 151.2195225 |
| BANKSMEADOW | Orica Former Chlor Alkali Plant | Botany Industrial Park, off Denison STREET | Chemical Industry | Contamination currently regulated under CLM Act | -33.95664283 | 151.221685 |
| BANKSMEADOW | Former Pipeline | Corish CIRCLE | Other Petroleum | Regulation being finalised | -33.94705787 | 151.2209919 |
| BANKSMEADOW | Pacific National Rail Siding | 1 Beauchamp ROAD | Chemical Industry | Contamination currently regulated under CLM Act | -33.95757712 | 151.2204974 |
| BANKSMEADOW | Former Mobil Banksmeadow Terminal | Coal Pier ROAD | Other Petroleum | Regulation under CLM Act not required | -33.95405624 | 151.2142048 |
| BANKSMEADOW | Orica Car Park Waste Encapsulation | Corish CIRCLE | Landfill | Contamination formerly regulated under the POEO Act | -33.94703665 | 151.22083 |
| BANKSTOWN | 7-Eleven Service Station | 689 Henry Lawson DRIVE | Service Station | Regulation under CLM Act not required | -33.92749953 | 150.9804784 |
| BANORA POINT | Caltex Service Station | Corner Leisure Drive and Darlington DRIVE | Service Station | Regulation under CLM Act not required | -28.21390712 | 153.5417434 |
| BARGO | Tahmoor Colliery | Remembrance DRIVE | Other Industry | Regulation under CLM Act not required | -34.25090795 | 150.5793631 |
| BARMEDMAN | Caltex - Barmedman | Corner Watson Street and Star STREET | Other Petroleum | Regulation under CLM Act not required | -34.14351302 | 147.3824934 |
| BARRACK HEIGHTS | Caltex Service Station | 332-336 Shellharbour ROAD | Service Station | Regulation under CLM Act not required | -34.56489171 | 150.8597814 |
| BATEAU BAY | Former landfill | The Entrance ROAD | Landfill | Contamination currently regulated under CLM Act | -33.3938305 | 151.4699046 |
| BATEAU BAY | Woolworths Service Station Bateau Bay | 9 Bay Village ROAD | Service Station | Regulation under CLM Act not required | -33.37316432 | 151.4737125 |
| BATEHAVEN | Caltex Service Station | 264 Beach ROAD | Service Station | Regulation under CLM Act not required | -35.73255166 | 150.1997536 |
| BATEHAVEN | Coles Express Service Station Batehaven | 198 Beach ROAD | Service Station | Regulation under CLM Act not required | -35.72671807 | 150.1944931 |
| BATEMANS BAY | Caltex Service Station | 87-89 Princes HIGHWAY | Service Station | Regulation under CLM Act not required | -35.71940701 | 150.1762788 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| BATHURST | Shell Coles Express Service Station | (Cnr Stewart and Rocket Street) 298 Stewart STREET | Service Station | Regulation under CLM Act not required | -33.41910999 | 149.5677773 |
| BATHURST | Former Shell Depot Bathurst | 56 Bant STREET | Other Petroleum | Regulation under CLM Act not required | -33.43471575 | 149.5774595 |
| BATHURST | Bathurst Rail Fabrication Centre | 34 Alpha STREET | Other Industry | Regulation under CLM Act not required | -33.42805153 | 149.5829156 |
| BATHURST | Bathurst - Former Caltex Depot | 114 Howick STREET | Other Petroleum | Regulation under CLM Act not required | -33.42296963 | 149.5862574 |
| BATHURST | Caltex Bathurst Service Station | 53 Durham STREET | Service Station | Regulation under CLM Act not required | -33.41689545 | 149.5848527 |
| BATHURST | Former Police Station | Corner of William Street and Durham STREET | Other Petroleum | Contamination formerly regulated under the CLM Act | -33.41592424 | 149.5842233 |
| BATHURST | Former Mobil Depot | 1 Lambert STREET | Other Petroleum | Regulation under CLM Act not required | -33.42875534 | 149.5806344 |
| BATHURST | Crago Mill site | Piper STREET | Other Industry | Regulation under CLM Act not required | -33.42777602 | 149.5809428 |
| BATHURST | Former Mobil Depot | Lower Russell STREET | Other Petroleum | Regulation under CLM Act not required | -33.42497876 | 149.585128 |
| BATHURST | Shell Coles Express Bathurst Service Station | 59 Durham STREET | Service Station | Regulation under CLM Act not required | -33.41639415 | 149.5843243 |
| BATHURST | Former Gasworks | 71 Russell STREET | Gasworks | Contamination formerly regulated under the CLM Act | -33.42420302 | 149.5864517 |
| BATHURST | Devro Cattle Hide Processing Plant | 46 Vale ROAD | Other Industry | Regulation under CLM Act not required | -33.43926137 | 149.5803563 |
| BAULKHAM HILLS | Caltex Baulkham Hills Service Station | 117 Seven Hills ROAD | Service Station | Regulation under CLM Act not required | -33.76139872 | 150.9750767 |
| BAULKHAM HILLS | Caltex Service Station | 130 Seven Hills ROAD | Service Station | Regulation under CLM Act not required | -33.76180431 | 150.9746297 |
| BAULKHAM HILLS | Shell Coles Express Service Station | 363 Windsor ROAD | Service Station | Regulation under CLM Act not required | -33.7601819 | 150.9916224 |
| BEACON HILL | Caltex Service Station | 176 Warringah ROAD | Service Station | Contamination currently regulated under CLM Act | -33.75381485 | 151.2602617 |
| BEACON HILL | Former 7 - Eleven Service Station, Beacon Hill | 312 Warringah ROAD | Service Station | Regulation under CLM Act not required | -33.7515497 | 151.2469442 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| BEACONSFIELD | 63-85 Victoria St, Beaconsfield | 63-85 Victoria STREET | Other Industry | Regulation under CLM Act not required | -33.9102929 | 151.2016275 |
| BEGA | Coles Express (former Caltex) Service Station | 2-6 Swan (Corner Carp) STREET | Service Station | Regulation under CLM Act not required | -36.67388263 | 149.838163 |
| BEGA | Former BP Service Station | 100 - 102 Gipps STREET | Service Station | Regulation under CLM Act not required | -36.67563094 | 149.8433291 |
| BEGA | Former Bega Gasworks | 19-29 Upper STREET | Gasworks | Under preliminary investigation order | -36.67710613 | 149.8480253 |
| BEGA | Caltex Service Station | 36-40 Lagoon STREET | Service Station | Regulation under CLM Act not required | -36.66832965 | 149.8289048 |
| BEGA | Lands Adjoining the Former Bega Gasworks | Part of Upper, East, Gordon & Gloucester STREET | Gasworks | Under preliminary investigation order | -36.67710613 | 149.8480253 |
| BEGA | Spenco Site - owned by Bega Spotlight Property 2 Pty Ltd | 53-65 Bega Street STREET | Other Industry | Regulation under CLM Act not required | -36.67135539 | 149.8450828 |
| BELMONT | Coles Express Belmont Service Station | 502 Pacific HIGHWAY | Service Station | Regulation under CLM Act not required | -33.03317155 | 151.6605194 |
| BELMONT | Former Ampol Service Station | 467-469 Pacific HIGHWAY | Service Station | Regulation under CLM Act not required | -33.0299728 | 151.6613301 |
| BELMONT NORTH | Woolworths Service Station Belmont North | 399 Pacific HIGHWAY | Service Station | Regulation under CLM Act not required | -33.02454211 | 151.6634893 |
| BELMONT NORTH | Caltex Belmont North Service Station | 406 Pacific HIGHWAY | Service Station | Regulation under CLM Act not required | -33.02476876 | 151.6623655 |
| BELMONT NORTH | Belmont Bus Depot | 2 Floraville ROAD | Other Petroleum | Regulation under CLM Act not required | -33.02476269 | 151.6606657 |
| BELMORE | SRA Land | 348 Burwood ROAD | Unclassified | Regulation under CLM Act not required | -33.91753611 | 151.0859487 |
| BELMORE | 7-Eleven Service Station | 792-794 Canterbury ROAD | Service Station | Regulation under CLM Act not required | -33.92567992 | 151.0873469 |
| BELROSE | Glenrose Shopping Centre | 56-58 Glen STREET | Unclassified | Contamination currently regulated under CLM Act | -33.73917996 | 151.2101029 |
| BELROSE | Woolworths Petrol | 60 Glen STREET | Service Station | Regulation under CLM Act not required | -33.74009002 | 151.2091045 |
| BELROSE | Caltex Service Station | 157 Forest WAY | Service Station | Regulation under CLM Act not required | -33.7347675 | 151.2212004 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| BENNETTS GREEN | Former Windale Wastewater Treatment Works | 8 Templar PLACE | Other Industry | Regulation under CLM Act not required | -33.00317523 | 151.6936636 |
| BERESFIELD | BP Beresfield Truckstop | 2 Kinta Drive, corner John Renshaw DRIVE | Service Station | Regulation under CLM Act not required | -32.81122768 | 151.6393427 |
| BERESFIELD | Former Koppers Timber Treatment Site | 53 Weakleys DRIVE | Other Industry | Regulation under CLM Act not required | -32.79902937 | 151.6358846 |
| BERKELEY VALE | Former Berkeley Vale Service Station | 121-123 Lakedge AVENUE | Service Station | Regulation under CLM Act not required | -33.34899186 | 151.4423109 |
| BERKSHIRE PARK | Shell Coles Express Berkshire Park | 746 - 752 Richmond ROAD | Service Station | Regulation under CLM Act not required | -33.66508654 | 150.7990243 |
| BEROWRA | Caltex Berowra Service Station | 12-14 Berowra Waters ROAD | Service Station | Regulation under CLM Act not required | -33.6233827 | 151.1505554 |
| BEROWRA | 7-Eleven Berowra Service Station | 965-969 Pacific (Cnr Waratah Rd) HIGHWAY | Service Station | Regulation under CLM Act not required | -33.62673163 | 151.1479171 |
| BEROWRA | Shell Coles Express Berowra | 955 Pacific (Cnr Yallambee Rd) HIGHWAY | Service Station | Regulation under CLM Act not required | -33.62818015 | 151.1475736 |
| BEROWRA | 42 Berowra Waters Road | 42 Berowra Waters ROAD | Unclassified | Regulation under CLM Act not required | -33.6203211 | 151.1482454 |
| BERRIGAN | Caltex Service Station Berrigan | 155-165 Chanter STREET | Service Station | Regulation under CLM Act not required | -35.6557616 | 145.8015557 |
| BERRY | Berry Service Centre - Shell Branded | 88 Queen STREET | Service Station | Regulation under CLM Act not required | -34.77571634 | 150.6961713 |
| BERRY | BP branded service station Berry (Formerly Shell) | 75 Queen STREET | Service Station | Contamination currently regulated under POEO Act | -34.77500516 | 150.695167 |
| BEXLEY | 7-Eleven Bexley | 474 Forest ROAD | Service Station | Regulation under CLM Act not required | -33.95160096 | 151.1252355 |
| BEXLEY | 7-Eleven (former Mobil) Service Station Bexley | 613 Forest ROAD | Service Station | Regulation under CLM Act not required | -33.95539246 | 151.118447 |
| BILLINUDGEL | CSR Readymix | Mogo PLACE | Other Industry | Regulation under CLM Act not required | -28.50210255 | 153.5278161 |
| BILLINUDGEL | Billinudgel General Store | 2A Wilfred STREET | Service Station | Under preliminary investigation order | -28.50435 | 153.52701 |
| BLACKMANS FLAT | Mount Piper Extension Development Site | 2847 Boulder ROAD | Other Industry | Regulation under CLM Act not required | -33.35619968 | 150.0279881 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| BLACKMANS FLAT | Western Coal Services (former Lamberts Gully Mine) | Castlereagh HIGHWAY | Other Industry | Regulation under CLM Act not required | -33.36713827 | 150.0483236 |
| BLACKTOWN | Former Caltex Service Station | 131 Richmond ROAD | Service Station | Regulation under CLM Act not required | -33.75866104 | 150.8962614 |
| BLACKTOWN | Valspar Blacktown | 4 Steel STREET | Chemical Industry | Regulation under CLM Act not required | -33.75425018 | 150.9127714 |
| BLACKTOWN | Land at Reservoir Road | Reservoir ROAD | Unclassified | Regulation under CLM Act not required | -33.79119448 | 150.8967838 |
| BLACKTOWN | 7-Eleven Service Station | 60 Walters ROAD | Service Station | Regulation under CLM Act not required | -33.77599783 | 150.8948926 |
| BLAKEHURST | Woolworths Service Station Blakehurst | 390 Princes HIGHWAY | Service Station | Contamination currently regulated under CLM Act | -33.990197 | 151.11361 |
| BLAKEHURST | The Bay Nursing Home | 392 & 394 Princes HIGHWAY | Service Station | Under assessment | -33.99030465 | 151.1140293 |
| BLAXLAND | 7-Eleven (former Mobil) Service Station | 137 Great Western HIGHWAY | Service Station | Regulation under CLM Act not required | -33.74627 | 150.6137669 |
| BOAMBEE | Lindsay Bros transport depot site | 542 Pacific HIGHWAY | Other Petroleum | Regulation under CLM Act not required | -30.33106848 | 153.0802985 |
| BOAMBEE | BP-branded (former Mobil) Boambee Service Station | 601 Pacific HIGHWAY | Service Station | Regulation under CLM Act not required | -30.33544287 | 153.0817266 |
| BOBS FARM | Bob's Farm | 15 Fenningham Island ROAD | Other Industry | Regulation under CLM Act not required | -32.74867207 | 152.0316217 |
| BOGGABILLA | Former Caltex Service Station | 90 Simpson Street, corner Newell HIGHWAY | Service Station | Regulation under CLM Act not required | -28.60654029 | 150.3571056 |
| BOGGABILLA | Lowes (Former Mobil) Depot | Newell HIGHWAY | Other Petroleum | Regulation under CLM Act not required | -28.61023985 | 150.3529156 |
| BOMADERRY | Caltex Service Station | 341 Princes HIGHWAY | Service Station | Regulation under CLM Act not required | -34.84561952 | 150.5946978 |
| BOMADERRY | Caltex Service Station Bomaderry | 246 Princes HIGHWAY | Service Station | Regulation under CLM Act not required | -34.83833824 | 150.5958799 |
| BOMADERRY | Former Mobil Emoleum Depot | 7 Victa WAY | Other Petroleum | Regulation under CLM Act not required | -34.84454618 | 150.6139462 |
| BOMADERRY | Former Shell Depot | 44 Railway STREET | Other Petroleum | Regulation under CLM Act not required | -34.85193621 | 150.6117038 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| BOMADERRY | SRA Land | Lot 2 Meroo STREET | Unclassified | Regulation under CLM Act not required | -34.85314813 | 150.6099573 |
| BOMADERRY | Bomaderry Works Depot | 10 McIntyre WAY | Other Petroleum | Regulation under CLM Act not required | -34.84576748 | 150.6131411 |
| BOMADERRY | Commercial Land | 320 Princes HIGHWAY | Other Industry | Contamination currently regulated under CLM Act | -34.84424073 | 150.5958149 |
| BOMBALA | Caltex Service Station Bombala | 159-161 Maybe STREET | Service Station | Regulation under CLM Act not required | -36.91234945 | 149.2374622 |
| BOMBALA | Former Bright Street Timber Mill | Bright STREET | Other Industry | Regulation under CLM Act not required | -36.91547645 | 149.2302454 |
| BOMBALA | Caltex Bombala Service Station | High Street corner Stephen STREET | Service Station | Regulation under CLM Act not required | -36.90447935 | 149.241292 |
| BOMBALA | Prime Pine site | Sandy LANE | Other Industry | Regulation under CLM Act not required | -36.9315425 | 149.2110959 |
| BOMEN | Caltex Terminal | 34 Lewington STREET | Other Petroleum | Regulation under CLM Act not required | -35.0700202 | 147.4121955 |
| BONDI | BP-branded Service Station | 185 Bondi ROAD | Service Station | Regulation under CLM Act not required | -33.89432208 | 151.2647671 |
| BONDI | Caltex Service Station Bondi | 51 Bondi ROAD | Service Station | Regulation under CLM Act not required | -33.8936307 | 151.260001 |
| BONDI JUNCTION | Waverley Bus Depot | 1-15 Oxford STREET | Other Industry | Regulation under CLM Act not required | -33.89165341 | 151.2421246 |
| BONNY HILLS | Bonny View Store | 923 Ocean DRIVE | Service Station | Regulation under CLM Act not required | -31.59075636 | 152.8392935 |
| BONNYRIGG | Metro (Formerly United & AP SAVER) Service Station Bonnyrigg | 709 Cabramatta Road West ROAD | Service Station | Regulation under CLM Act not required | -33.893058 | 150.892476 |
| BONNYRIGG HEIGHTS | BP-Branded Service Station Bonnyrigg | 451 North Liverpool ROAD | Service Station | Regulation under CLM Act not required | -33.89416327 | 150.8578378 |
| BOOLAROO | Cardiff West Estate - Pasminco Cockle Creek | Adjacent to PCC Smelter at 13A Main ROAD | Metal Industry | Regulation under CLM Act not required | -32.93950137 | 151.6349183 |
| BOOLAROO | Cockle Creek and Cockle Bay Sediments | Off Creek Reserve ROAD | Metal Industry | Contamination currently regulated under CLM Act | -32.96079541 | 151.6141327 |
| BOOLAROO | Pasminco Cockle Creek Smelter | Lake ROAD | Metal Industry | Contamination currently regulated under CLM Act | -32.94434593 | 151.6307345 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| BOOLAROO | Incitec Pivot | 13 Main STREET | Other Industry | Contamination formerly regulated under the CLM Act | -32.94803538 | 151.6302187 |
| BOOLAROO | Bunnings Site - Pasminco Cockle Creek | 13a Main ROAD | Metal Industry | Contamination formerly regulated under the CLM Act | -32.94364503 | 151.6252316 |
| BOOLAROO | Part Lot 2 DP1127713 (proposed Lot G) - Pasminco Cockle Creek Smelter site | 13a Main ROAD | Metal Industry | Contamination formerly regulated under the CLM Act | -32.94364503 | 151.6252316 |
| BOOLAROO | Lot 600 DP1228699 (formerly Part Lot 2 DP1127713 & proposed 'Lot D') - Pasminco | Main ROAD | Metal Industry | Contamination formerly regulated under the CLM Act | -32.944397 | 151.626397 |
| BOOROWA | Former Mobil Depot | 14-16 Brial STREET | Other Petroleum | Regulation under CLM Act not required | -34.43673234 | 148.7300821 |
| BOOROWA | Mobil Service Station | 63-69 Marsden STREET | Service Station | Contamination formerly regulated under the CLM Act | -34.44157331 | 148.7162391 |
| BOTANY | Former Aerosols of Australia | 1617 Botany ROAD | Chemical Industry | Regulation under CLM Act not required | -33.9529386 | 151.2037468 |
| BOTANY | Nuplex Resins | 49-61 Stephen ROAD | Chemical Industry | Contamination currently regulated under CLM Act | -33.952588 | 151.21101 |
| BOTANY | Former Tannery | 2 Daniel STREET | Other Industry | Regulation under CLM Act not required | -33.94126194 | 151.1991087 |
| BOTANY | Botany, Underwood | 14a Underwood AVENUE | Unclassified | Contamination being managed via the planning process (EP&A Act) | -33.94508532 | 151.1947626 |
| BOTANY | Roads and Maritime Service | 5 - 9 Lord STREET | Other Industry | Regulation under CLM Act not required | -33.94100279 | 151.1968763 |
| BOTANY | Former Industrial Site | 28 Folkestone PARADE | Unclassified | Contamination being managed via the planning process (EP&A Act) | -33.95187539 | 151.1960537 |
| BOURKE | Caltex Service Station | 82-86 Anson STREET | Service Station | Regulation under CLM Act not required | -30.09500388 | 145.9414388 |
| BOURKE | Former Shell Bourke Depot | 94-106 Anson STREET | Service Station | Regulation under CLM Act not required | -30.09548497 | 145.9436745 |
| BOWENFELS | Bowenfels Field Support Centre | 9-13 Cooerwull ROAD | Other Petroleum | Regulation under CLM Act not required | -33.47514572 | 150.1323899 |
| BOWRAL | Shell Coles Express Bowral Service Station | 430 Bong Bong STREET | Service Station | Regulation under CLM Act not required | -34.48269596 | 150.417389 |
| BOWRAL | Former Gasworks | Merrigang STREET | Gasworks | Contamination currently regulated under CLM Act | -34.4783957 | 150.4255053 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| BOX HILL | Former Waste Management Facility | 25 Terry ROAD | Landfill | Regulation under CLM Act not required | -33.65559259 | 150.8977986 |
| BOX HILL | Former Poultry Farm | 27-33 Boundary ROAD | Other Industry | Regulation under CLM Act not required | -33.64866563 | 150.8815467 |
| BOX HILL | Former Poultry Farm | 19-25 Boundary ROAD | Other Industry | Under assessment | -33.65087576 | 150.88063 |
| BRANXTON | Former Service Station Branxton | Part of 70 Maitland STREET | Service Station | Contamination currently regulated under CLM Act | -32.65647051 | 151.3516199 |
| BRANXTON | Branxton Wastewater Treatment Works | 2151 New England HIGHWAY | Other Industry | Regulation under CLM Act not required | -32.66069944 | 151.3625572 |
| BREWARRINA | Dowell's Fuel | 39 Doyle STREET | Service Station | Regulation under CLM Act not required | -29.96152786 | 146.8612561 |
| BRIGHTON-LE-SANDS | Shell Service Station Brighton Le Sands & adjacent land | 2 General Holmes DRIVE | Service Station | Contamination formerly regulated under the CLM Act | -33.9579214 | 151.1578665 |
| BRIGHTON-LE-SANDS | Cook Park | General Holmes DRIVE | Service Station | Contamination formerly regulated under the CLM Act | -33.9581072 | 151.1579572 |
| BROADMEADOW | Former Industrial Site | 16 Broadmeadow ROAD | Service Station | Regulation under CLM Act not required | -32.91444096 | 151.7300112 |
| BROADMEADOW | Nineways Broadmeadow Coles Express SS | Corner Brunker Road and Lambton ROAD | Service Station | Regulation under CLM Act not required | -32.92511185 | 151.7364247 |
| BROKEN HEAD | South Byron Sewage Treatment Works | Broken Head ROAD | Other Industry | Regulation under CLM Act not required | -28.67233626 | 153.6148974 |
| BROKEN HILL | Former Caltex Depot | 3 Kanandah ROAD | Service Station | Regulation under CLM Act not required | -31.98341823 | 141.4332211 |
| BROKEN HILL | Former Caltex Service Station | 167-173 Argent STREET | Service Station | Regulation under CLM Act not required | -31.96066663 | 141.4624175 |
| BROKEN HILL | Caltex Service Station | 535 Argent STREET | Service Station | Regulation under CLM Act not required | -31.95311924 | 141.4745274 |
| BROKEN HILL | Tasco Petroleum (Former Mobil) Depot | 5 Kanandah ROAD | Other Petroleum | Regulation under CLM Act not required | -31.9843986 | 141.4329127 |
| BROKEN HILL | Former Mobil Aviation Refuelling Facility, Broken Hill Airport | Airport ROAD | Other Petroleum | Regulation under CLM Act not required | -31.99928312 | 141.4685759 |
| BROKEN HILL | Caltex Service Station | 73-87 Oxide STREET | Service Station | Contamination formerly regulated under the CLM Act | -31.95519591 | 141.4658647 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| BROKEN HILL | Former Mobil Depot | Corner Of Talc Street and Gossan STREET | Other Petroleum | Regulation under CLM Act not required | -31.96018102 | 141.4514752 |
| BROKEN HILL | Former Gasworks | Cornish STREET | Gasworks | Contamination formerly regulated under the CLM Act | -31.96330562 | 141.4470611 |
| BROOKLYN | Former Oyster Farm | 139 Brooklyn (Off Government) ROAD | Unclassified | Regulation under CLM Act not required | -33.54716867 | 151.2229744 |
| BROOKVALE | Coles Express Service Station Brookvale | 198 Harbord ROAD | Service Station | Regulation under CLM Act not required | -33.76332299 | 151.2794028 |
| BROOKVALE | Woolworths Petrol Brookvale | 756 Pittwater ROAD | Service Station | Regulation under CLM Act not required | -33.76170587 | 151.2762411 |
| BROOKVALE | Caltex Service Station Brookvale | 740-742 Pittwater ROAD | Service Station | Regulation under CLM Act not required | -33.76146721 | 151.2745358 |
| BROOKVALE | Harrison Manufacturing | 75 Old Pittwater ROAD | Other Industry | Regulation under CLM Act not required | -33.76497282 | 151.2637961 |
| BROOKVALE | Brookvale Bus Depot | 630-636 Pittwater ROAD | Other Petroleum | Regulation under CLM Act not required | -33.76641698 | 151.2705659 |
| BROOKVALE | Warringah Mall | Cnr Condamine Street, Old Pittwater Rd & Cross STREET | Other Industry | Regulation under CLM Act not required | -33.76729923 | 151.2657272 |
| BROOKVALE | Littles Dry Cleaning | 123 Old Pittwater ROAD | Other Industry | Regulation under CLM Act not required | -33.76759121 | 151.2625932 |
| BROWNSVILLE | Caltex Service Station | 342 Kanahooka ROAD | Service Station | Regulation under CLM Act not required | -34.48591734 | 150.8064373 |
| BRUNSWICK HEADS | Caltex Service Station | 5 Tweed STREET | Service Station | Regulation under CLM Act not required | -28.5381619 | 153.5487135 |
| BUDGEWOI | Colongra Power Station | Off Scenic DRIVE | Other Industry | Under assessment | -33.21463137 | 151.5529338 |
| BULAHDELAH | Caltex Service Station | 8 Red Gum Road, Corner Mahogany STREET | Service Station | Regulation under CLM Act not required | -32.39837094 | 152.2106015 |
| BULAHDELAH | Former Caltex Service Station | 53-59 Bulahdelah WAY | Service Station | Regulation under CLM Act not required | -32.40721638 | 152.2110291 |
| BULAHDELAH | BP-branded (former Mobil) Service Station | 73-75 Bulahdelah WAY | Service Station | Regulation under CLM Act not required | -32.40971018 | 152.2105785 |
| BULLABURRA | Former Burmah Bullaburra Service Station | 367 - 369 Great Western HIGHWAY | Service Station | Regulation under CLM Act not required | -33.72482995 | 150.4124537 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| BULLI | Scrap Yard | 7 Molloy STREET | Other Industry | Contamination formerly regulated under the CLM Act | -34.33663195 | 150.9131154 |
| BULLI | Bulli Brickworks | Quilkey PLACE | Other Industry | Regulation under CLM Act not required | -34.33263113 | 150.9086247 |
| BUNGALORA | Former landfill area | Part of 840 Terranora ROAD | Other Industry | Regulation under CLM Act not required | -28.245029 | 153.476206 |
| BUNGENDORE | Former Timber Treatment Plant | Corner King Street and Butmaroo STREET | Other Industry | Contamination formerly regulated under the CLM Act | -35.26151273 | 149.4434907 |
| BURONGA | Caltex Service Station | Sturt Hwy Cnr Silver City HIGHWAY | Service Station | Regulation under CLM Act not required | -34.17056496 | 142.1813847 |
| BURWOOD | Burwood STA Depot | Cnr Shaftesbury and Parramatta ROADS | Other Industry | Contamination formerly regulated under the CLM Act | -33.86982934 | 151.1089057 |
| BYRON BAY | Residential Development | Lot 15 Seaview STREET | Unclassified | Regulation under CLM Act not required | -28.65214464 | 153.6165573 |
| BYRON BAY | Butler Street Reserve Byron Bay | Butler STREET | Landfill | Under preliminary investigation order | -28.6434329 | 153.6101099 |
| CABARITA | Dulux (Orica Australia) | Cabarita ROAD | Chemical Industry | Contamination formerly regulated under the CLM Act | -33.84643972 | 151.1157115 |
| CABARITA | Wellcome Soil Containment Cells Cabarita | 47 and 48 Phillips STREET | Other Industry | Ongoing maintenance required to manage residual contamination (CLM Act) | -33.85250251 | 151.1176366 |
| CABRAMATTA | Caltex Service Station Cabramatta | 168 John STREET | Service Station | Regulation under CLM Act not required | -33.89422314 | 150.9279279 |
| CABRAMATTA | Cabramatta Creek | 17 A and 19A Liverpool Street STREET | Unclassified | Regulation under CLM Act not required | -33.90282 | 150.941563 |
| CABRAMATTA WEST | BP Lansvale | 115-119 Hume HIGHWAY | Service Station | Under assessment | -33.894709 | 150.960511 |
| CALGA | Former service station | 101 Peats Ridge ROAD | Service Station | Contamination formerly regulated under the CLM Act | -33.37592138 | 151.2254951 |
| CALLALA BEACH | Callala Beach General Store | (formerly 1 Quay Rd) 114A Quay ROAD | Service Station | Regulation under CLM Act not required | -35.0101817 | 150.6964322 |
| CAMBRIDGE GARDENS | Caltex Cambridge Park | 1 Boomerang PLACE | Service Station | Regulation under CLM Act not required | -33.74068794 | 150.717174 |
| CAMDEN | Camden High School (former) | John STREET | Gasworks | Regulation under CLM Act not required | -34.05114079 | 150.6951285 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| CAMDEN | Caltex Camden Service Station | 21 Barsden STREET | Service Station | Regulation under CLM Act not required | -34.05808413 | 150.6914744 |
| CAMDEN SOUTH | Coles Express Service Station Camden South | 273 Old Hume HIGHWAY | Service Station | Regulation under CLM Act not required | -34.08660995 | 150.6945444 |
| CAMELLIA | Hymix Concrete | 14 Grand AVENUE | Metal Industry | Contamination currently regulated under CLM Act | -33.82243454 | 151.044789 |
| CAMELLIA | Mauri Foods | 15 Grand AVENUE | Other Industry | Regulation being finalised | -33.81996985 | 151.0335725 |
| CAMELLIA | James Hardie Factory (former, eastern portion) | 1 Grand AVENUE | Other Industry | Ongoing maintenance required to manage residual contamination (CLM Act) | -33.8182384 | 151.0261019 |
| CAMELLIA | Bitumen Manufacturer | 12 Grand AVENUE | Other Industry | Contamination currently regulated under CLM Act | -33.82189695 | 151.0429251 |
| CAMELLIA | Hambear | 14 Thackeray STREET | Metal Industry | Regulation under CLM Act not required | -33.81920482 | 151.0419394 |
| CAMELLIA | Former Asciano Properties | 39 Grand AVENUE | Chemical Industry | Contamination currently regulated under CLM Act | -33.82056014 | 151.0443331 |
| CAMELLIA | Railway Land | 27 Grand AVENUE | Other Industry | Regulation under CLM Act not required | -33.81910822 | 151.0382483 |
| CAMELLIA | Wrigg | 13 Grand AVENUE | Metal Industry | Under preliminary investigation order | -33.81971361 | 151.0321525 |
| CAMELLIA | Former Akzo Nobel site | 6 Grand AVENUE | Chemical Industry | Contamination currently regulated under CLM Act | -33.82238826 | 151.0319264 |
| CAMELLIA | Former Shell Clyde Refinery | Durham STREET | Other Industry | Contamination currently regulated under POEO Act | -33.82804924 | 151.0378966 |
| CAMELLIA | Council Reserve | 11B Grand AVENUE | Metal Industry | Regulation under CLM Act not required | -33.81850502 | 151.0302425 |
| CAMELLIA | Veolia | 37 Grand AVENUE | Chemical Industry | Contamination currently regulated under CLM Act | -33.81980027 | 151.0430689 |
| CAMELLIA | Sydney Water | 41 Grand AVENUE | Chemical Industry | Contamination formerly regulated under the CLM Act | -33.8217493 | 151.0453367 |
| CAMELLIA | Maritime Services Board | 33A Grand AVENUE | Metal Industry | Regulation under CLM Act not required | -33.81836086 | 151.0401249 |
| CAMMERAY | Tunks Park | Brothers AVENUE | Landfill | Contamination formerly regulated under the CLM Act | -33.81734704 | 151.2113338 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| CAMMERAY | Coles Express Cammeray | 477-483 Miller STREET | Service Station | Regulation under CLM Act not required | -33.82141124 | 151.2108658 |
| CAMPBELLTOWN | Mobil Service Station | 96-98 Queen STREET | Service Station | Regulation under CLM Act not required | -34.06407588 | 150.8170082 |
| CAMPBELLTOWN | BP Macarthur Service Station | Cnr Blaxland ROAD and Campbelltown ROAD | Service Station | Regulation under CLM Act not required | -34.05312872 | 150.8234349 |
| CAMPBELLTOWN | Former vehicle wrecking yard | 38 Blaxland ROAD | Other Industry | Regulation under CLM Act not required | -34.06055735 | 150.8130598 |
| CAMPERDOWN | Former Gee Graphics | 27 Church STREET | Other Industry | Regulation under CLM Act not required | -33.88737747 | 151.1773616 |
| CAMPERDOWN | O'Dea Reserve | Salisbury LANE | Landfill | Contamination formerly regulated under the CLM Act | -33.89072786 | 151.1736948 |
| CAMPERDOWN | The Spruce | 12-14 Marsden STREET | Other Industry | Regulation under CLM Act not required | -33.88720632 | 151.1784514 |
| CAMPSIE | Budget Petroleum and adjacent property | 403 Canterbury Road and 1 Una STREET | Service Station | Contamination currently regulated under CLM Act | -33.91605617 | 151.1086596 |
| CAMPSIE | Former Sunbeam factory | 60 Charlotte STREET | Other Industry | Contamination formerly regulated under the CLM Act | -33.92254225 | 151.1025796 |
| CANLEY HEIGHTS | Former Caltex Canley Heights | 368 Canley Vale ROAD | Service Station | Regulation under CLM Act not required | -33.88271081 | 150.9154176 |
| CANLEY HEIGHTS | Caltex Canley Heights Service Station | 280-286 Canley Vale ROAD | Service Station | Regulation under CLM Act not required | -33.88393501 | 150.9241656 |
| CANLEY VALE | Coles Express Lansvale | 99 Hume HIGHWAY | Service Station | Regulation under CLM Act not required | -33.89295753 | 150.9606136 |
| CANLEY VALE | Former Mobil Service Station | 96 Canley Vale ROAD | Service Station | Regulation under CLM Act not required | -33.88591573 | 150.9369801 |
| CANOWINDRA | BP-branded Jasbe Service Station | 76 Rodd STREET | Service Station | Regulation under CLM Act not required | -33.56131773 | 148.6682805 |
| CANTERBURY | Metro Petroleum Service Station | 13-19 Canterbury ROAD | Service Station | Contamination currently regulated under CLM Act | -33.90783455 | 151.125207 |
| CARDIFF | 7-Eleven Service Station | 399 Main ROAD | Service Station | Regulation under CLM Act not required | -32.93391137 | 151.6562111 |
| CARDIFF | Former Caltex Service Station | 367 Main ROAD | Service Station | Regulation under CLM Act not required | -32.93761223 | 151.6577781 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| CARDIFF | Maneela Oval | Main ROAD | Other Industry | Regulation under CLM Act not required | -32.93018443 | 151.6435559 |
| CARDIFF | Former Mobil Depot | 7 Ranton STREET | Other Petroleum | Regulation under CLM Act not required | -32.94516764 | 151.6470387 |
| CARDIFF | BP Service Station (Reliance Petroleum) | Corner Sturt and Main ROADS | Service Station | Regulation under CLM Act not required | -32.93792229 | 151.6569905 |
| CARDIFF | Woolworths (former Mobil) Cardiff Service Station | 43 Macquarie ROAD | Service Station | Regulation under CLM Act not required | -32.94118246 | 151.6578195 |
| CARINGBAH | Adjacent to Spirent Australia | 101-103 Cawarra ROAD | Other Industry | Contamination formerly regulated under the CLM Act | -34.03360747 | 151.1245577 |
| CARINGBAH | Former Consumer Health Products Manufacturer | 32-40 Cawarra ROAD | Other Industry | Regulation under CLM Act not required | -34.03024369 | 151.1277755 |
| CARINGBAH | Caltex Lilli Pilli Service Station | 477-481 Port Hacking ROAD | Service Station | Regulation under CLM Act not required | -34.05243807 | 151.1216353 |
| CARINGBAH | 7-Eleven Service Station | 367 The KINGSWAY | Service Station | Regulation under CLM Act not required | -34.03948677 | 151.1203268 |
| CARINGBAH | Spirent Australia | 105 Cawarra ROAD | Other Industry | Contamination formerly regulated under the CLM Act | -34.03425343 | 151.1245092 |
| CARINGBAH | BP Caringbah | 54 Captain Cook DRIVE | Service Station | Under assessment | -34.032652 | 151.125487 |
| CARLINGFORD | Caltex Service Station Carlingford | 131 Pennant Hills ROAD | Service Station | Regulation under CLM Act not required | -33.78762398 | 151.0279422 |
| CARLINGFORD | Caltex Service Station | 797 Pennant Hills ROAD | Service Station | Regulation under CLM Act not required | -33.7757819 | 151.0516532 |
| CARLTON | Shell Coles Express Service Station | 277 Princes HIGHWAY | Service Station | Regulation under CLM Act not required | -33.9748579 | 151.1272732 |
| CARRINGTON | Commercial Metals Company (CMC) Australia Pty Ltd | 117-121 Bourke STREET | Other Industry | Regulation under CLM Act not required | -32.9148832 | 151.7677193 |
| CARRINGTON | Carrington redevelopment site | 11 Howden STREET | Other Industry | Regulation under CLM Act not required | -32.91309509 | 151.7625341 |
| CARRINGTON | Forgacs Dockyard | 81 Denison STREET | Other Industry | Regulation under CLM Act not required | -32.9207441 | 151.764816 |
| CARRINGTON | NAT vacant land | Bourke STREET | Unclassified | Regulation under CLM Act not required | -32.91276029 | 151.7685894 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| CARRINGTON | Dyke Point Containment Cell | Dyke ROAD | Other Industry | Regulation under CLM Act not required | -32.91763422 | 151.7727101 |
| CARRINGTON | Carrington Coal Tar Pavements | Bourke Street to Dyke ROAD | Other Industry | Regulation under CLM Act not required | -32.91441348 | 151.770271 |
| CARRINGTON | Pasminco Ship Loader | Dyke Berth 2 (off Bourke Street) OTHER | Metal Industry | Regulation under CLM Act not required | -32.9148698 | 151.7716837 |
| CARSS PARK | Vacant Property | 334 Princes HIGHWAY | Other Industry | Regulation under CLM Act not required | -33.98628486 | 151.1133908 |
| CARWELL | Cement Australia Carwell Creek Quarries | Quarry ROAD | Other Industry | Regulation under CLM Act not required | -32.85413742 | 149.923172 |
| CASINO | Caltex Service Station and Depot Casino | 28 & 32 Dyraaba STREET | Service Station | Regulation under CLM Act not required | -28.85488567 | 153.044806 |
| CASINO | Caltex Service Station | 96 Centre STREET | Service Station | Regulation under CLM Act not required | -28.86539567 | 153.0450654 |
| CASINO | Former Gasworks | 134-136 North STREET | Gasworks | Regulation under CLM Act not required | -28.86080712 | 153.0526043 |
| CASINO | Woolworths Service Station Casino | 130 Canterbury STREET | Service Station | Regulation under CLM Act not required | -28.86231341 | 153.0464642 |
| CASINO | 18 Beith Street, Casino | 18 Beith STREET | Unclassified | Regulation under CLM Act not required | -28.84951426 | 153.0446585 |
| CASINO | Corner Store | 30 Barker STREET | Service Station | Regulation under CLM Act not required | -28.86316792 | 153.0389124 |
| CASINO | Casino Roadhouse | 86 Johnston STREET | Service Station | Under assessment | -28.85960698 | 153.0562429 |
| CASULA | Caltex Casula Service Station | 646 Hume HIGHWAY | Service Station | Regulation under CLM Act not required | -33.95641262 | 150.8934783 |
| CATHERINE HILL BAY | Catherine Hill Bay Coal Handling and Preparation Plant | 1A Keene STREET | Other Industry | Regulation under CLM Act not required | -33.16120556 | 151.6302456 |
| CESSNOCK | Caltex Cessnock Service Station | 103-105 Wollombi (Cnr James Street) ROAD | Service Station | Regulation under CLM Act not required | -32.83936243 | 151.3430078 |
| CESSNOCK | Former Mobil Service Station | 102 Wollombi ROAD | Service Station | Regulation under CLM Act not required | -32.83844074 | 151.3436022 |
| CESSNOCK | Former Service Station | 2-4 Allandale ROAD | Service Station | Regulation under CLM Act not required | -32.83118911 | 151.3560677 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| CHARBON | Charbon Colliery | Charbon ROAD | Other Industry | Regulation under CLM Act not required | -32.92390131 | 149.9839098 |
| CHARLESTOWN | 7-Eleven Charlestown | 273 Charlestown ROAD | Service Station | Under assessment | -32.95802555 | 151.6897931 |
| CHARLESTOWN | Caltex Service Station | 81 Pacific HIGHWAY | Service Station | Contamination currently regulated under CLM Act | -32.96708479 | 151.6955919 |
| CHARLESTOWN | Caltex Woolworths (Former BP) | 91-93 Pacific HIGHWAY | Service Station | Contamination formerly regulated under the CLM Act | -32.96633569 | 151.6959051 |
| CHARLESTOWN | Ausgrid Powell Street Depot | 8 Powell STREET | Other Industry | Regulation under CLM Act not required | -32.95912375 | 151.6944136 |
| CHARMHAVEN | Caltex Charmhaven Service Station | 13-15 Pacific HIGHWAY | Service Station | Regulation under CLM Act not required | -33.21655768 | 151.5091452 |
| CHATSWOOD | Former Caltex Chatswood Service Station | 607 Pacific HIGHWAY | Service Station | Contamination formerly regulated under the CLM Act | -33.80396472 | 151.1795766 |
| CHATSWOOD | Woolworths Chatswood | 364-366 Eastern Valley WAY | Service Station | Regulation under CLM Act not required | -33.78667419 | 151.2010828 |
| CHATSWOOD | Caltex Service Station Chatswood | 572 Pacific HIGHWAY | Service Station | Regulation under CLM Act not required | -33.80381271 | 151.1789656 |
| CHATSWOOD | Auto Repairs | 2 Devonshire STREET | Service Station | Regulation under CLM Act not required | -33.8015482 | 151.1859632 |
| CHATSWOOD | Coles Express Service Station Chatswood | 877-879 Pacific HIGHWAY | Service Station | Regulation under CLM Act not required | -33.79182176 | 151.1804867 |
| CHATSWOOD WEST | Chatswood Toyota | 728 Pacific HIGHWAY | Service Station | Contamination formerly regulated under the CLM Act | -33.79654247 | 151.1776136 |
| CHERRYBROOK | Caltex Service Station | 67 Shepherds DRIVE | Service Station | Regulation under CLM Act not required | -33.72069183 | 151.0451415 |
| CHESTER HILL | Former Orica, Chester Hill | 127 Orchard ROAD | Chemical Industry | Contamination formerly regulated under the CLM Act | -33.8869823 | 150.9952873 |
| CHIPPENDALE | Frasers Development | Wellington STREET | Chemical Industry | Under preliminary investigation order | -33.88669108 | 151.2015805 |
| CHIPPING NORTON | Former Solchem (Mobil) Depot Chipping Norton | 49-51 Riverside ROAD | Other Petroleum | Regulation under CLM Act not required | -33.91621314 | 150.9696948 |
| CHIPPING NORTON | Former ACR | 85-107 Alfred STREET | Chemical Industry | Contamination currently regulated under CLM Act | -33.92226795 | 150.9586496 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| CHISWICK | Former Sydney Wiremills (BHP) site | Blackwall Point ROAD | Other Industry | Regulation under CLM Act not required | -33.85131849 | 151.1369131 |
| CHITTAWAY BAY | Former Caltex Chittaway Point | 100 Chittaway ROAD | Service Station | Regulation under CLM Act not required | -33.32707555 | 151.4293546 |
| CHULLORA | Chullora Railway Workshops | Worth STREET | Other Industry | Regulation under CLM Act not required | -33.88639388 | 151.0598201 |
| CLARENCE | Clarence Colliery | Chifley ROAD | Other Industry | Regulation under CLM Act not required | -33.46450217 | 150.2522729 |
| CLARENDON | Coles Express Clarendon Service Station | 244 Hawkesbury Valley WAY | Service Station | Regulation under CLM Act not required | -33.6083729 | 150.7890956 |
| CLEARFIELD | Former Pamplings Dip Site | Off Clearfield ROAD | Cattle Dip | Regulation under CLM Act not required | -29.16287185 | 152.882974 |
| CLYBUCCA | BP Service Station | 2171 Pacific HIGHWAY | Service Station | Regulation under CLM Act not required | -30.93845014 | 152.9422791 |
| CLYDE | 7-Eleven Clyde | 3 Parramatta (Cnr Harbord Street) ROAD | Service Station | Regulation under CLM Act not required | -33.83494433 | 151.0222628 |
| COBAR | Former Caltex (Bogas) Service Station Cobar | 56-58 Marshall STREET | Service Station | Regulation under CLM Act not required | -31.49793339 | 145.8346684 |
| COBAR | Mckinnons Gold Mine | Cobar ROAD | Metal Industry | Regulation under CLM Act not required | -31.78179755 | 145.693 |
| COBAR | Caltex Service Station Cobar | 99 Marshall (formerly Cnr Barrier Highway and Bathurst Street) STREET | Service Station | Regulation under CLM Act not required | -31.49631924 | 145.8275727 |
| COBAR | Caltex Service Station | Lot 10 Railway PARADE | Service Station | Regulation under CLM Act not required | -31.49350124 | 145.8442372 |
| COFFS HARBOUR | BP Service Station | 134-136 Pacific HIGHWAY | Service Station | Contamination formerly regulated under the CLM Act | -30.29187037 | 153.1182106 |
| COFFS HARBOUR | Dan Murphy's Coffs Harbour | 10 Elbow STREET | Service Station | Regulation under CLM Act not required | -30.29439262 | 153.115069 |
| COFFS HARBOUR | Mobil Service Station | 314-316 Harbour DRIVE | Service Station | Contamination formerly regulated under the CLM Act | -30.3056983 | 153.131966 |
| COFFS HARBOUR | Mobil Coffs Harbour Airport | Aviation DRIVE | Other Petroleum | Contamination formerly regulated under the CLM Act | -30.313385 | 153.1175018 |
| COFFS HARBOUR | Woolworths Petrol | Park Beach Plaza, Arthur STREET | Service Station | Regulation under CLM Act not required | -30.28101154 | 153.132027 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| COFFS HARBOUR | Caltex Service Station | 157 Orlando STREET | Service Station | Regulation under CLM Act not required | -30.28975334 | 153.1306354 |
| COFFS HARBOUR | Coffs Harbour Slipway | 38 Marina DRIVE | Other Industry | Regulation under CLM Act not required | -30.30325637 | 153.1441437 |
| COFFS HARBOUR | Aussitel Backpackers Hostel | 312 Harbour DRIVE | Service Station | Contamination formerly regulated under the CLM Act | -30.3057 | 153.132 |
| COLEAMBALLY | Former Mobil Coleambally Depot | 19 Bencubbin AVENUE | Other Petroleum | Regulation under CLM Act not required | -34.80279552 | 145.8945239 |
| COLLARENEBRI | Former Shell Depot | Corner Narran Street and Queen STREET | Other Petroleum | Regulation under CLM Act not required | -29.54114772 | 148.5789365 |
| COLONGRA | Munmorah Colliery | Scenic DRIVE | Other Industry | Regulation under CLM Act not required | -33.21297737 | 151.5416882 |
| COLONGRA | Endeavour Colliery | Scenic DRIVE | Other Industry | Regulation under CLM Act not required | -33.21297737 | 151.5416882 |
| COLYTON | Ampol Service Station | 88 Great Western HIGHWAY | Service Station | Contamination currently regulated under CLM Act | -33.77552363 | 150.7953105 |
| CONCORD | Caltex Service Station | 89 Parramatta ROAD | Service Station | Regulation under CLM Act not required | -33.86785624 | 151.0993769 |
| CONCORD WEST | Caltex Service Station | 369-375 Concord ROAD | Service Station | Regulation under CLM Act not required | -33.84113835 | 151.0888843 |
| CONDOBOLIN | BP-Branded Service Station | 38 Denison Street, corner Molong STREET | Service Station | Regulation under CLM Act not required | -33.08520378 | 147.1524976 |
| CONDOBOLIN | Former Mobil Depot | 6 Burnett STREET | Other Petroleum | Contamination currently regulated under CLM Act | -33.08010515 | 147.1642972 |
| CONDOBOLIN | Former Ampol Depot | Cnr Parkes Road and Goobang STREET | Service Station | Regulation under CLM Act not required | -33.08034753 | 147.1642436 |
| CONDOBOLIN | Former Caltex Depot | Parkes ROAD | Service Station | Regulation under CLM Act not required | -33.08255593 | 147.1585922 |
| CONDOBOLIN | Mobil Condobolin Depot Railway Siding | Railway Siding behind 6 Burnett STREET | Other Petroleum | Regulation under CLM Act not required | -33.08058612 | 147.164225 |
| CONSTITUTION HILL | Sydney Water Land | Caloola ROAD | Unclassified | Regulation under CLM Act not required | -33.79776636 | 150.9697715 |
| COOGEE | Caltex Coogee Service Station | 146-148 Coogee Bay (Cnr Mount St) ROAD | Service Station | Regulation under CLM Act not required | -33.91989232 | 151.2517454 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| COOKS HILL | Former Council Depot Cooks Hill | 152 Bruce Street and 115 Corlette STREET | Other Industry | Regulation under CLM Act not required | -32.93525537 | 151.7641074 |
| COOLAC | Coolac Service Station | Corner Hume Highway and Coleman STREET | Service Station | Regulation under CLM Act not required | -34.95435052 | 148.1595525 |
| COOLAH | BP Depot (Reliance Petroleum) | 72 (formerly 17-23) Cunningham STREET | Other Petroleum | Regulation under CLM Act not required | -31.82275896 | 149.7243171 |
| COOLONGOLOOK | Caltex Service Station | Pacific HIGHWAY | Service Station | Regulation under CLM Act not required | -32.21648325 | 152.322813 |
| COOMA | Caltex Cooma Service Station | 44 Sharp (Cnr Baron St) STREET | Service Station | Regulation under CLM Act not required | -36.23323489 | 149.1304134 |
| COOMA | Former Mobil Cooma Depot | 2 Commissioner STREET | Other Petroleum | Regulation under CLM Act not required | -36.23267537 | 149.1346338 |
| COOMA | Former Caltex Cooma Depot | 2 Short STREET | Service Station | Regulation under CLM Act not required | -36.2338672 | 149.1348862 |
| COOMA | Lowes Petroleum Cooma Depot and Service Station (Former BP Reliance Petroleum) | 2-4 Sharp STREET | Other Petroleum | Regulation under CLM Act not required | -36.22862603 | 149.1356483 |
| COOMA | Woolworths Caltex Cooma Service Station | Bombala Street Cnr Massie STREET | Service Station | Regulation under CLM Act not required | -36.23364626 | 149.1267469 |
| COOMA | Former Shell Depot | 48-50 Bradley STREET | Other Petroleum | Regulation under CLM Act not required | -36.23448955 | 149.1347987 |
| COOMA | Former Shell Service Station | 48-52 Sharp STREET | Service Station | Contamination formerly regulated under the CLM Act | -36.23350402 | 149.1299514 |
| COONABARABRAN | Former Mobil Depot | 49 Cowper STREET | Other Petroleum | Regulation under CLM Act not required | -31.27096226 | 149.2818461 |
| COONABARABRAN | Shell Coles Express Service Station | 2-6 John STREET | Service Station | Regulation under CLM Act not required | -31.27706775 | 149.27836 |
| COONABARABRAN | Former Shell Coonabarabran CVRO | Corner Cowper St and Dawson St, formerly 51 Cowper STREET | Other Petroleum | Regulation under CLM Act not required | -31.27003745 | 149.281788 |
| COONABARABRAN | Caltex Service Station | Cnr Dawson & Drummond STREET | Service Station | Regulation under CLM Act not required | -31.26994941 | 149.28183 |
| COONABARABRAN | Caltex Service Station | 85-87 John STREET | Service Station | Regulation under CLM Act not required | -31.27231215 | 149.2771297 |
| COONAMBLE | Former Shell Coonamble Depot | Corner Aberford Street and Quambone ROAD | Other Petroleum | Regulation under CLM Act not required | -30.95349182 | 148.3793432 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| COONAMBLE | Caltex Service Station | Quambone ROAD | Service Station | Regulation under CLM Act not required | -30.95410067 | 148.3792167 |
| COORANBONG | Former Poultry Farm - 91 Alton Road, Cooranbong | 64 - 98 Alton ROAD | Unclassified | Regulation under CLM Act not required | -33.06860138 | 151.4512156 |
| COORANBONG | Avondale Auto Centre | 677 Freemans DRIVE | Service Station | Regulation under CLM Act not required | -33.06968809 | 151.4636293 |
| COOTAMUNDRA | Former BP Depot | 1-5 Murray STREET | Other Petroleum | Regulation under CLM Act not required | -34.62915841 | 148.0306962 |
| COOTAMUNDRA | Caltex Service Station | 26-34 Hovell STREET | Service Station | Regulation under CLM Act not required | -34.63624703 | 148.0347479 |
| COOTAMUNDRA | Former Caltex Depot | 219 Sutton STREET | Other Petroleum | Regulation under CLM Act not required | -34.65126548 | 148.0145283 |
| COOTAMUNDRA | Former Ampol Service Station | 72 Parker STREET | Service Station | Regulation under CLM Act not required | -34.63471008 | 148.0296112 |
| COOTAMUNDRA | Cootamundra Gasworks | 140-146 Hovell STREET | Gasworks | Contamination currently regulated under CLM Act | -34.64572841 | 148.0255049 |
| COOTAMUNDRA | Former Amoco Depot | 68-72 Hovell STREET | Other Petroleum | Contamination currently regulated under CLM Act | -34.63871124 | 148.0321134 |
| COOTAMUNDRA | Former Ampol Cootamundra Rail Siding | Back Brawlin ROAD | Other Petroleum | Under assessment | -34.65326425 | 148.0143068 |
| CORAMBA | Martin Street | End of Martin Street and adjacent car park OTHER | Service Station | Ongoing maintenance required to manage residual contamination (CLM Act) | -30.22125208 | 153.0156997 |
| COROWA | Corowa Shire Council Works Depot | 24 Poseidon ROAD | Other Petroleum | Regulation under CLM Act not required | -35.98807923 | 146.3652266 |
| COROWA | Former Ampol Corowa | 10 Bow STREET | Service Station | Regulation under CLM Act not required | -35.99364786 | 146.3901259 |
| COROWA | Cignall Corowa | 280 Hume STREET | Service Station | Under assessment | -36.00996015 | 146.3760437 |
| CORRIMAL | Woolworths Petrol - Corrimal | 275-277 Princes HIGHWAY | Service Station | Under assessment | -34.37527426 | 150.8962637 |
| CORRIMAL | 7-Eleven Corrimal | 138-146 Princes HIGHWAY | Service Station | Regulation under CLM Act not required | -34.36986923 | 150.8978271 |
| COWRA | Landmark Fertiliser Storage Facility | Corner Young Road & Waratah STREET | Chemical Industry | Regulation under CLM Act not required | -33.84321832 | 148.6722578 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| COWRA | Lowes Petroleum (former BP Cowra Depot) | 12 Campbell STREET | Other Petroleum | Regulation under CLM Act not required | -33.83803706 | 148.6977873 |
| COWRA | Former Gasworks | 30 Brougham STREET | Gasworks | Contamination currently regulated under CLM Act | -33.8389659 | 148.6963482 |
| COWRA | Shell Depot | 34 Brougham STREET | Other Petroleum | Contamination formerly regulated under the CLM Act | -33.83932421 | 148.6976295 |
| CRANGAN BAY | Big T Road House. | 555 and 565 Pacific HIGHWAY | Service Station | Contamination currently regulated under CLM Act | -33.17326538 | 151.6083864 |
| CREMORNE | Shell Coles Express Service Station | 225 Military ROAD | Service Station | Regulation under CLM Act not required | -33.83063306 | 151.226223 |
| CRESTWOOD | Former Caltex Depot Queanbeyan | 36 Kendall (Cnr Stephens Rd) AVENUE | Other Petroleum | Regulation under CLM Act not required | -35.34615546 | 149.207807 |
| CRESTWOOD | Former BP Queanbeyan | 64 Uriarra ROAD | Service Station | Regulation under CLM Act not required | -35.34646177 | 149.2246263 |
| CRONULLA | Breen Holdings | Bate Bay ROAD | Other Industry | Regulation under CLM Act not required | -34.03861737 | 151.1614114 |
| CROWS NEST | Caltex Service Station | 111-121 Falcon STREET | Service Station | Regulation under CLM Act not required | -33.82868236 | 151.2060317 |
| CROYDON | Caltex Service Station | 404-410 Liverpool ROAD | Service Station | Regulation under CLM Act not required | -33.88853994 | 151.115879 |
| CROYDON | BP Ashfield | 584 Parramatta ROAD | Service Station | Regulation under CLM Act not required | -33.87399409 | 151.1267296 |
| CROYDON PARK | Mobil Service Station | 334 Georges River ROAD | Service Station | Regulation under CLM Act not required | -33.89771626 | 151.0999194 |
| CULCAIRN | Caltex Service Station | 2883 Olympic HIGHWAY | Service Station | Regulation under CLM Act not required | -35.67441635 | 147.0356845 |
| CULLEN BULLEN | Baal Bone Colliery | Castlereagh HIGHWAY | Other Industry | Regulation under CLM Act not required | -33.27193875 | 150.0587194 |
| CUNDLETOWN | Caltex Service Station (1 Manning River Drive) | Old Pacific HIGHWAY | Service Station | Regulation under CLM Act not required | -31.89329598 | 152.5068225 |
| CURL CURL | John Fisher Park | Corner Harbord and Abbott ROADS | Landfill | Regulation under CLM Act not required | -33.76352692 | 151.2798462 |
| DACEYVILLE | Astrolabe Park | Cook AVENUE | Landfill | Regulation under CLM Act not required | -33.92963704 | 151.221773 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| DAPTO | RailCorp Dapto | (Rear of property) 12-14 Hamilton STREET | Other Industry | Regulation under CLM Act not required | -34.50045405 | 150.787353 |
| DAPTO | Nicheinvest Pty Ltd | 133-139 Lakelands DRIVE | Service Station | Under assessment | -34.50335 | 150.803144 |
| DARLINGHURST | Proposed Retail Unit | 139-155 Palmer STREET | Unclassified | Regulation under CLM Act not required | -33.87504688 | 151.2168106 |
| DARLINGHURST | Cross City Tunnel | Riley Street and William STREET | Service Station | Contamination was addressed via the planning process (EP&A Act) | -33.87424636 | 151.2158305 |
| DARLINGHURST | 18-28 Neild Avenue, Darlinghurst | 18-28 Neild AVENUE | Landfill | Regulation under CLM Act not required | -33.87876581 | 151.2276546 |
| DEE WHY | United Dee Why | 1 The Strand STREET | Service Station | Contamination currently regulated under POEO Act | -33.75569207 | 151.2959451 |
| DEE WHY | Caltex Service Station | 793-797 Pittwater ROAD | Service Station | Regulation under CLM Act not required | -33.74566596 | 151.2920719 |
| DEE WHY | Dee Why Town Centre | Pittwater ROAD | Other Industry | Regulation under CLM Act not required | -33.753169 | 151.2875805 |
| DEE WHY | Roche Products Dee Why Facility | Inman ROAD | Other Industry | Contamination currently regulated under CLM Act | -33.73834964 | 151.2876392 |
| DENHAM COURT | Service Station and Caravan Park Denham Court | 505 Campbelltown ROAD | Service Station | Under assessment | -33.98208395 | 150.8459471 |
| DENILIQUIN | Shell Coles Express Service Station | 336 Victoria STREET | Service Station | Contamination formerly regulated under the CLM Act | -35.52373613 | 144.9807345 |
| DENILIQUIN | Former Deniliquin Gasworks | 365, 369 and 329-331 George and 380 and 386 Charlotte STREET | Gasworks | Under assessment | -35.52663588 | 144.9634994 |
| DENILIQUIN | Landmark Fertiliser Storage Facility | 99-101 Davidson STREET | Chemical Industry | Regulation under CLM Act not required | -35.52534735 | 144.975142 |
| DENILIQUIN | Former Deniliquin Caltex Depot | 116-118 Hardinge (Cnr Wood St) STREET | Service Station | Regulation under CLM Act not required | -35.53196985 | 144.9544597 |
| DENILIQUIN | BP Depot (Reliance Petroleum) | 125 - 127 Hardinge STREET | Service Station | Regulation under CLM Act not required | -35.53222124 | 144.9517397 |
| DENILIQUIN | Former Shell Depot | 143-147 Napier STREET | Other Petroleum | Regulation under CLM Act not required | -35.5342355 | 144.953169 |
| DENMAN | Former Industrial Site | 10 Fontana WAY | Metal Industry | Regulation under CLM Act not required | -32.37945456 | 150.6868239 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| DENMAN | Former Industrial Site | 9 Fontana WAY | Metal Industry | Regulation under CLM Act not required | -32.37911159 | 150.6869866 |
| DORA CREEK | Former Service Station | 4 Doree PLACE | Service Station | Under assessment | -33.08452746 | 151.502415 |
| DOYALSON | Part Lot 3 DP 259306 | Off David STREET | Other Industry | Regulation under CLM Act not required | -33.20436131 | 151.5232558 |
| DOYALSON | Munmorah Power Station | (Central Coast Highway) Scenic DRIVE | Unclassified | Regulation under CLM Act not required | -33.20678347 | 151.540795 |
| DOYALSON | Mannering Colliery (formerly Wyee) | Rutleys ROAD | Other Industry | Regulation under CLM Act not required | -33.17179576 | 151.5419248 |
| DOYALSON NORTH | Caltex Service Station | 235 Pacific HIGHWAY | Service Station | Regulation under CLM Act not required | -33.18501024 | 151.5526114 |
| DOYALSON NORTH | Shell Coles Express Service Station | 260-270 Pacific HIGHWAY | Service Station | Regulation under CLM Act not required | -33.18636608 | 151.5482399 |
| DRUMMOYNE | Coles Express Service Station Drummoyne (Eastbound) | 36-46 Victoria ROAD | Service Station | Regulation under CLM Act not required | -33.85576628 | 151.1593519 |
| DRUMMOYNE | Former Dry Cleaners | 225 Victoria ROAD | Chemical Industry | Regulation under CLM Act not required | -33.8507152 | 151.1537113 |
| DRUMMOYNE | Coles Express Service Station Drummoyne South (Westbound) | 39-45 Victoria ROAD | Service Station | Regulation under CLM Act not required | -33.85606575 | 151.1589061 |
| DRUMMOYNE | Caltex Service Station | 191-195 Lyons ROAD | Service Station | Regulation under CLM Act not required | -33.85699216 | 151.1460356 |
| DUBBO | BP Reliance Petroleum Service Station (Former Mobil Depot) | 107 Erskine STREET | Other Petroleum | Regulation under CLM Act not required | -32.24441287 | 148.6111704 |
| DUBBO | Dubbo Police Station | 143 Brisbane STREET | Other Petroleum | Regulation under CLM Act not required | -32.24652288 | 148.6034702 |
| DUBBO | Shell Coles Express Service Station | 131-133 Cobra STREET | Service Station | Regulation under CLM Act not required | -32.25511317 | 148.6126147 |
| DUBBO | Shell Coles Express Service Station | 45-49 Whylandra STREET | Service Station | Regulation under CLM Act not required | -32.2474598 | 148.5932769 |
| DUBBO | Former Mobil depot | 40-44 Morgan STREET | Other Petroleum | Regulation under CLM Act not required | -32.23912277 | 148.6182711 |
| DUBBO | Caltex Service Station, Dubbo | 60 Windsor PARADE | Service Station | Regulation under CLM Act not required | -32.25459322 | 148.6318 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| DUBBO | BP-Branded Service Station Dubbo West | 51-63 Whylandra STREET | Service Station | Regulation under CLM Act not required | -32.24827657 | 148.5927084 |
| DUBBO | Lowes Petroleum (BP-Branded) Depot, Dubbo | 105 Erskine STREET | Service Station | Regulation under CLM Act not required | -32.24423247 | 148.6101676 |
| DUBBO | Inland Petroleum (Former Shell) Depot | 109 Erskine STREET | Other Petroleum | Regulation under CLM Act not required | -32.24470512 | 148.6124108 |
| DUBBO | Former Caltex Depot | Phillip (corner Fitzroy) STREET | Service Station | Regulation under CLM Act not required | -32.24534863 | 148.6150144 |
| DUBBO | Caltex Service Station | 119 Bourke STREET | Service Station | Regulation under CLM Act not required | -32.24336464 | 148.6091931 |
| DUBBO | Former Ambulance Station | 165 Brisbane STREET | Other Petroleum | Contamination formerly regulated under the CLM Act | -32.24850755 | 148.6031749 |
| DUBBO | United (former Volume Plus) Service Station | 219-223 Cobra STREET | Service Station | Regulation under CLM Act not required | -32.2565155 | 148.6228586 |
| DUBBO | Caltex Service Station, Dubbo | Cnr Brisbane Street and Cobra STREET | Service Station | Contamination currently regulated under CLM Act | -32.25322183 | 148.603164 |
| DULWICH HILL | Former Tyre Recapping | 115-117 Constitution ROAD | Other Industry | Regulation under CLM Act not required | -33.90300876 | 151.1387724 |
| DULWICH HILL | Denison Road Playground | 194 Denison ROAD | Landfill | Regulation under CLM Act not required | -33.90121956 | 151.1404637 |
| DUNEDOO | Former Shell Depot Dunedoo | Cnr Bolaro and Redbank STREET | Other Petroleum | Regulation under CLM Act not required | -32.01565761 | 149.3922418 |
| DUNGOG | Lot 54 Common Rd | 54 Common ROAD | Unclassified | Regulation under CLM Act not required | -32.39490989 | 151.739821 |
| DUNGOG | Former HWC Maintenance Depot for Civil Engineering Works | 86 Abelard STREET | Other Industry | Regulation under CLM Act not required | -32.40429396 | 151.7514073 |
| DUNMORE | Equestrian Centre | 71 Fig Hill LANE | Unclassified | Regulation under CLM Act not required | -34.62313393 | 150.8421544 |
| DURAL | Caltex Dural Service Station | 917-923 Old Northern ROAD | Service Station | Regulation under CLM Act not required | -33.68312075 | 151.0287519 |
| DURAL | BP Dural Service Station | 580 Old Northern ROAD | Service Station | Regulation under CLM Act not required | -33.69569985 | 151.0283357 |
| DURAL | Caltex Service Station | 530 Old Northern ROAD | Service Station | Regulation under CLM Act not required | -33.69348472 | 151.0202716 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| DURAL | Woolworths Service Station | 532 Old Northern ROAD | Service Station | Regulation under CLM Act not required | -33.69348472 | 151.0202716 |
| EAGLE VALE | BP Service Station | Corner Eagle Vale Drive and Gould ROAD | Service Station | Regulation under CLM Act not required | -34.03128043 | 150.816363 |
| EARLWOOD | RTA Land | 3 Jackson PLACE | Unclassified | Contamination being managed via the planning process (EP&A Act) | -33.9272087 | 151.1432854 |
| EARLWOOD | Wolli Creek Aqueduct | Unwin STREET | Unclassified | Regulation under CLM Act not required | -33.92788788 | 151.1480807 |
| EARLWOOD | 2, 4 & 6 Unwin Street Earlwood | 2, 4 & 6 Unwin STREET | Landfill | Regulation under CLM Act not required | -33.92683423 | 151.1495176 |
| EAST BALLINA | Caltex East Ballina Service Station | 34 Links AVENUE | Service Station | Regulation under CLM Act not required | -28.85009113 | 153.5829246 |
| EAST GOSFORD | Presbyterian Aged Care Facility | 8-18 Enid CRESCENT | Landfill | Regulation under CLM Act not required | -33.4376675 | 151.3577947 |
| EAST GOSFORD | Mobil Service Station | 44 Victoria STREET | Service Station | Contamination formerly regulated under the CLM Act | -33.43804781 | 151.353303 |
| EAST GOSFORD | Hylton Moore Park | Althrop STREET | Landfill | Under assessment | -33.43521607 | 151.3600229 |
| EAST MAITLAND | United Service Station East Maitland | 164 (also known as 250) Newcastle STREET | Service Station | Regulation under CLM Act not required | -32.75248998 | 151.5869338 |
| EAST MAITLAND | Woolworths Caltex Green Hills | 14 Mitchell DRIVE | Service Station | Regulation under CLM Act not required | -32.76182386 | 151.5927863 |
| EAST MAITLAND | Former Gasworks Site | Corner Melbourne Street and Brisbane STREET | Gasworks | Regulation under CLM Act not required | -32.74939199 | 151.5788783 |
| EAST MAITLAND | Caltex East Maitland Service Station | Newcastle Road, Corner William STREET | Service Station | Regulation under CLM Act not required | -32.74883712 | 151.5829296 |
| EAST TAMWORTH | Caltex Service Station | 350-362 Armidale ROAD | Service Station | Regulation under CLM Act not required | -31.11401974 | 150.9613327 |
| EASTERN CREEK | Caltex Service Station | M4 (Eastbound) MOTORWAY | Service Station | Regulation under CLM Act not required | -33.801607 | 150.8857989 |
| EASTERN CREEK | Caltex Service Station M4 Motorway Westbound | M4 (Westbound) MOTORWAY | Service Station | Regulation under CLM Act not required | -33.80255701 | 150.8829211 |
| EASTERN CREEK | Fulton Hogan Industries (formerly Pioneer Road Services) | Honeycomb DRIVE | Other Industry | Regulation under CLM Act not required | -33.80231274 | 150.8288299 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| EASTGARDENS | 130-150 Bunnerong Road Eastgardens | 130 - 150 Bunnerong ROAD | Other Industry | Regulation under CLM Act not required | -33.94230414 | 151.2248138 |
| EASTLAKES | Former Shell Rosebery service station and adjacent land | 275-279 Gardeners ROAD | Service Station | Contamination formerly regulated under the CLM Act | -33.92470279 | 151.2100722 |
| EASTLAKES | Eastlakes Reserve | Evans AVENUE | Service Station | Contamination formerly regulated under the CLM Act | -33.92497291 | 151.2102725 |
| EASTLAKES | Budget Petroleum Eastlakes | 102 Maloney STREET | Service Station | Contamination formerly regulated under the CLM Act | -33.93096702 | 151.2056606 |
| EASTLAKES | Budget Petroleum Eastlakes | 102 Maloney STREET | Service Station | Contamination formerly regulated under the CLM Act | -33.93120382 | 151.2054267 |
| EASTLAKES | 73 Gardeners Road | 73 Gardeners ROAD | Unclassified | Regulation under CLM Act not required | -33.92541594 | 151.2182856 |
| EASTWOOD | Former Mobil Service Station Eastwood | 3-5 Trelawney (Cnr Rutledge St) STREET | Service Station | Regulation under CLM Act not required | -33.79273381 | 151.079584 |
| EDEN | Caltex Service Station | 159 Imlay STREET | Service Station | Regulation under CLM Act not required | -37.06324099 | 149.9044022 |
| EDEN | Former Caltex Eden Depot | 80-82 Imlay STREET | Service Station | Contamination currently regulated under CLM Act | -37.0570984 | 149.9038538 |
| EDENSOR PARK | Caltex Bonnyrigg Service Station, Edensor Park | 549 Elizabeth DRIVE | Service Station | Regulation under CLM Act not required | -33.88840816 | 150.8822609 |
| EDENSOR PARK | 7-Eleven (former Mobil) Service Station | 615-621 Cowpasture Road (Cnr Elizabeth) DRIVE | Service Station | Regulation under CLM Act not required | -33.88326139 | 150.865591 |
| EDGECLIFF | BP-branded (former Coles Express) Service Station | 73-85A New South Head ROAD | Service Station | Regulation under CLM Act not required | -33.8769602 | 151.2311617 |
| EDGEWORTH | Caltex Service Station | 662 Main ROAD | Service Station | Regulation under CLM Act not required | -32.92566329 | 151.6278888 |
| EDGEWORTH | Caltex-Woolworths Branded Service Station Edgeworth | 738-742 Main ROAD | Service Station | Under assessment | -32.92455492 | 151.6202897 |
| EMERALD BEACH | Shell Coles Express Woolgoolga Service Station | 1850 Pacific HIGHWAY | Service Station | Regulation under CLM Act not required | -30.16450856 | 153.1826673 |
| EMERTON | 7-Eleven Emerton | 135-137 Popondetta ROAD | Service Station | Regulation under CLM Act not required | -33.74463908 | 150.8102251 |
| EMU HEIGHTS | 7-Eleven Service Station | 126 Old Bathurst ROAD | Service Station | Regulation under CLM Act not required | -33.74299098 | 150.6547098 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| EMU HEIGHTS | Woolworths Service Station | 132 Old Bathurst ROAD | Service Station | Regulation under CLM Act not required | -33.7429739 | 150.6559655 |
| EMU PLAINS | Woolworths Service Station | 283 Great Western HIGHWAY | Service Station | Regulation under CLM Act not required | -33.75371349 | 150.6530165 |
| ENGADINE | Former Caltex Service Station | 995 Old Princes HIGHWAY | Service Station | Regulation under CLM Act not required | -34.06413459 | 151.0155734 |
| ENGADINE | BP Service Station | 1234 Princes HIGHWAY | Service Station | Contamination currently regulated under CLM Act | -34.07735416 | 151.01121 |
| ENGADINE | BP Branded Service Station | 963 Old Princes HIGHWAY | Service Station | Contamination currently regulated under CLM Act | -34.06428454 | 151.0167121 |
| EPPING | 7-Eleven (former Mobil) Service Station | 246 Beecroft ROAD | Service Station | Regulation under CLM Act not required | -33.77073552 | 151.080581 |
| ERINA | Coles Express Service Station Erina | 211 The Entrance ROAD | Service Station | Regulation under CLM Act not required | -33.43547804 | 151.3850522 |
| ERINA | 7-Eleven Erina | 214 The Entrance ROAD | Service Station | Regulation under CLM Act not required | -33.43494257 | 151.3879511 |
| ERINA | 7-Eleven Service Station | 96 The Entrance ROAD | Service Station | Regulation under CLM Act not required | -33.43786868 | 151.3729331 |
| ERINA | Former Frozen Food Distribution Depot | 1 Aston ROAD | Other Petroleum | Contamination currently regulated under CLM Act | -33.434878 | 151.3845431 |
| ERINA | Caltex Service Station | 155 The Entrance ROAD | Service Station | Regulation under CLM Act not required | -33.43824871 | 151.3801096 |
| ERMINGTON | Blue Star Ermington | 700 Victoria ROAD | Service Station | Regulation under CLM Act not required | -33.80859566 | 151.0660133 |
| ERMINGTON | Caltex Service Station | 562 Victoria ROAD | Service Station | Regulation under CLM Act not required | -33.81392814 | 151.0547543 |
| ERSKINE PARK | Western Sydney Service Centre | 25-55 Templar ROAD | Other Industry | Regulation under CLM Act not required | -33.81897822 | 150.7937394 |
| ERSKINEVILLE | Redevelopment Site (Former Industrial Park) Erskineville | 36/1A Coulson STREET | Other Industry | Regulation under CLM Act not required | -33.90325501 | 151.1855668 |
| ERSKINEVILLE | Department of Housing | 52 John STREET | Other Industry | Regulation under CLM Act not required | -33.8982925 | 151.1840284 |
| ERSKINEVILLE | RailCorp land | Coulson STREET | Other Industry | Regulation under CLM Act not required | -33.90279502 | 151.1846827 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| ERSKINEVILLE | Lot 4/1A Coulson Street | Coulson STREET | Other Industry | Under assessment | -33.90316549 | 151.1867963 |
| ERSKINEVILLE | Area B - Public Domain / The Roadway | 1A Coulson STREET | Other Petroleum | Regulation under CLM Act not required | -33.90479634 | 151.1871194 |
| EUABALONG WEST | BP Euabalong West Depot (Reliance Petroleum) | 12 Illewong STREET | Other Petroleum | Regulation under CLM Act not required | -33.05720426 | 146.3946386 |
| EVANS HEAD | Evans Head Aerodrome | Memorial Airport DRIVE | Other Industry | Regulation under CLM Act not required | -29.10389976 | 153.4216791 |
| EVANS HEAD | Bundjalung National Park | The Gap ROAD | Unclassified | Regulation under CLM Act not required | -29.24433977 | 153.3626472 |
| EVANS HEAD | Evans Head Residential subdivision | Bounded by Currajong, Woodburn, Carrabeen Streets and Tuckeroo CRESCENT | Unclassified | Regulation under CLM Act not required | -29.1080969 | 153.4243577 |
| EVELEIGH | Macdonaldtown Triangle | Burren STREET | Gasworks | Contamination being managed via the planning process (EP&A Act) | -33.89803492 | 151.186059 |
| EVELEIGH | Australian Technology Park | Henderson ROAD | Other Industry | Regulation under CLM Act not required | -33.89634136 | 151.1944915 |
| FAIRFIELD | Endeavour Energy Fairfield Zone Substation | 22 Hedges STREET | Other Industry | Regulation under CLM Act not required | -33.86133019 | 150.9555899 |
| FAIRFIELD EAST | Speedway-Branded Service Station Fairfield | 251 The Horsley DRIVE | Service Station | Regulation under CLM Act not required | -33.8711661 | 150.9630077 |
| FAIRFIELD HEIGHTS | 7-Eleven Fairfield Heights | 234 Hamilton (Cnr The Boulevarde) ROAD | Service Station | Regulation under CLM Act not required | -33.87208474 | 150.9373134 |
| FAIRY MEADOW | Woolworths Petrol Service Station | 47 Princes HIGHWAY | Service Station | Regulation under CLM Act not required | -34.39399705 | 150.8925369 |
| FAIRY MEADOW | Caltex Fuel Depot and adjoining land | 46 Montague STREET | Service Station | Contamination formerly regulated under the CLM Act | -34.40050499 | 150.8953125 |
| FAIRY MEADOW | Deynal (Seeman) | 51-59 Princes HIGHWAY | Service Station | Regulation under CLM Act not required | -34.39437085 | 150.8924666 |
| FARLEY | Farley Wastewater Treatment Works | Owlpen LANE | Other Industry | Regulation under CLM Act not required | -32.74431314 | 151.5194217 |
| FASSIFERN | Newstan Colliery | Fassifern ROAD | Other Industry | Regulation under CLM Act not required | -32.97942521 | 151.5660046 |
| FASSIFERN | Former Arsenic Smelter | Fassifern ROAD | Other Industry | Regulation under CLM Act not required | -32.99649819 | 151.5618283 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| FEDERAL | Federal General Store | 3-6 Federal DRIVE | Service Station | Contamination formerly regulated under the CLM Act | -28.65190728 | 153.4552976 |
| FERN BAY | Former service station | 37 Fullerton (1006 Nelson Bay Road) STREET | Service Station | Regulation under CLM Act not required | -32.87245004 | 151.7939904 |
| FIVE DOCK | 7-Eleven Five Dock Service Station | 231-235 Great North ROAD | Service Station | Regulation under CLM Act not required | -33.86488376 | 151.130002 |
| FIVE DOCK | Caltex Five Dock Service Station | 47 Ramsay Road, corner Fairlight STREET | Service Station | Regulation under CLM Act not required | -33.87002804 | 151.1301835 |
| FORBES | BP (Former Mobil) Depot Forbes | 3-15 Union STREET | Other Petroleum | Regulation under CLM Act not required | -33.37751977 | 148.0101422 |
| FORBES | Former Gasworks | 24-26 Union STREET | Gasworks | Contamination currently regulated under CLM Act | -33.37752036 | 148.0090064 |
| FORBES | Woolworths (Former Save on Fuel) Service Station | 26 Dowling STREET | Service Station | Regulation under CLM Act not required | -33.38148764 | 148.0109845 |
| FORBES | BP Service Station Forbes | 29 Dowling STREET | Other Petroleum | Regulation under CLM Act not required | -33.38121776 | 148.0100351 |
| FORBES | Former Shell Depot | Stephen STREET | Other Petroleum | Regulation under CLM Act not required | -33.37704755 | 148.0103001 |
| FORBES | Caltex Service Station Forbes | Parkes ROAD | Service Station | Regulation under CLM Act not required | -33.36333714 | 148.0223727 |
| FORESTVILLE | BP Service Station | 632 Warringah ROAD | Service Station | Contamination currently regulated under CLM Act | -33.75997969 | 151.2142944 |
| FORESTVILLE | Shell Service Station | 667 Warringah ROAD | Service Station | Contamination currently regulated under CLM Act | -33.76035336 | 151.2184929 |
| FORRESTERS BEACH | Caltex Service Station | The Entrance Rd Cnr Bellevue ROAD | Service Station | Regulation under CLM Act not required | -33.40057818 | 151.4687631 |
| FORSTER | Caltex Service Station | 16-18 Lake STREET | Service Station | Regulation under CLM Act not required | -32.18306967 | 152.5162492 |
| FORSTER | Shell (Kneebone's) Service Station | 2-6 The Lakes WAY | Service Station | Regulation under CLM Act not required | -32.1946108 | 152.5145662 |
| FORSTER | Enhance (Former Mobil) Service Station | 86-88 Macintosh STREET | Service Station | Regulation under CLM Act not required | -32.19079468 | 152.5154847 |
| FREDERICKTON | Former Service station | 2-4 Great North ROAD | Service Station | Regulation under CLM Act not required | -31.03513998 | 152.8794105 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| FRENCHS FOREST | Former BP Service Station | Russell AVENUE | Service Station | Regulation under CLM Act not required | -33.75018093 | 151.2245005 |
| FRENCHS FOREST | Former 7-Eleven / Mobil Beacon Hill Service Station, Frenchs Forest | 312 Warringah ROAD | Service Station | Regulation under CLM Act not required | -33.75129647 | 151.2469656 |
| FRESHWATER | Prime Service Station Freshwater | 117 Harbord ROAD | Service Station | Regulation under CLM Act not required | -33.77286748 | 151.2794354 |
| GEORGETOWN | Former Caltex Service Station | 4 Georgetown ROAD | Service Station | Regulation under CLM Act not required | -32.91121105 | 151.7319693 |
| GERRINGONG | Gerringong Cooperative | 18 Belinda STREET | Other Petroleum | Regulation under CLM Act not required | -34.74518835 | 150.8181054 |
| GILGANDRA | United (Former Mobil) Service Station | 13 Castlereagh STREET | Service Station | Regulation under CLM Act not required | -31.71715641 | 148.6581574 |
| GILGANDRA | Former Mobil Depot | 2 Federation STREET | Other Petroleum | Regulation under CLM Act not required | -31.70937362 | 148.6522102 |
| GILGANDRA | Former Mobil Depot | 20 Federation STREET | Other Petroleum | Regulation under CLM Act not required | -31.70771744 | 148.6514198 |
| GILGANDRA | Caltex Service Station Gilgandra | 6425 Newell HIGHWAY | Service Station | Regulation under CLM Act not required | -31.72545524 | 148.65281 |
| GILLENBAH | Caltex (Former Mobil) Narrandera Service Station | 16321 - 16335 Newell HIGHWAY | Service Station | Regulation under CLM Act not required | -34.76124219 | 146.5398604 |
| GIRRAWEEN | Industrial Galvanizers site | 20-22 Amax AVENUE | Metal Industry | Contamination currently regulated under POEO Act | -33.80500693 | 150.9396743 |
| GIRRAWEEN | Caltex Pendle Hill Service Station Girraween | 602 Great Western HIGHWAY | Service Station | Regulation under CLM Act not required | -33.80827518 | 150.9421511 |
| GLADESVILLE | Caltex Service Station | 287-295 Victoria ROAD | Service Station | Regulation under CLM Act not required | -33.8285374 | 151.1268639 |
| GLADESVILLE | Road Reserve | Pittwater ROAD | Other Industry | Regulation under CLM Act not required | -33.81603924 | 151.1355085 |
| GLADESVILLE | Caltex Service Station | 116 Victoria ROAD | Service Station | Regulation under CLM Act not required | -33.83575319 | 151.1277863 |
| GLADESVILLE | Glade View Business Park | 436-484 Victoria ROAD | Other Industry | Under assessment | -33.82382382 | 151.1223941 |
| GLEBE | The Hill and Jubilee Embankment | 12 Maxwell ROAD | Other Industry | Regulation under CLM Act not required | -33.87573032 | 151.1776027 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| GLEN INNES | Ambulance Station | 106 Bourke STREET | Unclassified | Regulation under CLM Act not required | -29.73805854 | 151.7313138 |
| GLEN INNES | Telstra Depot Glen Innes | 126 Lambeth STREET | Unclassified | Regulation under CLM Act not required | -29.73565341 | 151.7278271 |
| GLEN INNES | Caltex Glen Innes Service Station | Meade Street, corner Church STREET | Service Station | Regulation under CLM Act not required | -29.73699014 | 151.7379335 |
| GLEN INNES | Former Shell Depot | Lambeth STREET | Other Petroleum | Regulation under CLM Act not required | -29.7376309 | 151.7276309 |
| GLEN INNES | Former Caltex Depot, Glen Innes | Lot 1 DP785636 Lambeth STREET | Other Petroleum | Regulation under CLM Act not required | -29.73525485 | 151.7279167 |
| GLEN INNES | Council-owned Laneway | Lot 2 Lang STREET | Gasworks | Regulation under CLM Act not required | -29.74385432 | 151.7323049 |
| GLEN INNES | Caltex Service Station | Cnr Taylor Street & Church STREET | Service Station | Regulation under CLM Act not required | -29.73289036 | 151.739653 |
| GLEN INNES | Caltex Glen Innes Paddock | 9979 New England HIGHWAY | Service Station | Regulation under CLM Act not required | -29.75608853 | 151.7344106 |
| GLENBROOK | Caltex Service Station Glenbrook | 78 Great Western HIGHWAY | Service Station | Regulation under CLM Act not required | -33.76545234 | 150.6215447 |
| GLENDALE | Coles Express Glendale | 593 Main ROAD | Service Station | Regulation under CLM Act not required | -32.92709242 | 151.637946 |
| GLENDALE | Settlement Pond | 65 Glendale DRIVE | Unclassified | Regulation under CLM Act not required | -32.93411399 | 151.6483695 |
| GLENDALE | Former Service Station | 334-342 Lake ROAD | Unclassified | Regulation under CLM Act not required | -32.92775076 | 151.6433463 |
| GLENDALE | Woolworths Service Station | Stockland DRIVE | Service Station | Regulation under CLM Act not required | -32.93250548 | 151.6404097 |
| GLENDENNING | 7-Eleven Plumpton Service Station Glendenning | 1 Dublin Street, corner Richmond ROAD | Service Station | Regulation under CLM Act not required | -33.73988232 | 150.8603323 |
| GLENORIE | Caltex Glenorie Service Station | 912 Old Northern ROAD | Service Station | Regulation under CLM Act not required | -33.60550946 | 151.0126731 |
| GLENTHORNE | Caltex Taree Service Station | Manning River DRIVE | Service Station | Regulation under CLM Act not required | -31.94415251 | 152.4703511 |
| GLOUCESTER | Caltex Service Station | 141 Church STREET | Service Station | Regulation under CLM Act not required | -32.01222514 | 151.9579521 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| GOOLMANGAR | Goolmangar General Store | 851 Nimbin ROAD | Service Station | Regulation under CLM Act not required | -28.74694441 | 153.225401 |
| GOONELLABAH | Former Invercauld Road Cattle Dip | 161 Invercauld ROAD | Cattle Dip | Contamination formerly regulated under the CLM Act | -28.8308417 | 153.3098878 |
| GOSFORD | United (former Mobil) Depot | Corner Merinee Road and Bowen CRESCENT | Other Petroleum | Regulation under CLM Act not required | -33.41523225 | 151.3257069 |
| GOULBURN | Former Goulburn Gasworks | 1 Blackshaw ROAD | Gasworks | Contamination currently regulated under CLM Act | -34.75237525 | 149.725507 |
| GOULBURN | Goulburn Tannery | 13 Gibson STREET | Other Industry | Regulation under CLM Act not required | -34.73756525 | 149.72059 |
| GOULBURN | Caltex Depot | 13 Sloane STREET | Other Petroleum | Regulation under CLM Act not required | -34.77423152 | 149.7088626 |
| GOULBURN | Metro Goulburn Depot | 23 Braidwood ROAD | Other Petroleum | Regulation under CLM Act not required | -34.76217302 | 149.7170897 |
| GOULBURN | Caltex Service Station | 72-74 Clinton STREET | Service Station | Regulation under CLM Act not required | -34.75728157 | 149.7135824 |
| GOULBURN | Caltex Service Station | 68 Goldsmith STREET | Service Station | Regulation under CLM Act not required | -34.75054432 | 149.7192098 |
| GOULBURN | Former Shell Autoport Service Station | Corner Bruce Street and Lagoon STREET | Service Station | Regulation under CLM Act not required | -34.74807885 | 149.7266246 |
| GOULBURN | Coles Express Service Station | 90 Cowper (Corner Clinton Street) STREET | Service Station | Regulation under CLM Act not required | -34.75566648 | 149.7107831 |
| GOULBURN | Mobil Service Station | 129 Lagoon STREET | Service Station | Contamination formerly regulated under the CLM Act | -34.74618793 | 149.7330484 |
| GOULBURN | Caltex Service Station | 315 Auburn, corner Bradley STREET | Service Station | Regulation under CLM Act not required | -34.74942293 | 149.7232692 |
| GOULBURN | Former Mobil Service Station Goulburn | 422-426 Auburn STREET | Service Station | Regulation under CLM Act not required | -34.74869879 | 149.7229392 |
| GRAFTON | Former General Store and Service Station Grafton | 161 Turf STREET | Service Station | Regulation under CLM Act not required | -29.67412811 | 152.9336609 |
| GRAFTON | Lowes Petroleum (BP-Branded) Depot, Grafton | 13 Orara STREET | Other Petroleum | Regulation under CLM Act not required | -29.67016421 | 152.918161 |
| GRAFTON | Former Shell Depot | 2 Milton STREET | Other Petroleum | Regulation under CLM Act not required | -29.67723019 | 152.9205374 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| GRAFTON | Grafton Works Depot | 26-28 Bruce STREET | Other Petroleum | Regulation under CLM Act not required | -29.67975507 | 152.9249357 |
| GRAFTON | Former BP Service Station (Reliance Petroleum) | 202 Queen STREET | Service Station | Regulation under CLM Act not required | -29.67645469 | 152.9423977 |
| GRAFTON | Woolworths Petrol | 75 - 77 Fitzroy Street Cnr of Duke STREET | Service Station | Regulation under CLM Act not required | -29.69221713 | 152.9343562 |
| GRAFTON | Caltex Service Station | Corner Villiers St and Fitzroy STREET | Service Station | Regulation under CLM Act not required | -29.69296308 | 152.9366431 |
| GRAFTON | BP Service Station (Reliance Petroleum) | 14 Villiers (Cnr Fitzroy) STREET | Service Station | Regulation under CLM Act not required | -29.69345456 | 152.9373123 |
| GRAFTON | Former Mobil Depot Grafton | 2-16 Bruce STREET | Other Petroleum | Regulation under CLM Act not required | -29.68093591 | 152.9231289 |
| GRAFTON | Caltex Service Station | 179 Prince STREET | Service Station | Regulation under CLM Act not required | -29.68600117 | 152.9371093 |
| GRANVILLE | Caltex Service Station | 144 Parramatta ROAD | Service Station | Regulation under CLM Act not required | -33.83039605 | 151.0109216 |
| GRANVILLE | Australand | 15-17 Berry STREET | Other Industry | Contamination being managed via the planning process (EP&A Act) | -33.83600073 | 151.0211988 |
| GRANVILLE | Woolworths Service Station Granville | 158 Clyde STREET | Service Station | Regulation under CLM Act not required | -33.84623338 | 151.0124885 |
| GRANVILLE | Commercial Property | 2B Factory STREET | Other Industry | Ongoing maintenance required to manage residual contamination (CLM Act) | -33.84173556 | 151.0165687 |
| GRANVILLE | Old Granville Depot | 23 Elizabeth STREET | Unclassified | Regulation under CLM Act not required | -33.83765925 | 151.008528 |
| GRANVILLE | 7-Eleven Service Station | 154-160 Parramatta ROAD | Service Station | Regulation under CLM Act not required | -33.83022685 | 151.0101322 |
| GRANVILLE | A'Becketts Creek | Albert STREET | Unclassified | Under assessment | -33.82735397 | 151.0113643 |
| GREENACRE | Former Plating Works | 12 Claremont STREET | Unclassified | Regulation under CLM Act not required | -33.89992254 | 151.0386128 |
| GREENACRE | 7-Eleven (former Mobil) Service Station | 301-305 Hume HIGHWAY | Service Station | Regulation under CLM Act not required | -33.90524488 | 151.0419971 |
| GREENACRE | Caltex Service Station | 87 - 91 Roberts ROAD | Service Station | Regulation under CLM Act not required | -33.90461089 | 151.0648581 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| GREENWICH | Gore Creek Reserve - Drainage Line | St Vincents ROAD | Other Industry | Regulation under CLM Act not required | -33.82888693 | 151.1819101 |
| GRENFELL | Former SRA Fuel Depot | Grafton STREET | Other Petroleum | Regulation under CLM Act not required | -33.89351237 | 148.1560188 |
| GRENFELL | Grenfell Gasworks | Corner Gooloogong Road & Bourke STREET | Gasworks | Regulation under CLM Act not required | -33.89006016 | 148.1615443 |
| GRETA | Coles Express Greta | 122 New England HIGHWAY | Service Station | Regulation under CLM Act not required | -32.67656357 | 151.3872818 |
| GRETA | redevelopment site | 112-114 High STREET | Other Industry | Regulation under CLM Act not required | -32.67706709 | 151.3876682 |
| GRETA | Former landfill | Hollingshed ROAD | Landfill | Regulation under CLM Act not required | -32.66705287 | 151.3923474 |
| GREYSTANES | Metro Branded (former Mobil) Service Station | 73 Ettalong ROAD | Service Station | Regulation under CLM Act not required | -33.81822648 | 150.9513946 |
| GRIFFITH | Liberty Depot (former Shell CVRO) Griffith | 6-10 Mackay AVENUE | Other Petroleum | Regulation under CLM Act not required | -34.2910045 | 146.063824 |
| GRIFFITH | Former Murrumbidgee Irrigation Depot | 55-77 Banna AVENUE | Other Industry | Regulation under CLM Act not required | -34.28858242 | 146.0567509 |
| GRIFFITH | Mobil Depot - Griffith Airport | Off Rememberance DRIVE | Other Petroleum | Regulation under CLM Act not required | -34.25618872 | 146.0620449 |
| GRIFFITH | Former Ampol Depot | 32-34 Mackay AVENUE | Other Petroleum | Regulation under CLM Act not required | -34.2933331 | 146.0679503 |
| GRIFFITH | Caltex Service Station and Depot | 2-4 Mackay AVENUE | Service Station | Regulation under CLM Act not required | -34.2908766 | 146.0630815 |
| GRIFFITH | Former Landmark Fertiliser Storage Facility | 2-8 Jensen ROAD | Chemical Industry | Regulation under CLM Act not required | -34.29365599 | 146.0536413 |
| GRIFFITH | Belford Petroleum (former Mobil) Depot | 30 Banna AVENUE | Service Station | Regulation under CLM Act not required | -34.29042827 | 146.0595497 |
| GRIFFITH | Former BP Service Station (Reliance Petroleum) | 81 Banna AVENUE | Service Station | Regulation under CLM Act not required | -34.28851251 | 146.0540815 |
| GUILDFORD | 7-Eleven Service Station Guildford West | 176 Fowler ROAD | Service Station | Regulation under CLM Act not required | -33.85149493 | 150.9722491 |
| GULGONG | Lowes Petroleum (former BP) Depot Gulgong | 6 Railway STREET | Other Petroleum | Regulation under CLM Act not required | -32.35950625 | 149.5461499 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| GULGONG | The Oval Site | Queen STREET | Unclassified | Regulation under CLM Act not required | -32.36169815 | 149.531075 |
| GULMARRAD | BP Service Station Maclean | 3976 Pacific HIGHWAY | Service Station | Regulation under CLM Act not required | -29.48537407 | 153.2004311 |
| GUMLY GUMLY | Caltex Service Station | 3723 Sturt HIGHWAY | Service Station | Regulation under CLM Act not required | -35.13590309 | 147.4424551 |
| GUMLY GUMLY | Brick Kiln Reserve | Eunony Bridge ROAD | Landfill | Regulation under CLM Act not required | -35.12098411 | 147.4196309 |
| GUNDAGAI | Former Mobil Depot | 98 Mount STREET | Other Petroleum | Regulation under CLM Act not required | -35.08206783 | 148.096221 |
| GUNNEDAH | Caltex Service Station | 21 Abbott STREET | Service Station | Regulation under CLM Act not required | -30.98021001 | 150.2561856 |
| GUNNEDAH | Former Shell Depot Gunnedah | 85-89 Barber STREET | Other Petroleum | Regulation under CLM Act not required | -30.97949284 | 150.2507401 |
| GUNNEDAH | Mobil Gunnedah Depot | 16-24 Wentworth STREET | Other Petroleum | Regulation under CLM Act not required | -30.98428725 | 150.260609 |
| GUNNEDAH | BP Depot Gunnedah | 103 Mathias ROAD | Other Petroleum | Under assessment | -30.96665001 | 150.2326526 |
| GUNNEDAH | BP Service Station | Corner Conadilly Street & Henry STREET | Service Station | Contamination formerly regulated under the CLM Act | -30.98116266 | 150.2583066 |
| GUNNEDAH | Mobil Service Station | 341 Conadilly STREET | Service Station | Contamination formerly regulated under the CLM Act | -30.9807394 | 150.2578428 |
| GUNNEDAH | Property NSW Site | 35-37 Abbott STREET | Other Petroleum | Regulation under CLM Act not required | -30.9789841 | 150.25737 |
| GUNNEDAH | Former Telstra Line Depot | 81 Barber STREET | Other Petroleum | Regulation under CLM Act not required | -30.97933809 | 150.2503121 |
| GUNNEDAH | Adjacent to Service Station | Intersection of Henry Street and Conadilly STREET | Service Station | Contamination formerly regulated under the CLM Act | -30.98072588 | 150.2582802 |
| GUNNEDAH | Former Caltex Depot | 61 Railway AVENUE | Other Petroleum | Contamination formerly regulated under the CLM Act | -30.97953242 | 150.2494457 |
| GUNNING | Gunning Motors | 56 Yass STREET | Service Station | Regulation under CLM Act not required | -34.78159326 | 149.2684791 |
| GUYRA | Guyra Fourways Service Centre | 87-89 Bradley STREET | Service Station | Regulation under CLM Act not required | -30.24580085 | 151.6701156 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| GUYRA | Caltex-branded Service Station | 4352 New England HIGHWAY | Service Station | Regulation under CLM Act not required | -30.20601937 | 151.6757291 |
| GUYRA | StateRail land leased to Incitec | Starr ROAD | Other Industry | Regulation under CLM Act not required | -30.23157011 | 151.6707135 |
| GWANDALAN | Metro Petroleum Gwandalan (Formerly Gwandalan Auto Care) | 47 Orana ROAD | Service Station | Regulation under CLM Act not required | -33.13632941 | 151.5813396 |
| GWANDALAN | Former Gwandalan Landfill | Kanangra DRIVE | Landfill | Regulation under CLM Act not required | -33.17497722 | 151.5917107 |
| GYMEA | 7-Eleven (former Mobil) Gymea Service Station | 110 Gymea Bay ROAD | Service Station | Regulation under CLM Act not required | -34.03745848 | 151.0848547 |
| GYMEA | Coles Express Kirrawee | 470 Princes (Cnr The Boulevarde) HIGHWAY | Service Station | Contamination currently regulated under CLM Act | -34.02735302 | 151.0845079 |
| GYMEA | Former Shell Service Station Gymea | Gymea Bay ROAD | Service Station | Regulation under CLM Act not required | -34.04129676 | 151.0841328 |
| HABERFIELD | 7-Eleven Haberfield | 25-35 Parramatta ROAD | Service Station | Contamination currently regulated under CLM Act | -33.88794591 | 151.14287 |
| HALEKULANI | Former Halekulani Landfill | Macleay DRIVE | Landfill | Regulation under CLM Act not required | -33.21446301 | 151.5527625 |
| HAMILTON | SRA Land | 10 Maitland ROAD | Unclassified | Regulation under CLM Act not required | -32.91994358 | 151.7512417 |
| HAMILTON | Taxi Services | 116 Tudor STREET | Service Station | Contamination formerly regulated under the CLM Act | -32.92351606 | 151.7454742 |
| HAMILTON | Caltex Hamilton | 59-63 Tudor STREET | Service Station | Regulation under CLM Act not required | -32.92498593 | 151.7509313 |
| HAMILTON | Newcastle Toyota | 65 Tudor STREET | Other Petroleum | Regulation under CLM Act not required | -32.925171 | 151.7504048 |
| HAMILTON | Hamilton Bus Depot | Cnr Denison Street and Gordon AVENUE | Other Petroleum | Regulation under CLM Act not required | -32.92542648 | 151.7512512 |
| HAMILTON NORTH | Shell Newcastle Terminal | 5 Chatham ROAD | Other Petroleum | Contamination currently regulated under CLM Act | -32.91630469 | 151.7408712 |
| HAMILTON NORTH | Former Black and Decker Site | 56 Clyde STREET | Metal Industry | Contamination currently regulated under CLM Act | -32.91080413 | 151.7358236 |
| HAMILTON NORTH | Hamilton Gasworks | 1 Chatham ROAD | Gasworks | Contamination currently regulated under CLM Act | -32.91362741 | 151.7406241 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| HAMILTON NORTH | Former ELMA Site | 54 Clyde STREET | Other Industry | Contamination currently regulated under CLM Act | -32.91145768 | 151.7367691 |
| HARBORD | Former Dry Cleaners | 121 Wyndora AVENUE | Other Industry | Regulation under CLM Act not required | -33.77425321 | 151.2821553 |
| HARDEN | SRA Site | 31 Aurvill ROAD | Unclassified | Regulation under CLM Act not required | -34.54998656 | 148.3689577 |
| HARDEN | SRA Site | 51 Whitton LANE | Unclassified | Contamination formerly regulated under the CLM Act | -34.55396035 | 148.3713349 |
| HARDEN | South West Fuel Harden | 294 Albury STREET | Service Station | Regulation under CLM Act not required | -34.550176 | 148.351276 |
| HARRIS PARK | Dalley Street Reserve | 2A Dalley STREET | Other Industry | Regulation under CLM Act not required | -33.82749118 | 151.0097545 |
| HARTLEY VALE | Former Shale Oil Refinery | Lot 52 Hartley Vale ROAD | Unclassified | Contamination currently regulated under CLM Act | -33.52925119 | 150.24216 |
| HASTINGS POINT | Coles Express Hastings Point | 99 Tweed Coast ROAD | Service Station | Regulation under CLM Act not required | -28.36914103 | 153.5725676 |
| HAY | SRA Land | 429, 431, 435, 437 & 439 Murray STREET | Other Industry | Regulation under CLM Act not required | -34.49965611 | 144.840976 |
| HAY | SRA Land | 443 Murray STREET | Other Industry | Contamination formerly regulated under the CLM Act | -34.49966753 | 144.8410778 |
| HAY | Former Shell Hay Depot | 391 Murray STREET | Other Petroleum | Regulation under CLM Act not required | -34.50028195 | 144.8463999 |
| HAY | Former Mobil Depot Hay | 397-399 Murray STREET | Other Petroleum | Regulation under CLM Act not required | -34.50019184 | 144.8456578 |
| HAY SOUTH | Caltex Service Station | 429-431 Moama STREET | Service Station | Regulation under CLM Act not required | -34.52001427 | 144.8380121 |
| HAZELBROOK | Caltex Service Station Hazelbrook | 198 Great Western HIGHWAY | Service Station | Regulation under CLM Act not required | -33.72106175 | 150.4520976 |
| HEATHCOTE | Caltex Service Station | 1344 Princes HIGHWAY | Service Station | Regulation under CLM Act not required | -34.08841066 | 151.0072048 |
| HEATHCOTE | Caltex Service Station | 1403 Princes HIGHWAY | Service Station | Regulation under CLM Act not required | -34.09059834 | 151.003752 |
| HEATHCOTE | Shell Coles Express Service Station | 1355 Princes HIGHWAY | Service Station | Regulation under CLM Act not required | -34.08780042 | 151.0069741 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| HEATHERBRAE | Bogas (Former Caltex) Service Station | 3 Speedy Lock LANE | Service Station | Regulation under CLM Act not required | -32.78057822 | 151.7372135 |
| HEATHERBRAE | Shell Coles Express Motto Farm Service Station | 2137 Pacific HIGHWAY | Service Station | Regulation under CLM Act not required | -32.79835449 | 151.7176284 |
| HEXHAM | QR National - Hexham Precinct | 179 & 3/67 Maitland ROAD | Other Industry | Regulation under CLM Act not required | -32.83474038 | 151.6821895 |
| HEXHAM | Caltex Diesel Stop | 360 Maitland ROAD | Service Station | Regulation under CLM Act not required | -32.82844873 | 151.6851063 |
| HEXHAM | Cummins Newcastle Facility Hexham | 21 Galleghan STREET | Other Industry | Regulation under CLM Act not required | -32.83186739 | 151.686709 |
| HEXHAM | BP Service Station (Reliance Petroleum) | Corner Pacific Highway and Old Maitland ROAD | Service Station | Regulation under CLM Act not required | -32.82756403 | 151.6846929 |
| HEXHAM | Former Forgacs Site | 21 Sparke STREET | Chemical Industry | Contamination currently regulated under CLM Act | -32.85464558 | 151.6988053 |
| HEXHAM | Caltex-Bogas Warehouse | 239 Old Maitland ROAD | Service Station | Regulation under CLM Act not required | -32.82899942 | 151.6861849 |
| HEXHAM | Industrial Galvanizers | 312 Pacific HIGHWAY | Metal Industry | Contamination currently regulated under POEO Act | -32.83457186 | 151.6884941 |
| HEXHAM | 14 Sparke St Hexham | 14 Sparke STREET | Metal Industry | Under assessment | -32.85394328 | 151.6960863 |
| HILLSTON | Former BP Depot Hillston | 141-143 Cowper STREET | Other Petroleum | Regulation under CLM Act not required | -33.48823546 | 145.5381623 |
| HOLBROOK | Caltex Truckstop | Hume HIGHWAY | Service Station | Regulation under CLM Act not required | -35.71332625 | 147.3207237 |
| HOMEBUSH | Ausgrid Mason Park Substation | 1 Underwood ROAD | Other Industry | Regulation under CLM Act not required | -33.85674677 | 151.0747044 |
| HOMEBUSH BAY | SUEZ Waste Recycling Centre (WRC) and Cleanaway Liquid Waste Treatment Plant (LWTP) | Corner Pondage Link and Hill ROAD | Landfill | Regulation under CLM Act not required | -33.84359299 | 151.0593656 |
| HOMEBUSH WEST | Caltex Service Station Homebush West | 334-336 Parramatta ROAD | Service Station | Regulation under CLM Act not required | -33.8581543 | 151.0681261 |
| HOMEBUSH WEST | Former Ford Landfill | 22 Mandemar AVENUE | Landfill | Under preliminary investigation order | -33.86180526 | 151.0635664 |
| HORNSBY | Midas Car Care Centre Hornsby | 2A Linda STREET | Unclassified | Regulation under CLM Act not required | -33.70052215 | 151.1004786 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| HORNSBY | Coles Express Hornsby | 194- 206 Pacific HIGHWAY | Service Station | Contamination currently regulated under CLM Act | -33.7071993 | 151.0991452 |
| HORNSBY | Hornsby Train Maintenance Centre | 1B Stephen STREET | Other Industry | Regulation under CLM Act not required | -33.69342449 | 151.1035295 |
| HOXTON PARK | Endeavour Energy Hoxton Park | 490 Hoxton Park ROAD | Other Industry | Regulation under CLM Act not required | -33.92766437 | 150.8689069 |
| HUNTERS HILL | Coles Express Hunters Hill | 4 Ryde ROAD | Service Station | Regulation under CLM Act not required | -33.8317985 | 151.141655 |
| HUNTERS HILL | Foreshore Land | Rear of 7, 9 & 11 Nelson PARADE | Other Industry | Contamination currently regulated under CLM Act | -33.84248362 | 151.1649249 |
| HUNTERS HILL | 7, 9 and 11 Nelson Parade Hunters Hill | 7, 9 and 11 Nelson PARADE | Other Industry | Regulation under CLM Act not required | -33.84218911 | 151.164968 |
| HURLSTONE PARK | Former Telstra Depot | 82 Canterbury ROAD | Service Station | Regulation under CLM Act not required | -33.90803171 | 151.1258121 |
| HURLSTONE PARK | Former Speedway Petroleum Service Station | 610 - 618 New Canterbury ROAD | Service Station | Contamination formerly regulated under the CLM Act | -33.90541228 | 151.1322009 |
| HURLSTONE PARK | 7-Eleven Hurlstone Park | 670 New Canterbury ROAD | Service Station | Regulation under CLM Act not required | -33.90510388 | 151.1299825 |
| HURSTVILLE GROVE | Moore Reserve | Morshead DRIVE | Landfill | Contamination currently regulated under CLM Act | -33.97920603 | 151.0873578 |
| INGLEBURN | 7-Eleven Ingleburn | 63 Oxford St (Cnr Cumberland St) STREET | Service Station | Under assessment | -33.9999965 | 150.8680085 |
| INVERELL | Former Shell Depot | 25 Edward STREET | Other Petroleum | Regulation under CLM Act not required | -29.76151684 | 151.1182033 |
| INVERELL | Former Service Station | 20 Oliver STREET | Service Station | Regulation under CLM Act not required | -29.77229743 | 151.1152692 |
| INVERELL | Former Caltex Depot Inverell | 4 Edward STREET | Service Station | Regulation under CLM Act not required | -29.76123104 | 151.1147983 |
| INVERELL | Former Mobil Inverell Depot | 29-33 Edward STREET | Other Petroleum | Regulation under CLM Act not required | -29.76135322 | 151.1171412 |
| INVERELL | Caltex Service Station | 55-59 Ring STREET | Service Station | Regulation under CLM Act not required | -29.76204512 | 151.1141737 |
| INVERELL | Former Mobil Service Station | Corner Otho Street and Henderson STREET | Service Station | Regulation under CLM Act not required | -29.7786926 | 151.1149921 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| INVERELL | Former Caltex Service Station | 141 Otho STREET | Service Station | Regulation under CLM Act not required | -29.77819403 | 151.1145699 |
| ISLINGTON | Caltex Service Station | 240 Maitland ROAD | Service Station | Regulation under CLM Act not required | -32.91138644 | 151.7457701 |
| ISLINGTON | Shell Pipeline Easement (vacant land) | 24 Fern STREET | Other Petroleum | Regulation under CLM Act not required | -32.91706254 | 151.7473809 |
| JAMISONTOWN | BP Service Station Jamisontown | 124 - 128 Mulgoa ROAD | Service Station | Regulation under CLM Act not required | -33.76978323 | 150.6764977 |
| JAMISONTOWN | Former Caltex Jamisontown | 229-231 Mulgoa ROAD | Service Station | Regulation under CLM Act not required | -33.76661447 | 150.6784735 |
| JAMISONTOWN | 7-Eleven Service Station | 92 Mulgoa ROAD | Service Station | Contamination currently regulated under CLM Act | -33.7667231 | 150.6796488 |
| JANNALI | Former Mobil Service Station | 121 Georges River ROAD | Service Station | Regulation under CLM Act not required | -34.01614613 | 151.0681921 |
| JANNALI | Former IGA | 541 Box ROAD | Other Industry | Regulation under CLM Act not required | -34.01602134 | 151.0660384 |
| JENNINGS | Jennings Former Arsenic Poison Factory | Duke Street, Manor Street, and Ballandean STREET | Chemical Industry | Contamination currently regulated under CLM Act | -28.929342 | 151.9298622 |
| JESMOND | Caltex Service Station | 27 Bluegum ROAD | Service Station | Regulation under CLM Act not required | -32.9029287 | 151.691164 |
| JINDABYNE | BP Service Station (Reliance Petroleum) | 8 Kosciuszko ROAD | Service Station | Regulation under CLM Act not required | -36.41478692 | 148.6178882 |
| JINDABYNE | Caltex Service Station | 50 Kosciuszko ROAD | Service Station | Regulation under CLM Act not required | -36.41395847 | 148.6225113 |
| JINGELLIC | Former Jingellic School | 3179 River ROAD | Other Industry | Regulation under CLM Act not required | -35.926501 | 147.701011 |
| JUNEE | Subdivision Proposal | 5858 Gundagai ROAD | Unclassified | Regulation under CLM Act not required | -34.87783587 | 147.6067578 |
| KANAHOOKA | Former Smelter Site | Kanahooka ROAD | Metal Industry | Under assessment | -34.49406369 | 150.8227583 |
| KANDOS | Cement Australia Kandos Cement Works | 1 Jamison STREET | Other Industry | Regulation under CLM Act not required | -32.86399912 | 149.9779259 |
| KANWAL | Kanwal General Store and Fuel Supplies and Adjacent Land | 68 and part of 70 Craigie AVENUE | Service Station | Contamination currently regulated under CLM Act | -33.263026 | 151.482125 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| KANWAL | Former Bus and Truck Rental Yard | 645-647 Pacific Highway HIGHWAY | Other Petroleum | Regulation under CLM Act not required | -33.26233802 | 151.4825469 |
| KARIONG | Coles Express Kariong | 6 Central Coast HIGHWAY | Service Station | Regulation under CLM Act not required | -33.43443192 | 151.2963401 |
| KARIONG | Caltex Service Station | Lot 2 Langford DRIVE | Service Station | Regulation under CLM Act not required | -33.43934827 | 151.2935447 |
| KARUAH | BP Roadhouse Karuah | 403 Tarean ROAD | Service Station | Regulation under CLM Act not required | -32.65371781 | 151.9629963 |
| KATOOMBA | Aldi Stores | 201 Katoomba STREET | Service Station | Regulation under CLM Act not required | -33.71756625 | 150.3101649 |
| KATOOMBA | Former Katoomba/Leura Gasworks | Megalong STREET | Gasworks | Contamination currently regulated under CLM Act | -33.71318559 | 150.3187284 |
| KELLYVILLE | Caltex Service Station | 3-5 Windsor ROAD | Service Station | Regulation under CLM Act not required | -33.71436125 | 150.9602175 |
| KELLYVILLE | BP Service Station Kellyville | 19-23 Windsor ROAD | Service Station | Regulation under CLM Act not required | -33.71280997 | 150.9590756 |
| KELSO | Caltex Service Station Kelso | 19 Sydney ROAD | Service Station | Regulation under CLM Act not required | -33.41904247 | 149.6023985 |
| KELSO | BP Service Station (Reliance Petroleum) | 63 Sydney ROAD | Service Station | Regulation under CLM Act not required | -33.41925328 | 149.6076677 |
| KEMBLA GRANGE | ShawCor Australia | 66 West Dapto ROAD | Other Petroleum | Regulation under CLM Act not required | -34.46875328 | 150.8106326 |
| KEMBLAWARRA | Griffins Bay, Lake Illawarra | Shellharbour ROAD | Landfill | Regulation under CLM Act not required | -34.49653984 | 150.8943776 |
| KEMPS CREEK | Caltex-branded Service Station | 1163 Mamre ROAD | Service Station | Regulation under CLM Act not required | -33.86972102 | 150.7966074 |
| KEMPSEY | Kempsey Showground | 19 Sea STREET | Unclassified | Contamination being managed via the planning process (EP&A Act) | -31.07334836 | 152.8308795 |
| KEMPSEY | Former Shell Depot | 43-51 Gladstone STREET | Other Petroleum | Regulation under CLM Act not required | -31.07500944 | 152.8346699 |
| KEMPSEY | Former Mobil Depot | 14 Hopetoun STREET | Other Petroleum | Regulation under CLM Act not required | -31.07603107 | 152.8350132 |
| KEMPSEY | Shell Coles Express Service Station Kempsey | 165 Smith STREET | Service Station | Regulation under CLM Act not required | -31.07036743 | 152.8461571 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| KEMPSEY | Mobil Depot | 154 Belgrave STREET | Service Station | Regulation under CLM Act not required | -31.07965043 | 152.8326303 |
| KEMPSEY | Liberty (Former Mobil) Service Station | 108-112 Smith STREET | Service Station | Regulation under CLM Act not required | -31.07492508 | 152.8431945 |
| KENSINGTON | 7-Eleven Kensington | 135 Anzac PARADE | Service Station | Regulation under CLM Act not required | -33.91035885 | 151.2228537 |
| KENSINGTON | Former Ampol Service Station | 76-82 Anzac PARADE | Service Station | Regulation under CLM Act not required | -33.9059246 | 151.2242891 |
| KENSINGTON | Footpath adjacent to 10-20 Anzac Parade | 10-20 Anzac PARADE | Service Station | Regulation under CLM Act not required | -33.9032124 | 151.2237836 |
| KENSINGTON | Caltex Service Station | 211-213 Anzac PARADE | Service Station | Regulation under CLM Act not required | -33.91460752 | 151.2251266 |
| KENTHURST | Vacant Land | 259 McCylmonts ROAD | Unclassified | Regulation under CLM Act not required | -33.61283529 | 150.9425303 |
| KHANCOBAN | Khancoban Tip | Alpine WAY | Landfill | Regulation under CLM Act not required | -36.21994191 | 148.1542718 |
| KIAMA | Former Gasworks | 105 to 109 and 113 Shoalhaven STREET | Gasworks | Regulation under CLM Act not required | -34.67416881 | 150.8504143 |
| KIAMA HEIGHTS | Former Mobil Service Station Kiama | 7-9 South Kiama DRIVE | Service Station | Regulation under CLM Act not required | -34.69553931 | 150.8437977 |
| KILLARA | 7-Eleven Service Station (Former Mobil) | 496 Pacific HIGHWAY | Service Station | Contamination currently regulated under CLM Act | -33.77146554 | 151.1606903 |
| KILLARA | Former Caltex Service Station | 692B-694 Pacific HIGHWAY | Service Station | Contamination formerly regulated under the CLM Act | -33.76306802 | 151.1550109 |
| KILLARA | Killara Garage | 544 Pacific HIGHWAY | Service Station | Regulation under CLM Act not required | -33.76974164 | 151.1599696 |
| KILLARA | Former BP Service Station Lindfield | 478 Pacific HIGHWAY | Service Station | Contamination currently regulated under CLM Act | -33.7719298 | 151.1613874 |
| KILLARA | Land Adjacent to Former Service Station Site | 684-684a, 690, 692 and 696 Pacific HIGHWAY | Service Station | Contamination formerly regulated under the CLM Act | -33.76312226 | 151.1549237 |
| KINCUMBER | Frost Reserve | Avoca DRIVE | Landfill | Under assessment | -33.47065695 | 151.3909044 |
| KINGS PARK | Multi-Fill | 14 Garling ROAD | Unclassified | Regulation being finalised | -33.74478046 | 150.9111964 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| KINGS PARK | Former Dow Corning Factory | 21 Tattersall ROAD | Chemical Industry | Regulation under CLM Act not required | -33.75012653 | 150.9138477 |
| KINGSFORD | Caltex Service Station | 603-611 Anzac PARADE | Service Station | Regulation under CLM Act not required | -33.93435787 | 151.2371198 |
| KINGSFORD | Coles Express Service Station Kingsford | 58 Gardeners ROAD | Service Station | Regulation under CLM Act not required | -33.9250054 | 151.2257601 |
| KINGSGROVE | Shell Coles Express Service Station | 137 Kingsgrove ROAD | Service Station | Regulation under CLM Act not required | -33.93276948 | 151.099026 |
| KINGSGROVE | Caltex Kingsgrove | 351-357 Stoney Creek ROAD | Service Station | Regulation under CLM Act not required | -33.95132175 | 151.0926872 |
| KINGSGROVE | State Transit Authority Depot | 17-23 Richland STREET | Other Petroleum | Regulation under CLM Act not required | -33.93646086 | 151.0973617 |
| KIRRAWEE | Ingal Civil Products | 127-141 Bath ROAD | Metal Industry | Regulation under CLM Act not required | -34.03029516 | 151.0754469 |
| KIRRAWEE | 7-Eleven (former Mobil) Service Station | 542-546 Princes HIGHWAY | Service Station | Regulation under CLM Act not required | -34.03238179 | 151.0758071 |
| KIRRAWEE | Caltex-branded Kirrawee Service Station | (1-3 Waratah Street) 487 Princes HIGHWAY | Service Station | Regulation under CLM Act not required | -34.02915971 | 151.0808279 |
| KOGARAH | Scarborough Park South | 184R Production AVENUE | Landfill | Regulation being finalised | -33.97922253 | 151.140276 |
| KOGARAH | Caltex Service Station | 29 President AVENUE | Service Station | Regulation under CLM Act not required | -33.96516866 | 151.141145 |
| KOGARAH | 7-Eleven Service Station | 736 Princes HIGHWAY | Service Station | Regulation under CLM Act not required | -33.96406472 | 151.1376011 |
| KOGARAH | Woolworths Petrol Service Station | 69 Princes HIGHWAY | Service Station | Regulation under CLM Act not required | -33.96330397 | 151.1371182 |
| KOOLKHAN | Former Koolkhan Power Station | Summerland WAY | Other Industry | Regulation under CLM Act not required | -29.61688704 | 152.9300645 |
| KOORAGANG | NPC, berths 2 and 3 | Heron ROAD | Metal Industry | Regulation being finalised | -32.89260063 | 151.7742527 |
| KOORAGANG | Kooragang Island Waste Facility | Off Cormorant ROAD | Metal Industry | Contamination currently regulated under POEO Act | -32.88250732 | 151.7466125 |
| KOORAGANG | Orica Kooragang Island | 15 Greenleaf ROAD | Chemical Industry | Contamination currently regulated under CLM Act | -32.89654619 | 151.7771372 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| KOORAGANG | Former Boral Timber Export Facility | 16 Heron ROAD | Other Industry | Regulation under CLM Act not required | -32.89710295 | 151.7739966 |
| KOORAGANG | Cleanaway Technical Services | 19 Egret STREET | Unclassified | Regulation under CLM Act not required | -32.8634857 | 151.7414904 |
| KOORAGANG | Industrial Facility | 39 Heron ROAD | Chemical Industry | Under assessment | -32.89106439 | 151.7784064 |
| KOORAGANG | Vacant Land | Raven Street and Cormorant ROAD | Unclassified | Regulation under CLM Act not required | -32.88410199 | 151.7701334 |
| KOORAGANG | Linx Logistics | 240 Cormorant ROAD | Other Industry | Regulation under CLM Act not required | -32.87480951 | 151.7757352 |
| KOORINGAL | Former Shell Wagga Depot | 11-15 Lake Albert ROAD | Other Petroleum | Regulation under CLM Act not required | -35.12273113 | 147.3786005 |
| KOORINGAL | Caltex Service Station | 265-267 Lake Albert ROAD | Service Station | Regulation under CLM Act not required | -35.14078443 | 147.3755442 |
| KOORINGAL | Caltex-branded (former Mobil) Service Station | 24 Lake Albert ROAD | Service Station | Regulation under CLM Act not required | -35.12239591 | 147.3769936 |
| KOSCIUSZKO | Smiggin Holes Snow Clearing Shed | Link ROAD | Landfill | Regulation under CLM Act not required | -36.39098211 | 148.4304981 |
| KOSCIUSZKO | Khancoban Spoil Dump | Alpine WAY | Landfill | Regulation under CLM Act not required | -36.21982803 | 148.1527401 |
| KOSCIUSZKO | Sawpit Creek landfill | 13km from Jindabyne, off Kosciuszko ROAD | Landfill | Regulation under CLM Act not required | -36.34858097 | 148.5673374 |
| KURMOND | BP Service Station | 501 Bells Line of road ROAD | Service Station | Contamination formerly regulated under the CLM Act | -33.55096662 | 150.6911676 |
| KURNELL | Former Phillips Imperial Chemicals site | 260 Captain Cook DRIVE | Chemical Industry | Regulation under CLM Act not required | -34.02493837 | 151.1952149 |
| KURNELL | Abbott Australasia | Captain Cook DRIVE | Chemical Industry | Contamination formerly regulated under the CLM Act | -34.02339937 | 151.19921 |
| KURNELL | Former Caltex Kurnell Service Station | Corner Captain Cook Drive and Solander STREET | Service Station | Regulation under CLM Act not required | -34.01269846 | 151.2094347 |
| KURRI KURRI | Caltex Service Station Kurri Kurri | 279-281 Lang STREET | Service Station | Contamination currently regulated under CLM Act | -32.82047175 | 151.477646 |
| KURRI KURRI | Kurri Kurri Smelter | Hart ROAD | Metal Industry | Regulation under CLM Act not required | -32.7873063 | 151.4828827 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| KYOGLE | Caltex Service Station | 22-24 Summerland WAY | Service Station | Regulation under CLM Act not required | -28.61806766 | 153.003862 |
| LAKE HAVEN | Caltex Service Station | Goobarabah Ave Cnr Gorokan DRIVE | Service Station | Regulation under CLM Act not required | -33.24337276 | 151.5065335 |
| LAKEMBA | Former Lakemba Police Station | 59 Quigg STREET | Unclassified | Regulation under CLM Act not required | -33.92199239 | 151.079412 |
| LAKEMBA | Caltex Service Station - Corner Punchbowl Rd and Wangee Rd | 81 Wangee ROAD | Service Station | Regulation under CLM Act not required | -33.91153044 | 151.073306 |
| LAKEMBA | Caltex Service Station | 961-967 Canterbury ROAD | Service Station | Regulation under CLM Act not required | -33.92671102 | 151.0814905 |
| LAMBTON | Caltex Service Station | 422 Newcastle ROAD | Service Station | Regulation under CLM Act not required | -32.9095592 | 151.7109684 |
| LANE COVE | 7-Eleven Service Station | 203 Burns Bay ROAD | Service Station | Regulation under CLM Act not required | -33.81458334 | 151.1543844 |
| LANE COVE | BP-branded Jasbe Service Station | 62-70 Epping ROAD | Service Station | Regulation under CLM Act not required | -33.81108427 | 151.1641531 |
| LANE COVE | Pacific Power | Sirius ROAD | Landfill | Ongoing maintenance required to manage residual contamination (CLM Act) | -33.80701776 | 151.1449658 |
| LANE COVE | Coles Express Service Station Burns Bay | 254 Burns Bay ROAD | Service Station | Regulation under CLM Act not required | -33.81719214 | 151.1518774 |
| LANE COVE NORTH | Former Caltex Service Station | 428-432 Mowbray ROAD | Service Station | Regulation under CLM Act not required | -33.80804563 | 151.1721538 |
| LANE COVE NORTH | BP Artarmon Service Station, Lane Cove North | 432 Pacific HIGHWAY | Service Station | Contamination currently regulated under CLM Act | -33.8112038 | 151.175547 |
| LANE COVE WEST | Caltex Lane Cove West | 235-245 Burns Bay ROAD | Service Station | Regulation under CLM Act not required | -33.81719214 | 151.1518774 |
| LANE COVE WEST | Ventemans Reach Bushland | Off Mars ROAD | Unclassified | Regulation under CLM Act not required | -33.80615015 | 151.1451474 |
| LANSVALE | Mobil Service Station | 161 Hume HIGHWAY | Service Station | Contamination formerly regulated under the CLM Act | -33.89442261 | 150.9571507 |
| LANSVALE | Mobil Service Station | 44 Hume HIGHWAY | Service Station | Regulation under CLM Act not required | -33.89172416 | 150.9656537 |
| LAURIETON | Camden Haven Tyre and Brake Centre (Former Caltex Service Station) | 461 Ocean DRIVE | Service Station | Regulation under CLM Act not required | -31.64367775 | 152.7977735 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| LAVENDER BAY | SRA Land | French STREET | Unclassified | Regulation under CLM Act not required | -33.84560621 | 151.2030148 |
| LAVINGTON | Former Caltex Service Station | 373-375 Wagga ROAD | Service Station | Regulation under CLM Act not required | -36.04797551 | 146.9385325 |
| LAVINGTON | Caltex Service Station | 436 Wagga (corner Dick Road) ROAD | Service Station | Regulation under CLM Act not required | -36.04500034 | 146.9444932 |
| LAVINGTON | Former ERS liquid waste treatment and storage facility | 819 Knights ROAD | Other Industry | Regulation under CLM Act not required | -36.06763885 | 146.942143 |
| LEETON | Former Mobil Depot | 108 Calrose STREET | Other Petroleum | Regulation under CLM Act not required | -34.55813326 | 146.3921296 |
| LEETON | Caltex Service Station | 1 Belah STREET | Service Station | Regulation under CLM Act not required | -34.55421752 | 146.3998431 |
| LEETON | Yenda Producers (formerly Incitec) Leeton | 1 - 2 Canal STREET | Other Petroleum | Regulation under CLM Act not required | -34.55184684 | 146.3862573 |
| LEETON | Former Fuel Depot, Leeton | 1-3 Short STREET | Other Petroleum | Regulation under CLM Act not required | -34.55253237 | 146.3864507 |
| LEICHHARDT | SRA Land | 10-11 Balmain ROAD | Other Industry | Contamination formerly regulated under the CLM Act | -33.87774852 | 151.1590952 |
| LEICHHARDT | Former Kolotex site | 22 George STREET | Other Industry | Contamination currently regulated under CLM Act | -33.88855307 | 151.1482106 |
| LEICHHARDT | Former Labelcraft Site | 30-40 George STREET | Chemical Industry | Contamination currently regulated under CLM Act | -33.88778798 | 151.1484773 |
| LEICHHARDT | Leichhardt Bus Depot Area E | 240 Balmain Road, corner City West LINK | Other Industry | Regulation under CLM Act not required | -33.87589727 | 151.1598073 |
| LEICHHARDT | RailCorp Leichhardt | 7 Darley ROAD | Other Industry | Regulation under CLM Act not required | -33.87520846 | 151.1539012 |
| LENNOX HEAD | Former Caltex Lennox Head | Byron STREET | Service Station | Regulation under CLM Act not required | -28.79189328 | 153.5883225 |
| LENNOX HEAD | Spoors Dip | 13 Fig Tree Hill DRIVE | Cattle Dip | Contamination formerly regulated under the CLM Act | -28.78258175 | 153.5752527 |
| LEPPINGTON | Coles Express Leppington | 1443 Camden Valley WAY | Service Station | Regulation under CLM Act not required | -33.96631609 | 150.8154793 |
| LEUMEAH | Caltex Service Station | 6 Rudd ROAD | Service Station | Regulation under CLM Act not required | -34.05398325 | 150.8299209 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| LEURA | Former Leura Garage | 126-128 Leura MALL | Service Station | Regulation under CLM Act not required | -33.7125311 | 150.3315386 |
| LIDCOMBE | Metro Lidcombe (former Liberty) | 134 John STREET | Service Station | Contamination currently regulated under POEO Act | -33.85466534 | 151.04675 |
| LIDDELL | Liddell Power Station | New England HIGHWAY | Other Industry | Regulation under CLM Act not required | -32.37393962 | 150.9756283 |
| LIDSDALE | Angus Place Colliery | Wolgan ROAD | Other Industry | Regulation under CLM Act not required | -33.35274573 | 150.0996773 |
| LIDSDALE | Kerosene Vale Colliery | Wolgan ROAD | Other Industry | Regulation under CLM Act not required | -33.38145755 | 150.0940097 |
| LIGHTNING RIDGE | Former Ambulance Station | 18 - 42 Pandora STREET | Other Industry | Regulation under CLM Act not required | -29.43133877 | 147.9812981 |
| LIGHTNING RIDGE | Caltex Service Station | Onyx Street, corner Morilla STREET | Service Station | Regulation under CLM Act not required | -29.42922885 | 147.9747954 |
| LILLIAN ROCK | Former 'Peters Dip' Cattle Tick Dip Site | 427 Lillian Rock ROAD | Cattle Dip | Regulation under CLM Act not required | -28.5314327 | 153.1556392 |
| LINDFIELD | 7-Eleven (former Mobil) Service Station | 238 Pacific HIGHWAY | Service Station | Regulation under CLM Act not required | -33.7788603 | 151.1689594 |
| LISAROW | OneSteel Recycling | 902A Pacific HIGHWAY | Metal Industry | Regulation under CLM Act not required | -33.38420179 | 151.3655856 |
| LISMORE | Caltex Lismore Service Station | 136 Woodlark STREET | Service Station | Regulation under CLM Act not required | -28.80807597 | 153.2807591 |
| LISMORE | Shell Coles Express Service Station | 100 Dawson STREET | Service Station | Regulation under CLM Act not required | -28.81140865 | 153.2800472 |
| LISMORE | Former Shell Depot | 116 Wilson STREET | Other Petroleum | Regulation under CLM Act not required | -28.81070081 | 153.2621577 |
| LISMORE | Caltex Service Station | 73-75 Dawson STREET | Service Station | Regulation under CLM Act not required | -28.80894415 | 153.2809619 |
| LISMORE | Lismore Gasworks | Cnr John Street & Keen STREET | Gasworks | Contamination formerly regulated under the CLM Act | -28.81764489 | 153.2710196 |
| LISMORE | SRA Land | Norco LANE | Unclassified | Regulation under CLM Act not required | -28.810742 | 153.2702306 |
| LISMORE HEIGHTS | Coles Express Lismore Heights | 426 Ballina ROAD | Service Station | Contamination currently regulated under CLM Act | -28.81068067 | 153.3053065 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| LISMORE HEIGHTS | Beardow Street Road Reserve | 22 New Ballina ROAD | Unclassified | Under preliminary investigation order | -28.804051 | 153.291801 |
| LITHGOW | Former Shell CVRO and Depot | 77 Bridge Street and 6 Gas Works LANE | Other Petroleum | Regulation under CLM Act not required | -33.47995091 | 150.162216 |
| LITHGOW | Lithgow Thales | 4 Martini PARADE | Metal Industry | Contamination formerly regulated under the CLM Act | -33.49012248 | 150.1415389 |
| LITHGOW | Former Mobil Depot | 353 Main STREET | Other Petroleum | Regulation under CLM Act not required | -33.48235166 | 150.1383012 |
| LITHGOW | Former Gasworks | Mort STREET | Gasworks | Regulation under CLM Act not required | -33.47995167 | 150.1635401 |
| LITHGOW | Jasbe BP-branded Service Station (Former Reliance Petroleum) | 1106 Great Western HIGHWAY | Service Station | Regulation under CLM Act not required | -33.48426647 | 150.134992 |
| LITHGOW | Caltex Lithgow (Quota Park) | Adjacent to 1131 Great Western HIGHWAY | Unclassified | Regulation under CLM Act not required | -33.47927554 | 150.1366238 |
| LIVERPOOL | AC McGrath (Wholesale) Pty Ltd | 20 Shepherd Street and 6A & 6B Atkinson STREET | Other Industry | Regulation under CLM Act not required | -33.9320192 | 150.9236862 |
| LIVERPOOL | Former Car Park | 4 - 6 Rose STREET | Unclassified | Regulation under CLM Act not required | -33.93258955 | 150.9157936 |
| LIVERPOOL | Woolworths Service Station | 59-67 Orange Grove ROAD | Service Station | Regulation under CLM Act not required | -33.90711248 | 150.9178855 |
| LIVERPOOL | 68 Speed Street, Liverpool NSW | 68 Speed STREET | Gasworks | Under assessment | -33.929889 | 150.92243 |
| LOFTUS | BP Freedom Fuel Service Station Loftus | 127 Loftus AVENUE | Service Station | Regulation under CLM Act not required | -34.04570765 | 151.0508004 |
| LONG JETTY | Metro Petroleum Service Station Long Jetty | 326 The Entrance ROAD | Service Station | Under assessment | -33.35897356 | 151.4847709 |
| LONG JETTY | Caltex Service Station | 431 The Entrance ROAD | Service Station | Regulation under CLM Act not required | -33.36022468 | 151.4826553 |
| LONG JETTY | Westside Petroleum Service Station | 290-294 The Entrance ROAD | Service Station | Contamination currently regulated under CLM Act | -33.35688982 | 151.4862246 |
| LONG JETTY | 7-Eleven (former Mobil) Service Station | 184-186 The Entrance ROAD | Service Station | Regulation under CLM Act not required | -33.35089363 | 151.4924904 |
| LONGUEVILLE | Caltex Service Station | 5-7 Northwood ROAD | Service Station | Regulation under CLM Act not required | -33.82452775 | 151.1725758 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| LUCAS HEIGHTS | Harringtons Quarry | access from Little Forest ROAD | Landfill | Contamination currently regulated under CLM Act | -34.03555347 | 150.9751826 |
| LUCAS HEIGHTS | IWC landfill | Little Forest ROAD | Landfill | Contamination currently regulated under CLM Act | -34.03214889 | 150.9753474 |
| LUDDENHAM | Caltex Service Station | 3019-3035 The Northern ROAD | Service Station | Regulation under CLM Act not required | -33.87536093 | 150.6888872 |
| MACKSVILLE | Caltex Service Station | Pacific (22-24 Cooper Street) HIGHWAY | Service Station | Regulation under CLM Act not required | -30.70977455 | 152.9198448 |
| MACLEAN | MacLean Outdoors | 255 River STREET | Service Station | Regulation under CLM Act not required | -29.45782683 | 153.1970725 |
| MACQUARIE FIELDS | Caltex Service Station | 68 Harold STREET | Service Station | Regulation under CLM Act not required | -33.98557276 | 150.8933681 |
| MACQUARIE PARK | Caltex North Ryde Service Station | 41-43 Epping ROAD | Service Station | Regulation under CLM Act not required | -33.79138236 | 151.1312248 |
| MACQUARIE PARK | 1-7 Waterloo Road, Macquarie Park | 1-7 Waterloo ROAD | Other Petroleum | Regulation under CLM Act not required | -33.78806877 | 151.1332148 |
| MACQUARIE PARK | Porters Creek Depot - Proposed Operations Centre Site | 160 Wicks ROAD | Landfill | Regulation under CLM Act not required | -33.785348 | 151.13663 |
| MACQUARIE PARK | De Burghs Cycleway - Lane Cove National Park | Riverside DRIVE | Other Petroleum | Regulation under CLM Act not required | -33.77802854 | 151.1367529 |
| MAITLAND | Maitland Gasworks | Charles STREET | Gasworks | Contamination currently regulated under CLM Act | -32.73603658 | 151.5578926 |
| MAITLAND | Hannan and High Street | Hannan Street and High STREET | Service Station | Regulation under CLM Act not required | -32.72731682 | 151.5515673 |
| MAITLAND | Coles Express Service Station | 235 High STREET | Service Station | Regulation under CLM Act not required | -32.73923807 | 151.5620399 |
| MALABAR | ANZAC Rifle Range former landfill | Franklin STREET | Landfill | Regulation being finalised | -33.95792671 | 151.2566373 |
| MANDALONG | Mandalong Mine | Mandalong ROAD | Other Industry | Regulation under CLM Act not required | -33.11725583 | 151.4616452 |
| MANGROVE MOUNTAIN | Poultry Litter Containment Pit site | 258 Waratah ROAD | Unclassified | Regulation under CLM Act not required | -33.28917277 | 151.167235 |
| MANILLA | Tamworth Regional Council Works Depot - Manilla | 73 River STREET | Other Petroleum | Regulation under CLM Act not required | -30.74879943 | 150.7181011 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| MANLY | Caltex Service Station | 86 Pittwater ROAD | Service Station | Regulation under CLM Act not required | -33.79306889 | 151.2858638 |
| MANLY | Former Little Manly Point Gasworks | End of Stuart STREET | Gasworks | Regulation under CLM Act not required | -33.80842005 | 151.2877784 |
| MANLY | St Patrick's Estate | 151 Darley ROAD | Unclassified | Regulation under CLM Act not required | -33.8044568 | 151.2938595 |
| MANLY | Little Manly Point | Stuart STREET | Gasworks | Contamination formerly regulated under the CLM Act | -33.80814626 | 151.2876245 |
| MANLY VALE | Caltex Service Station Manly Vale | 236-238 Condamine STREET | Service Station | Regulation under CLM Act not required | -33.78508231 | 151.2674386 |
| MANLY VALE | Former Landfill Addiscombe Road | Addiscombe ROAD | Landfill | Contamination currently regulated under CLM Act | -33.78307439 | 151.2747846 |
| MANNERING PARK | Parkview General Store (a former service station) | 2 Vales ROAD | Service Station | Regulation under CLM Act not required | -33.14753814 | 151.5387832 |
| MANNERING PARK | Mannering Park Mini Mart | 70 Vales ROAD | Service Station | Regulation under CLM Act not required | -33.15236501 | 151.5371767 |
| MARAYONG | 7-Eleven (former Mobil Blacktown West) Service Station Marayong | 173 Richmond ROAD | Service Station | Regulation under CLM Act not required | -33.75472796 | 150.8913605 |
| MARAYONG | Woolworths Petrol Service Station Marayong | Corner Vardys Road and Turbo ROAD | Service Station | Regulation under CLM Act not required | -33.7452356 | 150.9041601 |
| MARDI | Former Mardi Landfill | 70-90 McPherson ROAD | Landfill | Regulation under CLM Act not required | -33.29273289 | 151.4100941 |
| MARKS POINT | Former Mobil Service Station (now 7-Eleven) | 770-772 Pacific HIGHWAY | Service Station | Contamination formerly regulated under the CLM Act | -33.05646268 | 151.6533795 |
| MARKS POINT | Former Mobil Aviation Depot Belmont Airport | 864 Pacific HIGHWAY | Other Petroleum | Regulation under CLM Act not required | -33.06657244 | 151.6497674 |
| MAROUBRA | Coles Express Pagewood Service Station, Maroubra | 299 Bunnerong PARADE | Service Station | Regulation under CLM Act not required | -33.94071282 | 151.2285063 |
| MARRANGAROO | United (Former Mobil) Service Station Marrangaroo | 394-398 Great Western HIGHWAY | Service Station | Regulation under CLM Act not required | -33.45253322 | 150.1181023 |
| MARRICKVILLE | Former Mobil Service Station | 384 Illawarra ROAD | Service Station | Regulation under CLM Act not required | -33.91534969 | 151.1506717 |
| MARRICKVILLE | TRW Steering and Suspension | 22-28 Carrington ROAD | Other Industry | Contamination formerly regulated under the CLM Act | -33.92012667 | 151.1566181 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| MARRICKVILLE | Woolworths Petrol Service Station Marrickville | 490 Illawarra ROAD | Service Station | Regulation under CLM Act not required | -33.91845177 | 151.1459951 |
| MARRICKVILLE | RailCorp | 361 Victoria ROAD | Other Industry | Regulation under CLM Act not required | -33.91404835 | 151.1557132 |
| MARRICKVILLE | Mackey Park | Cnr Richardsons Crescent and Carrington ROAD | Landfill | Regulation under CLM Act not required | -33.9220263 | 151.1547903 |
| MARRICKVILLE | Cooks River Aqueduct | Thornley STREET | Unclassified | Contamination formerly regulated under the CLM Act | -33.92204604 | 151.1480332 |
| MARRICKVILLE | 2 Carrington Road | 2 Carrington ROAD | Unclassified | Regulation under CLM Act not required | -33.91596071 | 151.1597199 |
| MARRICKVILLE | Former Dry Cleaners and Loading Dock (adjacent Lot 1 DP612551) | Smidmore STREET | Other Industry | Contamination currently regulated under CLM Act | -33.90707592 | 151.171701 |
| MARSDEN PARK | 226 Grange Avenue | 226 Grange AVENUE | Unclassified | Regulation under CLM Act not required | -33.70259609 | 150.83825 |
| MARSFIELD | Coles Express Service Station Marsfield | 189 Epping ROAD | Service Station | Regulation under CLM Act not required | -33.77519246 | 151.1053691 |
| MARULAN | BP Express Marulan (Northbound) | (Northbound) Hume HIGHWAY | Service Station | Regulation under CLM Act not required | -34.7188332 | 149.9949547 |
| MARULAN | BP Service Station | (Southbound) Hume HIGHWAY | Service Station | Regulation under CLM Act not required | -34.71932066 | 150.0014827 |
| MARYVILLE | 7-Eleven Service Station | 184-188 Hannell STREET | Service Station | Contamination currently regulated under CLM Act | -32.91336028 | 151.7579315 |
| MASCOT | Former Zinc Smelter and Paint Manufacturing Facility | 163 O'Riordan STREET | Metal Industry | Regulation under CLM Act not required | -33.92526513 | 151.1892582 |
| MASCOT | Caltex Service Station | 125 O'Riordan STREET | Service Station | Regulation under CLM Act not required | -33.92309169 | 151.1911539 |
| MASCOT | Mascot Pioneer Plating | 25-29 Ricketty STREET | Metal Industry | Contamination currently regulated under CLM Act | -33.92075288 | 151.1824801 |
| MASCOT | Heritage Business Centre | 5-9 Ricketty STREET | Unclassified | Regulation under CLM Act not required | -33.92029202 | 151.1816656 |
| MASCOT | Telstra Exchange | 904-922 Botany ROAD | Other Industry | Regulation under CLM Act not required | -33.9293166 | 151.1942777 |
| MASCOT | Former Shell Service Station Mascot | 746 Botany ROAD | Service Station | Contamination currently regulated under CLM Act | -33.92352295 | 151.1955852 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| MASCOT | ING Industrial Fund (unoccupied Land and General Parking) | 19-33 Kent ROAD | Landfill | Regulation under CLM Act not required | -33.922765 | 151.185262 |
| MASCOT | Former Mascot Galvanising | 336-348 King STREET | Metal Industry | Contamination currently regulated under CLM Act | -33.92902126 | 151.185874 |
| MASCOT | Sokol Corporation | 50-56 Robey STREET | Other Industry | Regulation under CLM Act not required | -33.93162265 | 151.1904955 |
| MASCOT | Linear Park | Off O'Riordan STREET | Landfill | Regulation under CLM Act not required | -33.92278693 | 151.1904751 |
| MATRAVILLE | Port Botany Bus Depot | 7 Bumborah Point ROAD | Other Petroleum | Regulation under CLM Act not required | -33.96880413 | 151.2255889 |
| MATRAVILLE | Former Golden Fleece Terminal No2 | 151 Beauchamp ROAD | Other Petroleum | Contamination formerly regulated under the CLM Act | -33.95719404 | 151.2259884 |
| MATRAVILLE | Former Rieco Incinerator | Kain AVENUE | Other Industry | Contamination being managed via the planning process (EP&A Act) | -33.95980534 | 151.2423679 |
| MATRAVILLE | 7-Eleven Service Station Matraville | 515 Bunnerong ROAD | Service Station | Contamination currently regulated under CLM Act | -33.95943536 | 151.2317598 |
| MATRAVILLE | Former Golden Fleece Terminal No1 | 133 -149 Beauchamp ROAD | Other Petroleum | Contamination formerly regulated under the CLM Act | -33.95776666 | 151.2248518 |
| MATRAVILLE | Vacant Lot | 3 Wilkes AVENUE | Other Industry | Regulation under CLM Act not required | -33.96006406 | 151.2431087 |
| MATRAVILLE | Eastern Suburbs Memorial Park | 12 Military ROAD | Chemical Industry | Under assessment | -33.9719906 | 151.2274386 |
| MAYFIELD | 7-Eleven (Former Mobil) Service Station | 412-416 Maitland ROAD | Service Station | Regulation under CLM Act not required | -32.89292005 | 151.7300948 |
| MAYFIELD | Shell Coles Express Service Station | 63-69 Maud STREET | Service Station | Regulation under CLM Act not required | -32.89358962 | 151.7221298 |
| MAYFIELD | BHP Closure Site (Hunter River Sediments) | Bed Sediments of the Hunter adjacent to Lot 221 DP1013964 RIVER | Metal Industry | Contamination formerly regulated under the CLM Act | -32.89203741 | 151.7646702 |
| MAYFIELD | Australian Tube Mills Newcastle Site | Industrial DRIVE | Metal Industry | Under assessment | -32.88835767 | 151.7450751 |
| MAYFIELD | BHP Steel River | The Buffer Zone' extending directly adjacent to the Hunter River; near the Tourle Street | Metal Industry | Contamination currently regulated under CLM Act | -32.8773556 | 151.7252427 |
| MAYFIELD | BHPB Supply site | Lot 223 South and West - Industrial DRIVE | Metal Industry | Contamination currently regulated under CLM Act | -32.88583041 | 151.7388423 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| MAYFIELD | Waratah Steel Mill | 23 Frith STREET | Metal Industry | Regulation under CLM Act not required | -32.89426592 | 151.7257429 |
| MAYFIELD | OneSteel (BHP) | Industrial DRIVE | Metal Industry | Contamination currently regulated under CLM Act | -32.88366987 | 151.7449491 |
| MAYFIELD NORTH | OneSteel - Newcastle Wire, Rod and Bar Mills | 141 & 151 Ingall STREET | Metal Industry | Under assessment | -32.89008485 | 151.752949 |
| MAYFIELD WEST | Stevenson Park landfill | 2/559 Maitland ROAD | Landfill | Regulation under CLM Act not required | -32.88472556 | 151.7224791 |
| MAYFIELD WEST | Koppers Coal Tar | East of Woodstock Street and Tourle STREET | Other Industry | Contamination currently regulated under CLM Act | -32.88554791 | 151.7368545 |
| MAYFIELD WEST | Tourle Street Bridge Project | Tourle STREET | Landfill | Regulation under CLM Act not required | -32.88075518 | 151.7330073 |
| MCDOUGALLS HILL | Caltex Service Station | 4949 New England HIGHWAY | Service Station | Regulation under CLM Act not required | -32.54484714 | 151.1490757 |
| MEADOWBANK | Former Council Works Depot | 2 Parsonage STREET | Unclassified | Regulation under CLM Act not required | -33.82191421 | 151.0951974 |
| MENAI | 7-Eleven (Former Mobil) Service Station Menai | 289 Menai ROAD | Service Station | Regulation under CLM Act not required | -34.01579095 | 151.0131737 |
| MENAI | Caltex Service Station Menai | 1 Carter Road ROAD | Service Station | Regulation under CLM Act not required | -34.01654043 | 151.0124133 |
| MEREWETHER | Merewether Childcare Centre | 2/23 Caldwell STREET | Unclassified | Regulation under CLM Act not required | -32.94249653 | 151.7504279 |
| MERIMBULA | Caltex Service Station | 19-25 Merimbula DRIVE | Service Station | Regulation under CLM Act not required | -36.88757881 | 149.9089159 |
| MERIMBULA | Former Mobil Service Station | 27 Market STREET | Service Station | Regulation under CLM Act not required | -36.88941693 | 149.9103485 |
| MERRYLANDS | Former Timber Yard and Hardware | 11-19 Centenary ROAD | Other Petroleum | Regulation under CLM Act not required | -33.83083025 | 150.9698915 |
| MERRYLANDS | Caltex Service Station | 229 Woodville ROAD | Service Station | Regulation under CLM Act not required | -33.84547463 | 150.9983413 |
| MERRYLANDS | Caltex Service Station Merrylands | 148 Woodville ROAD | Service Station | Regulation under CLM Act not required | -33.83818499 | 150.9997199 |
| MERRYLANDS | Stockland Merrylands Court | 249-259 Merrylands ROAD | Service Station | Regulation under CLM Act not required | -33.83560037 | 150.9869735 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| MERRYLANDS | 7-Eleven Merrylands Service Station | 295-297 Merrylands (Cnr Windsor Rd) ROAD | Service Station | Regulation under CLM Act not required | -33.83533205 | 150.9851801 |
| MERRYLANDS | Former Stockfeed Manufacturing Site | 1-7 & 9-11 Neil STREET | Other Petroleum | Regulation under CLM Act not required | -33.83390257 | 150.9947449 |
| MERRYLANDS WEST | Former Mobil Service Station | 3 Centenary ROAD | Service Station | Regulation under CLM Act not required | -33.83214226 | 150.9698958 |
| MILLER | Caltex Service Station | 86 Cartwright AVENUE | Service Station | Regulation under CLM Act not required | -33.91878146 | 150.8827514 |
| MILLERS FOREST | Chichester Trunk Gravity Main | water pipeline | Other Industry | Contamination currently regulated under POEO Act | -32.772877 | 151.6826841 |
| MILLERS POINT | Former AGL Gasworks | 30 - 34 Hickson ROAD | Gasworks | Regulation under CLM Act not required | -33.86179594 | 151.2031726 |
| MILLERS POINT | Moores Wharf UPSS | 4 Towns PLACE | Other Petroleum | Regulation under CLM Act not required | -33.85581123 | 151.2024759 |
| MILLERS POINT | Former AGL Gasworks | 38 Hickson and road reserve ROAD | Gasworks | Contamination being managed via the planning process (EP&A Act) | -33.86280104 | 151.2032452 |
| MILLERS POINT | Former AGL Gasworks | Berths 5, 6 and 7 (already demolished) and part Hickson ROAD | Gasworks | Contamination currently regulated under CLM Act | -33.86053571 | 151.2015022 |
| MILLERS POINT | Former AGL Gasworks | Road reserve fronting 30-38 Hickson ROAD | Gasworks | Contamination currently regulated under CLM Act | -33.86241531 | 151.2024634 |
| MILLERS POINT | Former AGL Gasworks 36 Hickson Road | 36 Hickson ROAD | Gasworks | Contamination formerly regulated under the CLM Act | -33.86243824 | 151.2032514 |
| MILPERRA | Heatcraft Australia Pty Ltd | 286 Horsley ROAD | Other Industry | Regulation under CLM Act not required | -33.94031556 | 150.9958606 |
| MILPERRA | United Group Rail Pty Limited | 373 Horsley ROAD | Landfill | Regulation under CLM Act not required | -33.93286283 | 150.9934071 |
| MILPERRA | Bankstown Golf Club | 70 Ashford AVENUE | Other Petroleum | Regulation under CLM Act not required | -33.93531 | 150.988153 |
| MILPERRA | Caltex Service Station | 264 Milperra ROAD | Service Station | Regulation under CLM Act not required | -33.93018101 | 150.9910964 |
| MILPERRA | Former Landfill | 479 Henry Lawson DRIVE | Landfill | Regulation under CLM Act not required | -33.933968 | 150.977629 |
| MILTON | Former Sanitary Depot | Slaughterhouse ROAD | Other Industry | Regulation under CLM Act not required | -35.33819825 | 150.4471917 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| MILTON | Caltex Milton Service Station and Depot | 331 Princes HIGHWAY | Service Station | Regulation under CLM Act not required | -35.33154474 | 150.4492852 |
| MINCHINBURY | 7-Eleven (former Mobil) Service Station | 815 Great Western HIGHWAY | Service Station | Regulation under CLM Act not required | -33.78812909 | 150.8495992 |
| MINCHINBURY | BP Service Station | 1055 Great Western Highway corner Archbold ROAD | Service Station | Regulation under CLM Act not required | -33.78211857 | 150.8244185 |
| MINTO | Land adjacent to Former Shell depot | Airds Road and Essex STREET | Other Petroleum | Regulation under CLM Act not required | -34.02140447 | 150.8415134 |
| MINTO | Shell Coles Express Service Station | 73 Pembroke STREET | Service Station | Regulation under CLM Act not required | -34.02316454 | 150.8503118 |
| MINTO | Former Endeavour Energy Depot | Pembroke ROAD | Other Petroleum | Regulation under CLM Act not required | -34.0408973 | 150.8451837 |
| MINTO | Logistics Hub - Culverston Road, Minto | Culverston ROAD | Other Petroleum | Regulation under CLM Act not required | -34.0421711 | 150.833825 |
| MIRANDA | Woolworth's Service Station | 455 Kingsway OTHER | Service Station | Contamination currently regulated under CLM Act | -34.03492814 | 151.1124681 |
| MITTAGONG | Enhance (former Coles Express) Service Station | 224 Old Hume HIGHWAY | Service Station | Regulation under CLM Act not required | -34.44746118 | 150.4326183 |
| MITTAGONG | Lots 1 and 2 Alfred St. | Alfred STREET | Other Petroleum | Contamination formerly regulated under the CLM Act | -34.44738105 | 150.4565159 |
| MITTAGONG | Caltex Mittagong Service Station | 65 Bowral ROAD | Service Station | Regulation under CLM Act not required | -34.45245915 | 150.4381291 |
| MOAMA | Caltex Moama Service Station | 73 Meninya (Cnr Regent St) STREET | Service Station | Regulation under CLM Act not required | -36.10815134 | 144.752849 |
| MOLONG | Cabonne BP Service Station | 2 Gidley STREET | Service Station | Contamination currently regulated under CLM Act | -33.09026307 | 148.8695809 |
| MOLONG | Former Gasworks | Hill STREET | Gasworks | Ongoing maintenance required to manage residual contamination (CLM Act) | -33.09074595 | 148.8703262 |
| MONA VALE | Mona Vale Bus Depot | 58 Darley STREET | Other Petroleum | Contamination currently regulated under CLM Act | -33.67452414 | 151.3074246 |
| MONA VALE | Former Caltex service station and adjacent properties | 79 Barrenjoey Road, 2 Polo Avenue, 6 Polo Avenue, 45 Bassett STREET | Service Station | Contamination formerly regulated under the CLM Act | -33.6743659 | 151.3096932 |
| MONA VALE | 7-Eleven (former Mobil) Service Station | 24 Barrenjoey ROAD | Service Station | Regulation under CLM Act not required | -33.676909 | 151.3082515 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| MONA VALE | BP Peninsula Express Service Station | Corner Barrenjoey Road and Darley Street East STREET | Service Station | Regulation under CLM Act not required | -33.67670799 | 151.3090068 |
| MONA VALE | BP Service Station Mona Vale | 1721 Pittwater ROAD | Service Station | Regulation under CLM Act not required | -33.68043443 | 151.3023553 |
| MONA VALE | Caltex Investigation Area | Polo Ave, Perak STREET | Service Station | Contamination formerly regulated under the CLM Act | -33.67431333 | 151.3091148 |
| MOOBALL | Mooball General Store | 5913 Tweed Valley WAY | Service Station | Regulation under CLM Act not required | -28.44204594 | 153.4887648 |
| MOONBI | Caltex Moonbi Service Station | New England HIGHWAY | Service Station | Regulation under CLM Act not required | -31.02264369 | 151.069094 |
| MOORE PARK | Area 2, Moore Park | Driver AVENUE | Unclassified | Regulation under CLM Act not required | -33.89426868 | 151.2226839 |
| MOOREBANK | Caltex Service Station | 216 Newbridge ROAD | Service Station | Regulation under CLM Act not required | -33.92930835 | 150.9551469 |
| MOOREBANK | Joyce Foam Products | 5-9 Bridges ROAD | Chemical Industry | Regulation under CLM Act not required | -33.92596302 | 150.9335273 |
| MOOREBANK | ABB Australia Pty Ltd | (a) 1 Bapaume ROAD | Other Industry | Ongoing maintenance required to manage residual contamination (CLM Act) | -33.94143741 | 150.9208754 |
| MOOREBANK | Caltex Service Station Moorebank | 2 Bridges ROAD | Service Station | Regulation under CLM Act not required | -33.92839682 | 150.9327012 |
| MOOREBANK | Former Concrete Recyclers property, Newbridge Road, Moorebank | Newbridge ROAD | Landfill | Under assessment | -33.938825 | 150.965169 |
| MOORLAND | Caltex Service Station | 99 Jericho ROAD | Service Station | Regulation under CLM Act not required | -31.79436622 | 152.6514849 |
| MOREE | Former Freedom Service Station Site Moree | 1 Dover STREET | Service Station | Contamination currently regulated under CLM Act | -29.4715814 | 149.8440279 |
| MOREE | Caltex Depot | 101 Gosport STREET | Other Petroleum | Regulation under CLM Act not required | -29.47603684 | 149.8476728 |
| MOREE | Former Golden Fleece Depot | Gosport STREET | Other Petroleum | Contamination formerly regulated under the CLM Act | -29.47698315 | 149.8477108 |
| MOREE | Former Mobil Depot | Gosport STREET | Other Petroleum | Contamination formerly regulated under the CLM Act | -29.47771921 | 149.8478438 |
| MOREE | Moree Airport Evaporation Pond | Newell HIGHWAY | Unclassified | Regulation under CLM Act not required | -29.50289837 | 149.8411301 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| MOREE | Caltex Service Station | 54 Alice STREET | Service Station | Contamination currently regulated under CLM Act | -29.47158492 | 149.8433182 |
| MOREE | Former Shell Depot | Adelaide STREET | Other Petroleum | Contamination formerly regulated under the CLM Act | -29.47655335 | 149.8465698 |
| MOREE | Shell Coles Express Service Station | Corner Gwydir and Balo STREET | Service Station | Regulation under CLM Act not required | -29.46081826 | 149.8419975 |
| MOREE | BP Truckstop and Depot Moree | Newell Highway - 423 Frome STREET | Service Station | Regulation under CLM Act not required | -29.48223274 | 149.8463679 |
| MOREE | Sunnyside Road | Sunnyside ROAD | Unclassified | Regulation under CLM Act not required | -29.456633 | 149.8225 |
| MORISSET | Railcorp Station Masters Cottage | 24 Dora STREET | Unclassified | Regulation under CLM Act not required | -33.10849681 | 151.4880317 |
| MORISSET | Morisset High School | Bridge STREET | Unclassified | Regulation under CLM Act not required | -33.10475221 | 151.4866482 |
| MORPETH | Telstra Cable Installation and RTA Bridge work | Northumberland STREET | Other Petroleum | Regulation under CLM Act not required | -32.72489729 | 151.6266795 |
| MORPETH | Former Service Station | Swan STREET | Service Station | Regulation under CLM Act not required | -32.72477413 | 151.6250642 |
| MORTLAKE | Former Petroleum Storage Site | 108-116 Tennyson ROAD | Other Petroleum | Regulation under CLM Act not required | -33.83979033 | 151.1064889 |
| MORTLAKE | Kendall Bay Sediments | Kendall BAY | Gasworks | Contamination currently regulated under CLM Act | -33.83905999 | 151.1120458 |
| MORTLAKE | Former AGL site | Tennyson ROAD | Gasworks | Contamination formerly regulated under the CLM Act | -33.84287407 | 151.1109313 |
| MORTLAKE | Majors Bay Redevelopment | 14-22 Hilly STREET | Other Industry | Regulation under CLM Act not required | -33.839553 | 151.105554 |
| MORUYA | Former Fuel Depot Moruya | 11 to 13 Ford STREET | Other Petroleum | Regulation under CLM Act not required | -35.9112243 | 150.0826475 |
| MORUYA | Caltex Service Station Moruya | 80-84 Campbell STREET | Service Station | Regulation under CLM Act not required | -35.91195596 | 150.0824213 |
| MORUYA | Caltex Service Station | 26 Campbell STREET | Service Station | Regulation under CLM Act not required | -35.9104985 | 150.0711419 |
| MOSMAN | 7-Eleven Mosman | 162A Spit Road Corner Mitchell ROAD | Service Station | Regulation under CLM Act not required | -33.81747016 | 151.2433633 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| MOSMAN | BP Service Station | 175 Ourimbah ROAD | Service Station | Regulation under CLM Act not required | -33.82106757 | 151.233291 |
| MOSMAN | 7-Eleven Service Station Mosman | 45 Spit ROAD | Service Station | Regulation under CLM Act not required | -33.82302718 | 151.2435627 |
| MOSMAN | Allan Border Oval | Myahgah ROAD | Landfill | Regulation under CLM Act not required | -33.82685 | 151.241919 |
| MOSS VALE | Woolworths Service Station Moss Vale | 609 Argyle STREET | Service Station | Regulation under CLM Act not required | -34.55409411 | 150.3609797 |
| MOSS VALE | Coles Express Service Station | 579 Argyle STREET | Service Station | Regulation under CLM Act not required | -34.55313422 | 150.364684 |
| MOSS VALE | Moss Vale Refuelling Facility | Lackey ROAD | Other Petroleum | Regulation under CLM Act not required | -34.54662421 | 150.3721525 |
| MOUNT ANNAN | Woolworths Caltex Mount Annan | 157 Narellan (Corner Smeaton Grange Road) ROAD | Service Station | Under assessment | -34.04685527 | 150.7610434 |
| MOUNT ANNAN | Great Southern Railways Aqueduct | Off Narellan ROAD | Unclassified | Regulation under CLM Act not required | -34.07308479 | 150.7707436 |
| MOUNT COLAH | Caltex Service Station Mount Colah | 603 Pacific HIGHWAY | Service Station | Regulation under CLM Act not required | -33.67034662 | 151.1151861 |
| MOUNT COLAH | Foxglove Oval | Mount Colah ROAD | Landfill | Regulation being finalised | -33.65829855 | 151.1229638 |
| MOUNT DRUITT | Caltex (former Mobil) Service Station | 17 Mount STREET | Service Station | Regulation under CLM Act not required | -33.76567994 | 150.8244544 |
| MOUNT HUTTON | Woolworths Service Station | 46 Wilsons ROAD | Service Station | Regulation under CLM Act not required | -32.9836378 | 151.67309 |
| MOUNT PRITCHARD | 7-Eleven Service Station | 352 Elizabeth DRIVE | Service Station | Regulation under CLM Act not required | -33.90260656 | 150.8963326 |
| MOUNT THORLEY | Bulga Surface Operations | Broke ROAD | Other Industry | Regulation under CLM Act not required | -32.68325751 | 151.1206158 |
| MOUNT THORLEY | Lowes Petroleum (Former BP) Depot Mount Thorley | 74 Mount Thorley ROAD | Other Petroleum | Regulation under CLM Act not required | -32.62443074 | 151.1025122 |
| MOUNT VICTORIA | Former Mobil Service Station | 81 Great Western HIGHWAY | Service Station | Regulation under CLM Act not required | -33.5889727 | 150.2511783 |
| MOUNT VICTORIA | Caltex Service Station | 36a Great Western HIGHWAY | Service Station | Regulation under CLM Act not required | -33.58436517 | 150.2465528 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| MUDGEE | Caltex Service Station | 114-116 Church STREET | Service Station | Regulation under CLM Act not required | -32.59428029 | 149.5876199 |
| MUDGEE | Shell Coles Express Service Station | 47 Church STREET | Service Station | Regulation under CLM Act not required | -32.59347493 | 149.5884623 |
| MUDGEE | BP Service Station Mudgee | 77 Church STREET | Service Station | Regulation under CLM Act not required | -32.59545872 | 149.588123 |
| MUDGEE | Mobil Depot | 47 Douro STREET | Other Petroleum | Contamination currently regulated under CLM Act | -32.60023979 | 149.5823448 |
| MUDGEE | Mudgee Gasworks | Mortimer Street and Court STREET | Gasworks | Regulation under CLM Act not required | -32.59168859 | 149.5817705 |
| MUDGEE | Former Essential Energy Depot | 27-31 Inglis STREET | Other Industry | Regulation under CLM Act not required | -32.60073 | 149.585658 |
| MUDGEE | Former Caltex Depot Mudgee | cnr Nicholson Street & Atkinson STREET | Other Petroleum | Regulation under CLM Act not required | -32.60125298 | 149.5851398 |
| MULGRAVE | 7-Eleven (former Mobil) Service Station | Corner Windsor Road and Mulgrave ROAD | Service Station | Regulation under CLM Act not required | -33.61687781 | 150.8341809 |
| MULWALA | Mulwala ADI Explosives Factory | Bayly STREET | Other Industry | Regulation being finalised | -35.97572689 | 145.9809786 |
| MURWILLUMBAH | Puma Murwillumbah (formerly Matilda ) | 182 Tweed Valley WAY | Service Station | Contamination currently regulated under CLM Act | -28.3263681 | 153.4103824 |
| MURWILLUMBAH | Murwillumbah Ambulance Depot | 27 Queen STREET | Other Petroleum | Regulation under CLM Act not required | -28.32552576 | 153.4000182 |
| MURWILLUMBAH SOUTH | Former Norco Butter Factory (Eastern Portion) | 230 Tweed Valley WAY | Other Petroleum | Regulation under CLM Act not required | -28.32791359 | 153.4073052 |
| MUSWELLBROOK | Former Caltex Depot | 1 Lower William STREET | Other Petroleum | Regulation under CLM Act not required | -32.26614257 | 150.8865136 |
| MUSWELLBROOK | Vacant Rail Land | 27 Brook STREET | Unclassified | Regulation under CLM Act not required | -32.26346086 | 150.8873181 |
| MUSWELLBROOK | United Branded (Former Mobil) Service Station Muswellbrook | 49-51 Maitland STREET | Service Station | Regulation under CLM Act not required | -32.27218162 | 150.8900206 |
| MUSWELLBROOK | Former Mobil Depot Muswellbrook | 43-51 Ford STREET | Other Petroleum | Regulation under CLM Act not required | -32.2599725 | 150.887573 |
| MUSWELLBROOK | Woolworths Petrol | 72 Brook STREET | Service Station | Regulation under CLM Act not required | -32.26325377 | 150.8905966 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| MUSWELLBROOK | Caltex Muswellbrook Service Station | 84-86 Maitland STREET | Service Station | Regulation under CLM Act not required | -32.27793094 | 150.8980938 |
| MUSWELLBROOK | Former Gasworks | Corner Carl Street and Foley STREET | Gasworks | Regulation under CLM Act not required | -32.26672337 | 150.8935982 |
| MUSWELLBROOK | Bayswater Power Station | New England HIGHWAY | Other Industry | Regulation under CLM Act not required | -32.3954046 | 150.9502683 |
| MUSWELLBROOK | Former Industrial Site | Lot 89 Rathmore STREET | Other Industry | Regulation under CLM Act not required | -32.30544071 | 150.8823657 |
| MUSWELLBROOK | Caltex Service Station | 12-16 Sydney STREET | Service Station | Regulation under CLM Act not required | -32.26785559 | 150.8879601 |
| MUSWELLBROOK | Former Caltex Depot | 47-50 Victoria STREET | Service Station | Regulation under CLM Act not required | -32.26788823 | 150.8930609 |
| MUSWELLBROOK | Former Pit Top No. 1 Colliery Muswellbrook Coal | Corner Clendinning Street and Victoria STREET | Other Industry | Regulation under CLM Act not required | -32.27031992 | 150.9009981 |
| NABIAC | Caltex Service Station Nabiac | 3964 Wallanbah (Cnr Wallanbah Rd and Pacific Hwy) ROAD | Service Station | Regulation under CLM Act not required | -32.09864883 | 152.3754346 |
| NAMBUCCA HEADS | Former Mobil Service Station | 6 Bowra STREET | Service Station | Regulation under CLM Act not required | -30.64282127 | 153.0035884 |
| NARELLAN | Caltex Service Station Narellan | 1 George Hunter DRIVE | Service Station | Regulation under CLM Act not required | -34.03963992 | 150.7432386 |
| NARELLAN | Former Landfill | 1 Elyard STREET | Landfill | Regulation under CLM Act not required | -34.043474 | 150.7393256 |
| NAROOMA | Narooma Service Station | 60 Princes HIGHWAY | Service Station | Regulation under CLM Act not required | -36.21617955 | 150.126261 |
| NAROOMA | Former Caltex - Narooma | 82 Princes HIGHWAY | Service Station | Contamination formerly regulated under the CLM Act | -36.21711766 | 150.1279305 |
| NARRABEEN | Caltex Service Station | 1509-1511 Pittwater ROAD | Service Station | Regulation under CLM Act not required | -33.70455756 | 151.2969352 |
| NARRABEEN | Shell Coles Express Service Station | 1418 Pittwater ROAD | Service Station | Regulation under CLM Act not required | -33.70013931 | 151.3002782 |
| NARRABEEN | Narrabeen Shotgun Range Sydney Academy of Sport | Wakehurst PARKWAY | Unclassified | Ongoing maintenance required to manage residual contamination (CLM Act) | -33.72138423 | 151.2642798 |
| NARRABEEN | 7-Eleven Service Station | 1234 Pittwater ROAD | Service Station | Regulation under CLM Act not required | -33.71958892 | 151.298272 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| NARRABRI | Caltex Service Station | 13 Doyle STREET | Service Station | Regulation under CLM Act not required | -30.3239182 | 149.7843052 |
| NARRABRI | Lowes Petroleum (Former Mobil) Narrabri Depot | 3 Old Gunnedah ROAD | Other Petroleum | Regulation under CLM Act not required | -30.33473586 | 149.789587 |
| NARRABRI | Caltex Service Station | 31-35 Cooma ROAD | Service Station | Regulation under CLM Act not required | -30.33968576 | 149.7657241 |
| NARRABRI | Caltex Narrabri Service Station | 31 Dangar (Cnr Anne and Dangar) STREET | Service Station | Regulation under CLM Act not required | -30.32989667 | 149.7756598 |
| NARRABRI | Caltex Service Station | 12 Reid STREET | Other Petroleum | Regulation under CLM Act not required | -30.32282764 | 149.7901182 |
| NARRABRI | Cargill Soapstock Disposal Site | Westport ROAD | Unclassified | Contamination formerly regulated under the CLM Act | -30.4698458 | 149.6981931 |
| NARRABRI | Caltex Service Station | 7-13 James STREET | Service Station | Regulation under CLM Act not required | -30.33016168 | 149.7940732 |
| NARRANDERA | Former Mobil Narrandera Depot | 24 Whitton STREET | Other Petroleum | Regulation under CLM Act not required | -34.7410523 | 146.5620667 |
| NARRANDERA | Former Mobil Emoleum Narrandera Depot | 5-7 Margaret STREET | Other Petroleum | Regulation under CLM Act not required | -34.74105391 | 146.5628144 |
| NARROMINE | Narromine Fuel (Former Caltex) Service Station | Cnr Burraway Street and Algalah STREET | Service Station | Regulation under CLM Act not required | -32.23565321 | 148.2454259 |
| NELLIGEN | Former Clay Target Shooting Range | 1398 Kings Highway and adjoining land on Old Bolaro Mountain ROAD | Unclassified | Contamination currently regulated under CLM Act | -35.64392469 | 150.0955224 |
| NELLIGEN | Lot 2 Old Bolaro Road | Old Bolaro ROAD | Unclassified | Contamination formerly regulated under the CLM Act | -35.64485609 | 150.0937341 |
| NELSON BAY | Shell Coles Express Service Station | 25 Stockton STREET | Service Station | Regulation under CLM Act not required | -32.72265762 | 152.1437317 |
| NELSON BAY | Former Caltex Service Station Nelson Bay | 38 Stockton STREET | Service Station | Regulation under CLM Act not required | -32.72335662 | 152.1429384 |
| NEMINGHA | Caltex Service Station and Depot Nemingha | 428 Armidale (previously 16 New England Highway) ROAD | Service Station | Regulation under CLM Act not required | -31.12425169 | 150.9909054 |
| NEUTRAL BAY | Caltex Service Station | 16-38 Military ROAD | Service Station | Regulation under CLM Act not required | -33.82907162 | 151.2163342 |
| NEUTRAL BAY | Shell Coles Express Service Station | 200-204 Ben Boyd ROAD | Service Station | Regulation under CLM Act not required | -33.82915781 | 151.219437 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| NEW LAMBTON | Caltex Service Station New Lambton | 144 Bridges ROAD | Service Station | Regulation under CLM Act not required | -32.93283668 | 151.7141748 |
| NEW LAMBTON | BP Service Station | 105 St James ROAD | Service Station | Regulation under CLM Act not required | -32.92910325 | 151.7155801 |
| NEW LAMBTON | 7-Eleven (former Mobil) Service Station | 291 Turton ROAD | Service Station | Regulation under CLM Act not required | -32.91773864 | 151.7243096 |
| NEWCASTLE | Reclaimed Land | 26-28 Honeysuckle DRIVE | Unclassified | Contamination formerly regulated under the CLM Act | -32.92604705 | 151.7649508 |
| NEWCASTLE | Wharf Road Newcastle Car Park | 313-317 Wharf ROAD | Unclassified | Regulation under CLM Act not required | -32.92570385 | 151.7744076 |
| NEWCASTLE | Newcastle Foreshore | 40 Stevenson Place STREET | Other Industry | Regulation under CLM Act not required | -32.92556503 | 151.7876742 |
| NEWCASTLE | BHP Steelworks (Closure site) | Bound by Hunter River, Selwyn Street & Industrial DRIVE | Metal Industry | Ongoing maintenance required to manage residual contamination (CLM Act) | -32.89436064 | 151.7590762 |
| NEWCASTLE | SRA Land | Scott STREET | Gasworks | Regulation under CLM Act not required | -32.92641425 | 151.7837817 |
| NEWCASTLE WEST | Former Mobil Service Station | 113 Parry STREET | Service Station | Regulation under CLM Act not required | -32.92560628 | 151.7558542 |
| NEWPORT | 7-Eleven (former Mobil) Service Station | 307 Barrenjoey ROAD | Service Station | Regulation under CLM Act not required | -33.65632902 | 151.3182089 |
| NEWPORT | Former Caltex Service Station Newport | 316-324 Barrenjoey ROAD | Service Station | Regulation under CLM Act not required | -33.65634516 | 151.3191571 |
| NEWTOWN | Caltex Service Station Newtown | 26 - 36 Enmore ROAD | Service Station | Regulation under CLM Act not required | -33.89851331 | 151.17714 |
| NEWTOWN | Former Service Station | 81 Wilson STREET | Service Station | Contamination formerly regulated under the CLM Act | -33.89626791 | 151.1827556 |
| NEWTOWN | Aluminium Enterprises | 66 Brocks LANE | Metal Industry | Contamination was addressed via the planning process (EP&A Act) | -33.89467126 | 151.1847528 |
| NEWTOWN | Adjacent to Former Service Station | 79 Wilson STREET | Service Station | Contamination formerly regulated under the CLM Act | -33.89630155 | 151.1826567 |
| NORAVILLE | Former Toukley Landfill | Wilfred Barrett DRIVE | Landfill | Regulation under CLM Act not required | -33.27734185 | 151.5537784 |
| NORTH ALBURY | Caltex Service Station and Diesel Stop | 79 Union ROAD | Service Station | Regulation under CLM Act not required | -36.05496713 | 146.9487635 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| NORTH BOAMBEE VALLEY | Caltex Service Station | Cnr Pacific Hwy & Halls ROAD | Service Station | Regulation under CLM Act not required | -30.30639482 | 153.1007996 |
| NORTH BONDI | Caltex Service Station North Bondi | 321 Old South Head ROAD | Service Station | Regulation under CLM Act not required | -33.88463526 | 151.268551 |
| NORTH NARRABEEN | 7-Eleven Service Station | 1501-1503 Pittwater ROAD | Service Station | Regulation under CLM Act not required | -33.70749859 | 151.296351 |
| NORTH RICHMOND | Caltex Service Station | 50 Bells Line Of ROAD | Service Station | Regulation under CLM Act not required | -33.57991338 | 150.7202346 |
| NORTH ROCKS | 7-Eleven Service Station North Rocks | 340 North Rocks ROAD | Service Station | Regulation under CLM Act not required | -33.76895144 | 151.0305952 |
| NORTH ST MARYS | BP Service Station | 76 Glossop STREET | Service Station | Regulation under CLM Act not required | -33.76020183 | 150.7818149 |
| NORTH STRATHFIELD | Budget Service Station | 143 Concord ROAD | Service Station | Regulation under CLM Act not required | -33.85945248 | 151.0927853 |
| NORTH STRATHFIELD | Former Caltex Service Station | 92a Concord ROAD | Service Station | Regulation under CLM Act not required | -33.86244297 | 151.0932434 |
| NORTH SYDNEY | Iora Complex | 1 Kiara PLACE | Gasworks | Regulation under CLM Act not required | -33.843145 | 151.2161142 |
| NORTH SYDNEY | Neutral Bay Sediments | Adjacent to Sub Base Platypus, High STREET | Gasworks | Contamination formerly regulated under the CLM Act | -33.842724 | 151.2174523 |
| NORTH SYDNEY | Sub Base Platypus (previously HMAS Platypus) | High STREET | Gasworks | Contamination formerly regulated under the CLM Act | -33.84325935 | 151.2170347 |
| NORTH WOLLONGONG | Former Mobil Depot | 122-126 Montague STREET | Other Petroleum | Regulation under CLM Act not required | -34.40988259 | 150.8939374 |
| NORTHMEAD | Former Prestige Plastics | 1C Redbank ROAD | Other Industry | Regulation under CLM Act not required | -33.79716925 | 150.989926 |
| NORTHMEAD | Coles Express Service Station Northmead | 197 Windsor ROAD | Service Station | Regulation under CLM Act not required | -33.77741733 | 151.0001719 |
| NORTHMEAD | Sydney Water Land | 51c Hammers ROAD | Landfill | Regulation under CLM Act not required | -33.7887535 | 150.9858088 |
| NORTHMEAD | Caltex Service Station | 98-100 Windsor ROAD | Service Station | Regulation under CLM Act not required | -33.78786563 | 150.9945909 |
| NORTHMEAD | 7-Eleven Service Station Northmead | 56 Windsor ROAD | Service Station | Regulation under CLM Act not required | -33.79090731 | 150.9967332 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| NOWRA | Former Gasworks Managers Residence | 24 Osborne STREET | Gasworks | Regulation under CLM Act not required | -34.8708875 | 150.5992586 |
| NOWRA | Fire Station | 69 Bridge ROAD | Gasworks | Regulation under CLM Act not required | -34.87081582 | 150.6004881 |
| NOWRA | Historically Filled Land | 70 Bridge ROAD | Unclassified | Regulation under CLM Act not required | -34.87081809 | 150.6013231 |
| NOWRA | Shell Coles Express Service Station | 55 Kinghorne STREET | Service Station | Regulation under CLM Act not required | -34.87633757 | 150.6023481 |
| NOWRA | Former gasworks | Lamonds LANE | Gasworks | Contamination currently regulated under CLM Act | -34.87111182 | 150.6000803 |
| NOWRA | Former Hollingworth Scrap Yard | 72-74 Jervis and 117 East STREET | Other Industry | Regulation under CLM Act not required | -34.88324216 | 150.6034361 |
| NOWRA | Woolworths Service Station | 60 North Street STREET | Service Station | Under assessment | -34.87266278 | 150.6014052 |
| NOWRA | Harry Sawkins Park | Bounded by Princes Hwy, Graham St & McGrath AVENUE | Gasworks | Regulation under CLM Act not required | -34.87093993 | 150.6037157 |
| NOWRA EAST | Mobil Service Station | Lot 3 Kalandar STREET | Service Station | Contamination formerly regulated under the CLM Act | -34.88850535 | 150.6093504 |
| NYNGAN | Caltex Service Station | 39-41 Pangee STREET | Service Station | Regulation under CLM Act not required | -31.56101006 | 147.1914997 |
| NYNGAN | Caltex Service Station | 126 Pangee STREET | Service Station | Regulation under CLM Act not required | -31.56482841 | 147.2002892 |
| OAK FLATS | Shellharbour City Works Depot | 132 Industrial ROAD | Other Industry | Regulation under CLM Act not required | -34.56546013 | 150.8087225 |
| OBERON | Caltex Service Station and Depot | Lowes Mount ROAD | Service Station | Regulation under CLM Act not required | -33.69509055 | 149.8570553 |
| OBERON | Oberon Timber Complex | Lowes Mount ROAD | Other Industry | Regulation under CLM Act not required | -33.69264862 | 149.8564588 |
| OBERON | Former Shell Depot | 32 O'Connell ROAD | Other Petroleum | Regulation under CLM Act not required | -33.6997172 | 149.8450057 |
| OBERON | CSR Ltd Property and King's Stockyard Creek | Off Endeavour STREET | Other Industry | Contamination formerly regulated under the CLM Act | -33.6922152 | 149.8686909 |
| OCEAN SHORES | Former Ocean Shores Service Station | Pacific HIGHWAY | Service Station | Regulation under CLM Act not required | -28.51270299 | 153.5301496 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| OLD GUILDFORD | Caltex Service Station | 636-644 Woodville ROAD | Service Station | Regulation under CLM Act not required | -33.86670857 | 150.9879189 |
| ORANGE | Former Fuel Depot | 24-28 Peisley STREET | Other Petroleum | Contamination currently regulated under CLM Act | -33.29624293 | 149.1017277 |
| ORANGE | Caltex Orange Depot | 184 Byng STREET | Service Station | Regulation under CLM Act not required | -33.28285589 | 149.1050273 |
| ORANGE | Woolworths Orange Service Station | 357-361 Summer Street, corner William STREET | Service Station | Regulation under CLM Act not required | -33.28445811 | 149.1053604 |
| ORANGE | BP Orange Service Station (Reliance Petroleum) | 81 Summer STREET | Service Station | Regulation under CLM Act not required | -33.2825884 | 149.0951535 |
| ORANGE | BP-Branded Lowes Petroleum Depot | 197 - 201 Margaret STREET | Other Petroleum | Regulation under CLM Act not required | -33.27145977 | 149.1078103 |
| ORANGE | Caltex Summer Street Service Station Orange | 70-74 Summer Street, corner Hill STREET | Service Station | Regulation under CLM Act not required | -33.28311722 | 149.0940712 |
| ORANGE | Lowes Petroleum (BP-branded) Service Station | 76 Peisley STREET | Service Station | Regulation under CLM Act not required | -33.29025034 | 149.1027194 |
| ORANGE | Former Mobil Service Station | 24-28 Bathurst ROAD | Service Station | Regulation under CLM Act not required | -33.2866912 | 149.1066505 |
| ORANGE | BP (Reliance Petroleum) Service Station Orange | 56-60 Bathurst ROAD | Service Station | Regulation under CLM Act not required | -33.28980053 | 149.1086212 |
| ORANGE | Former Mobil Service Station | 168 Peisley STREET | Service Station | Regulation under CLM Act not required | -33.28525478 | 149.1037259 |
| ORANGE | 5-7 Edward St Orange | 5-7 Edward STREET | Other Industry | Contamination currently regulated under CLM Act | -33.29874849 | 149.1038449 |
| OURIMBAH | Palmdale Service Centre Pty Ltd | 3130 Pacific HIGHWAY | Service Station | Regulation under CLM Act not required | -33.3381336 | 151.374586 |
| OURIMBAH | Shell Coles Express Service Station | 78-80 Pacific HIGHWAY | Service Station | Regulation under CLM Act not required | -33.3468202 | 151.3710098 |
| OXLEY VALE | Hayes Transport Services | 10 Manilla ROAD | Other Petroleum | Regulation under CLM Act not required | -31.06991417 | 150.9101381 |
| OYSTER BAY | Shell Coles Express Service Station | 20 Carvers ROAD | Service Station | Contamination currently regulated under CLM Act | -34.00934475 | 151.0758626 |
| OYSTER COVE | Cove Marine Pty Ltd | 60 Frederick STREET | Unclassified | Contamination currently regulated under POEO Act | -32.73549959 | 151.952446 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| PADDINGTON | 7-Eleven Service Station | 59 Oxford STREET | Service Station | Contamination currently regulated under CLM Act | -33.88322921 | 151.2205024 |
| PADDINGTON | Former Workshop | 52 Hopewell STREET | Other Industry | Regulation under CLM Act not required | -33.881947 | 151.222074 |
| PADSTOW | Caltex Padstow | 115 Fairford ROAD | Service Station | Regulation under CLM Act not required | -33.9434571 | 151.0345671 |
| PADSTOW | Selleys / Dulux | 1-29 Gow STREET | Chemical Industry | Regulation under CLM Act not required | -33.93904125 | 151.0381725 |
| PADSTOW | Former Exide Battery Manufacturing & Recycling | 55 Bryant STREET | Other Industry | Contamination currently regulated under CLM Act | -33.94265241 | 151.0378986 |
| PADSTOW | Galvatech | 49 Gow STREET | Metal Industry | Contamination currently regulated under POEO Act | -33.93808679 | 151.0346862 |
| PADSTOW | Foseco Australia | 7 Stuart STREET | Chemical Industry | Regulation under CLM Act not required | -33.94342957 | 151.0377316 |
| PADSTOW | Sebel Furniture | Parts 64 and 92 Gow STREET | Other Industry | Regulation under CLM Act not required | -33.93606752 | 151.0322057 |
| PAGEWOOD | Former Email Site | Corner of Page Street and Holloway STREET | Metal Industry | Contamination currently regulated under CLM Act | -33.94302462 | 151.2132036 |
| PAMBULA | Offsite area (roadways) adjacent to United Service Station Pambula (former Shell) | Corner Quondola Street and Bullara STREET | Service Station | Regulation under CLM Act not required | -36.93104481 | 149.8746763 |
| PARKES | Caltex Service Station Parkes | 352-360 Clarinda STREET | Service Station | Regulation under CLM Act not required | -33.13317454 | 148.173643 |
| PARKES | Former Caltex Parkes (Mugincoble) Depot - Eugowra Rd, Mugincoble | Eugowra ROAD | Service Station | Regulation under CLM Act not required | -33.19007031 | 148.224822 |
| PARKES | BP Truckstop | (Newell Highway) 1 Forbes ROAD | Other Petroleum | Regulation under CLM Act not required | -33.14309226 | 148.1710282 |
| PARKES | Former BP Telescope Service Station | 339-341 Clarinda STREET | Service Station | Regulation under CLM Act not required | -33.13216152 | 148.1743239 |
| PARKES | BP Reliance East End Service Station Parkes | 46 Clarinda STREET | Service Station | Regulation under CLM Act not required | -33.14243539 | 148.1846227 |
| PARKLEA | Caltex Parklea Service Station | Old Windsor (north of Miami Street) ROAD | Service Station | Regulation under CLM Act not required | -33.72427108 | 150.9388531 |
| PARRAMATTA | BP Service Station | 435 Church STREET | Service Station | Regulation under CLM Act not required | -33.80498714 | 151.0056151 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| PARRAMATTA | Coleman Oval Embankment | Cnr of Pitt STREET and Maquarie STREET | Unclassified | Regulation under CLM Act not required | -33.80441625 | 150.9954841 |
| PARRAMATTA | 7-Eleven (former Mobil) Service Station | 81 Victoria ROAD | Service Station | Regulation under CLM Act not required | -33.80919769 | 151.0142894 |
| PARRAMATTA | Parramatta Park Toilet Block Demolition | The Cresent Toilet Block Parramatta PARK | Unclassified | Regulation under CLM Act not required | -33.81054034 | 150.9961968 |
| PAUPONG | Former Timber Treatment Plant | Off Paupong ROAD | Other Industry | Regulation under CLM Act not required | -36.57657408 | 148.6624998 |
| PENDLE HILL | 7-Eleven Service Station | 217 Wentworth AVENUE | Service Station | Regulation under CLM Act not required | -33.8017814 | 150.9577994 |
| PENNANT HILLS | Shell Coles Express Pennant Hills West | 386 Pennant Hills ROAD | Service Station | Contamination currently regulated under CLM Act | -33.73928611 | 151.0679704 |
| PENRITH | Mirvac Industrial Site | 2101 Castlereagh ROAD | Other Industry | Regulation under CLM Act not required | -33.73497514 | 150.6954097 |
| PENRITH | 7-Eleven (former Mobil) Service Station | 212-222 Andrews ROAD | Service Station | Regulation under CLM Act not required | -33.73059678 | 150.6952571 |
| PENRITH | Lowes Petroleum (Former Mobil) Depot Penrith | 174 Coreen AVENUE | Other Petroleum | Regulation under CLM Act not required | -33.74484268 | 150.6980504 |
| PENRITH | Caltex Service Station | Castlereagh Rd Cnr Lugard STREET | Service Station | Regulation under CLM Act not required | -33.73426843 | 150.6933382 |
| PENRITH | BP Express Service Station | Corner Coreen Avenue and Castlereagh ROAD | Service Station | Regulation under CLM Act not required | -33.74385498 | 150.6925743 |
| PENRITH | Crane Enfield Metals | Castlereagh ROAD | Metal Industry | Contamination currently regulated under CLM Act | -33.73734959 | 150.696442 |
| PENRITH | 7-Eleven Service Station Penrith | 30 Henry STREET | Service Station | Regulation under CLM Act not required | -33.75408799 | 150.7045594 |
| PENRITH | Caltex Penrith Service Station | 153 Coreen AVENUE | Service Station | Regulation under CLM Act not required | -33.74287244 | 150.6927071 |
| PENRITH | Jet 60 Dry Cleaners | Shop 3 134-138 Henry STREET | Unclassified | Regulation under CLM Act not required | -33.75231953 | 150.6964541 |
| PENRITH | St Mary's Shopping Village | Charles Hackett DRIVE | Other Industry | Regulation under CLM Act not required | -33.766814 | 150.770363 |
| PENRITH | Former Dry Cleaners | Shop 3, 134-138 Henry STREET | Other Industry | Regulation under CLM Act not required | -33.75231953 | 150.6964541 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| PENSHURST | 7-Eleven Service Station | 612 Forest ROAD | Service Station | Regulation under CLM Act not required | -33.96153533 | 151.0793525 |
| PENSHURST | Caltex Service Station | 641 King Georges ROAD | Service Station | Regulation under CLM Act not required | -33.95985335 | 151.0891118 |
| PERISHER VALLEY | Perisher Centre Loading Dock | Kosciuszko ROAD | Other Petroleum | Regulation under CLM Act not required | -36.40392862 | 148.4111593 |
| PERISHER VALLEY | Perisher Ski Resort | Kosciuszko ROAD | Other Petroleum | Regulation under CLM Act not required | -36.41106374 | 148.4005469 |
| PETERSHAM | Fanny Durack Aquatic Centre | Station STREET | Unclassified | Regulation under CLM Act not required | -33.89194583 | 151.151824 |
| PHEASANTS NEST | 7-Eleven Service Station | (Southbound) Hume HIGHWAY | Service Station | Regulation under CLM Act not required | -34.28291571 | 150.6394606 |
| PHEASANTS NEST | 7-Eleven (former Mobil) Service Station | (Northbound) Hume HIGHWAY | Service Station | Regulation under CLM Act not required | -34.28303112 | 150.6363145 |
| PICTON | Coles Express Picton | 93-99 Argyle STREET | Service Station | Regulation under CLM Act not required | -34.16844337 | 150.6114236 |
| PICTON | McDonalds | 69 -71 Argyle STREET | Service Station | Regulation under CLM Act not required | -34.16711877 | 150.6121524 |
| PITT TOWN | Whites Water Service | 1 Canning PLACE | Other Petroleum | Under assessment | -33.574095 | 150.881258 |
| PLUMPTON | Woolworths Service Station Plumpton (Plumpton Marketplace Shops) | 260 Jersey ROAD | Service Station | Regulation under CLM Act not required | -33.74478874 | 150.8369408 |
| PORT BOTANY | Vopak B | 20 Friendship ROAD | Chemical Industry | Regulation under CLM Act not required | -33.97946548 | 151.2121752 |
| PORT BOTANY | Vopak A | 49 Friendship ROAD | Chemical Industry | Regulation under CLM Act not required | -33.97426175 | 151.2206228 |
| PORT BOTANY | Terminals | 45 Friendship ROAD | Chemical Industry | Regulation under CLM Act not required | -33.97609287 | 151.2174402 |
| PORT BOTANY | Bunnerong Canal | Between Brotherson Dock and Bumborah Point ROAD | Unclassified | Regulation under CLM Act not required | -33.96800557 | 151.2227633 |
| PORT BOTANY | Bulk Liquids Berth UPSS, Port Botany | Charlotte ROAD | Other Petroleum | Regulation under CLM Act not required | -33.97386329 | 151.2120157 |
| PORT BOTANY | Port Operations Centre UPSS, Port Botany | Penrhyn ROAD | Other Petroleum | Regulation under CLM Act not required | -33.96803686 | 151.2205968 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| PORT BOTANY | Port Botany Railway Corridors | Friendship ROAD | Other Industry | Regulation under CLM Act not required | -33.95467008 | 151.2178012 |
| PORT BOTANY | Smith Bros | 4 Bumborah Point ROAD | Other Petroleum | Regulation under CLM Act not required | -33.9681757 | 151.2239505 |
| PORT BOTANY | Vopak Terminals | 21 Fishburn ROAD | Other Industry | Under assessment | -33.978961 | 151.217144 |
| PORT KEMBLA | Coates Hire Facility (Eastern Portion) | 1 Flinders STREET | Other Industry | Regulation under CLM Act not required | -34.47104817 | 150.89162 |
| PORT KEMBLA | Shell Port Kembla CVRO | 87-89 Flinders STREET | Other Petroleum | Regulation under CLM Act not required | -34.46964995 | 150.8953859 |
| PORT KEMBLA | Darcy Road Rail Sidings | Darcy ROAD | Other Industry | Regulation under CLM Act not required | -34.47792834 | 150.9105503 |
| PORT KEMBLA | No 2 Steelworks | Five Islands ROAD | Metal Industry | Regulation under CLM Act not required | -34.45965024 | 150.8844432 |
| PORT KEMBLA | Port Kembla Orica | Foreshore Road and Darcy ROAD | Other Industry | Contamination currently regulated under CLM Act | -34.47773583 | 150.9054545 |
| PORT KEMBLA | Port Kembla, Auszinc Metals and Alloys | Lot 2 Shellharbour ROAD | Metal Industry | Regulation under CLM Act not required | -34.49335414 | 150.8961205 |
| PORT KEMBLA | South Yard Rail Sidings | Lot 3 Old Port ROAD | Unclassified | Regulation under CLM Act not required | -34.47500551 | 150.8951759 |
| PORT KEMBLA | Manildra Park | Flinders STREET | Other Petroleum | Contamination formerly regulated under the CLM Act | -34.46946878 | 150.8935731 |
| PORT KEMBLA | Port Kembla Copper Smelter | Military ROAD | Metal Industry | Contamination currently regulated under POEO Act | -34.4810006 | 150.9063426 |
| PORT KEMBLA | Caltex Service Station | 16 Flinders STREET | Service Station | Regulation under CLM Act not required | -34.47058088 | 150.8945864 |
| PORT KEMBLA | BHP Area 21 | Springhill ROAD | Metal Industry | Contamination formerly regulated under the CLM Act | -34.45244614 | 150.8676517 |
| PORT KEMBLA | Port Kembla Steelworks Recycling Area | Springhill ROAD | Unclassified | Regulation under CLM Act not required | -34.45271181 | 150.8677127 |
| PORT KEMBLA | Commonwealth Rolling Mills (CRM) | Old Port ROAD | Metal Industry | Regulation under CLM Act not required | -34.47476117 | 150.8974746 |
| PORT KEMBLA | Port Kembla, Former Electricity Commission Site | Old Port Road/Christie Drive ROAD | Other Industry | Regulation under CLM Act not required | -34.46899143 | 150.8982854 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| PORT KEMBLA | Port Kembla Steelworks - Steelhaven | Five Islands ROAD | Other Industry | Regulation under CLM Act not required | -34.47605247 | 150.891144 |
| PORT KEMBLA | Port Kembla Steelworks - No.1 Works Site | Five Islands ROAD | Metal Industry | Regulation under CLM Act not required | -34.47386606 | 150.8794912 |
| PORT KEMBLA | Port Kembla Springhill Works | Springhill ROAD | Metal Industry | Regulation under CLM Act not required | -34.45905808 | 150.8749558 |
| PORT MACQUARIE | Former Mobil Depot | 211 Lake ROAD | Other Petroleum | Regulation under CLM Act not required | -31.44688513 | 152.8864499 |
| PORT MACQUARIE | Caltex Service Station | 112-114 Gordon STREET | Service Station | Regulation under CLM Act not required | -31.43491709 | 152.9047618 |
| PORT MACQUARIE | Caltex Port Macquarie Service Station | 29 Lord STREET | Service Station | Regulation under CLM Act not required | -31.43326436 | 152.9169873 |
| PORT MACQUARIE | Coles Myer | 43 John Oxley DRIVE | Service Station | Regulation under CLM Act not required | -31.45741442 | 152.8739626 |
| PORT MACQUARIE | Air BP Avgas Facility | Oliver DRIVE | Other Petroleum | Regulation under CLM Act not required | -31.43227222 | 152.8681083 |
| PORT MACQUARIE | Former Mobil Service Station | Corner Oxley Highway and Major Innes DRIVE | Service Station | Regulation under CLM Act not required | -31.45738931 | 152.873956 |
| PORT MACQUARIE | Port Macquarie Council Depot | Koala STREET | Unclassified | Regulation under CLM Act not required | -31.45341586 | 152.9032764 |
| PORT MACQUARIE | Shell Coles Express Port Macquarie Service Station | 121 Gordon STREET | Service Station | Regulation under CLM Act not required | -31.4343131 | 152.9046869 |
| PORT MACQUARIE | Caltex Service Station | 92 Hastings River DRIVE | Service Station | Regulation under CLM Act not required | -31.42934052 | 152.8830188 |
| PORT MACQUARIE | Caltex Service Station | 12-14 Bolwarra ROAD | Service Station | Regulation under CLM Act not required | -31.45015286 | 152.8854769 |
| PORT MACQUARIE | Car park | 28 Hayward STREET | Other Industry | Regulation under CLM Act not required | -31.43385131 | 152.9072399 |
| PORTLAND | Ivanhoe Colliery | Pipers Flat ROAD | Other Industry | Regulation under CLM Act not required | -33.36595748 | 150.0099577 |
| PORTLAND | Mt Piper Power Station | 350 Boulder ROAD | Other Petroleum | Regulation under CLM Act not required | -33.35581541 | 150.0350801 |
| PRAIRIEWOOD | 7-Eleven (former Caltex) Service Station | 485-487 Smithfield ROAD | Service Station | Regulation under CLM Act not required | -33.87102509 | 150.9031383 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| PROSPECT | 7-Eleven (former Mobil) Service Station Prospect | 354 Flushcombe ROAD | Service Station | Regulation under CLM Act not required | -33.79541624 | 150.9049417 |
| PROSPECT | Pincott's Cottage, Gate C1 | Off Reservoir ROAD | Unclassified | Regulation under CLM Act not required | -33.81589773 | 150.9144343 |
| PROSPECT | Gatehouse, 544 Reservoir Road | 544 Reservoir ROAD | Unclassified | Regulation under CLM Act not required | -33.81049244 | 150.9157439 |
| PROSPECT | Cottage 3, William Lawson Drive | William Lawson DRIVE | Unclassified | Regulation under CLM Act not required | -33.81490331 | 150.9149885 |
| PUNCHBOWL | Former BP Service Station | 1375 Canterbury Road, corner Victoria ROAD | Service Station | Regulation under CLM Act not required | -33.93170424 | 151.0537302 |
| PUNCHBOWL | Punchbowl Laundry | 42-44 Belmore ROAD | Chemical Industry | Contamination currently regulated under CLM Act | -33.93582701 | 151.0562638 |
| PUNCHBOWL | Caltex Service Station Punchbowl | 1285-1289 Canterbury ROAD | Service Station | Regulation under CLM Act not required | -33.93146308 | 151.0596348 |
| PUTNEY | Putney Marina | 20 Waterview STREET | Other Industry | Regulation being finalised | -33.82608091 | 151.1003966 |
| PYMBLE | Caltex Service Station | 1089 Pacific HIGHWAY | Service Station | Regulation under CLM Act not required | -33.74102977 | 151.1385257 |
| PYMBLE | Shell Coles Express Service Station | 21 Ryde ROAD | Service Station | Regulation under CLM Act not required | -33.75198512 | 151.1438115 |
| PYMBLE | Former 3M site | 950 Pacific HIGHWAY | Gasworks | Regulation under CLM Act not required | -33.75050288 | 151.1460578 |
| PYMBLE | Pymble West Dry Cleaners | 6 Philip MALL | Other Industry | Under preliminary investigation order | -33.76109009 | 151.1284329 |
| PYRMONT | Former Council Works Depot (Fig and Wattle Depot) | 14-26 Wattle STREET | Other Industry | Regulation under CLM Act not required | -33.8752655 | 151.1942645 |
| QUAKERS HILL | 7-Eleven (former Mobil) Service Station | 83 Lalor ROAD | Service Station | Regulation under CLM Act not required | -33.72759077 | 150.8966764 |
| QUAKERS HILL | BP Branded Parkway (Former Caltex) Service Station Quakers Hill | 450 Quakers Hill PARKWAY | Service Station | Regulation under CLM Act not required | -33.72998613 | 150.9023617 |
| QUEANBEYAN | Former Mobil Service Station | 153 Uriarra ROAD | Service Station | Regulation under CLM Act not required | -35.34425514 | 149.2148687 |
| QUEANBEYAN | Bill Lilley Automotive | 169 Crawford STREET | Service Station | Regulation under CLM Act not required | -35.35138121 | 149.232486 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| QUEANBEYAN | Woolworths Queanbeyan Service Station | 196 Crawford (Cnr Morisset St) STREET | Service Station | Regulation under CLM Act not required | -35.35163055 | 149.2335759 |
| QUEANBEYAN | Caltex Queanbeyan Service Station | 88 Macquoid (also known as Bungendore Rd) STREET | Service Station | Regulation under CLM Act not required | -35.34930535 | 149.2438607 |
| QUEANBEYAN | Former Mobil Emoleum Depot | 109-111 High STREET | Other Petroleum | Regulation under CLM Act not required | -35.3396115 | 149.237556 |
| QUEANBEYAN | Former Caltex Depot | 20-30 Railway STREET | Other Petroleum | Regulation under CLM Act not required | -35.34523 | 149.22333 |
| QUEANBEYAN EAST | BP-Branded Service Station Queanbeyan | 50 Yass ROAD | Service Station | Regulation under CLM Act not required | -35.34126641 | 149.2445103 |
| QUEANBEYAN WEST | Caltex Service Station | Lanyon Dr Cnr Mccrae St (1 Suraci Place) STREET | Service Station | Regulation under CLM Act not required | -35.36372923 | 149.2067531 |
| QUIRINDI | Former Mobil Depot Quirindi | 4-6 Cross STREET | Other Petroleum | Regulation under CLM Act not required | -31.49903355 | 150.681972 |
| QUIRINDI | Tamarang ServiCentre Quirindi | 113-117 Station (also known as 119-121 Nowland) STREET | Service Station | Under assessment | -31.50179204 | 150.6814611 |
| QUIRINDI | Caltex Service Station, Quirindi | 199-201 George STREET | Service Station | Regulation under CLM Act not required | -31.50654793 | 150.6803589 |
| RAMSGATE | Shell Coles Express Service Station | Grand Parade cnr Ramsgate ROAD | Service Station | Regulation under CLM Act not required | -33.98537988 | 151.1471234 |
| RANDWICK | 7-Eleven Service Station | 126-130 Barker STREET | Service Station | Contamination currently regulated under CLM Act | -33.92096152 | 151.2355927 |
| RANDWICK | Caltex Service Station | 2 Alison ROAD | Service Station | Regulation under CLM Act not required | -33.9065752 | 151.2320697 |
| RANDWICK | Metro Petroleum | 345 Avoca STREET | Service Station | Regulation under CLM Act not required | -33.92544832 | 151.2396799 |
| RANDWICK | Service Station, Randwick | 33-37 Carrington ROAD | Service Station | Contamination currently regulated under CLM Act | -33.90655015 | 151.2525065 |
| RAVENSWORTH | Ravensworth Operations Narama Mine | Lemington ROAD | Other Industry | Regulation under CLM Act not required | -32.47115903 | 151.0359579 |
| RAVENSWORTH | Cumnock Colliery | Pikes Gully ROAD | Other Industry | Regulation under CLM Act not required | -32.40218281 | 150.9960082 |
| RAYMOND TERRACE | Shell Coles Express Raymond Terrace | 107 Adelaide (formerly Pacific Highway) STREET | Service Station | Regulation under CLM Act not required | -32.76110922 | 151.7492847 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| RAYMOND TERRACE | Caltex Service Station Raymond Terrace | 136 Adelaide Street, corner Glenelg STREET | Service Station | Regulation under CLM Act not required | -32.76503842 | 151.7425264 |
| RAYMOND TERRACE | Former Motor Registry | 53 William STREET | Other Petroleum | Regulation under CLM Act not required | -32.76286473 | 151.7445839 |
| RAYMOND TERRACE | Raymond Terrace Wastewater Treatment Works | 22 Elizabeth AVENUE | Other Industry | Regulation under CLM Act not required | -32.774658 | 151.749978 |
| REDFERN | BP Service Station | 116 Regent STREET | Service Station | Regulation under CLM Act not required | -33.89367876 | 151.1995256 |
| REDFERN | Former Printing Works | 101a Marriott STREET | Other Industry | Regulation under CLM Act not required | -33.89512556 | 151.2113422 |
| REDFERN | BP-branded Jasbe Surry Hills | 411 Cleveland STREET | Service Station | Regulation under CLM Act not required | -33.89183974 | 151.2132466 |
| REDFERN | Surry Hills Shopping Village | 397-399 Cleveland & 2-38 Baptist STREET | Other Industry | Under assessment | -33.89229521 | 151.2119397 |
| REVESBY | Dorf Clark Industries | 184-194 Milperra ROAD | Metal Industry | Regulation under CLM Act not required | -33.93387149 | 151.000553 |
| REVESBY | Bituminous Products | 33-35 Violet STREET | Chemical Industry | Contamination currently regulated under CLM Act | -33.93702092 | 151.0067896 |
| REVESBY | Mirotone Pty Ltd | 21 Marigold STREET | Chemical Industry | Contamination currently regulated under POEO Act | -33.93559608 | 151.0002207 |
| REVESBY | Caltex Service Station Revesby | 181 The River ROAD | Service Station | Regulation under CLM Act not required | -33.95573605 | 151.0171779 |
| RHODES | Homebush Bay Sediments adjoining the former UCAL and Allied Feeds sites | Homebush BAY | Chemical Industry | Ongoing maintenance required to manage residual contamination (CLM Act) | -33.8263749 | 151.0839216 |
| RHODES | Former Glad factory site | 10-16 Marquet STREET | Chemical Industry | Regulation under CLM Act not required | -33.82884048 | 151.0848716 |
| RHODES | Former Allied Feeds site | Walker STREET | Other Industry | Contamination was addressed via the planning process (EP&A Act) | -33.82465376 | 151.0870401 |
| RHODES | Former UCAL site | Walker STREET | Chemical Industry | Ongoing maintenance required to manage residual contamination (CLM Act) | -33.82727505 | 151.0853195 |
| RHODES | Homebush Bay sediments adjoining former Berger Paint factory | Oulton AVENUE | Chemical Industry | Ongoing maintenance required to manage residual contamination (CLM Act) | -33.83535308 | 151.083238 |
| RICHMOND | Caltex Richmond Service Station | 98 March (Cnr East Market St) STREET | Service Station | Regulation under CLM Act not required | -33.59937996 | 150.7514483 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| RIVERSTONE | Axalta Coating Systems | 15-23 Melbourne ROAD | Other Industry | Regulation under CLM Act not required | -33.6636649 | 150.8557519 |
| RIVERSTONE | 7-Eleven Riverstone | 55 Garfield ROAD | Service Station | Regulation under CLM Act not required | -33.67802232 | 150.8635246 |
| RIVERSTONE | Woolworths Vineyard Service Station, Riverstone | 1 Woodland Street, corner of Windsor ROAD | Service Station | Regulation under CLM Act not required | -33.65607641 | 150.8724067 |
| RIVERSTONE | Vacant Commercial Land | 88-94 Junction ROAD | Unclassified | Regulation under CLM Act not required | -33.66226398 | 150.8789967 |
| RIVERWOOD | 7-Eleven Riverwood | 30 Bonds ROAD | Service Station | Regulation under CLM Act not required | -33.9523701 | 151.0583887 |
| ROCKDALE | 7-Eleven (former Mobil) Service Station | 293 West Botany STREET | Service Station | Regulation under CLM Act not required | -33.94995672 | 151.1484667 |
| ROCKDALE | 7-Eleven Service Station | 99 Railway STREET | Service Station | Regulation under CLM Act not required | -33.95247322 | 151.1356785 |
| ROOTY HILL | 7-Eleven (former Mobil) Service Station | 106 Rooty Hill Road South ROAD | Service Station | Regulation under CLM Act not required | -33.78036181 | 150.8501998 |
| ROOTY HILL | 7-Eleven (former Mobil) Service Station | 1042 Great Western HIGHWAY | Service Station | Regulation under CLM Act not required | -33.78214955 | 150.8287656 |
| ROSE BAY | Caltex Rose Bay Service Station | 488 Old South Head ROAD | Service Station | Regulation under CLM Act not required | -33.87475145 | 151.2723847 |
| ROSE BAY | Rose Bay Budget Service station | 638 -646 New South Head ROAD | Service Station | Contamination currently regulated under CLM Act | -33.87062149 | 151.2677617 |
| ROSEBERY | Autofoil P/L | 2 Mentmore AVENUE | Other Industry | Regulation under CLM Act not required | -33.91121318 | 151.2054882 |
| ROSEBERY | Caltex Rosebery Service Station | 321 Gardeners (Cnr Macquarie St) ROAD | Service Station | Contamination currently regulated under CLM Act | -33.92302898 | 151.2059541 |
| ROSEBERY | Former Industrial Site (Former Electroplating Facility) | 108 Dunning AVENUE | Other Industry | Regulation under CLM Act not required | -33.91630811 | 151.201557 |
| ROSEBERY | Rosebery Service Station | 395 Gardeners ROAD | Service Station | Contamination formerly regulated under the CLM Act | -33.92246784 | 151.2024589 |
| ROSEHILL | James Hardie Australia and former James Hardie lands | Devon STREET | Landfill | Ongoing maintenance required to manage residual contamination (CLM Act) | -33.82539019 | 151.0339466 |
| ROSEHILL | 2 Ritchie Street, Rosehill | 2 Ritchie STREET | Unclassified | Contamination formerly regulated under the CLM Act | -33.82691192 | 151.0154948 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| ROSEHILL | James Hardie Factory (former, western portion) | 181 James Ruse DRIVE | Other Industry | Ongoing maintenance required to manage residual contamination (CLM Act) | -33.81605834 | 151.0238145 |
| ROSELANDS | Roselands Shopping Centre | 24 Roseland AVENUE | Service Station | Regulation under CLM Act not required | -33.93499281 | 151.0691284 |
| ROSELANDS | Woolworths Caltex Petrol Service Station Roselands | 218 King Georges ROAD | Service Station | Regulation under CLM Act not required | -33.933243 | 151.073586 |
| ROSELANDS | 7-Eleven (former Mobil) Service Station | 91 Canary's ROAD | Service Station | Regulation under CLM Act not required | -33.93356078 | 151.0736274 |
| ROSEVILLE | Mobil Service Station | 2 Boundary STREET | Service Station | Regulation under CLM Act not required | -33.78769177 | 151.1796011 |
| ROSEVILLE CHASE | Coles Express Roseville Chase | 388 Eastern Valley WAY | Service Station | Regulation under CLM Act not required | -33.78337722 | 151.1973901 |
| ROZELLE | Caltex Service Station | 121 Victoria ROAD | Service Station | Regulation under CLM Act not required | -33.86252996 | 151.168497 |
| ROZELLE | 7-Eleven (former Mobil) Service Station | 178-180 (176-184) Victoria ROAD | Service Station | Regulation under CLM Act not required | -33.8630268 | 151.1680857 |
| ROZELLE | Kennards Rozelle | 15-39 Wellington STREET | Other Petroleum | Regulation under CLM Act not required | -33.86176757 | 151.1686519 |
| ROZELLE | White Bay Power Station | Robert STREET | Other Industry | Regulation under CLM Act not required | -33.86674636 | 151.1772204 |
| ROZELLE | BP Service Station | Corner Darling Street and Thornton STREET | Service Station | Regulation under CLM Act not required | -33.8591647 | 151.1716591 |
| RUFUS RIVER | SA Water Depot - Rufus River | Old Wentworth STREET | Other Petroleum | Regulation under CLM Act not required | -34.04191512 | 141.2679475 |
| RUSHCUTTERS BAY | d'Albora Marinas | 1b New Beach ROAD | Other Industry | Contamination currently regulated under POEO Act | -33.87351297 | 151.2345082 |
| RUTHERFORD | Rutherford Transpacific | 11 Kyle STREET | Other Industry | Regulation under CLM Act not required | -32.71105203 | 151.500311 |
| RUTHERFORD | Shell Coles Express Service Station Rutherford | 118 New England HIGHWAY | Service Station | Regulation under CLM Act not required | -32.7208703 | 151.5394595 |
| RUTHERFORD | Caltex Service Station | 134-138 New England HIGHWAY | Service Station | Regulation under CLM Act not required | -32.7202589 | 151.5381526 |
| RUTHERFORD | Transpacific Industrial Services/Nationwide Oil Pty Ltd | 99 Kyle STREET | Chemical Industry | Regulation under CLM Act not required | -32.71262159 | 151.5013865 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| RYDALMERE | Caltex Service Station | 309 Victoria ROAD | Service Station | Regulation under CLM Act not required | -33.81196193 | 151.0371185 |
| RYDALMERE | Mitsubishi Electric | 348 Victoria ROAD | Other Industry | Contamination currently regulated under CLM Act | -33.81040138 | 151.0392812 |
| RYDALMERE | Rheem Australia | 1 Alan STREET | Other Industry | Contamination formerly regulated under the CLM Act | -33.81545013 | 151.0295476 |
| RYDALMERE | BP Service Station | 265 Victoria ROAD | Service Station | Regulation under CLM Act not required | -33.8109483 | 151.0328101 |
| RYDALMERE | Hunter Douglas | Victoria ROAD | Chemical Industry | Regulation under CLM Act not required | -33.81009112 | 151.0384732 |
| RYDALMERE | United Petroleum (former 7-Eleven) Service Station Rydalmere | 262-272 Victoria ROAD | Service Station | Regulation under CLM Act not required | -33.81006724 | 151.032377 |
| RYDE | Shell Coles Express Ryde | 45 Lane Cove ROAD | Service Station | Regulation under CLM Act not required | -33.80726028 | 151.109981 |
| RYDE | Caltex Service Station | 110 Lane Cove ROAD | Service Station | Regulation under CLM Act not required | -33.80142973 | 151.1137925 |
| RYDE | 7-Eleven (former Mobil) Service Station | 326-328 Blaxland ROAD | Service Station | Regulation under CLM Act not required | -33.80242183 | 151.1004278 |
| RYDE | Ryde Bus Depot | 51 - 75 Buffalo ROAD | Other Petroleum | Regulation under CLM Act not required | -33.81679771 | 151.1225255 |
| SANCTUARY POINT | United Service Station, Sanctuary Point | 147 Larmer AVENUE | Service Station | Regulation under CLM Act not required | -35.09918861 | 150.6329537 |
| SANDGATE | Caltex Service Station Sandgate | 162 Maitland ROAD | Service Station | Regulation under CLM Act not required | -32.86501596 | 151.706161 |
| SANDGATE | North Limited Storage Handling facility | Maitland ROAD | Other Industry | Contamination formerly regulated under the CLM Act | -32.86598453 | 151.7012866 |
| SANS SOUCI | 7-Eleven (Former Mobil) Service Station | 474 Rocky Point ROAD | Service Station | Regulation under CLM Act not required | -33.99088939 | 151.1333779 |
| SANS SOUCI | BP Sans Souci | 520 Rocky Point ROAD | Service Station | Under assessment | -33.99246353 | 151.1323243 |
| SANS SOUCI | Kendall Street Reserve | Lawson Street and Kendall STREET | Landfill | Under preliminary investigation order | -33.99966431 | 151.13005 |
| SANS SOUCI | Former Service Station | 542-544 Rocky Point ROAD | Service Station | Contamination was addressed via the planning process (EP&A Act) | -33.99376148 | 151.1316131 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| SANS SOUCI | Former 7-Eleven Ramsgate | 368 Rocky Point ROAD | Service Station | Contamination currently regulated under CLM Act | -33.98631668 | 151.135849 |
| SCONE | Shell Coles Express Service Station | 91- 93 Kelly STREET | Service Station | Contamination currently regulated under CLM Act | -32.04715941 | 150.8676346 |
| SCONE | Scone Works Depot | 220 Susan STREET | Other Petroleum | Regulation under CLM Act not required | -32.04444892 | 150.879152 |
| SCONE | Mobil Scone Airport Elt | 8 Walter Pye AVENUE | Other Petroleum | Regulation under CLM Act not required | -32.03596733 | 150.8323698 |
| SCONE | BP - Former Depot | Scone St, Guernsey St & Susan STREET | Service Station | Contamination formerly regulated under the CLM Act | -32.04599284 | 150.8662046 |
| SEVEN HILLS | 7-Eleven (Former Mobil) Service Station Seven Hills | 151 Prospect HIGHWAY | Service Station | Regulation under CLM Act not required | -33.76894646 | 150.9427004 |
| SEVEN HILLS | Australia Post | 3 Powers ROAD | Unclassified | Regulation under CLM Act not required | -33.77434009 | 150.9395495 |
| SEVEN HILLS | Car Park (Former Brickworks / Warehouse) | 1 Powers ROAD | Other Industry | Regulation under CLM Act not required | -33.77387442 | 150.9379787 |
| SEVEN HILLS | BP-branded Jasbe Petroleum Service Station | 156 Prospect HIGHWAY | Service Station | Regulation under CLM Act not required | -33.76906502 | 150.9414821 |
| SEVEN HILLS | Caltex Service Station | 38 Abbott ROAD | Service Station | Regulation under CLM Act not required | -33.76692649 | 150.9548271 |
| SEVEN HILLS | Caltex Service Station Seven Hills | 105 Station ROAD | Service Station | Regulation under CLM Act not required | -33.77435881 | 150.9448733 |
| SEVEN HILLS | Former Australian Waste Oil Refineries Site | 27 Powers ROAD | Other Industry | Contamination formerly regulated under the CLM Act | -33.77536127 | 150.9511122 |
| SHELLY BEACH | Former Shelly Beach Landfill | Oaks AVENUE | Landfill | Regulation under CLM Act not required | -33.36700551 | 151.4913631 |
| SHORTLAND | Former Astra St landfill | 2 (part) & 28 (part) Astra STREET | Landfill | Contamination currently regulated under CLM Act | -32.86716222 | 151.6966948 |
| SHORTLAND | Tuxford Park landfill | 10 King STREET | Landfill | Regulation under CLM Act not required | -32.87721139 | 151.6936837 |
| SHORTLAND | Former Lorna St landfill | 8/475 Sandgate ROAD | Landfill | Regulation under CLM Act not required | -32.87888726 | 151.7023245 |
| SHORTLAND | 7-Eleven (Former BP) Service Station | 298-302 Sandgate ROAD | Service Station | Regulation under CLM Act not required | -32.8861645 | 151.6953912 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| SILVERWATER | Former Silverwater Landfill | Carnarvon ROAD | Landfill | Contamination currently regulated under CLM Act | -33.83506394 | 151.033214 |
| SILVERWATER | Vacant property | 103-105 Silverwater ROAD | Other Industry | Regulation under CLM Act not required | -33.83831374 | 151.0472576 |
| SILVERWATER | Storage Facility | 54-58 Derby STREET | Unclassified | Under assessment | -33.83855869 | 151.0478649 |
| SILVERWATER | Former Printing Facility | 46-58 Derby STREET | Unclassified | Under assessment | -33.83855869 | 151.0478649 |
| SILVERWATER | Silverwater Correctional Complex | Holker STREET | Landfill | Regulation being finalised | -33.82944797 | 151.0567486 |
| SINGLETON | BP Service Station Singleton | 53 George (Cnr Macquarie St) STREET | Other Petroleum | Regulation under CLM Act not required | -32.56182325 | 151.1748054 |
| SINGLETON | Singleton Gasworks | 55-57 John STREET | Gasworks | Contamination currently regulated under CLM Act | -32.56774715 | 151.1658188 |
| SINGLETON | Shell Coles Express Service Station | 69-73 George STREET | Service Station | Regulation under CLM Act not required | -32.56297156 | 151.1755215 |
| SINGLETON | Mobil Singleton Airport Elt | 74B Range ROAD | Other Petroleum | Regulation under CLM Act not required | -32.60270846 | 151.1944828 |
| SINGLETON | Putty Saw Mill | (via Singleton) Putty ROAD | Other Industry | Contamination currently regulated under CLM Act | -32.99958725 | 150.7111684 |
| SINGLETON | NSW Mines Rescue Services - Singleton | 6 Lachlan AVENUE | Other Industry | Regulation under CLM Act not required | -32.54537821 | 151.156584 |
| SMITHFIELD | Caltex Smithfield | 16-18 Tait STREET | Service Station | Regulation under CLM Act not required | -33.84596441 | 150.9435497 |
| SMITHFIELD | Freestones | 1 Hume ROAD | Other Petroleum | Regulation under CLM Act not required | -33.83577694 | 150.9310112 |
| SMITHFIELD | Liquip International | 13 Hume ROAD | Other Industry | Regulation under CLM Act not required | -33.83802635 | 150.9319034 |
| SMITHFIELD | Coles Express (former Mobil) Service Station | 678 The Horsley Drive, corner Smithfield ROAD | Service Station | Regulation under CLM Act not required | -33.85376154 | 150.9400104 |
| SMITHFIELD | Former Landfill | Little STREET | Landfill | Contamination being managed via the planning process (EP&A Act) | -33.85025253 | 150.9411561 |
| SOUTH ALBURY | BP Border Service Station | Corner Ebden Street and Wodonga PLACE | Service Station | Contamination currently regulated under CLM Act | -36.08875942 | 146.9093882 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| SOUTH BOWENFELS | Shell Coles Express Service Station | Lot 1 Great Western HIGHWAY | Service Station | Regulation under CLM Act not required | -33.50589001 | 150.1238487 |
| SOUTH COOGEE | Caltex South Coogee Service Station | 169-173 Malabar ROAD | Service Station | Regulation under CLM Act not required | -33.93233184 | 151.2574377 |
| SOUTH GRAFTON | Shell Coles Express Service Station | 91 Bent STREET | Service Station | Regulation under CLM Act not required | -29.70605829 | 152.9400329 |
| SOUTH GRAFTON | Former United (former Mobil) Service Station | Corner Pacific Highway and Charles STREET | Service Station | Regulation under CLM Act not required | -29.70814828 | 152.9412928 |
| SOUTH GRAFTON | Former Caltex Service Station | 46-58 Schwinghammer STREET | Service Station | Regulation under CLM Act not required | -29.71128273 | 152.9458313 |
| SOUTH GRAFTON | Former Caltex Depot South Grafton | 72-82 Swallow ROAD | Other Petroleum | Regulation under CLM Act not required | -29.73168549 | 152.944024 |
| SOUTH GRAFTON | Caltex Service Station | Pacific Hwy Cnr Gwyder HIGHWAY | Service Station | Regulation under CLM Act not required | -29.70739015 | 152.9425508 |
| SOUTH GRANVILLE | Enhance Service Station south Granville | 2 Rawson ROAD | Service Station | Regulation under CLM Act not required | -33.86366193 | 151.0088768 |
| SOUTH KEMPSEY | Caltex Service Station | 52 Lachlan STREET | Service Station | Regulation under CLM Act not required | -31.09361084 | 152.8370796 |
| SOUTH LISMORE | North Coast Petroleum (Former Mobil) Depot Lismore | 19-21 Elliot ROAD | Other Petroleum | Regulation under CLM Act not required | -28.81212046 | 153.2661935 |
| SOUTH LISMORE | Former Mobil Service Station | 126 - 128 Union STREET | Service Station | Regulation under CLM Act not required | -28.81242175 | 153.267541 |
| SOUTH LISMORE | Caltex Service Station | 237 Union STREET | Service Station | Regulation under CLM Act not required | -28.82052708 | 153.2648111 |
| SOUTH LISMORE | Former Mobil Depot | 26-32 Phyllis STREET | Other Petroleum | Regulation under CLM Act not required | -28.81005206 | 153.2660073 |
| SOUTH MURWILLUMBAH | Former Caltex Depot | 39 Lundberg DRIVE | Service Station | Regulation under CLM Act not required | -28.332622 | 153.4212884 |
| SOUTH MURWILLUMBAH | Caltex Service Station | 1-7 Buchanan (Cnr Tweed Valley Way) STREET | Service Station | Regulation under CLM Act not required | -28.32687988 | 153.4093274 |
| SOUTH MURWILLUMBAH | Former Mobil Depot | 45 Wardrop STREET | Other Petroleum | Regulation under CLM Act not required | -28.33421395 | 153.3993772 |
| SOUTH NOWRA | Caltex South Nowra | 100 Princes HIGHWAY | Service Station | Regulation under CLM Act not required | -34.90516081 | 150.6029621 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| SOUTH PENRITH | 7-Eleven Service Station | 45 Aspen STREET | Service Station | Regulation under CLM Act not required | -33.77727694 | 150.7107228 |
| SOUTH TAMWORTH | Coles Express Tamworth | 251 - 253 Goonoo Goonoo ROAD | Service Station | Contamination currently regulated under CLM Act | -31.11058167 | 150.9236721 |
| SOUTH TAMWORTH | Caltex Service Station | 2 Kathleen Street, corner Kent STREET | Service Station | Regulation under CLM Act not required | -31.10361712 | 150.9186343 |
| SOUTH WENTWORTHVILLE | Aldi Stores Development | 331-339 Great Western HIGHWAY | Metal Industry | Regulation under CLM Act not required | -33.81605854 | 150.9697429 |
| SOUTH WENTWORTHVILLE | Caltex Service Station | 313 Great Western HIGHWAY | Service Station | Regulation under CLM Act not required | -33.81643692 | 150.9718802 |
| SOUTH WEST ROCKS | Former Trial Bay Caltex Depot | Phillip DRIVE | Other Petroleum | Regulation under CLM Act not required | -30.89190078 | 153.0573056 |
| SOUTH WEST ROCKS | Former Shell Trial Bay Depot | Phillip DRIVE | Other Petroleum | Regulation under CLM Act not required | -30.89273836 | 153.0612772 |
| SOUTH WEST ROCKS | Residential area and Reserve opposite Former Caltex terminal | Phillip DRIVE | Other Petroleum | Regulation under CLM Act not required | -30.89172594 | 153.0573164 |
| SOUTH WEST ROCKS | South West Rocks Public Pit Toilets | Off New Entrance ROAD | Other Industry | Under assessment | -30.88143126 | 153.0304672 |
| SPRINGVALE | Springvale Colliery | Castlereagh HIGHWAY | Other Industry | Regulation under CLM Act not required | -33.40334736 | 150.1070462 |
| ST CLAIR | 7-Eleven (former Mobil) Service Station | 4 Endeavour AVENUE | Service Station | Regulation under CLM Act not required | -33.79430926 | 150.7885793 |
| ST IVES | 7-Eleven (former Mobil) St Ives Service Station | 157-159 Mona Vale Road, corner Putarri AVENUE | Service Station | Regulation under CLM Act not required | -33.73265301 | 151.1563899 |
| ST IVES | Caltex Service Station | 452 Mona Vale ROAD | Service Station | Regulation under CLM Act not required | -33.70752272 | 151.187545 |
| ST IVES | Caltex Service Station | 164 Mona Vale ROAD | Service Station | Regulation under CLM Act not required | -33.7307595 | 151.1570462 |
| ST IVES | Caltex Service Station St Ives | 363 Mona Vale ROAD | Service Station | Regulation under CLM Act not required | -33.7168971 | 151.1735263 |
| ST IVES | Shell Service Station | 179-181 Mona Vale ROAD | Service Station | Contamination formerly regulated under the CLM Act | -33.73124859 | 151.1575827 |
| ST LEONARDS | Telstra Data Centre | 4A Herbert STREET | Other Petroleum | Regulation under CLM Act not required | -33.81873741 | 151.1914222 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| ST MARYS | Former Woolworths Service Station | 120-128 Forrester ROAD | Service Station | Regulation under CLM Act not required | -33.75525115 | 150.7752897 |
| ST MARYS | 7-Eleven (former Mobil) Service Station | 2 Christie STREET | Service Station | Regulation under CLM Act not required | -33.74790843 | 150.7767667 |
| ST MARYS | 7-Eleven (former Mobil) Service Station | 2 Wilson STREET | Service Station | Regulation under CLM Act not required | -33.77790415 | 150.771689 |
| ST MARYS | Solveco | 38 LINKS ROAD | Other Industry | Contamination currently regulated under CLM Act | -33.738673 | 150.771554 |
| ST MARYS | Integral Energy Mt Druitt Transmission Substation | 69 Kurrajong North ROAD | Other Industry | Regulation under CLM Act not required | -33.76376093 | 150.7921691 |
| ST MARYS | Caltex St Marys Service Station | Wordoo St Cnr Forrester ROAD | Service Station | Regulation under CLM Act not required | -33.75334263 | 150.7755489 |
| ST MARYS | Chemcolour Industries | 19-25 Anne STREET | Chemical Industry | Under assessment | -33.75027071 | 150.7725397 |
| ST MARYS | Old Drycleaning location | 1-7 Queen STREET | Other Industry | Under assessment | -33.73873 | 150.771747 |
| ST PETERS | Cooks River Rail Terminal | 20 Canal ROAD | Unclassified | Regulation under CLM Act not required | -33.91943986 | 151.1726689 |
| ST PETERS | Camdenville Park | May STREET | Other Industry | Regulation under CLM Act not required | -33.90911815 | 151.176951 |
| ST PETERS | Former Tidyburn Facility | 53 Barwon Park ROAD | Chemical Industry | Contamination formerly regulated under the CLM Act | -33.9130091 | 151.1809912 |
| ST PETERS | BP Express Service Station | 2 Princes HIGHWAY | Service Station | Regulation under CLM Act not required | -33.90982281 | 151.1809936 |
| ST PETERS | Former Industrial Manufacturing Facility (Taubman's Paints) | 75 Mary STREET | Other Industry | Regulation under CLM Act not required | -33.91307297 | 151.1731383 |
| STANMORE | 125 Corunna Road | 125 Corunna ROAD | Unclassified | Regulation under CLM Act not required | -33.88937382 | 151.1644589 |
| STOCKTON | Former Coroba Landfill | 310 Fullerton STREET | Landfill | Under assessment | -32.89807537 | 151.7896891 |
| STRATHFIELD | 7-Eleven (former Mobil) Service Station | 577 Liverpool ROAD | Service Station | Regulation under CLM Act not required | -33.88736091 | 151.0743474 |
| STRATHFIELD SOUTH | Former Landfill Site | 7-9 Dunlop STREET | Landfill | Regulation under CLM Act not required | -33.89509698 | 151.0796751 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| STROUD | Stroud Fuel Supplies (Former Caltex) Service Station | 1 Cowper STREET | Service Station | Regulation under CLM Act not required | -32.39092749 | 151.9563089 |
| SUFFOLK PARK | BP Service Station | 207-209 Broken Head ROAD | Service Station | Regulation under CLM Act not required | -28.68800088 | 153.6083821 |
| SUFFOLK PARK | Suffolk Park dip site | Cnr Broken Head Road & Beech DRIVE | Cattle Dip | Regulation under CLM Act not required | -28.6874242 | 153.6072824 |
| SURRY HILLS | Woolworths Petrol Surry Hills | 475 Cleveland STREET | Service Station | Regulation under CLM Act not required | -33.89203644 | 151.216217 |
| SURRY HILLS | Former Legion Cabs (Trading) Cooperative | 81 & 81A (Formerly 69 - 81) Foveaux STREET | Service Station | Regulation under CLM Act not required | -33.88470082 | 151.2107944 |
| SURRY HILLS | Ausgrid Road Reserve | Mary STREET | Other Industry | Regulation under CLM Act not required | -33.88292195 | 151.2095176 |
| SUTHERLAND | United Service Station and Sutherland Reservoir | 1 to 3 Oxford STREET | Service Station | Contamination currently regulated under CLM Act | -34.029532 | 151.0579906 |
| SUTHERLAND | 7-Eleven Service Station | 693 Old Princes HIGHWAY | Service Station | Regulation under CLM Act not required | -34.02976735 | 151.0588789 |
| SUTTON FOREST | Coles Express Sutton Forest West | Hume HIGHWAY | Service Station | Regulation under CLM Act not required | -34.60808989 | 150.2250592 |
| SWANSEA | Caltex Service Station | 126 Pacific HIGHWAY | Service Station | Regulation under CLM Act not required | -33.08811841 | 151.6381764 |
| SWANSEA | Swansea 1 - Wastewater Pumping Station | 137 and 137a Northcote AVENUE | Other Industry | Under assessment | -33.09745672 | 151.6473257 |
| SYDENHAM | SRA Land | 117 Railway PARADE | Other Industry | Regulation under CLM Act not required | -33.91560723 | 151.1656846 |
| SYDENHAM | Sydenham XPT Maintenance Facility | Way STREET | Other Industry | Regulation under CLM Act not required | -33.91698468 | 151.1614089 |
| SYDNEY | Interpro House (OSP 46581) | 447 Kent STREET | Other Petroleum | Regulation under CLM Act not required | -33.87225413 | 151.204761 |
| SYDNEY | Eurostar Dry Cleaners | 100 Oxford STREET | Chemical Industry | Under assessment | -33.879333 | 151.215668 |
| SYDNEY OLYMPIC PARK | RMS Western Precinct | 14A-14E and 16 Hill ROAD | Other Petroleum | Regulation under CLM Act not required | -33.82239777 | 151.0758664 |
| SYDNEY OLYMPIC PARK | Haslams Creek South Area 3 | At Kronos Hill, Kevin Coombes AVENUE | Landfill | Contamination formerly regulated under the CLM Act | -33.84113059 | 151.0602966 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| SYDNEY OLYMPIC PARK | Bicentennial Park | Bicentennial DRIVE | Landfill | Ongoing maintenance required to manage residual contamination (CLM Act) | -33.84456248 | 151.0788116 |
| SYDNEY OLYMPIC PARK | Former Golf Driving Range Landfill | Sarah Durack AVENUE | Landfill | Ongoing maintenance required to manage residual contamination (CLM Act) | -33.85358517 | 151.0713987 |
| SYDNEY OLYMPIC PARK | Kronos Hill Landfill | Kevin Coombes AVENUE | Landfill | Ongoing maintenance required to manage residual contamination (CLM Act) | -33.84014442 | 151.0649521 |
| SYDNEY OLYMPIC PARK | Wilson Park (Former oil gas plant site) | Newington ROAD | Gasworks | Ongoing maintenance required to manage residual contamination (CLM Act) | -33.82633586 | 151.0534322 |
| SYDNEY OLYMPIC PARK | Woo-la-ra Landfill | Hill ROAD | Landfill | Ongoing maintenance required to manage residual contamination (CLM Act) | -33.82695807 | 151.07282 |
| SYDNEY OLYMPIC PARK | Aquatic Centre Carpark Landfill | Shane Gould AVENUE | Landfill | Ongoing maintenance required to manage residual contamination (CLM Act) | -33.85093439 | 151.0656713 |
| SYDNEY OLYMPIC PARK | Blaxland Common Landfill | Jamieson STREET | Landfill | Ongoing maintenance required to manage residual contamination (CLM Act) | -33.82638382 | 151.05972 |
| SYLVANIA | Caltex Service Station - Sylvania Heights | 414-416 Princes HIGHWAY | Service Station | Contamination currently regulated under CLM Act | -34.02361051 | 151.0895394 |
| SYLVANIA | Caltex Service Station | 61 Port Hacking ROAD | Service Station | Regulation under CLM Act not required | -34.0140089 | 151.104212 |
| TALBINGO | Old Town Landfill | Bridle STREET | Landfill | Regulation under CLM Act not required | -35.59018237 | 148.3041771 |
| TALBINGO | T3 Spoil dump and adjoining river sediments | Off Snowy Mountains HIGHWAY | Landfill | Contamination formerly regulated under the CLM Act | -35.6177268 | 148.2926158 |
| TALBINGO | Former grit blasting site | Old Damsite ROAD | Other Industry | Regulation under CLM Act not required | -35.60894551 | 148.3030165 |
| TAMINDA | Mobil Depot | 9 Hinkler ROAD | Other Petroleum | Regulation under CLM Act not required | -31.09584286 | 150.9040493 |
| TAMWORTH | Caltex Tamworth Service Station | 109 Gunnedah ROAD | Service Station | Regulation under CLM Act not required | -31.09723226 | 150.8955299 |
| TAMWORTH | Curlew Crescent | 19-29 Curlew CRESCENT | Metal Industry | Regulation under CLM Act not required | -31.06963607 | 150.9069306 |
| TAMWORTH | Former Service Station, Fitzpatrick Super Fund, Tamworth | 210 Goonoo Goonoo ROAD | Service Station | Regulation under CLM Act not required | -31.10613594 | 150.9234143 |
| TAMWORTH | Gunnedah Road Site | 49 GUNNEDAH ROAD | Other Industry | Contamination formerly regulated under the CLM Act | -31.09574904 | 150.9021583 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| TAMWORTH | Elovera Former Sheep Dip | 730 Ascot Calala ROAD | Cattle Dip | Regulation under CLM Act not required | -31.1801846 | 150.962897 |
| TAMWORTH | Housing NSW | 29 -33 White STREET | Other Petroleum | Regulation under CLM Act not required | -31.0915651 | 150.9357811 |
| TAMWORTH | BP Tamworth Service Station and Depot | 27-29 Gunnedah ROAD | Other Petroleum | Under assessment | -31.09642128 | 150.9058193 |
| TAMWORTH | Former Mobil Service Station | 373-375 Armidale ROAD | Service Station | Regulation under CLM Act not required | -31.10122679 | 150.9441341 |
| TAMWORTH | Kensell's Mitsubishi | 11-14 Kable AVENUE | Other Petroleum | Regulation under CLM Act not required | -31.08921565 | 150.9273063 |
| TAMWORTH | Caltex Star Tamworth | 21 White STREET | Service Station | Regulation under CLM Act not required | -31.09255137 | 150.9341709 |
| TAMWORTH | Former Service Station Tamworth | (Cnr Scott Rd) 254-256 Goonoo Goonoo ROAD | Service Station | Regulation under CLM Act not required | -31.1118945 | 150.9228523 |
| TAMWORTH | Cleanaway Operations Pty Ltd | 31 Gunnedah ROAD | Other Industry | Under assessment | -31.09621029 | 150.9051567 |
| TAMWORTH | Elgas Depot (former gasworks) | 115 Marius STREET | Gasworks | Under assessment | -31.085682 | 150.926088 |
| TAMWORTH | Proposed ALDI Store Tamworth | 194-196 Peel STREET | Other Industry | Under assessment | -31.08522053 | 150.9260054 |
| TARCUTTA | Mobil Service Station | (Hume Highway) 32 Sydney STREET | Service Station | Contamination formerly regulated under the CLM Act | -35.2772942 | 147.73574 |
| TAREE | Caltex Taree | 12 Pitt STREET | Service Station | Regulation under CLM Act not required | -31.90551738 | 152.4783334 |
| TAREE | Former Caltex Depot | 44 Stevenson STREET | Other Petroleum | Regulation under CLM Act not required | -31.90563595 | 152.4640848 |
| TAREE | Former BP Service Station (Reliance Petroleum) | 150 Manning River DRIVE | Service Station | Regulation under CLM Act not required | -31.93842026 | 152.4682056 |
| TAREE | Former Shell Depot | 53-55 Stevenson STREET | Other Petroleum | Regulation under CLM Act not required | -31.90514622 | 152.4649706 |
| TAREE | United Service Station and Former Mobil Depot | 85 Muldoon Street, corner Grey Gum ROAD | Service Station | Regulation under CLM Act not required | -31.89744109 | 152.4508569 |
| TAREE | Caltex Service Station | 104-106 Commerce STREET | Service Station | Regulation under CLM Act not required | -31.90720519 | 152.4500926 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| TAREE | Footpath in front of the former BP service station | 53-55 Victoria STREET | Service Station | Regulation under CLM Act not required | -31.91015653 | 152.4659073 |
| TAREN POINT | Former Oyster Farm | Part 2R Alexander Avenue and part 98 Woodlands ROAD | Other Industry | Contamination was addressed via the planning process (EP&A Act) | -34.01714802 | 151.1252694 |
| TAREN POINT | Former Oyster Farmer | 1A Atkinson ROAD | Other Industry | Regulation under CLM Act not required | -34.02081803 | 151.1283282 |
| TAREN POINT | Former manufacturing site | 46-50 Bay ROAD | Other Industry | Regulation under CLM Act not required | -34.0236184 | 151.1231649 |
| TAREN POINT | Mangrove Lane Cycle pathway | Mangrove LANE | Unclassified | Regulation under CLM Act not required | -34.02404025 | 151.1324783 |
| TAREN POINT | Caltex Service Station | 114 Taren Point ROAD | Service Station | Regulation under CLM Act not required | -34.02065958 | 151.1218938 |
| TAREN POINT | Shell Coles Express Service Station | 99-103 Parraweena ROAD | Service Station | Regulation under CLM Act not required | -34.02630233 | 151.1200897 |
| TAREN POINT | Redevelopment Site | 25 Bay ROAD | Landfill | Under assessment | -34.02119564 | 151.1274793 |
| TELARAH | Former Ausgrid Depot | Green STREET | Other Industry | Regulation under CLM Act not required | -32.7276446 | 151.5269745 |
| TELARAH | ACIRL | 5 Junction STREET | Other Industry | Regulation under CLM Act not required | -32.73457183 | 151.5400128 |
| TEMORA | Woolworths Caltex Temora | 98-100 Hoskins STREET | Service Station | Under preliminary investigation order | -34.44324584 | 147.5318667 |
| TEMPE | Tempe Depot | 1a Gannon STREET | Other Petroleum | Regulation under CLM Act not required | -33.92408255 | 151.1596469 |
| TEMPE | Caltex Service Station | 775 Princes HIGHWAY | Service Station | Contamination currently regulated under CLM Act | -33.9253681 | 151.1596532 |
| TEMPE | Former Tempe Tip | South STREET | Landfill | Contamination currently regulated under CLM Act | -33.9255792 | 151.1668117 |
| TEMPE | Railcorp Site Renwick Street | Renwick STREET | Other Industry | Regulation under CLM Act not required | -33.91997709 | 151.1576058 |
| TERALBA | Lake Macquarie Teralba Sanitary Depot | Griffen ROAD | Landfill | Regulation under CLM Act not required | -32.9372059 | 151.6214528 |
| TERALBA | Lucky's Scrap Metal Yard | 21 Racecourse ROAD | Metal Industry | Contamination currently regulated under CLM Act | -32.946805 | 151.61698 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| TERANIA CREEK | Former Izzards Cattle Tick Dip | Wallace ROAD | Cattle Dip | Contamination formerly regulated under the CLM Act | -28.65425776 | 153.2767438 |
| THIRLMERE | Thirlmere Rail Heritage Museum | 10 Barbour ROAD | Other Industry | Regulation under CLM Act not required | -34.20689245 | 150.5693902 |
| THORNLEIGH | Caltex Thornleigh Service Station | 192-198 Pennant Hills (Cnr Duffy Ave) ROAD | Service Station | Regulation under CLM Act not required | -33.72660793 | 151.08364 |
| THORNLEIGH | Coles Express Service Station Thornleigh | 188 - 190 Pennant Hills ROAD | Service Station | Regulation under CLM Act not required | -33.72502184 | 151.0850569 |
| THORNTON | Energy Australia Thornton Pole Yard | 55 Weakleys DRIVE | Other Industry | Regulation under CLM Act not required | -32.79973875 | 151.6374998 |
| TIGHES HILL | Holcim Australia Cement Batching Plant | 340 Industrial DRIVE | Other Industry | Regulation under CLM Act not required | -32.90532418 | 151.7574857 |
| TIGHES HILL | SRA Land | 73 Elizabeth STREET | Unclassified | Regulation under CLM Act not required | -32.90795794 | 151.754631 |
| TIGHES HILL | Former Ampol Depot | 94 Elizabeth STREET | Other Petroleum | Regulation under CLM Act not required | -32.90658137 | 151.757239 |
| TIGHES HILL | Former Mobil Terminal | 110 Elizabeth STREET | Other Petroleum | Contamination formerly regulated under the CLM Act | -32.90600406 | 151.7586907 |
| TOCUMWAL | Former Mobil Depot | 250 Murray STREET | Other Petroleum | Regulation under CLM Act not required | -35.79180653 | 145.5648214 |
| TOCUMWAL | Former Mobil Depot | 79-83 Deniliquin ROAD | Other Petroleum | Regulation under CLM Act not required | -35.80914914 | 145.5585528 |
| TOMAGO | Balcombe Sweat Furnace | 26 Laverick AVENUE | Metal Industry | Regulation under CLM Act not required | -32.82557395 | 151.7056416 |
| TOMAGO | Former Hydromet Site | 25 School DRIVE | Metal Industry | Under assessment | -32.8301553 | 151.7300603 |
| TOMAGO | RZM Site - Tomago | 1877 Pacific HIGHWAY | Other Industry | Under assessment | -32.81419433 | 151.6985159 |
| TOMERONG | Log Cabin Service Station (United Petroleum) | D1300 Princes HIGHWAY | Service Station | Under assessment | -35.01820959 | 150.5779687 |
| TOONGABBIE | 7-Eleven (Former Mobil) Service Station Toongabbie | 3 Metella ROAD | Service Station | Regulation under CLM Act not required | -33.78692357 | 150.9462837 |
| TOORMINA | Caltex Service Station | 2 Minorca PLACE | Service Station | Regulation under CLM Act not required | -30.35229568 | 153.0906606 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| TORONTO | Coles XP (Former Mobil) Toronto Service Station | 133 - 137 Cary (Cnr Thorne St) STREET | Service Station | Regulation under CLM Act not required | -33.01187681 | 151.5930879 |
| TORONTO | BP Toronto Service Station | 132 Cary (Cnr Donnelly Ave) STREET | Service Station | Regulation under CLM Act not required | -33.01144673 | 151.5937863 |
| TORONTO | Toronto Hotel | 74 Victory PARADE | Unclassified | Regulation under CLM Act not required | -33.01214835 | 151.5958127 |
| TORONTO | Caltex Service Station | 147 Cary STREET | Service Station | Regulation under CLM Act not required | -33.01288007 | 151.5928388 |
| TOUKLEY | Former Shell Toukley Autoport | 211 Main ROAD | Service Station | Regulation under CLM Act not required | -33.26383791 | 151.5386268 |
| TOUKLEY | 7-Eleven Australia | 287 Main ROAD | Service Station | Regulation under CLM Act not required | -33.26469166 | 151.5462414 |
| TRANGIE | Caltex Service Station | (Mitchell Hwy) 76 Narromine STREET | Service Station | Regulation under CLM Act not required | -32.03234676 | 147.985164 |
| TUGGERAH | BP Tuggerah | 100 Pacific HIGHWAY | Service Station | Regulation under CLM Act not required | -33.30578167 | 151.4198083 |
| TUMBARUMBA | Former Caltex Depot | 150 Albury STREET | Other Petroleum | Regulation under CLM Act not required | -35.77024081 | 147.9927182 |
| TUMBI UMBI | Former Tumbi Landfill | 140 Bellevue ROAD | Landfill | Regulation under CLM Act not required | -33.3993472 | 151.456471 |
| TUMUT | CSR Blue Dam | Jepsen AVENUE | Other Industry | Regulation being finalised | -35.30098337 | 148.1958308 |
| TUMUT | CSR Railway cutting | Jepsen AVENUE | Unclassified | Regulation being finalised | -35.30422002 | 148.1942579 |
| TUMUT | Former Telstra Depot | 22-26 Carey STREET | Other Industry | Regulation under CLM Act not required | -35.29873079 | 148.2191122 |
| TUROSS HEAD | Tern Inn Restaurant (abandoned UPSS) | 2 Trafalgar ROAD | Service Station | Regulation under CLM Act not required | -36.05871059 | 150.1308443 |
| TURRAMURRA | 7-Eleven (former Mobil) Service Station Turramurra | 1408 Pacific HIGHWAY | Service Station | Regulation under CLM Act not required | -33.73326389 | 151.1264194 |
| TURRAMURRA | Woolworths Service Station | 1233 Pacific HIGHWAY | Service Station | Regulation under CLM Act not required | -33.73317594 | 151.1313195 |
| TURRELLA | Tulloch Australia Pty Limited | 61 Turrella STREET | Chemical Industry | Contamination currently regulated under CLM Act | -33.92857213 | 151.1475387 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| TURRELLA | Rail Corridor and adjacent industrial land | 75 Henderson STREET | Other Industry | Under assessment | -33.928402 | 151.148355 |
| TWEED HEADS | Former Mobil Quix Service Station | 60 Pacific HIGHWAY | Service Station | Regulation under CLM Act not required | -28.20143775 | 153.5445381 |
| TWEED HEADS | Francis Street Road Reserve adjacent to 79-81 Wharf Street, Tweed Heads | 79-81 Wharf STREET | Other Petroleum | Regulation under CLM Act not required | -28.17351959 | 153.542262 |
| TWEED HEADS SOUTH | Former BP Depot | 142 Minjungbal DRIVE | Other Petroleum | Regulation under CLM Act not required | -28.20860702 | 153.5455932 |
| TWEED HEADS SOUTH | Coles Express Service Station | Corner Minjungbal Drive and Heffron STREET | Service Station | Regulation under CLM Act not required | -28.19459987 | 153.5419978 |
| TWEED HEADS SOUTH | Woolworths Plus Petrol | 98-102 Pacific (100 Minjungbal Drive) HIGHWAY | Service Station | Regulation under CLM Act not required | -28.20488521 | 153.5448675 |
| TWEED HEADS WEST | Caltex Service Station | 96 to 98 Kennedy DRIVE | Service Station | Regulation being finalised | -28.1871486 | 153.5229866 |
| TYAGARAH | Tyagarah Airstrip | 25 Staceys WAY | Other Petroleum | Regulation under CLM Act not required | -28.59553079 | 153.5469165 |
| ULAN | Ulan Coal Mine | 4505 Ulan ROAD | Other Industry | Regulation under CLM Act not required | -32.25620603 | 149.7558075 |
| ULLADULLA | Coles Express Ulladulla | 153 Princes HIGHWAY | Service Station | Regulation under CLM Act not required | -35.36288274 | 150.47272 |
| ULLADULLA | Woolworths Petrol Station | 155-157 Princes HIGHWAY | Service Station | Regulation under CLM Act not required | -35.36316263 | 150.4725668 |
| ULLADULLA | Caltex Service Station | 62A Deering Street, corner Princes HIGHWAY | Service Station | Regulation under CLM Act not required | -35.36276828 | 150.473578 |
| ULTIMO | Shell Coles Express Service Station | 387-429 Wattle STREET | Service Station | Regulation under CLM Act not required | -33.88138825 | 151.1966791 |
| UNANDERRA | Endeavour Energy Springhill Field Service Centre | 195 Five Island ROAD | Other Industry | Regulation under CLM Act not required | -34.45837706 | 150.8598825 |
| UNANDERRA | BlueScope Stainless Steel | 13 Marley PLACE | Metal Industry | Contamination currently regulated under CLM Act | -34.44959798 | 150.8571632 |
| UNANDERRA | Unanderra Weekend Detention Centre | 34-40 Lady Penryhn DRIVE | Landfill | Regulation under CLM Act not required | -34.4620226 | 150.8473821 |
| UNANDERRA | Veolia Environmental Services | 9 Waynote PLACE | Other Industry | Regulation under CLM Act not required | -34.46042393 | 150.863232 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| UNANDERRA | Caltex Service Station | 86-98 Princes HIGHWAY | Service Station | Regulation under CLM Act not required | -34.45414951 | 150.845165 |
| UNANDERRA | Former Prime Service Station and adjoining lands | 41-49 Princes HIGHWAY | Service Station | Contamination formerly regulated under the CLM Act | -34.45056105 | 150.8490833 |
| URALLA | Caltex Service Station | 103 Bridge STREET | Service Station | Regulation under CLM Act not required | -30.64524911 | 151.4934484 |
| URALLA | Phoenix Foundry | 44 Duke STREET | Metal Industry | Regulation under CLM Act not required | -30.65093272 | 151.5004479 |
| URANQUINTY | Former Caltex Depot Kapooka (Wagga Wagga) | 6876 Olympic (Uranquinty Rd) HIGHWAY | Service Station | Regulation under CLM Act not required | -35.15319793 | 147.3085469 |
| URUNGA | Former Antimony Process plant | Hillside DRIVE | Chemical Industry | Contamination currently regulated under CLM Act | -30.50422942 | 153.0132011 |
| VALENTINE | BP Express Service Station | 855 Macquarie DRIVE | Service Station | Regulation under CLM Act not required | -33.00801109 | 151.6425806 |
| VALENTINE | Valentine Public School | Tallawalla ROAD | Unclassified | Regulation under CLM Act not required | -33.0091613 | 151.6423231 |
| VILLAWOOD | Nepotian (Former Toll) Site | 110A Christina ROAD | Other Industry | Under preliminary investigation order | -33.87919117 | 150.9812193 |
| VILLAWOOD | Former Defence Site | 29 Biloela STREET | Landfill | Regulation under CLM Act not required | -33.88782978 | 150.9886275 |
| VILLAWOOD | Former Siemens/Westinghouse | 49 Miowera ROAD | Other Industry | Contamination formerly regulated under the CLM Act | -33.87641909 | 150.9836746 |
| VILLAWOOD | Former Orica Crop Care | 2 Christina ROAD | Chemical Industry | Contamination currently regulated under CLM Act | -33.880329 | 150.9896329 |
| VILLAWOOD | PPG Industries | 9 Birmingham AVENUE | Chemical Industry | Regulation under CLM Act not required | -33.87800757 | 150.9887929 |
| VILLAWOOD | Former Electrical Component Manufacturer | 66 Christina ROAD | Other Industry | Ongoing maintenance required to manage residual contamination (CLM Act) | -33.88018315 | 150.9838773 |
| VILLAWOOD | Ettason Villawood Site | 2A Birmingham AVENUE | Chemical Industry | Under preliminary investigation order | -33.878734 | 150.98259 |
| VINEYARD | Shell Coles Express Service Station | 731 Windsor ROAD | Service Station | Regulation under CLM Act not required | -33.65780463 | 150.8753245 |
| WAGGA WAGGA | Caltex Service Station | 170 Fitzmaurice STREET | Service Station | Regulation under CLM Act not required | -35.10289587 | 147.3679002 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| WAGGA WAGGA | Former BP Service Station | 31 Bourke STREET | Service Station | Regulation under CLM Act not required | -35.12626628 | 147.3547199 |
| WAGGA WAGGA | Caltex (former Mobil) Service Station | 106 Edward STREET | Service Station | Regulation under CLM Act not required | -35.11910909 | 147.3682364 |
| WAGGA WAGGA | Former Caltex Depot | 60 Lake Albert DRIVE | Service Station | Regulation under CLM Act not required | -35.12316794 | 147.37724 |
| WAGGA WAGGA | Former Mobil Depot Wagga Wagga | 97-99 Coleman STREET | Other Petroleum | Regulation under CLM Act not required | -35.12173871 | 147.3576651 |
| WAGGA WAGGA | Ashmont Autoport | Cnr Tobruk Street and Bardia STREET | Service Station | Regulation under CLM Act not required | -35.12517373 | 147.329919 |
| WAGGA WAGGA | Former Caltex Service Station | 343 Hammond AVENUE | Service Station | Regulation under CLM Act not required | -35.12420793 | 147.4157959 |
| WAGGA WAGGA | Caltex Service Station | 56 - 60 Docker St STREET | Service Station | Regulation under CLM Act not required | -35.11737947 | 147.3558145 |
| WAGGA WAGGA | Former Iron Foundry | 212-230 Hammond STREET | Metal Industry | Regulation under CLM Act not required | -35.12605478 | 147.4045461 |
| WAGGA WAGGA | Coles Express Wagga Wagga | 353-355 Edward STREET | Service Station | Regulation under CLM Act not required | -35.11606625 | 147.3509339 |
| WAGGA WAGGA | Former Wiradjuri landfill | Narrung STREET | Landfill | Under assessment | -35.09628532 | 147.3619535 |
| WAGGA WAGGA | Former Gasworks | 54 Chaston STREET | Gasworks | Contamination currently regulated under CLM Act | -35.12262069 | 147.3482778 |
| WAGGA WAGGA | Former Gasworks | Cnr Tarcutta Street and Cross STREET | Gasworks | Contamination currently regulated under CLM Act | -35.10871183 | 147.3737933 |
| WAGGA WAGGA | BP Wagga Wagga | 180 Edward STREET | Service Station | Regulation under CLM Act not required | -35.11850802 | 147.3639619 |
| WAGGA WAGGA | Former Dry Cleaning Facility | 183 Fitzmaurice STREET | Other Industry | Contamination currently regulated under CLM Act | -35.10209987 | 147.3683852 |
| WAHROONGA | Coles Express Wahroonga | 1601 Pacific HIGHWAY | Service Station | Regulation under CLM Act not required | -33.71945571 | 151.1163002 |
| WAHROONGA | 7-Eleven Service Station | 1579 Pacific HIGHWAY | Service Station | Regulation under CLM Act not required | -33.71974617 | 151.1168106 |
| WAITARA | Caltex Service Station | 59-61 Pacific HIGHWAY | Service Station | Regulation under CLM Act not required | -33.71064349 | 151.1024644 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| WALGETT | Former Shell Depot | Castlereagh HIGHWAY | Other Petroleum | Regulation under CLM Act not required | -30.00861179 | 148.1239938 |
| WALLERAWANG | Wallerawang Power Station | 1 Main STREET | Other Petroleum | Regulation under CLM Act not required | -33.40339296 | 150.0855101 |
| WALLERAWANG | Lidsdale Coal Loading Facility | Main STREET | Other Industry | Regulation under CLM Act not required | -33.39996523 | 150.0737717 |
| WALLSEND | Caltex Maryland Service Station Wallsend | 41 Minmi ROAD | Service Station | Regulation under CLM Act not required | -32.88967866 | 151.6619253 |
| WALLSEND | Coles Express Wallsend East | 15 Thomas STREET | Service Station | Regulation under CLM Act not required | -32.90719444 | 151.6693426 |
| WALLSEND | OneSteel Recycling | 64-80 Sandgate ROAD | Metal Industry | Regulation under CLM Act not required | -32.89425477 | 151.6799648 |
| WALLSEND | Ausgrid Wallsend Depot | Abbott STREET | Other Industry | Regulation under CLM Act not required | -32.90162796 | 151.6857267 |
| WALLSEND | Cnr of Douglas Street and 111 Newcastle Road Wallsend | 111 Newcastle ROAD | Metal Industry | Regulation under CLM Act not required | -32.90414175 | 151.6830784 |
| WAMBERAL | Caltex Service Station | 654 The Entrance ROAD | Service Station | Regulation under CLM Act not required | -33.42338668 | 151.4375685 |
| WANGI WANGI | Myuna Colliery | Wangi Point ROAD | Other Industry | Regulation under CLM Act not required | -33.06139532 | 151.5697186 |
| WARATAH | Waratah Area Health | Turton ROAD | Unclassified | Regulation under CLM Act not required | -32.90961233 | 151.7260867 |
| WARATAH | Waratah former Gasworks | Turton and Georgetown ROADS | Gasworks | Regulation being finalised | -32.9057763 | 151.7270033 |
| WARDELL | Nancy's Cattle Dip, Thurgates Lane, Wardell | Thurgates LANE | Cattle Dip | Under assessment | -28.954176 | 153.427349 |
| WARILLA | Woolworths Petrol Warilla | 43 -57 Shellharbour ROAD | Service Station | Regulation under CLM Act not required | -34.5470966 | 150.863748 |
| WARKWORTH | Emulsion Plant, Dyno Nobel Asia Pacific Pty Ltd | 186 Long Point ROAD | Chemical Industry | Regulation under CLM Act not required | -32.5781708 | 151.0834387 |
| WARKWORTH | United Colliery | Jerrys Plains ROAD | Other Industry | Regulation under CLM Act not required | -32.5654356 | 150.9916698 |
| WARNERS BAY | Caltex Service Station | 55 King STREET | Service Station | Regulation under CLM Act not required | -32.97418806 | 151.6476184 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| WARNERS BAY | 7-Eleven (former Mobil) Service Station | 393 Hillsborough ROAD | Service Station | Regulation under CLM Act not required | -32.9659363 | 151.6543264 |
| WARNERS BAY | Historically Filled Land | 41-43 Charles STREET | Unclassified | Regulation under CLM Act not required | -32.97340461 | 151.6464383 |
| WARNERVALE | Former Timber Treatment Plant | Aldenham and Railway ROADS | Other Industry | Contamination formerly regulated under the CLM Act | -33.24732018 | 151.4469037 |
| WARRAGAMBA | Warragamba Dam Viewing Platform | Eighteenth STREET | Unclassified | Regulation under CLM Act not required | -33.88546354 | 150.6024501 |
| WARRAGAMBA | Megarrity's Creek Site | Weir ROAD | Unclassified | Regulation under CLM Act not required | -33.885049 | 150.597628 |
| WARRAWONG | Caltex Service Station | 75-77 King STREET | Service Station | Regulation under CLM Act not required | -34.49037817 | 150.888802 |
| WARREN | Former Shell Depot | 8 Dubbo STREET | Other Petroleum | Regulation under CLM Act not required | -31.69379262 | 147.8308088 |
| WARREN | Caltex Warren Service Station | 1 Coonamble ROAD | Service Station | Regulation under CLM Act not required | -31.69508383 | 147.8405578 |
| WARREN | Former Mobil Warren Depot | 16 Dubbo STREET | Other Petroleum | Contamination currently regulated under CLM Act | -31.6943058 | 147.8314606 |
| WARWICK FARM | Warwick Farm Public School | 95 Lawrence Hargrave ROAD | Landfill | Regulation under CLM Act not required | -33.91050532 | 150.9302197 |
| WATERLOO | Proposed Construction Site | 2 John STREET | Other Industry | Regulation under CLM Act not required | -33.89989686 | 151.2010324 |
| WATERLOO | Waverley Woollahra Process Plant | 355 Botany ROAD | Other Industry | Regulation under CLM Act not required | -33.9063092 | 151.2042672 |
| WATERLOO | Shell Coles Express Service Station | 867-877 South Dowling STREET | Service Station | Regulation under CLM Act not required | -33.90179774 | 151.2143789 |
| WATERLOO | Lawrence Dry Cleaners | 887-893 Bourke STREET | Unclassified | Contamination currently regulated under CLM Act | -33.89897433 | 151.2101436 |
| WATERLOO | Diversity Waterloo | 1-13 Archibald AVENUE | Other Industry | Under assessment | -33.90204305 | 151.2097328 |
| WATERLOO | Iconic (Former Chubb Factory) Waterloo | 830-838 Elizabeth STREET | Other Industry | Regulation under CLM Act not required | -33.90227718 | 151.2060305 |
| WATERLOO | 22-24 Archibald Avenue | 22-24 Archibald AVENUE | Other Petroleum | Regulation under CLM Act not required | -33.90263766 | 151.2132105 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| WAUCHOPE | Expressway Spares UST | 3 Sancrox ROAD | Other Petroleum | Regulation under CLM Act not required | -31.44421922 | 152.8218723 |
| WAUCHOPE | Former Shell Depot | 56-64 High STREET | Other Petroleum | Regulation under CLM Act not required | -31.45804845 | 152.7314151 |
| WAUCHOPE | Wauchope Service Station | 57 High STREET | Service Station | Regulation under CLM Act not required | -31.45737022 | 152.7305018 |
| WAUCHOPE | Former Timber Treatment Site | Blackbutt DRIVE | Other Industry | Regulation under CLM Act not required | -31.46575645 | 152.7228555 |
| WAUCHOPE | Shell Coles Express Service Station | 64 High STREET | Service Station | Regulation under CLM Act not required | -31.45764495 | 152.7315975 |
| WAUCHOPE | Wauchope Public Primary School | 2 Waugh STREET | Unclassified | Regulation under CLM Act not required | -31.4556387 | 152.7295455 |
| WAVERTON | SRA Land | 95 Bay ROAD | Unclassified | Contamination formerly regulated under the CLM Act | -33.83716728 | 151.1969497 |
| WAVERTON | Berry's Bay Woodley's Marina | 1 Balls Head DRIVE | Other Industry | Contamination formerly regulated under the POEO Act | -33.84441851 | 151.1947433 |
| WAVERTON | Oyster Cove AGL | 2 King STREET | Gasworks | Ongoing maintenance required to manage residual contamination (CLM Act) | -33.83637995 | 151.193541 |
| WEE JASPER | Wee Jasper Tavern | 6499 Wee Jasper ROAD | Other Industry | Regulation under CLM Act not required | -35.110374 | 148.679405 |
| WELLINGTON | Former Caltex Service Station | 124-128 Lee STREET | Service Station | Regulation under CLM Act not required | -32.55082729 | 148.9411537 |
| WELLINGTON | BP Wellington Service Station | 35A Maxwell STREET | Service Station | Under assessment | -32.55835121 | 148.9447284 |
| WELLINGTON | Woolworths Petrol Wellington | 79 Lee STREET | Service Station | Regulation under CLM Act not required | -32.54874227 | 148.9408531 |
| WENTWORTH | Caltex - Wentworth | 110 Adams STREET | Service Station | Regulation under CLM Act not required | -34.1024927 | 141.9160539 |
| WENTWORTH FALLS | Bodington Hospital | Bodington DRIVE | Unclassified | Contamination formerly regulated under the CLM Act | -33.73201608 | 150.3874102 |
| WENTWORTH POINT | RMS Eastern Precinct | 3-7 Burroway ROAD | Other Petroleum | Regulation under CLM Act not required | -33.8233882 | 151.0815668 |
| WENTWORTH POINT | Former TNT Express | 23 Bennelong PARKWAY | Other Petroleum | Regulation under CLM Act not required | -33.83115118 | 151.0726636 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| WENTWORTHVILLE | Former Workshop | 2 Rawson Rd and 8 Barfil CRESCENT | Unclassified | Regulation under CLM Act not required | -33.81568808 | 150.9671853 |
| WERRINGTON | Caltex Service Station | Cnr Dunheved Rd and Henry Lawson DRIVE | Service Station | Regulation under CLM Act not required | -33.74577725 | 150.7409877 |
| WERRINGTON | Claremont Meadows Former landfill | Gipps STREET | Landfill | Regulation under CLM Act not required | -33.77341076 | 150.7557628 |
| WERRINGTON COUNTY | 7-Eleven Werrington | Lot 122 Dunheved ROAD | Service Station | Regulation under CLM Act not required | -33.74699408 | 150.7428609 |
| WEST BALLINA | Caltex Big Prawn Service Station | Pacific HIGHWAY | Service Station | Contamination formerly regulated under the CLM Act | -28.86374913 | 153.5321482 |
| WEST GOSFORD | Caltex Service Station | 283 Manns ROAD | Service Station | Regulation under CLM Act not required | -33.41659727 | 151.325219 |
| WEST GOSFORD | Caltex Service Station | 69-71 Pacific HIGHWAY | Service Station | Regulation under CLM Act not required | -33.42729985 | 151.3214621 |
| WEST GOSFORD | Caltex Service Station | 30a Pacific HIGHWAY | Service Station | Regulation under CLM Act not required | -33.42778813 | 151.3190581 |
| WEST GOSFORD | Adcock Memorial Park | Central Coast HIGHWAY | Landfill | Under assessment | -33.42963075 | 151.3273331 |
| WEST NOWRA | Endeavour Energy Nowra Field Service Centre | 20 Depot ROAD | Other Industry | Regulation under CLM Act not required | -34.88993085 | 150.5878854 |
| WEST PENNANT HILLS | 7-Eleven (former Mobil) Service Station | 552 Pennant Hills ROAD | Service Station | Regulation under CLM Act not required | -33.74686545 | 151.0508067 |
| WEST RYDE | 7-Eleven (former Mobil) Service Station | 917 Victoria ROAD | Service Station | Regulation under CLM Act not required | -33.80921103 | 151.0932917 |
| WEST RYDE | Pfizer Australia Pty Ltd | 38-42 Wharf ROAD | Chemical Industry | Regulation under CLM Act not required | -33.81021085 | 151.0693631 |
| WEST RYDE | Reckitt Benckiser | 44 Wharf ROAD | Chemical Industry | Regulation under CLM Act not required | -33.81172205 | 151.0692752 |
| WEST RYDE | JHM Property Development | 2A Mellor STREET | Other Industry | Regulation under CLM Act not required | -33.81207534 | 151.094598 |
| WEST TAMWORTH | Woolworths Petrol | 119 Bridge STREET | Service Station | Regulation under CLM Act not required | -31.09358262 | 150.9167693 |
| WEST WYALONG | Lowes Petroleum (Former BP) Depot West Wyalong | Compton (formerly known as Town Bypass/Railway Road) ROAD | Other Petroleum | Regulation under CLM Act not required | -33.93440247 | 147.2154596 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| WEST WYALONG | Caltex Depot | (Wyalong By-pass Rd) Lot 1-3 Showground ROAD | Service Station | Regulation under CLM Act not required | -33.92556 | 147.1981659 |
| WEST WYALONG | Former Mobil Depot | 104 Compton ROAD | Other Petroleum | Regulation under CLM Act not required | -33.93449194 | 147.2147948 |
| WESTON | Illegal Dumping Site | Corner Kline Street & First STREET | Unclassified | Regulation under CLM Act not required | -32.81367986 | 151.4551507 |
| WETHERILL PARK | Former Fuel Storage Depot | 200-212 Cowpasture ROAD | Other Petroleum | Regulation under CLM Act not required | -33.84568871 | 150.8764012 |
| WETHERILL PARK | Sims Wetherill Park | 35-37 Frank STREET | Metal Industry | Regulation under CLM Act not required | -33.84056122 | 150.9086265 |
| WETHERILL PARK | Shell Coles Express Service Station | 565 Polding STREET | Service Station | Regulation under CLM Act not required | -33.8569731 | 150.8992804 |
| WETHERILL PARK | Cleanaway (Formerly Nationwide Oil) Wetherill Park | 6 Davis ROAD | Other Industry | Regulation under CLM Act not required | -33.83770038 | 150.9045197 |
| WETHERILL PARK | BOC Sydney Operations Centre | 428-440 Victoria STREET | Chemical Industry | Under assessment | -33.84400237 | 150.8967556 |
| WETHERILL PARK | Camide Former Landfill | Newton ROAD | Landfill | Regulation under CLM Act not required | -33.83898879 | 150.8963813 |
| WICKHAM | Caltex Terminal and "Building 33" on offsite adjacent land | 156 Hannell Street and 33 Annie STREET | Other Petroleum | Contamination currently regulated under CLM Act | -32.9153413 | 151.7560062 |
| WICKHAM | Former Warehouse | 10 Dangar STREET | Unclassified | Regulation under CLM Act not required | -32.92383206 | 151.759761 |
| WICKHAM | Former Factory | 57 Annie STREET | Other Industry | Regulation under CLM Act not required | -32.91524827 | 151.7539893 |
| WICKHAM | Railcorp Wickham | 50 Railway STREET | Other Industry | Regulation under CLM Act not required | -32.9210433 | 151.7544687 |
| WICKHAM | Fuchs Lubricants (Australasia) Pty Ltd Wickham | 2 Holland STREET | Other Industry | Under assessment | -32.9214709 | 151.7556928 |
| WILBERFORCE | Former Drum Reconditioners | 12-14 Box AVENUE | Other Industry | Contamination formerly regulated under the CLM Act | -33.5453884 | 150.8587934 |
| WILBERFORCE | Former Solvent Recycling Site | 13 Box AVENUE | Chemical Industry | Regulation under CLM Act not required | -33.54557427 | 150.8577006 |
| WILEY PARK | Sydney Water Property | 1B Hillcrest STREET | Other Industry | Regulation under CLM Act not required | -33.92391634 | 151.0676256 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| WILLIAMTOWN | Hunter Land Effluent Pond | 38 Cabbage Tree ROAD | Other Industry | Regulation under CLM Act not required | -32.80750069 | 151.8310107 |
| WILLOUGHBY | Shell Coles Express Service Station | 616-626 Willoughby ROAD | Service Station | Regulation under CLM Act not required | -33.80593769 | 151.1988559 |
| WILLOUGHBY | Caltex Service Station | 157 Penhur STREET | Service Station | Regulation under CLM Act not required | -33.79793513 | 151.1981926 |
| WILLOUGHBY | BP Express Tower | 498 Willoughby STREET | Service Station | Contamination currently regulated under POEO Act | -33.81022918 | 151.199315 |
| WILLOUGHBY EAST | Willoughby Bus Depot | Corner Ann Street and Stan STREET | Other Industry | Regulation under CLM Act not required | -33.7982569 | 151.2038993 |
| WILTON | Condell Park Homestead | (Part Lot 17 DP 270536) Condell Park ROAD | Unclassified | Regulation under CLM Act not required | -34.21910141 | 150.6837962 |
| WINDANG | Caltex Service Station | 244-248 Windang ROAD | Service Station | Regulation under CLM Act not required | -34.5274434 | 150.8691161 |
| WINDSOR | Former Caltex Service Station | 46-52 Macquarie STREET | Service Station | Regulation under CLM Act not required | -33.60783315 | 150.8213428 |
| WINDSOR | Former Caltex Windsor Depot and Service Station | 48-50 Mileham STREET | Service Station | Regulation under CLM Act not required | -33.61538627 | 150.8157517 |
| WINDSOR | Woolworths (former Caltex) Service Station | Cnr Macquarie Street & Baker STREET | Service Station | Regulation under CLM Act not required | -33.60569346 | 150.8232803 |
| WINDSOR | Former Fire Station Windsor | 19 Fitzgerald STREET | Other Industry | Under assessment | -33.606474 | 150.819908 |
| WINGHAM | Former Caltex Service Station | 1036-1038 Wingham ROAD | Service Station | Regulation under CLM Act not required | -31.86236594 | 152.3805752 |
| WINGHAM | Bogas Service Station | Cnr Primrose Street and Isabella STREET | Service Station | Regulation under CLM Act not required | -31.86833656 | 152.3716346 |
| WINMALEE | Prime Winmalee Service Station | 281 Hawkesbury ROAD | Service Station | Regulation under CLM Act not required | -33.68223276 | 150.5997203 |
| WIRLINGA | Former Liquid Waste Disposal Facility | 704 Riverina ROAD | Unclassified | Regulation under CLM Act not required | -36.07103958 | 147.0193522 |
| WOLLI CREEK | Former Ausgrid Substation 10061 | 13 Gertrude STREET | Other Industry | Regulation under CLM Act not required | -33.93364031 | 151.1543818 |
| WOLLONGONG | Redevelopment site | 33 - 39 Beatson STREET | Other Petroleum | Regulation under CLM Act not required | -34.43196083 | 150.8976661 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| WOLLONGONG | Caltex Service Station | 9 Flinders STREET | Service Station | Regulation under CLM Act not required | -34.41505616 | 150.8932515 |
| WOLLONGONG | Greenhouse Park | Springhill ROAD | Landfill | Contamination currently regulated under CLM Act | -34.44119949 | 150.8931764 |
| WOLLONGONG | Former Wollongong Gasworks | 120 and 122 Smith STREET | Gasworks | Regulation under CLM Act not required | -34.42030173 | 150.8906745 |
| WOLLONGONG | Woolworths Service Station | 425 Crown STREET | Service Station | Contamination currently regulated under CLM Act | -34.42637378 | 150.8799288 |
| WOLLONGONG | Wollongong Harbour Central Spur | Off Endeavour DRIVE | Other Petroleum | Regulation under CLM Act not required | -34.42066879 | 150.906821 |
| WOODBURN | Caltex Service Station | 129 River STREET | Service Station | Regulation under CLM Act not required | -29.07206887 | 153.3409769 |
| WOODBURN | Crown Reserve 88037 Woodburn | Pacific HIGHWAY | Landfill | Regulation under CLM Act not required | -29.06580577 | 153.3541886 |
| WOOLGOOLGA | Caltex Woolgoolga Service Station | 16 Bosworth ROAD | Service Station | Regulation under CLM Act not required | -30.12569561 | 153.1946006 |
| WOOLGOOLGA | United Petroleum Service Station | 56 Clarence STREET | Service Station | Regulation under CLM Act not required | -30.11045544 | 153.1904609 |
| WOOLLAHRA | Former Service Station | 20 Wallis STREET | Service Station | Regulation under CLM Act not required | -33.8901965 | 151.2372752 |
| WOOLLAHRA | Proposed Jewish Care Centre | 7 -21 Saber STREET | Unclassified | Regulation under CLM Act not required | -33.8904055 | 151.2480062 |
| WOOLLAHRA | Caltex Woollahra Service Station | 116 Old South Head ROAD | Service Station | Contamination formerly regulated under the CLM Act | -33.88959697 | 151.2553736 |
| WOOLLOOMOOLOO | Former BP Service Station | 2 Dowley STREET | Service Station | Contamination being managed via the planning process (EP&A Act) | -33.86940191 | 151.2218741 |
| WOOLOMIN | Woolomin Gold Rush Store | 65 Nundle ROAD | Other Petroleum | Contamination currently regulated under CLM Act | -31.30415134 | 151.149729 |
| WOOLOOWARE | Caltex Service Station | 100 Woolooware ROAD | Service Station | Regulation under CLM Act not required | -34.05274635 | 151.1408413 |
| WOOLOOWARE | Oyster Farm | Captain Cook DRIVE | Other Industry | Under assessment | -34.03807914 | 151.1476055 |
| WOONGARRAH | Former Warnervale Landfill | 236-264 Hakone ROAD | Landfill | Regulation under CLM Act not required | -33.2376313 | 151.464362 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| WOOTTON | Former Chemical Spill Site | 11859 Pacific HIGHWAY | Chemical Industry | Regulation under CLM Act not required | -32.28168548 | 152.3117819 |
| WOY WOY | Mobil Former Woy Woy Service Station and adjacent land | 177-181 Blackwall ROAD | Service Station | Contamination formerly regulated under the CLM Act | -33.49254403 | 151.3270829 |
| WOY WOY | Barry Robertson Holden | 231 Blackwall ROAD | Service Station | Regulation under CLM Act not required | -33.49621068 | 151.3285128 |
| WOY WOY | Bogas Service Station | 66 Memorial AVENUE | Service Station | Contamination currently regulated under CLM Act | -33.5069738 | 151.3315579 |
| WOY WOY | Rogers Park | Dunban ROAD | Landfill | Regulation under CLM Act not required | -33.50009693 | 151.3181347 |
| WOY WOY | Austin Butler Memorial Oval | Blackwall ROAD | Landfill | Regulation under CLM Act not required | -33.48626871 | 151.3276042 |
| WOY WOY | James Browne Oval | Welcome STREET | Landfill | Regulation under CLM Act not required | -33.49756053 | 151.3234871 |
| WYALONG | Caltex Service Station | 50 Neeld (Newell Highway) STREET | Service Station | Regulation under CLM Act not required | -33.92665025 | 147.2446546 |
| WYOMING | Caltex Service Station Wyoming | 465 Pacific HIGHWAY | Service Station | Regulation under CLM Act not required | -33.40945391 | 151.3499812 |
| WYONG | Wyong Bayer/Kemcon | 16 Lucca ROAD | Chemical Industry | Contamination formerly regulated under the CLM Act | -33.26192339 | 151.4429446 |
| WYONG | Caltex Service Station | M1 Pacific (Northbound) MOTORWAY | Service Station | Regulation under CLM Act not required | -33.25641477 | 151.4024821 |
| WYONG | Caltex Service Station | M1 Pacific (Southbound) MOTORWAY | Service Station | Regulation under CLM Act not required | -33.25330747 | 151.4053862 |
| WYONG | IXOM Facility | 8 Pavitt CRESCENT | Other Industry | Regulation under CLM Act not required | -33.26379108 | 151.4485113 |
| YAGOONA | Galserv Galvanising Services | 117-153 Rookwood ROAD | Metal Industry | Contamination currently regulated under POEO Act | -33.89493085 | 151.0388013 |
| YAGOONA | BP Service Station Potts Hill (Yagoona) | 155 Rookwood ROAD | Service Station | Regulation under CLM Act not required | -33.89330525 | 151.0390969 |
| YAGOONA | 7-Eleven (former Mobil) Service Station | 519 Hume HIGHWAY | Service Station | Regulation under CLM Act not required | -33.90760623 | 151.0207783 |
| YAGOONA | Shell Coles Express Service Station | 112 Rookwood ROAD | Service Station | Regulation under CLM Act not required | -33.89856213 | 151.0370458 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| YAGOONA | Sydney Water Corporation Potts Hill Complex | 91 Brunker ROAD | Other Industry | Regulation under CLM Act not required | -33.89887589 | 151.0289165 |
| YALLAH | Tallawarra Power Station site | Princes HIGHWAY | Unclassified | Ongoing maintenance required to manage residual contamination (CLM Act) | -34.52412143 | 150.8062159 |
| YAMBA | Caltex Service Station | 22 Treelands DRIVE | Service Station | Regulation under CLM Act not required | -29.42701701 | 153.3279204 |
| YANCO | Former Service Station | 14 Main AVENUE | Service Station | Contamination formerly regulated under the CLM Act | -34.60356494 | 146.4105016 |
| YASS | Caltex Service Station | 228 Comur STREET | Service Station | Regulation under CLM Act not required | -34.84440036 | 148.9140179 |
| YASS | Caltex Service Station | 1715 Yass Valley WAY | Service Station | Regulation under CLM Act not required | -34.80708856 | 148.8824228 |
| YASS | Former Mobil Depot Yass and adjacent land | 54-58 Laidlaw STREET | Service Station | Contamination currently regulated under CLM Act | -34.83252976 | 148.9068888 |
| YASS | Former Gasworks | Dutton STREET | Gasworks | Contamination currently regulated under CLM Act | -34.83982614 | 148.9060029 |
| YASS | Transgrid Depot Yass | Perry STREET | Unclassified | Under assessment | -34.86238341 | 148.9052809 |
| YENNORA | Former Alcoa Australia Rolled Products Facility - Area 3 | 1 Kiora CRESCENT | Metal Industry | Regulation under CLM Act not required | -33.86568158 | 150.9649297 |
| YENNORA | Spicer Axle Australia Manufacturing Facility | 205-231 Fairfield ROAD | Other Industry | Regulation under CLM Act not required | -33.85655114 | 150.9579167 |
| YENNORA | Former Caltex Service Station | 137-141 Fairfield STREET | Service Station | Regulation under CLM Act not required | -33.86824768 | 150.9706137 |
| YENNORA | Former Metal Plant | 44 Larra STREET | Metal Industry | Contamination formerly regulated under the CLM Act | -33.86340576 | 150.9764349 |
| YENNORA | TetraPak Site | 6 Foray STREET | Other Industry | Contamination formerly regulated under the CLM Act | -33.8557183 | 150.9561605 |
| YENNORA | 19 Pine Road, Yennora | Pine ROAD | Metal Industry | Contamination currently regulated under CLM Act | -33.86713232 | 150.9621172 |
| YETHOLME | Yetholme CCA Timber Treatment Plant | 351 Eusdale ROAD | Other Industry | Contamination formerly regulated under the CLM Act | -33.45386256 | 149.8537787 |
| YOUNG | Former Mobil Depot and Service Station Young | 149 Lovell STREET | Service Station | Regulation under CLM Act not required | -34.31024587 | 148.290424 |

| Suburb | SiteName | Address | ContaminationActivityType | ManagementClass | Latitude | Longitude |
|---|---|---|---|---|---|---|
| YOUNG | Former Shell Depot | 166 Nasmyth STREET | Other Petroleum | Regulation under CLM Act not required | -34.31025192 | 148.2931008 |
| YOUNG | Former battery recycler | 45 Nasmyth STREET | Metal Industry | Contamination currently regulated under CLM Act | -34.31201571 | 148.306772 |
| YOUNG | Adjacent to former battery recycler | 47 Nasmyth STREET | Metal Industry | Contamination formerly regulated under the CLM Act | -34.31176273 | 148.3064765 |
| YOUNG | Mobil Depot | 186 Nasmyth STREET | Other Petroleum | Contamination currently regulated under CLM Act | -34.30954389 | 148.2908476 |
| YOUNG | Former Caltex Depot | 95 Lovell STREET | Service Station | Regulation under CLM Act not required | -34.31127119 | 148.2955092 |
| ZETLAND | Energy Australia/ Ausgrid Zetland Depot | 122 - 138 Joynton AVENUE | Other Industry | Regulation under CLM Act not required | -33.90883116 | 151.2101184 |
| ZETLAND | Former Goodrich Control Systems, Zetland | 84 - 92 Epsom ROAD | Other Industry | Regulation under CLM Act not required | -33.91025707 | 151.2078048 |

**APPENDIX E**

---

**RESPONSE FROM SAFEWORK NSW**

NSW GOVERNMENT | SafeWork NSW

Locked Bag 2906, Lisarow NSW 2252
Customer Experience 13 10 50
ABN 81 913 830 179 | www.safework.nsw.gov.au

Our Ref: D19/211354

29 October 2019

Frances Kuipers
Geotechnique Pty Ltd
PO BOX 880
Penrith NSW 2750

Dear Mrs Kuipers

**RE SITE: 61-79 Henry St Penrith NSW**

I refer to your site search request received by SafeWork NSW on 22 October 2019 requesting information on Storage of Hazardous Chemicals for the above site.

A search of the records held by SafeWork NSW has not located any records pertaining to the above-mentioned premises.

For further information or if you have any questions, please call us on 13 10 50 or email licensing@safework.nsw.gov.auw

Yours sincerely

Customer Service Officer
Customer Experience - Operations
SafeWork NSW

**APPENDIX F**

---

**COUNCIL RECORDS**

Our Ref 9090433
Contact: Jackie Shephard
Telephone: 02 47 327732

Ms Frances Kuipers
Geotechnique Pty Ltd
PO Box 880
PENRITH NSW 2751

25 October 2019

Dear Ms Kuipers

I refer to your access application under the Government Information (Public Access) Act 2009 (GIPA), requesting access to information relating to 61 – 79 Henry Street, Penrith.

The requested information relating to the approvals for development applications for this property are attached.

I can be contacted on 47 327732 or email jackie.shephard@penrith.city should you require further information on this matter.

Regards

**Jacqueline Shephard**
**Right to Information Officer**

E jackie.shephard@penrith.city
T +612 4732 7732 | F +612 4732 7958 | M
PO Box 60, PENRITH NSW 2751
www.visitpenrith.com.au
www.penrithcity.nsw.gov.au

PENRITH CITY COUNCIL

Follow us



PENRITH VALLEY
River Mountains Lakes

# DETERMINATION OF DEVELOPMENT APPLICATION

P E N R I T H  C I T Y  C O U N C I L

## DESCRIPTION OF DEVELOPMENT

| | |
|---|---|
| DA No. | DA03/0582 |
| Description of development | 4 SIGNS |
| Classification of development | The classification of the building(s) forming part of this consent is as follows:<br>▪ Class 10 (b) |

## DETAILS OF THE APPLICANT

| | |
|---|---|
| Name | ELITE FITNESS PENRITH |
| Address | POBOX 382<br>RUNAWAY BAY QLD 4216 |

## NOTES

1. Your attention is drawn to the attached conditions of consent in attachment 2 and the timing requirements for these conditions in attachment 1.
2. You should also check if this type of development requires a construction certificate in addition to this development consent.
3. It is recommended that you read the Advisory Note enclosed with this consent.

## DETAILS OF THE LAND TO BE DEVELOPED

| | |
|---|---|
| Street No. | 61 |
| Street name | Henry Street |
| Suburb | Penrith |
| Lot No. | L1 |
| DP/ SP | DP/771927 |

## DECISION OF CONSENT AUTHORITY

In accordance with Section 81(1)(a) of the Environmental Planning and Assessment Act 1979, consent is granted subject to the conditions listed in attachment 2 & the time frame for condition implementation in attachment 1.

| | |
|---|---|
| Date from which consent operates | 7 May 2003 |
| Date the consent expires | 7 May 2005 |
| Determination Date | 7 May 2003 |

Please note that this consent will lapse on the expiry date unless the development has commenced in that time.

## REVIEW OF DETERMINATION & RIGHTS OF APPEAL

1. The applicant may request Council to review its determination pursuant to Section 82A of the Environmental Planning and Assessment Act 1979 within 12 months of receiving this Notice of Determination.
   You cannot make this request if the development is Designated Development, Integrated Development, or State Significant development.

2. The applicant can appeal against this decision in the Land and Environment Court within 12 months of receiving this Notice of Determination.
   You cannot appeal if a Commission of Inquiry was held for the subject development application, or if the development is a State Significant Development.
3. Right of Appeal if the application was for Designated Development
   If a written objection was made in respect to the Application for Designated Development, the objector can appeal against Council's decision to the Land and Environment Court within 28 days after the date of this Notice. The objector cannot appeal if a Commission of Inquiry was held.
   If the applicant appeals against Council's decision, objector(s) will be given a notice of the appeal and the objector(s) can apply to the Land and Environment Court within 28 days after the date of this appeal notice to attend the appeal and make submissions at that appeal.

## REASONS

The conditions in the attached schedule have been imposed for the following reasons:

- To ensure compliance with the terms of the relevant Planning Instrument.
- To ensure that no injury is caused to the existing and likely future amenity of the neighbourhood.
- Due to the circumstances of the case and the public interest.
- To ensure that adequate road and drainage works are provided.
- To ensure that satisfactory arrangements are made to satisfy the increased demand for public recreation facilities.
- To ensure that access, parking and loading arrangements will be made to satisfy the demands created by the development.
- To ensure the structural integrity of the development.
- To ensure the protection of the health and safety of the occupants of the development.

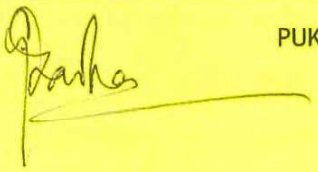
## POINT OF CONTACT

If you have any questions regarding this consent you should contact:

| | |
|---|---|
| Assessing officer | PUKAR PRADHAN |
| Contact telephone number | (02) 4732 7726 |

## SIGNATURE

Name PUKAR PRADHAN

Signature 

For the Building Approvals and Environment Protection Manager

## ATTACHMENT 1: TIME FRAME FOR CONDITIONS

| TIME FRAME | CONDITION NO. |
|---|---|
| To be completed prior to the issue of Construction certificate | |
| To be completed prior to commencement of construction | 8 |
| Matters to be submitted during construction | 2, 3, 4, 5, 7, 9, 10, 11 |
| To be completed prior to the issue of an Occupation Certificate | |
| Note: some conditions may not be listed in the table as they are operational or do not have a time constraint. | |

## ATTACHMENT 2: CONDITIONS OF CONSENT

### GENERAL

1 The development must be implemented substantially in accordance with the stamped-approved plans issued by Penrith City Council, the application form and any supporting information received with the application, except as may be amended in red on the attached plans and by the following conditions.

{Note: Prescribed conditions under the Environmental Planning and Assessment Regulation 2000 as amended will apply to building and subdivision work commencing/approved on 1 July 2003.}

2 The signs shall be directly attached to the walls.

3 The signs shall be located so that the lower end of the signs shall be at least 2.60m from the ground level.

4 The signs shall not be fitted with flashing lights at any time.

5 The existing signs above the awning (including the triangular portion) shall be all removed.

6 The finishes of all structures and buildings are to be maintained at all times and any graffiti or vandalism immediately removed/repaired.

### CONSTRUCTION

7 Stamped plans, specifications, a copy of the development consent, the Construction Certificate and any other Certificates to be relied upon shall be available on site at all times during construction.

8 Prior to commencement of construction works:

(a) If the work involved in the erection or demolition of a building is likely to cause pedestrian or vehicular traffic in a public place to be obstructed or rendered inconvenient, or involves the enclosure of a public place, a hoarding or fence must be erected between the work site and the public place:

- if necessary, an awning is to be erected, sufficient to prevent any substance from, or in connection with, the work falling into the public place,
- the work site must be kept lit between sunset and sunrise if it is likely to be hazardous to persons in the public place, and
- any such hoarding, fence or awning is to be removed when the work has been completed.

9 For construction works carried out by an owner-builder on a residential premises but not the contractor or other persons employed by the owner-builder to carry out such works, construction hours for the owner-builder shall be restricted to the following hours so long as complaints regarding the construction are not received by Council:

- Mondays to Saturdays, 7am to 8pm, and
- Sundays and Public Holidays, 8am to 8pm.

In the event that Council receives complaints regarding the manner in which the construction works is being conducted, Council reserves the right to amend the construction hours for the development.

Contractors or other persons employed to carry out works

In the event that a contractor or other persons have been employed by the property owner or owner-builder to carry out all or part of the construction works, then the construction hours shall be restricted to the following:

Construction works that are carried out in the open that involve the use of heavy vehicles, heavy machinery and other equipment likely to cause offence to adjoining properties shall be restricted to the following hours in accordance with the NSW Environment Protection Authority Noise Control Guidelines:

- Mondays to Fridays, 7am to 6pm
- Saturdays, 7am to 1pm (if inaudible on neighbouring residential premises), otherwise 8am to 1pm
- No work is permitted on Sundays and Public Holidays.

Other construction works carried out inside the residential building and do not involve the use of equipment that emits noise are not restricted to the construction hours stated above.

The provisions of the Protection of the Environment Operations Act, 1997 in regulating offensive noise also apply to all construction works.

10 All sign shall be fixed firmly onto the walls.

11 Stamped plans, specifications, a copy of the development consent, the Construction Certificate and any other Certificates to be relied upon shall be available on site at all times during construction.

Name PUKAR PRADHAN

Signature

For the Building Approvals and Environment Protection Manager

PENRITH CITY COUNCIL
Serving Our Community

Civic Centre, 601 High Street
Penrith 2751

Telephone:(02) 4732 7777
Fax: (02) 4732 7958
Email: pencit@ penrithcity.nsw.gov.au

DX 8071 Penrith
PO Box 60 Penrith 2751

24-February-2004

**CONSTRUCTION MANAGEMENT SERVICES PTYL TD**
**1 HONEYEATER PLACE**
**ERSKINE PARK 2759**

## OCCUPATION CERTIFICATE
## Issued Under Sections 109C(1)(c) and 109H of the Environmental Planning and Assessment Act 1979

* The occupation and use of the building or part of the building described below,
*or the change of use of the building to the use described below:

Subject Land: Lot 1 DP771927 61 HENRY STREET PENRITH

Description of Building: DEMOLISH EXISTING RAMP & ERECT NEW PEDESTRIAN RAMP

The Occupation Certificate relates to the development approved by
Development Consent Number:DA01/0157

**The Council of the City of Penrith Certifies that:**

* It has been appointed as the Principal Certifying Authority under Section 109E of the Environmental Planning and Assessment Act, 1979.

* The health and safety of Occupants of the building has been taken into consideration.

* A Development Consent / Complying Development Certificate is in force with respect to the above building.

* A Construction Certificate has been issued with respect to the plans and specifications for the building.

* The building is suitable for occupation or use in accordance with its classification under the Building Code of Australia

*Where required, a final fire safety certificate has been issued for the building.

* Where required, a report from the Commissioner of Fire Brigades has been considered.

**For the Building Approvals & Environment Protection Manager**

6

PENRITH VALLEY
River Mountains Lakes

# Penrith City Council

Civic Centre, 601 High Street
Penrith 2751

Telephone: (02) 47327777
Fax: (02) 4732 7879
Email: pencit@penrithcity.nsw.gov.au

DX 8071 Penrith
PO Box 60 Penrith 2751

Our Ref: DA01/0157
Contact: MARK SWEENEY

## NOTICE OF DETERMINATION OF A DEVELOPMENT APPLICATION

*Issued under the Environmental Planning and Assessment Act 1979, Section 81(1)(a)*

| | |
|---|---|
| *Development Application No:* | *DA01/0157* |
| *Issued to:* | *CONSTRUCTION MANAGEMENT SERVICES PTY LTD* |
| *Address :* | *1 HONEYEATER PLACE ERSKINE PARK 2759* |
| *Land to be developed:* | *1 DP771927 at 61 HENRY STREET PENRITH* |
| *Proposed development:* | *DEMOLISH EXISTING RAMP & ERECT NEW PEDESTRIAN RAMP* |
| *Building Code of Australia building classification:* | *10B* |
| *Determination date:* | *24 January 2001* |
| *Determination:* | *Consent granted subject to the conditions specified in this notice.* |
| *Consent to operate from:* | *24 January 2001* |
| *Consent to lapse on:* | *24 January 2003* |
| *Review of Determination:* | *The applicant may request that Council review its determination pursuant to Section 82A of the Environmental Planning and Assessment Act 1979 within 28 days of the date of determination.* |
| *Right of Appeal:* | *If you are dissatisfied with this decision Section 97 of the Environmental Planning and Assessment Act 1979 gives you the right to appeal to the Land and Environmental Court within 12 months after the date on which you receive this notice.* |

*Signed:* .....
*Name: MARK SWEENEY*
*(for the Building Approvals and Environment Protection Manager)*

*Date of Issue: 29 January 2001*

collected 30/1/01

PENRITH VALLEY
River Mountains Lakes

# Penrith City Council

Civic Centre, 601 High Street
Penrith 2751

Telephone: (02) 47327777
Fax: (02) 4732 7879
Email: pencit@penrithcity.nsw.gov.au

DX 8071 Penrith
PO Box 60 Penrith 2751

## General conditions

1. Plans and Application
The development must be implemented substantially in accordance with the plans received by Penrith City Council, the application form and on any supporting information received with the application, except as may be amended in red on the attached plans and by the following conditions.

2. Period of Consent
This development consent is valid for a period of two (2) years from the date on the front of this notice and will lapse unless the development is commenced within that time.

3. BCA
All building work (other than work relating to the erection of a temporary building) must be carried out in accordance with the requirements of the Building Code of Australia (as in force on the date the application for the relevant Construction Certificate or Complying Development Certificate was made).

4. Classification of Building
The classification of the building(s) forming part of this consent is as follows:
Class 10b.

## Prior to any work commencing

5. PCA notice
The applicant is required to submit to Penrith City Council a "Notice of Commencement and Appointment of Principal Certifying Authority" form at least 2 days prior to the commencement of construction works.
Note: Regardless of whether the "Notice of Commencement and Appointment of Principal Certifying Authority" form is submitted or not, where Penrith City Council undertakes the first compliance inspection for the proposed development, Council is deemed to have been nominated as the Principal Certifying Authority.

6. Fees assoc. with Council Land
All fees associated with Penrith City Council owned land and infrastructure shall be paid Council prior to any works commencing. These fees include Road Opening fees and Infrastructure Restoration fees.

PENRITH VALLEY
River Mountains Lakes

# Penrith City Council

Civic Centre, 601 High Street
Penrith 2751

Telephone: (02) 47327777
Fax: (02) 4732 7879
Email: pencit@penrithcity.nsw.gov.au

DX 8071 Penrith
PO Box 60 Penrith 2751

## Matters to be complied with during construction

7. Plans on site

Stamped plans, specifications, a copy of the consent, the Construction Certificate and any other Certificates to be relied upon shall be available on site at all times during construction.

8. Inspections

The applicant must notify the Principal Certifying Authority in advance (if in the case of Penrith City Council, at least 24 hours by phone or by 4.00pm on the weekday before the inspection is required) to inspect the following stages of construction:

a) Steel reinforcement for footings/slabs/ or other structural concrete components prior to placement of concrete,
b) When the building is completed and ready for approval to occupy,

Note: Facsimile requests for inspections will not be accepted. The approval fee must also be paid for the inspection.

9. Hours of Work

Where there is a likelihood of annoyance due to noise from construction sites, the following NSW Environment Protection Authority Noise Control Guidelines apply to the hours of construction works:
Monday to Friday: 7am to 6pm
Saturday: 7am to 1pm (if inaudible on neighbouring residential premises), and otherwise 8am to 1pm
Sundays/Public Holidays: No work permitted

The provisions of the Protection of the Environment Operations Act, 1997 in regulating offensive noise also apply to all construction works.

## Prior to occupation certificate

10. Introd-Occupation Cert

An Occupation Certificate is to be obtained from the Principal Certifying Authority on completion of all works and prior to the commencement of the approved use. The Occupation Certificate will not be issued if any

conditions of this consent are outstanding.

## Advisory

11. Reasons
These conditions have been imposed for the following reasons:

1. To ensure compliance with the terms of the relevant Planning Instrument.
2. To ensure that no injury is caused to the existing and likely future amenity of the neighbourhood.
3. Due to the circumstances of the case and the public interest.
4. To ensure the structural integrity of the development.
5. To ensure the protection of the health and safety of the occupants of the development.

12. Liaison with ALL authorities
As part of all construction works, developers and applicants are required to liaise with appropriate authorities and utility providers. These authorities and utility providers include, but are not limited to:-

* The WorkCover Authority.
* Integral Energy.
* Sydney Water.
* A telecommunications provider.
* Australia Post.
* Other energy suppliers/authorities.
* Other relevant State and Federal Government Departments.

13. Operation Wombat etc.
Major Utilities - 'Dial Before You Dig Service'.

Damage to underground cables, pipework and other utility services are a serious problem. Damage to major underground utilities can be avoided by calling the 'Dial Before You Dig Service' on 1100 and following simple guidelines provided by the operators on this telephone number. Individuals and companies who do not follow these simple procedures may be found to be financially liable for damage caused to major utilities.
Note: Consideration should still be made for other non-member utility providers who do not participate in the 'Dial Before You Dig Service'.

PENRITH VALLEY
River Mountains Lakes

# Penrith City Council

Civic Centre, 601 High Street
Penrith 2751

Telephone: (02) 47327777
Fax: (02) 4732 7879
Email: pencit@penrithcity.nsw.gov.au

DX 8071 Penrith
PO Box 60 Penrith 2751

## CONSTRUCTION CERTIFICATE

A Construction Certificate for building work is hereby issued under Sections 109C(1)(b) and 81A(2) of the Environmental Planning and Assessment Act of 1979.

Penrith City Council certifies that the work if completed in accordance with these plans and specifications, will comply with the requirements of Section 81A(5) of the Environment Planning and Assessment Act of 1979.

| | |
|---|---|
| Certificate No: | CC 0100111 |
| Issued to:<br>PTYL TD | CONSTRUCTION MANAGEMENT SERVICES<br><br>1 HONEYEATER PLACE ERSKINE PARK 2759 |
| Land to be developed: | 1 DP771927 at<br>61 HENRY STREET PENRITH |
| Class of Building: | CLASS 10B |
| Certifying Authority: | Penrith City Council |
| Signature:<br>Name: | .....<br>MARK SWEENEY<br>(for the Building Approvals and Environment Protection Manager) |
| Date of Endorsement: | 29 January 2001 |
| Attachments: | Nil |

*Advice: The issue of the Construction Certificate permits the commencement of building works in accordance with the relevant approved plans and Development Consent, subject to Council being notified of the appointment of a Principal Certifying Authority*

PENRITH VALLEY
River Mountains Lakes

# Penrith City Council

Civic Centre, 601 High Street
Penrith 2751

Telephone: (02) 47327777
Fax: (02) 4732 7879
Email: pencit@penrithcity.nsw.gov.au

DX 8071 Penrith
PO Box 60 Penrith 2751

Tuesday, 22 October 2002

KOORONG BOOKS PTY LTD
28 WEST PARADE□WEST RYDE
NSW 2114

## OCCUPATION CERTIFICATE

*issued underSections 109C(1)(c) and 109H of the Environmental Planning and Assessment Act 1979*

* The occupation and use of the building or part of the building described below,
* or the change of use of the building to the use described below.

**Subject Land:** Lot 1 DP/771927 61 Henry Street Penrith

**Description of Building:** ALTERATIONS TO SHOP FRONT AND NEW INTERNAL WORK

**The Occupation Certificate relates to the development approved by Development Consent number:** DA02/0307

**The Council of the City of Penrith Certifies that:**

* It has been appointed as the Principal Certifying Authority under Section 109E of the Environmental Planning and Assessment Act, 1979.
* The health and safety of the Occupants of the building has been taken into consideration.
* A Development Consent/ Complying Development Certificate is in force with respect to the above building.
* A Construction Certificate has been issued with respect to the plans and specifications for the building.
* The building is suitable for occupation or use in accordance with its classification under the Building Code of Australia.
* Where required, a final fire safety certificate has been issued for building.
* Where required, a report from the Commissioner of Fire Brigades has been considered.

**for the Building Approvals and Environment Protection Manager**

PENRITH VALLEY
River Mountains Lakes

# CONSTRUCTION CERTIFICATE

PENRITH CITY COUNCIL

## DETAILS OF THE APPLICANT

| | |
|---|---|
| Name | KOORONG BOOKS PTY LTD |
| Address | 28 WEST PARADE<br>WEST RYDE NSW 2114 |

## DETAILS OF THE DEVELOPMENT CONSENT

| | |
|---|---|
| Development Consent No. | DA02/0307 |
| Date Consent was issued | 11 April, 2002 |

## DETAILS OF THE LAND

| | |
|---|---|
| Street No. | 61 |
| Street name | Henry Street |
| Suburb | Penrith |
| Lot No. | L1 |
| DP/ SP | DP/771927 |

## DECISION OF THE CERTIFYING AUTHORITY

The issue of this Certificate has been endorsed on the stamped approved plans and specifications lodged with the Construction Certificate application.

**Date of this Decision** 18 March, 2002

## INFORMATION ATTACHED TO THIS DECISION

A fire safety schedule

## CERTIFICATION

Penrith City Council certifies that if the work is completed following the stamped approved plans and specifications, it will comply with the requirements of Section 81A(5) of the Environmental Planning and Assessment Act 1979.

| | |
|---|---|
| Construction Certificate No. | CC02/0231 |
| Description of Work | ALTERATIONS TO SHOP FRONT & INTERNAL WORK |
| Date of this Certificate | 11 April, 2002 |

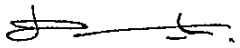
## APPLICANT'S RIGHT OF APPEAL

If the certifying authority is a Council, a Minister or a public authority and the certifying authority has issued the Construction Certificate subject to conditions, you can appeal against these conditions to the Land and Environment Court within 12 months from 11 April, 2002.

## SIGNATURE

Name & Position: DRAGO VRH
Senior Environmental Health & Building Surveyor

Signature



For the Building Approvals and Environment Protection Manager

## ADVISORY NOTES

1. Penrith City Council shall be advised, in writing, of the appointment of a Principal Certifying Authority at least two days before the commencement of work on the site.
2. If Penrith City Council is the Principal Certifying Authority, an inspection regime should be obtained from Council relating to your development to ensure that inspections are undertaken for the relevant stage of construction.
3. If you wish Council to issue Compliance Certificates for certain work(s), a separate application to Council and payment of fees is required.

INFORMATION

# INSPECTIONS DURING CONSTRUCTION

This advisory note has been developed for your information and relates to aspects of the construction that needs to be inspected. To undertake construction works, you will need to have appointed a Principal Certifying Authority as well as the relevant approvals for the development. The Principal Certifying Authority oversees the construction of the building/ development to its completion. A Principal Certifying Authority may either be a council or a private certifier.

If Penrith City Council is the Principal Certifying Authority for your development, Council will undertake the following inspections at the relevant stage(s) of construction:

a) Sediment and erosion control measures have been installed
b) When the building is completed and ready for approval to occupy.

If Penrith Council is to undertake the inspection, you should request the inspection at least 24 hours (by phone) or by 4.00pm on the weekday before the inspection is required.

The approved fee must be paid for the inspection. Council does not accept facsimile requests for inspections.

PENRITH VALLEY
River Mountains Lakes

# DETERMINATION OF DEVELOPMENT APPLICATION

PENRITH CITY COUNCIL

## DESCRIPTION OF DEVELOPMENT

| | |
|---|---|
| DA No. | DA02/0307 |
| Description of development | ALTERATIONS TO SHOP FRONT AND NEW INTERNAL WORK |
| Classification of development | The classification of the building(s) forming part of this consent is 6 |

## DETAILS OF THE APPLICANT

| | |
|---|---|
| Name | KOORONG BOOKS PTY LTD |
| Address | 28 WEST PARADE<br>WEST RYDE NSW 2114 |

## NOTES

1. Your attention is drawn to the attached conditions of consent in attachment 2 and the timing requirements for these conditions in attachment 1.
2. You should also check if this type of development requires a construction certificate in addition to this development consent.
3. It is recommended that you read the Advisory Note enclosed with this consent.

## DETAILS OF THE LAND TO BE DEVELOPED

| | |
|---|---|
| Street No. | 61 |
| Street name | Henry Street |
| Suburb | Penrith |
| Lot No. | L1 |
| DP/ SP | DP/771927 |

## DECISION OF CONSENT AUTHORITY

In accordance with Section 81(1)(a) of the Environmental Planning and Assessment Act 1979, consent is granted subject to the conditions listed in attachment 2 & the time frame for condition implementation in attachment 1.

| | |
|---|---|
| Date from which consent operates | 25 March 2002 |
| Date the consent expires | 25 March 2004 |
| Date of this decision | 25 March 2002 |

Please note that this consent will lapse on the expiry date unless the development has commenced in that time.

## OTHER APPROVALS

The following state authorities have approved the development:

Nil

## REVIEW OF DETERMINATION & RIGHTS OF APPEAL

1. The applicant may request that Council review its determination pursuant to Section 82A of the Environmental Planning and Assessment Act 1979 within 28 days of the date of determination. The applicant cannot make this request if the development is designated or integrated development, or State Significant development.
2. The applicant can appeal against this decision in the Land and Environment Court within 12 months of receiving this notice. The applicant cannot appeal if a Commission of Inquiry was held, or if the development is State significant development.
3. If the application was for designated development and a written objection was made in respect to the application, the objector can appeal against this decision to the Land and Environment Court within 28 days after the date of this notice. The objector cannot appeal if a Commission of Inquiry was held.

   If the applicant appeals against this decision, objector(s) will be given a notice of the appeal and the objector(s) can apply to the Land and Environment Court within 28 days after the date of this appeal notice to attend the appeal and make submissions at that appeal.

## REASONS

The conditions in the attached schedule have been imposed for the following reasons:

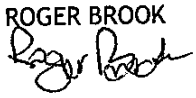
- To ensure compliance with the terms of the relevant Planning Instrument.
- To ensure that no injury is caused to the existing and likely future amenity of the neighbourhood.
- Due to the circumstances of the case and the public interest.
- To ensure the structural integrity of the development.
- To ensure the protection of the health and safety of the occupants of the development.

## POINT OF CONTACT

If you have any questions regarding this consent you should contact:

| | |
|---|---|
| Assessing officer | ROGER BROOK |
| Contact telephone number | (02) 4732 7984 |

## SIGNATURE

| | |
|---|---|
| Name | ROGER BROOK |
| Signature |  |

For the Building Approvals and Environment Protection Manager

# ATTACHMENT 1: TIME FRAME FOR CONDITIONS

| TIME FRAME | CONDITION NO. |
|---|---|
| To be completed prior to the issue of Construction certificate | |
| To be completed prior to commencement of construction | 4, 16 |
| Matters to be submitted during construction | |
| To be completed prior to the issue of an Occupation Certificate | 17 |
| Note: some conditions may not be listed in the table as they are operational or do not have a time constraint. | |

# ATTACHMENT 2: CONDITIONS OF CONSENT

## GENERAL

1 The development must be implemented substantially in accordance with the stamped-approved plans issued by Penrith City Council, the application form and any supporting information received with the application, except as may be amended in red on the attached plans and by the following conditions.

2 The proprietor of the food business shall ensure that the requirements of the Food Act 1989 and Food Regulation 2001 are met at all times. All food shop construction works shall be carried out in accordance with the requirements of the Australian Institute of Environmental Health "National Code for the Construction and Fitout of Food Premises" 1993, the Food Act, 1989 and Food Regulation 2001.

3 The building shall not be used or occupied until an Occupation Certificate has been issued.

4 The business is to be registered with Penrith City Council by completing the "Registration of Premises" form. This form is to be returned to Council prior to the commencement of the business.

5 A separate development application for the erection of a sign or advertising structure, other than an advertisement listed as exempt development, is to be submitted to Penrith City Council, complying with the requirements of Penrith Development Control Plan-Advertising Signs.

6 No external signage is to be used on the building or subject site to advertise or promote the cafe.

7 The premises are to be used as a bookshop and associated merchandise with customer facilities for a coffee shop and childrens play area. Any additional uses are to be subject to Council consent.

8 The finishes of all structures and buildings are to be maintained at all times and any graffiti or vandalism immediately removed/repaired.

## BCA ISSUES

9 All aspects of the building design shall comply with the applicable performance requirements of the Building Code of Australia so as to achieve and maintain acceptable standards of structural sufficiency, safety (including fire safety), health and amenity for the on-going benefit of the community. Compliance with the performance requirements can only be achieved by:

(a) complying with the deemed to satisfy provisions, or

(b) formulating an alternative solution which:

* complies with the performance requirements, or

* is shown to be at least equivalent to the deemed to satisfy provision, or

(c) a combination of (a) and (b).

10 A preliminary assessment of the plans submitted with the application has disclosed that the following design and/or construction issues need to be addressed during construction. With the installation of the internal partioning the location of exit and emergency lighting and hydrants/hose reels will need to be determined to determine compliance with the BCA. If necessary additional essential services are to be installed and a Fire Safety Statement submitted to Council prior to occupation.

11 Access and sanitary facilities for persons with disabilities are to be provided in accordance with the requirements of the Building Code of Australia and Penrith City Council's Access Policy for persons with disabilities. Details of compliance are to be provided in the relevant plans and specifications accompanying the Construction Certificate application.

12 The owner of a building, to which an essential fire safety measure is applicable, shall provide Penrith City Council an annual fire safety statement for the building. The annual fire safety statement for a building must:

(a) deal with each essential fire safety measure in the building premises, and

(b) be given:

* within 12 months after the last such statement was given, or

* if no such statement has previously been given, within 12 months after a final fire safety certificate was first issued for the building.

As soon as practicable after the annual fire safety statement is issued, the owner of the building to which the statement relates:

* must provide a copy of the statement (together with a copy of the current fire safety schedule) to the Commissioner of New South Wales Fire Brigades, and

* prominently display a copy of the statement (together with a copy of the current fire safety schedule) in the building.

## HEALTH MATTERS

13 All work shall be carried out in accordance with the requirements of the Australian Institute of Environmental Health "National Code for (A) Food Vending Vehicles and (B) Temporary Food Premises 1991".

## CONSTRUCTION

14 Stamped plans, specifications, a copy of the consent, the Construction Certificate and any other Certificates to be relied upon shall be available on site at all times during construction.

A sign is to be erected in a prominent position on the work site and shall be in a manner that can be easily read by pedestrian traffic. The sign is to be erected at the commencement of, and for the full length of the, construction works onsite and shall state:

* the name of the person in charge of the work site and telephone number at which that person may be contacted during work hours; and

* the approved hours of construction; and

* that unauthorised entry to the work site is prohibited.

The sign is to be removed when the work has been completed.

15 The hours of construction works are restricted to the following:

* Mondays to Fridays,7am to 6pm

* Saturdays, 7am to 1pm (if inaudible on neighbouring residential premises), otherwise 8am to 1pm

* No work is permitted on Sundays and Public Holidays.

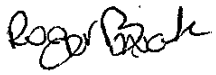
The provisions of the Protection of the Environment Operations Act, 1997 in regulating offensive noise also apply to all construction works.

**CERTIFICATION**

16 The applicant is required to submit to Penrith City Council a completed "Notice of Commencement and Appointment of Principal Certifying Authority" form at least 2 days prior to the commencement of construction works. If the "Notice of Commencement and Appointment of Principal Certifying Authority" form is not submitted, and Penrith City Council undertakes the first compliance inspection for the proposed development, Council is deemed to have been nominated as the Principal Certifying Authority.

17 Prior to the issue of an Occupation Certificate, fire safety certificates are to be submitted to Penrith City Council and the New South Wales Fire Brigades. A copy of the latest fire safety schedule and fire safety certificate/ statement is to be displayed in a prominent position within the building at all times.

Name ROGER BROOK

Signature 

For the Building Approvals and Environment Protection Manager

46850-25366-6

D.46850/25366 DA.3
Mr. G. Hall. GH:VN.

ENVIRONMENTAL PLANNING AND ASSESSMENT ACT, 1979

NOTICE TO APPLICANT OF DETERMINATION

OF A DEVELOPMENT APPLICATION

Pursuant to Section 92 of the Act, notice is hereby given of the determination by the consent authority of the Development Application.

D.A. No. 202/87 Date of Consent: 26th August, 1987

Issued to: Clinicare Medical Centres

Address: 79 Austin Street, Lane Cove, 2066

Premises Referred to in Development Application: Unit 4, Henry Lawson Centre, Nos. 61-79 Cnr. Henry and Lawson Streets, Penrith

Date of Receipt: 1st July, 1987

Brief Description of Proposed Development: Occupation of Unit 4 as a medical centre, chemist shop and refreshment room/coffee shop in accordance with plans numbered 87/1 + 2 submitted to Council on 1st July, 1987.

The Development Application has been determined by:

Granting of consent subject to the conditions specified in this Notice.

(This Application was approved by the Deputy Chief Town Planner under Delegated Authority by Council at its meeting held on 19th August 1986. Minute No. 2680.)



Document Set ID: 7134406
Version: 1, Version Date: 27/04/2016

The conditions of the consent are set out as follows:-

1. All alterations to services and municipal facilities as necessitated by the development shall be the responsibility of the applicant.

2. This consent shall lapse if the development to which it refers is not commenced within two (2) years after the date of the consent; provided that Council may, if good cause be shown in a written application requesting an extension of time, grant an extension of the consent for a further twelve months pursuant to Section 99(3) of the Environmental Planning and Assessment Act, 1979.

3. Prior to the preparation of working drawings the applicant is to consult with Council's Building Surveyor with respect to (1) emergency lighting and exit signs, (2) masonry walls in coffee shop preparation area, and (3) ceiling to coffee shop.

4. Shops intended for use as food stores are to comply with Council's Codes and the relevant regulations, including the Local Government Act and Pure Food Act. In this regard the applicant is to consult with the City Health Surveyor prior to the preparation of working drawings.

5. The submission of building plans and specifications under cover of a formal Building Application to the satisfaction of the City Health Surveyor.

It is to be noted that the consideration of this application has been limited generally to matters relating to site treatment and that detailed consideration has not been given to the internal layout of the building or matters controlled under the provisions of the relevant building requirements.

Applicants are advised that it is in their interests to consult with Council's Health and Building Department with respect to these matters prior to the preparation of working drawings.

6. Existing landscaping is to be retained and maintained to Council's satisfaction.

7. There shall be maintained on the site facilities for parking sufficient to serve the business conducted thereon and no use shall be made of the site which will attract parking in excess of the parking spaces available thereon.

8. All vehicles associated with the use are to be contained in an orderly manner on the site behind the landscaped area at all times.



Document Set ID: 7134406
Version: 1, Version Date: 27/04/2016

9. All materials and goods associated with the use are to be contained within the building at all times.

10. The use is to operate so as not to cause injury to the amenity of persons residing in the vicinity and any direction of Council in this regard is to be given immediate compliance.

11. No amusement machines are to be installed in the shop/s.

12. Separate application is to be made for all advertising structures.

In this regard a uniform approach shall be adopted for all advertising structures and signs associated with the multi-occupancy development. A uniform application should be submitted to the Health and Building Department for all advertising structures on the development.

You should consult with the property owner to incorporate any advertising signs required by the operation to be included with the overall proposal relating to such signs.

13. The original approved building plans for Unit 4 are to be amended to allow for the two new front entries at the corner of Henry and Lawson Streets.

14. The front stairs on the corner of Henry and Lawson Streets are to be relocated to a more central position to allow for a more direct pedestrian movement to the front chemist and coffee shop.

This variation is also to be approved by Council prior to its implementation, with the original approved building plans being amended.

15. Compliance with the conditions of the overall development consent prior to occupation of the premises.

16. Additional carparking be provided at the rear of Units Nos. 1 and 4 in accordance with plans submitted to Council under cover of letter dated 18th August, 1987.

These conditions have been imposed for the following reasons:

1. To ensure compliance with the terms of the relevant Planning Instrument.

2. To ensure that no injury is caused to the existing and likely future amenity of the neighbourhood.

3. Due to the circumstances of the case and the public interest.



Document Set ID: 7134406
Version: 1, Version Date: 27/04/2016

Notice is hereby given of the right of appeal against the decision of Council pursuant to the Land and Environment Court Act, 1979.

The granting of the above application does not relieve the Applicant of the obligation to obtain any other approval required under the Local Government Act, 1919, or any other Act and Ordinances under such Acts.

G. Dean
for the Chief Town Planner

Dated this twenty-sixth day of August, 1987.



Document Set ID: 7134406
Version: 1, Version Date: 27/04/2016

H6850-25366-6

# Penrith City Council

All communications to be addressed to:
The Town Clerk, P.O. Box 329, Penrith,
N.S.W. 2750 (DX 8017, Penrith)

Administrative Centre,
114-116 Henry Street, Penrith
Your Ref.:

Telephone: (047) 32 2422
Telex: Pencit AA72490 Fax: (047) 31 1904
Our Ref.: D46850/25366 DA.2
Contact: Ms H. Lowndes (HL:SD)

## ENVIRONMENTAL PLANNING AND ASSESSMENT ACT, 1979

## NOTICE TO APPLICANT OF DETERMINATION

## OF A DEVELOPMENT APPLICATION

Pursuant to Section 92 of the Act, notice is hereby given of the determination by the consent authority of the Development Application.

D.A. No. 274/86 Date of Consent: 29th January 1987

Issued to: Stokes, Hayes and Kanas Pty Ltd

Address: 157-159 Harris Street,
Pyrmont 2009

Premises Referred to in Development Application: Land bounded by North, Lawson and Henry Streets and Penrith Public School, Penrith.

Date of Receipt: 1st October 1986

Brief Description of Proposed Development: Erection of retail showrooms and office development with associated carparking in accordance with Plans numbered CR 699-SK 3E and 4D submitted to Council on 1st October 1986 as amended by Council's Plan Number D46850/25366DA.2 of 29th January 1987.

The Development Application has been determined by:

Granting of consent subject to the conditions specified in this Notice.

(This Application was approved by the Deputy Chief Town Planner under Delegated Authority by Council at its meeting held on 19th August 1986. Minute No. 2680.)



Document Set ID: 6704166
Version: 1, Version Date: 03/07/2015

The conditions of the consent are set out as follows:-

1. Before usage of the development commences, all of the conditions of this consent are to be complied with to Council's satisfaction and it is the responsibility of the applicant to advise Council's Town Planning Department when the development is ready for inspection. (This inspection is a separate requirement to the final inspection of the building which is carried out by Council's Health and Building Department).

2. All alterations to services and municipal facilities as necessitated by the development shall be the responsibility of the applicant.

3. This consent shall lapse if the development to which it refers is not commenced within two (2) years after the date of the consent; provided that Council may, if good cause be shown in a written application requesting an extension of time, grant an extension of the consent for a further twelve months pursuant to Section 99(3) of the Environmental Planning and Assessment Act, 1979.

4. Prior to the preparation of working drawings the applicant is to consult with Council's Health and Building Department with respect to Ordinance 70.

5. Arrangements satisfactory to the City Engineer are to be made for the adjustment of the sewer main affecting the site. Details are to be submitted for approval concurrently with the Building Application.

6. Arrangements satisfactory to the City Engineer are to be made for the provision of common drainage and the disposal of drainage from the site. Details are to be submitted for approval prior to the approval of the Building Application.

7. All roadworks, dedications and drainage works are to be carried out at the applicant's cost.

8. The dedication at no cost to Council of a splay corner at the intersection of Henry Street and Lawson Street.

9. Shops intended for use as food stores are to comply with Council's Codes and the relevant regulations, including the Local Government Act and Pure Food Act. In this regard the applicant is to consult with the City Health Surveyor prior to the preparation of working drawings.

10. The provision of garbage bin receptacles of a type and in a location satisfactory to Council.



Document Set ID: 6704166
Version: 1, Version Date: 03/07/2015

11. The submission of building plans and specifications under cover of a formal Building Application to the satisfaction of the City Health Surveyor.

It is to be noted that the consideration of this application has been limited generally to matters relating to site treatment and that detailed consideration has not been given to the internal layout of the building or matters controlled under the provisions of the relevant building requirements.

Applicants are advised that it is in their interests to consult with Council's Health and Building Department with respect to these matters prior to the preparation of working drawings.

12. As far as practicable all trees and shrubs on the site are to be preserved and integrated with the plan of landscaping. No trees to be removed without the approval of the Town Planner, such approval to be sought subsequent to the pegging of building works.

13. There shall be maintained on the site facilities for parking sufficient to serve the business conducted thereon and no use shall be made of the site which will attract parking in excess of the parking spaces available thereon.

14. All parking spaces are to be permanently delineated to Council's satisfaction and have minimum dimensions 5.5m x 2.6m with a 6.7m turning aisle.

15. All vehicles associated with the use are to be contained in an orderly manner on the site behind the landscaped area at all times.

16. Provision of a directional sign to Council's satisfaction indicating the availability of customer parking within the front building setback area.

17. Provision of a parking area to Council's satisfaction in accordance with Council's amended plan, such parking bays to be sealed and permanently delineated.

18. All land required for vehicular access and parking is to be paved/sealed with paving bricks or a combination of concrete, bitumen and paving bricks to Council's satisfaction. Details of materials and paving patterns to be submitted for approval prior to the issue of a building permit.

19. Provision of gutter crossings to the satisfaction of the City Engineer.



Document Set ID: 6704166
Version: 1, Version Date: 03/07/2015

20. The vehicular crossing in Lawson Street is to be used for ingress purposes only and appropriately signposted 'IN' to Council's satisfaction.

21. The vehicular crossing in Henry Street adjacent to the site's eastern boundary is to be used for egress purposes only and appropriately signposted 'OUT' to Council's satisfaction.

22. Heavy duty paved vehicular footway crossings are to be provided at all points of ingress and egress to the satisfaction of and under the supervision of the City Engineer.

23. Vehicles must be driven forward on to and away from the site.

24. The site treatment being amended as shown on Council's amended plan to provide additional manoeuvring area for vehicles entering and leaving the loading dock and service vehicle areas.

25. The applicant is to furnish written evidence concurrently with the submission of a Building Application that satisfactory arrangements have been made with Prospect County Council for the provision of electricity services to the site.

26. Submission of documentary evidence that satisfactory arrangements have been made with the Metropolitan Water Sewerage and Drainage Board for the provision of water services to the site, concurrently with the submission of a Building Application.

27. All materials and goods associated with the use are to be contained within the building at all times.

28. Separate application is to be made for all advertising material.

29. The subject development, including landscaping, is to be maintained in a clean and tidy manner to Council's satisfaction at all times and any direction given by Council in this regard is to be given immediate compliance.

30. No storage is to be carried out between the buildings and the side or rear boundaries of the site.

31. Separate application is to be made for all occupation and re-occupation of the retail showroom units.

32. No amusement machines are to be installed in the retail showroom units.



Document Set ID: 6704166
Version: 1, Version Date: 03/07/2015

33. A uniform approach shall be adopted for all advertising structures and signs associated with the multi-occupancy development. A submission for the overall concept of development shall be submitted to the Health and Building Department for consideration prior to the completion and occupation of the development.

34. All advertising structures/sign shall comply with the requirements of Ordinance 55 and Council's Draft Sign Code.

35. Garbage storage areas shall be delineated inside each occupancy in addition to any common external central garbage store.

36. The external central garbage store shall be constructed of masonry and shall be graded and drained to the sewerage system which will require specific construction specifications. Consultation shall take place with Council's Health and Building Department prior to preparing working drawings. These enclosures shall comply with the M.W.D.A. waste site storage and handling guidelines.

37. Any additional proposed site fencing shall be indicated on the building application drawings.

38. Details of the finished floor levels and finished ground levels relating to Australian Height Datum shall be included on the building application working drawings.

39. The existing dwellings, outbuildings and fencing shall not be demolished until a written application has been lodged and approval granted in writing by the Health and Building Services Manager. At least 21 days notice shall be given prior to intention to demolish.

40. All the various lots comprising the development shall be consolidated into one (1) allotment prior to the occupation of the development or the issue of a 317A Certificate whichever occurs first.

41. The dedication of road widening in Lawson Street and North Street as public road in accordance with the widening shown on Council's engineering plan AB87 Sheet 2 with documentary evidence of registration, to be provided before occupation of the proposed buildings or issue of the 317A Certificate.

42. All old disused vehicle entrances shall be reconstructed as standard kerb to the satisfaction and under the supervision of the City Engineer.

43. The showroom (Unit 1) shall be modified to allow for the truck turning path to be accommodated clear of the future centre line in Lawson Street after widening.



Document Set ID: 6704166
Version: 1, Version Date: 03/07/2015

44. "Corporation Drain" shall be upsized to a covered channel of 1:40 year flooding frequency capacity. Detailed calculations and engineering plans shall be submitted in triplicate for approval by the City engineer prior to approval of the building application.

45. Provision shall be made for the 1:100 year flow from the contributing catchment to pass through the site unimpeded.

46. An easement for drainage shall be created in favour of Council over the covered channel and the position of the overland flowpath, with a restriction as to user over the title of the land to prevent any obstruction within the overland flowpath.

47. Floor levels shall be fixed a minimum of 0.5 metres above the 1:100 year flow level through the site.

These levels to be determined following the submission of detailed engineering plans and waterway calculations.

48. Any points of vehicle access over the covered channel shall be designed by a structural engineer to withstand the traffic loading applicable to the location.

49. Any kerb and gutter, or roadworks damaged during the course of construction of the project shall be reconstructed to the satisfaction of the City Engineer.

50. Payment to Council of the sum of $16,046 being the sewerage contribution for headworks and treatment works.

This sum will remain fixed for three (3) calendar months from the date of consent. Failure to pay by the specified date may result in re-assessment of the contribution.

An additional contribution is required for sewerage reticulation to the subject site; this charge will be calculated at the time of lodgement of the building application.

Payment to Council is required to allow preliminary designs to be carried out. 10% of the treatment works and headworks amplification charge or a minimum of $300 is to be paid within three months from the date of development application consent. The cost of providing sewerage reticulation is to be paid prior to approval of the building application.

51. The construction of full width footpaving in an approved material (for example paving bricks, combination of paving brick and concrete) for



Document Set ID: 6704166
Version: 1, Version Date: 03/07/2015

full frontage of Henry Street and partial frontage of Lawson Street in accordance with Council's amended Plan.

Construction to be to Council's standard specifications under the supervision of the City Engineer.

Details of materials paving patterns and construction to be submitted for approval prior to construction and to include provision for street tree holes in nominated positions. In this regard, the applicant should consult with Council's Landscape Architect, Mr T. Howard, prior to finalisation of details.

52. The construction of concrete footpaving for the remainder of Lawson Street 1.2 metres wide aligned 0.9 metres off the Lawson Street boundary after widening. Landscaping (e.g. tree planting, turfing) in Lawson Street shall be carried out following the footpaving works.

53. The pipeline through the site north of Henry Street shall be upsized to a 1:40 year capacity line with engineering plans to be submitted in triplicate for approval by the City engineer prior to approval of the building application.

54. The creation of an easement for drainage in favour of Council over the upsized line from Henry Street. Documentary evidence to be provided to Council prior to occupation of the buildings.

55. The vehicular crossings to the carparking area in Henry Street to be appropriately signposted to Council's satisfaction.

56. Service vehicle entry/exit points in Lawson Street and Henry Street to be signposted to restrict customer vehicle entry to Council's satisfaction.

57. The building adjacent to the site's eastern boundary to be designed to allow satisfactory sight distance for service vehicles leaving the site via Henry Street.

58. Prior to the demolition of any existing dwellings and outbuildings or removal of any existing vegetation of the site the applicant shall prepare an historical record of the subject site. This shall include:

- a survey plan of all existing properties to identify all existing dwellings, outbuildings, trees and other significant features of the site;

- a floor plan layout of buildings identified on Council's plan, as attached as Appendix B;



Document Set ID: 6704166
Version: 1, Version Date: 03/07/2015

- a photographic record of all elevations of buildings identified on Council's plan, attached as Appendix B, in addition to streetscapes and the site generally.

Prior to the preparation of the historical record the applicant is to consult with officers of Council's Town Planning Department for details of Council's requirements. The historical record shall be submitted for Council's consideration and approval prior to the issue of a building permit.

59. Details of architectural treatment of all the development's elevations shall be submitted for approval prior to the issue of a building permit and shall include:

- submission of a schedule of proposed external finishes including samples of all external materials to be used;

- details of external brickwork which should exhibit architectural detailing and brickwork bonding (such as header courses, window edging) to enhance the building elevations;

- extension of architectural detailing (such as eave treatment, roof pitch, verandah and entry design) from the Henry Street elevation to Lawson and North Street elevations to integrate the front and rear components of the developments.

60. A screen wall shall be provided along the site's Lawson Street frontage to screen the loading dock adjacent to retail showroom Unit No. 4 and the service vehicle accessway adjacent to the Lawson Street boundary. The screen wall shall be a minimum 1.2 metres high, depending on site levels, and constructed of brick or alternative material similar to the development's Henry Street elevation. Details of the screen wall construction and materials shall be submitted for approval prior to the issue of a building permit.

61. A screen wall shall be provided along the site's North Street frontage to conceal the loading docks, service vehicle accessway and hard paved areas from view from North Street. The screen wall shall be generally a minimum 1.2 metres high depending on site levels and designed and constructed of materials compatible with the main buildings on the site.

The screen wall shall be located along the North Street landscape area as indicated on Council's amended plan. Details of the screen wall construction and materials shall be submitted for approval prior to the issue of a building permit.



Document Set ID: 6704166
Version: 1, Version Date: 03/07/2015

62. Both vehicular and pedestrian access will not be permitted to the development from the North Street bypass.

63. A plan of landscaping shall be submitted for Council's consideration and approval prior to the issue of a building permit. The plan shall include:

- details of the type and quantity of proposed species and maintenance programme for those areas shown on Council's amended plan;

- advanced tree and shrub planting within the site and the applicant shall consult with Council officers regarding suitable species;

- details of external lighting of the site including the carpark area;

- details of paving of all external areas, pedestrian areas and pathways within the site;

- details of external and footpath gradients, seating and other provisions for pedestrians within the site.

64. Pedestrian accessways within the site shall be paved with a material to distinguish this from vehicular access.

65. Loading dock areas are to be permanently delineated to Council's satisfaction.

66. The vehicular areas shall require pedestrian safety devices such as speed humps and/or paving variations to the satisfaction of Council.

67. A 2.0 metre wide landscape strip shall be provided along the site's North Street boundary in accordance with Council's amended plan.

68. Any structures projecting through the roof or other plant external to the building is to be designed and screened in a manner which is compatible with the external design and materials of the main building. Details of the roof top and external plant treatment of the development including materials and colours shall be submitted for approval at the Building Application stage. Roof cladding materials shall be of a non-reflective material.

These conditions have been imposed for the following reasons:-

1. To ensure compliance with the terms of the relevant Environmental Planning Instruments



Document Set ID: 6704166
Version: 1, Version Date: 03/07/2015

2. Due to the circumstances of the case and the public interest.

3. To ensure that adequate road and drainage works are provided.

4. To ensure that requirements relating to Health and Building matters will be met.

5. To ensure that access, parking and loading arrangements will be made to satisfy the demands created by the development.

Notice is hereby given of the right of appeal against the decision of Council pursuant to the Land and Environment Court Act, 1979.

The granting of the above application does not relieve the Applicant of the obligation to obtain any other approval required under the Local Government Act, 1919, or any other Act and Ordinances under such Acts.

B. Simpson,
for the Chief Town Planner

Dated this Twenty ninth day of January 1987.



Document Set ID: 6704166
Version: 1, Version Date: 03/07/2015

# Penrith City Council

All communications to be addressed to:
The Town Clerk, Private Bag No. 5
Penrith, N.S.W. 2750 (DX8017, Penrith)

Administrative Centre,
114-116 Henry Street, Penrith
Your Ref.:
36750-50094-5

Telephone: (047) 32 7777
Fax: (047) 31 1904
Our Ref.: D.36750/50094 DA.1 SR:JB
Contact: Mr Sam Renauf 32 7725


ENVIRONMENTAL PLANNING AND ASSESSMENT ACT, 1979

NOTICE TO APPLICANT OF DETERMINATION

OF A DEVELOPMENT APPLICATION

Pursuant to Section 92 of the Act, notice is hereby given of the determination by the consent authority of the Development Application.

D.A. No. 68/90 Date of Consent: 30 March, 1990

Issued to: Ford & Cullen

Address: PO Box 685, PARRAMATTA 2124

Premises Referred to in Development Application: Lot 1, (Unit 1) DP 771927 Henry Street, Penrith

Date of Receipt: 21st February, 1990

Brief Description of Proposed Development: Occupation of Premises for the purpose of a Retail Sales/Hire of Video Cassettes and Accessories in accordance with plans numbered 050094/1 submitted to Council on 21st February, 1990.

The Development Application has been determined by:

Granting of consent subject to the conditions specified in this Notice.

(This Application was determined by the Environmental Planning Manager under Delegated Authority by Council at its meeting held on 19th August 1986. Minute No. 2680.)




Document Set ID: 7145599
Version: 2, Version Date: 08/08/2016

The conditions of the consent are set out as follows:-

1. Before usage of the development commences, all of the conditions of this consent are to be complied with to Council's satisfaction and it is the responsibility of the applicant to advise Council's Town Planning Department when the development is ready for inspection. (This inspection is a separate requirement to the final inspection of the building which is carried out by Council's Health and Building Department).

2. All alterations to services and municipal facilities as necessitated by the development shall be the responsibility of the applicant.

3. This consent shall lapse if the development to which it refers is not commenced within two (2) years after the date of the consent; provided that Council may, if good cause be shown in a written application requesting an extension of time, grant an extension of the consent for a further twelve months pursuant to Section 99(3) of the Environmental Planning and Assessment Act, 1979.

4. Prior to the preparation of working drawings the applicant is to consult with Council's Health and Building Department with respect to Part 24 of egress requirements of Ordinance 70.

5. The provision of garbage bin receptacles of a type and in a location satisfactory to Council.

6. Provision of a garbage storage area to the satisfaction of the Health and Building Services Manager.

7. The submission of building plans and specifications under cover of a formal Building Application to the satisfaction of the Health and Building Services Manager.

It is to be noted that the consideration of this application has been limited generally to matters relating to site treatment and that detailed consideration has not been given to the internal layout of the building or matters controlled under the provisions of the relevant building requirements.

Applicants are advised that it is in their interests to consult with Council's Health and Building Department with respect to these matters prior to the preparation of working drawings.

8. The existing structure is to be to the satisfaction of the Health and Building Services Manager and conform to the relevant requirements of the Local Government Act and Ordinances thereunder.



Document Set ID: 7145599
Version: 2, Version Date: 08/08/2016

9. The applicant shall consult with Council's Health and Building Department regarding any alterations required to be carried out to bring about compliance with Ordinance 70 and the required works are to be carried out prior to occupation.

10. All materials and goods associated with the use are to be contained within the building at all times.

11. Any sign or advertising structure shall be the subject of a separate application, complying with the requirements of Ordinance 55 and Council's Draft Sign Policy.

It is suggested that the applicant consult with the Environmental Planning Department to clarify the intent of these requirements.

12. All existing signs advertising "F.J. Auto Spares" shall be removed with the external finishes of the building restored to original condition.

These conditions have been imposed for the following reasons:

1. To ensure compliance with the terms of the Planning Instrument - Local Environmental Plan No. 6.

2. To ensure that requirements relating to Health and Building matters will be met.

3. To ensure that access, parking and loading arrangements will be made to satisfy the demands created by the development.

Notice is hereby given of the right of appeal against the decision of Council pursuant to the Environmental Planning and Assessment Act, 1979.

The granting of the above application does not relieve the Applicant of the obligation to obtain any other approval required under the Local Government Act, 1919, or any other Act and Ordinances under such Acts.

Gary Dean
for the Environmental Planning Manager

Dated this thirtieth day of March, 1990



Document Set ID: 7145599
Version: 2, Version Date: 08/08/2016

# PENRITH CITY COUNCIL

## MAJOR ASSESSMENT REPORT

| | |
|---|---|
| **Application number:** | DA13/1185 |
| **Proposed development:** | Fit-Out & Use as Music Tuition Studio |
| **Property address:** | 61 - 79 Henry Street, PENRITH NSW 2750 |
| **Property description:** | Lot 1 DP 771927 |
| **Date received:** | 16 October 2013 |
| **Assessing officer** | Jane Hetherington |
| **Zoning:** | ZONE B3 COMMERCIAL CORE PCCLEP 2008 |
| **Class of building:** | Class 9b |
| **Recommendations:** | Approve |

## Executive Summary

Council is in receipt of a development application for fit-out & use as a music tuition studio at 61-79 Henry Street, Penrith. Under Penrith City Centre Local Environmental Plan 2008 the proposal is defined as a *business premises*. The subject site is zoned B3 Commercial Core and the proposal is a permissible land use in the zoning with Council consent. An assessment under Section 79C of the Environmental Planning and Assessment Act 1979 has been undertaken and the application is recommended for approval, subject to recommended conditions.

## Site & Surrounds

***Properties of the site***

The subject site is located on the northern side of Henry Street, with a secondary street frontage to Lawson Street. The subject site has a frontage to North Street, however no vehicular access is provided to this street. It is 1.616 hectares in area and is orientated mainly in a southerly direction.

The site is currently occupied by multi tenancy commercial building occupants including Koorong Bookshop, the Good Guys, Lamrock Solicitors and two medical centres.

The surounding area is characterised by commercial offices, retail and food shops, real estate agents and car parking. Penrith Police Station, Penrith Court House and King Henry's Court are located directly opposite the site.

## Proposal

The proposed development involves:

- Fit-out and use of existing tenancy (Unit 5C) to operate a music tuiton studio.
- Operating hours: Mondays to Fridays, 2pm to 9pm and Saturdays, 10am to 4pm.
- 6 staff.
- Associated signage.

## Plans that apply

- Penrith Local Environmenal Plan 2008 (City Centre)
- Development Control Plan 2006
- Development Control Plan 2007 (City Centre)
- State Environmental Planning Policy No 64—Advertising and Signage
- Sydney Regional Environmental Plan No.20 - Hawkesbury Nepean River

## Planning Assessment

- **Section 79C - Evaluation**

The development has been assessed in accordance with the matters for consideration under Section 79C of the Environmental Planning and Assessment Act 1979, and having regard to those matters, the following issues have been identified for further consideration:

### Section 79C(1)(a)(i) The provisions of any environmental planning instrument

#### State Environmental Planning Policy No 64—Advertising and Signage

An assessment has been undertaken of the application against relevant criteria within State Environmental Planning Policy No 64—Advertising and Signage and the application is satisfactory subject to recommended conditions of consent.

#### Sydney Regional Environmental Plan No.20 - Hawkesbury Nepean River

An assessment has been undertaken of the application against relevant criteria within Sydney Regional Environmental Plan No 20—Hawkesbury-Nepean River (No 2—1997) and the application is satisfactory subject to recommended conditions of consent.

#### Penrith Local Environmenal Plan 2008 (City Centre)

| Provision | Compliance |
|---|---|
| Clause 2 - Aims of the Plan | Complies |
| Clause 12 - Zoning of land to which this plan applies | Complies |
| Clause 13 - Zone objectives | Complies |
| Clause 15 - Additional permitted uses for particular land | N/A |
| Clause 16 - Subdivision consent requirements | N/A |
| Clause 17 - Temporary use of land | N/A |
| Clause 21 - Height of buildings | N/A |
| Clause 22 - Architectural roof features | N/A |
| Clause 23 - Sun Access | N/A |
| Clause 24 - Floor space ratio | N/A |
| Clause 25 - Minimum building street frontage | N/A |
| Clause 26 - Design Excellence | N/A |
| Clause 27 -Car parking | N/A |
| Clause 28 - Ground floor development within B3 and B4 | Complies |
| Clause 29 - Building separation | N/A |

| | |
|---|---|
| Clause 30 - Ecologically sustainable development | N/A |
| Clause 31 - Serviced apartments | N/A |
| Clause 32 - Exceptions to development standards | N/A |
| Clause 33 - Land acquisition within certain zones | N/A |
| Clause 34 - Development on proposed classified roads | N/A |
| Clause 35 - Classification and reclassification of public land | N/A |
| Clause 36 - Community use of educational establishments | N/A |
| Clause 37 - Classified roads | N/A |
| Clause 38 - Development in proximity to a rail corridor | N/A |
| Clause 39 - Preservation of trees or vegetation | N/A |
| Clause 40 - Heritage conservation | N/A |
| Clause 41 - Bush fire hazard reduction | N/A |
| Clause 42 - Development for group homes | N/A |
| Clause 43 - Crown development and public utilities | N/A |
| Clause 44 - Location of sex services premises and restricted premises | N/A |
| Schedule 1 - Additional permitted uses | N/A |
| Clause 45 - Application of Part | N/A |
| Clause 46 - Interpretation | N/A |
| Clause 48 - Suspension of covenants, agreements and instruments | N/A |
| Clause 49 - Land use zones | N/A |
| Clause 50 - zone objectives and land use table | N/A |
| Clause 51 - Height of buildings | N/A |
| Clause 52 - Development near zone boundaries | N/A |
| Clause 53 - Architectural roof features | N/A |
| Clause 54 - Heritage Conservation | N/A |
| Clause 55 - Earthworks | N/A |
| Clause 56 - Savings provision relating to pending applications | N/A |
| Clause 47 - Certain planning instruments cease to apply to the land | N/A |

***Permissibility***

The subject site is zoned B3 Commercial Core under the provisions of Penrith City Centre Local Environmental Plan 2008. *Business premises* are permissible in the zone with Council consent.

*Business premises means a building or place at or on which:*
*(a) an occupation, profession or trade (other than an industry) is carried on for the provision of services directly to members of the public on a regular basis, or*
*(b) a service is provided directly to members of the public on a regular basis,*
*and may include, without limitation, premises such as banks, post offices, hairdressers, dry cleaners, travel agencies, internet access facilities, medical centres, betting agencies and the like, but does not includes sex services premises.*

As the proposed use of the premises is to provide professional tuition to members of the public, it is considered that it falls under the above definition of a business premises and is therefore a permissible land use in the zone with Council consent.

***LEP and Zone Objectives***

The proposal is consistent with the LEP and zone objectives.

***Development Standards***

*Clause 28 Ground floor development within Zones B3 and B4*
In accordance with Clause 28 the proposal provides an active street frontage consistent with the City Centre Development Control Plan.

## Section 79C(1)(a)(ii) The provisions of any draft environmental planning instrument

***Planning Proposal - Penrith Local Environmental Plan 2010 (Stage 2)***

The planning proposal was on public exhibition until July 2013. Under the Stage 2 Planning Proposal the subject site is to remain zoned B3 Commercial Core. The proposal is defined as a business premises (type of commercial premises) which is permissible in the zone with Council consent.

## Section 79C(1)(a)(iii) The provisions of any development control plan

### Development Control Plan 2006

| Provision | Compliance |
|---|---|
| Chapter 2.1 - Contmainated land | N/A |
| Chapter 2.2 - Crime prevention through environmental design | Complies |
| Chapter 2.3 - Engineering works | N/A |
| Chatper 2.4 - Erosion and sediment control | N/A |
| Chapter 2.5 - Heritage management | N/A |
| Chatper 2.6 - Landscape | N/A |
| Chapter 2.7 - Notification and advertising | Complies |
| Chapter 2.8 - Significant trees and gardens | N/A |
| Chapter 2.9 - Waste planning | N/A |
| Chapter 2.10 - Flood liable land | N/A |
| Chapter 2.11 - Car parking | Complies - see Appendix - Development Control Plan Compliance |
| Chapter 2.12 - On-site sewage management | N/A |
| Chapter 2.13 - Tree preservation | N/A |
| Chapter 3.1 - Advertising signs | Does not comply - see Appendix - Development Control Plan Compliance |
| Chapter 3.2 - Baby care rooms | N/A |
| Chapter 3.4 - Health care consulting rooms | N/A |
| Chapter 3.6 - Outdoor eating and trading areas - Penrith and St Marys CBD's | N/A |
| Chapter 3.3 - Child care centres | N/A |
| Chapter 3.5 - Siting and aesthetics of telecommunication facilities | N/A |

### Development Control Plan 2007 (City Centre)

| Provision | Compliance |
|---|---|
| Part 3 - Pedestrian amenity | Complies |

## Section 79C(1)(a)(iv) The provisions of the regulations

Council's Building Surveyor did not raise any objection to the proposal and recommended conditions be imposed in the consent.

## Section 79C(1)(b)The likely impacts of the development

Likely impacts of the proposed development as identified throughout the assessment process include:

***Context and Setting***

The proposed development is contained wholly within the tenancy and the external walls of the existing building; as a result the application will not change the bulk or scale of the building.

***Access and Parking***

Given that there is an existing car park on the site and the subject site is within close proximity to public transport, the proposed development is considered to have a minimal impact to the parking available in the surrounding locality.

## Section 79C(1)(c)The suitability of the site for the development

The site is suitable for the following reasons:

- The site is zoned to permit the proposed use
- The use is compatible with surrounding/adjoining land uses

## Section 79C(1)(d) Any Submissions

### Referrals

The application was referred to the following stakeholders and their comments have formed part of the assessment:

| Referral Body | Comments Received |
|---|---|
| Building Surveyor | No objections - subject to conditions |
| Environmental - Environmental management | No objections - subject to conditions |

## Section 79C(1)(e)The public interest

The proposed development will not generate any significant issues of public interest.

## Conclusion

In assessing this application against the relevant environmental planning policies, being Penrith City Centre Local Environmental Plan 2008 and Development Control Plan 2006/2007, the proposal satisfies the aims, objectives and provisions of these policies. The site is suitable for the proposed development, the proposal is in the public interest, and there is unlikley to be negative impacts arising from the proposed development. Therefore, the application is worthy of support, subject to recommended conditions.

## Recommendation

1. That DA13/1185 for fit-out & use as music tuition studio at 61-79 Henry Street, Penrith be approved subject to the attached conditions.

## CONDITIONS

### General

1 A019 - OCCUPATION CERTIFICATE (ALWAYS APPLY)
**The development shall not be used or occupied until an Occupation Certificate has been issued.**

2 A020 - Use of building
The maximum occupancy rate of the Music Tuition Studio shall not exceed 10 persons which may include staff and students. If this rate is exceeded an additional wc facility is to be constucted/provided in accordance with Table F2.3 of the BCA. Were a new facility is constructed it will need to comply with AS 1428 for persons with disabilities, however it may have unisex use. Written confirmation of the maximum occupancy rate and location of the new wc for disabled (if required) is to be submitted to Council prior to the issue of the Occupation Certifcate.

3 A029 - HOURS OF OPERATION AND DELIVERY TIMES
The approved operating hours are from 2pm to 9pm Mondays to Fridays and 10am to 4pm Saturdays.

4 A02F - Approved Fast Light Das
The development must be implemented substantially in accordance with the stamped-approved plans issued by Penrith City Council, the application form and any supporting information received with the application, except as may be amended in red on the attached plans and by the following conditions.

5 A032 - Goods in buildings
All materials and goods associated with the use shall be contained within the building at all times.

6 A039 - Graffiti
The finishes of all structures and buildings are to be maintained at all times and any graffiti or vandalism immediately removed/repaired.

7 A Special (BLANK)
The finishes of the approved signage are to be of high quality, durable materials in accordance with Penrith City Council's Advertising and Signage Development Control Plan.

8 A Special (BLANK)
The signage shall be installed in accordance with the manufacturers' or engineers' specifications.

9 A Special (BLANK)
The lightbox sign shall be positioned under the awning at 90 degrees from the entrance.The sign is to be wholly contained under the awning and positioned as to not impede on pedestrian movements.

### Environmental Matters

10 D009 - Covering of waste storage area
All waste materials stored on-site are to be contained within a designated area such as a waste bay or bin to ensure that no waste materials are allowed to enter the stormwater system or neighbouring properties. The designated waste storage areas shall provide at least two waste bays / bins so as to allow for the separation of wastes, and are to be fully enclosed when the site is unattended.

11 D010 – Appropriate disposal of excavated or other waste
All wastes generated as a result of the development are to be re-used, recycled or disposed of in accordance with the approved waste management plan.

Waste materials not specified in the approved waste management plan are to be disposed of at a lawful waste management facility. Where the disposal location or waste materials have not been identified in the waste management plan, details shall be provided to the Certifying Authority as part of the waste management documentation accompanying the Construction Certificate application.

All receipts and supporting documentation must be retained in order to verify lawful disposal of materials and are to be made available to Penrith City Council on request.

12 D Special BLANK
The operating noise level of plant, equipment and musical instruments shall not exceed 5dB(A) above the background noise level when measured at the boundaries of the premises. The provisions of the Protection of the Environment Operations Act 1997 apply to the development, in terms of regulating offensive noise.

13 D Special BLANK
The use of a PA system or amplified music is not permitted outside of the approved internal studios.

## BCA Issues

14 E006 - Disabled access and facilities

Access and sanitary facilities (where the occupancy rate exceeds 10 persons) for persons with disabilities are to be provided and maintained in accordance with the requirements of the Building Code of Australia and AS 1428 "Design for Access and Mobility".

15 E009 - Annual fire safety-essential fire safety (Class 2-9 buildings)

The owner of a building, to which an essential fire safety measure is applicable, shall provide Penrith City Council with an annual fire safety statement for the building. The annual fire safety statement for a building must:

(a) deal with each essential fire safety measure in the building premises, and

(b) be given:

- within 12 months after the last such statement was given, or
- if no such statement has previously been given, within 12 months after a final fire safety certificate was first issued for the building.

As soon as practicable after the annual fire safety statement is issued, the owner of the building to which the statement relates:

- must also provide a copy of the statement (together with a copy of the current fire safety schedule) to the Commissioner of New South Wales Fire Brigades, and
- prominently display a copy of the statement (together with a copy of the current fire safety schedule) in the building.

## Construction

16 H041 - Hours of work (other devt)

Construction works or subdivision works that are carried out in accordance with an approved consent that involve the use of heavy vehicles, heavy machinery and other equipment likely to cause offence to adjoining properties shall be restricted to the following hours in accordance with the NSW Environment Protection Authority Noise Control Guidelines:

- Mondays to Fridays, 7am to 6pm
- Saturdays, 7am to 1pm (if inaudible on neighbouring residential premises), otherwise 8am to 1pm
- No work is permitted on Sundays and Public Holidays.

Other construction works carried out inside a building/tenancy and do not involve the use of equipment that emits noise are not restricted to the construction hours stated above.

The provisions of the Protection of the Environment Operations Act, 1997 in regulating offensive noise also apply to all construction works.

## Certification

17 Q05F - Occupation Certificate for Class10

An Occupation Certificate is to be obtained from the Principal Certifying Authority on completion of all works.

The Certificate shall not be issued if any conditions of this consent, but not the conditions relating to the operation of the development, are outstanding.

A copy of the Occupation Certificate and all necessary documentation supporting the issue of the Certificate is to be submitted to Penrith City Council, if Council is not the Principal Certifying Authority.

# Appendix - Development Control Plan Compliance

## Development Control Plan 2006

### Part 2 - City wide controls

#### 2.11 Car Parking

Under the DCP business premises are required to provide 1 car space per 40m² of gross floor area. Given that the subject site has a gross floor area of approximately 136m², 3.4 car spaces are required to be provided. The proposal is for the fit-out of a tenancy within an existing building complex, with no change to the gross floor area proposed. The site has been previously used as a bike shop, which would have required the retail rate of 1 car space per 26m² of gross floor area. Given the nature of the proposed development which requires a reduced car parking rate from what has been previously approved and the sites proximity to public transport, the existing car park with 165 car parking spaces is considered adequate. The proposal is considered to have minimal impacts on the car parking available in the surrounding locality.

### Part 3 - CIty wide specific land uses

#### 3.1 Advertising Signs

The proposal includes two signs, a lightbox sign measuring 2400mm long x 300mm high hanging from the end of the awning and film signage applied to the glazing on the western elevation of the tenancy. In its proposed location, the lightbox sign would also face the western elevation. This is considered to be an undesirable location and not in keeping with the signage of the adjacent tenancies. As a result it is recommended that a condition of consent be included requiring that this sign be placed under the awning at 90 degrees from the entrance.

PENRITH CITY COUNCIL

*Serving Our Community*

# DETERMINATION OF DEVELOPMENT APPLICATION

P E N R I T H  C I T Y  C O U N C I L

## DESCRIPTION OF DEVELOPMENT

| | |
|---|---|
| DA No. | DA11/1247 |
| Description of development | Advertising Signs x 5 - Discount Drug Store |

## DETAILS OF THE APPLICANT

| | |
|---|---|
| Name & Address | Coast2coast Projects<br>20/30 Octal Street<br>YATALA QLD 4207 |

## DETAILS OF THE LAND TO BE DEVELOPED

| | |
|---|---|
| Legal Description: | Lot 1 DP 771927 |
| Property Address: | 61-79 Henry Street PENRITH NSW 2750 |

## DATE OF DETERMINATION

| | |
|---|---|
| Date of this Notice | 17 February 2012 |
| Date of this decision | 14 February 2012 |



Document Set ID: 3538178
Version: 1, Version Date: 22/08/2012

## DECISION OF CONSENT AUTHORITY

Penrith Council has determined to refuse to grant consent to the subject development application. In accordance with Section 81(1) (a) of the Environmental Planning and Assessment Act 1979, the reasons for refusal to grant consent are as follows:

1 The application is not satisfactory for the purpose of Section 79C(1)(a)(iii) of the Environmental Planning and Assessment Act as the proposal is inconsistent with the following provisions of Penrith ***Development Control Plan 2006-3.1 Advertising Signs***

- Part A-Advertisements which are not Appropriate Clause9;
- Part B Controls- Commercial and Industrial Zones- Objectives;
- Part B Controls- Commercial and Industrial Zones-Provision 2.

## REVIEW OF DETERMINATION & RIGHTS OF APPEAL

1. The applicant may request Council to review its determination pursuant to Section 82A of the Environmental Planning and Assessment Act 1979 within 6 months of receiving this Notice of Determination.

   You cannot make this request if the development is Designated Development, Integrated Development, or State Significant development.

2. The applicant can appeal against this decision in the Land and Environment Court within six (6) months of receiving this Notice of Determination.

   You cannot appeal if a Commission of Inquiry was held for the subject development application, or if the development is a State Significant Development.

3. Right of Appeal if the application was for Designated Development
   If a written objection was made in respect to the Application for Designated Development, the objector can appeal against Council's decision to the Land and Environment Court within 28 days after the date of this Notice. The objector cannot appeal if a Commission of Inquiry was held.

   If the applicant appeals against Council's decision, objector(s) will be given a notice of the appeal and the objector(s) can apply to the Land and Environment Court within 28 days after the date of this appeal notice to attend the appeal and make submissions at that appeal.

## POINT OF CONTACT

If you have any questions regarding this consent you should contact:

| | |
|---|---|
| Assessing officer | Stephen Fryer<br>Consultant Environmental Planner |
| Contact telephone number | (02) 4732 8125 |

## SIGNATURE

| | |
|---|---|
| Name | Peter Wood<br>Development Assessment Coordinator |

Signature
For the Development Services Manager



Document Set ID: 3538178
Version: 1, Version Date: 22/08/2012

PENRITH CITY COUNCIL
Serving Our Community

# DETERMINATION OF DEVELOPMENT APPLICATION

P E N R I T H C I T Y C O U N C I L

## DESCRIPTION OF DEVELOPMENT

| | |
|---|---|
| DA No. | DA10/0442 |
| Description of development | Shop Fit Out - Uncle Bills Retail & 3 Advertising Signs |
| Classification of development | The classification of the building(s) forming part of this consent is as follows:<br>▪ Class 6 |

## DETAILS OF THE APPLICANT

| | |
|---|---|
| Name & Address | Uncle Bills Retail P/L<br>Suite 1.01 6a Glen Street<br>MILSONS POINT NSW 2061 |

## NOTES

1. Your attention is drawn to the attached conditions of consent attachment 1.
2. You should also check if this type of development requires a construction certificate in addition to this development consent.
3. It is recommended that you read the Advisory Note enclosed with this consent.

## REASONS

The conditions in the attached schedule have been imposed for the following reasons:

- To ensure compliance with the terms of the relevant Planning Instrument.
- To ensure that no injury is caused to the existing and likely future amenity of the neighbourhood.
- Due to the circumstances of the case and the public interest.
- To ensure the structural integrity of the development.
- To ensure the protection of the health and safety of the occupants of the development.

## POINT OF CONTACT

If you have any questions regarding this consent you should contact:

| | |
|---|---|
| Assessing officer | Matthew Tempest<br>Environmental Planner |
| Contact telephone number | (02) 4732 7714 |

## SIGNATURE

| | |
|---|---|
| Name | Matthew Tempest |
| Signature | |

For the Development Services Manager

10 Access for persons with disabilities are to be provided and maintained in accordance with the requirements of the Building Code of Australia and AS 1428 "Design for Access and Mobility". Details of compliance are to be provided in the relevant plans and specifications accompanying the Construction Certificate application.

11 The owner of a building, to which an essential fire safety measure is applicable, shall provide Penrith City Council with an annual fire safety statement for the building. The annual fire safety statement for a building must:
(a) deal with each essential fire safety measure in the building premises, and
(b) be given:
- within 12 months after the last such statement was given, or
- if no such statement has previously been given, within 12 months after a final fire safety certificate was first issued for the building.

As soon as practicable after the annual fire safety statement is issued, the owner of the building to which the statement relates:
- must also provide a copy of the statement (together with a copy of the current fire safety schedule) to the Commissioner of New South Wales Fire Brigades, and
- prominently display a copy of the statement (together with a copy of the current fire safety schedule) in the building.

**CONSTRUCTION**

12 Stamped plans, specifications, a copy of the development consent, the Construction Certificate and any other Certificates to be relied upon shall be available on site at all times during construction.

The following details are to be displayed in a maximum of 2 signs to be erected on the site:
- the name of the Principal Certifying Authority, their address and telephone number,
- the name of the person in charge of the work site and telephone number at which that person may be contacted during work hours,
- that unauthorised entry to the work site is prohibited,
- the designated waste storage area must be covered when the site is unattended, and
- all sediment and erosion control measures shall be fully maintained until completion of the construction phase.

Signage but no more than 2 signs stating the above details is to be erected:
- at the commencement of, and for the full length of the, construction works onsite, and
- in a prominent position on the work site and in a manner that can be easily read by pedestrian traffic.

All construction signage is to be removed **when the Occupation Certificate has been issued for the development.**

13 Construction works or subdivision works that are carried out in accordance with an approved consent that involve the use of heavy vehicles, heavy machinery and other equipment likely to cause offence to adjoining properties shall be restricted to the following hours in accordance with the NSW Environment Protection Authority Noise Control Guidelines:
- Mondays to Fridays, 7am to 6pm
- Saturdays, 7am to 1pm (if inaudible on neighbouring residential premises), otherwise 8am to 1pm
- No work is permitted on Sundays and Public Holidays.

Other construction works carried out inside a building/tenancy and do not involve the

16 In accordance with Clause 94 of the Environmental Planning & Assessment Regulation 2000, the existing building shall be upgraded to comply with the following provisions of the Building Code of Australia prior to the issue of an occupation certificate:-

(i) The stairs at the discharge of the exit doors on the Lawson Street side of the building are to be a minimum of 1 metre wide and be constructed to comply with Part D2;
(ii) Exit travel distance must comply with Clause D1.4;
(iii) Lever handles or panic bars must be provided to the exit doors in accordance with Clause D2.21;
(iv) The fire hose reels must be located within 4 metres of an exit and be capable of reaching all points on the floor of the shop in accordance with Clause E1.4;
(v) Emergency lighting is required in accordance with Clause E4.2; and
(vi) Illuminated exit signs are required in accordance with Clauses E4.5 and E4.6.

Matthew Tempest

Signature

For the Development Services Manager

PENRITH CITY COUNCIL
Serving Our Community

# DETERMINATION OF DEVELOPMENT APPLICATION

P E N R I T H C I T Y C O U N C I L

## DESCRIPTION OF DEVELOPMENT

| | |
|---|---|
| DA No. | DA07/1415 |
| Description of development | Curves Weightloss and Fitness Centre |
| Classification of development | The classification of the building(s) forming part of this consent is as follows:<br>▪ Class 9b |

## DETAILS OF THE APPLICANT

| | |
|---|---|
| Name & Address | N F Billyard Pty Ltd<br>PO Box 573<br>PENRITH NSW 2751 |

## NOTES

1. Your attention is drawn to the attached conditions of consent attachment 1.
2. You should also check if this type of development requires a construction certificate in addition to this development consent.
3. It is recommended that you read the Advisory Note enclosed with this consent.

## REASONS

The conditions in the attached schedule have been imposed for the following reasons:

- To ensure compliance with the terms of the relevant Planning Instrument.
- To ensure that no injury is caused to the existing and likely future amenity of the neighbourhood.
- Due to the circumstances of the case and the public interest.
- To ensure that adequate road and drainage works are provided.
- To ensure that satisfactory arrangements are made to satisfy the increased demand for public recreation facilities.
- To ensure that access, parking and loading arrangements will be made to satisfy the demands created by the development.
- To ensure the structural integrity of the development.
- To ensure the protection of the health and safety of the occupants of the development.

## POINT OF CONTACT

If you have any questions regarding this consent you should contact:

| | |
|---|---|
| Assessing officer | Thomas Wheeler |
| Contact telephone number | (02) 4732 7515 |

## SIGNATURE

| | |
|---|---|
| Name | Warwick Stimson<br>Development Assessment Co-ordinator |
| Signature | |

For the Development Services Manager

- complies with the performance requirements, or
- is shown to be at least equivalent to the deemed to satisfy provision, or

(c) a combination of (a) and (b).

It is the owner's responsibility to place on display, in a prominent position within the building at all times, a copy of the latest fire safety schedule and fire safety certificate/ statement for the building.

## CONSTRUCTION

11 Stamped plans, specifications, a copy of the development consent, the Construction Certificate and any other Certificates to be relied upon shall be available on site at all times during construction.

The following details are to be displayed in a maximum of 2 signs to be erected on the site:

- the name of the Principal Certifying Authority, their address and telephone number,
- the name of the person in charge of the work site and telephone number at which that person may be contacted during work hours,
- that unauthorised entry to the work site is prohibited,
- the designated waste storage area must be covered when the site is unattended, and
- all sediment and erosion control measures shall be fully maintained until completion of the construction phase.

Signage, but no more than 2 signs, stating the above details is to be erected:

- at the commencement of, and for the full length of the, construction works onsite, and
- in a prominent position on the work site and in a manner that can be easily read by pedestrian traffic.

All construction signage is to be removed on completion of earthworks or construction works and when a Compliance Certificate has been issued by the Principal Certifying Authority certifying that the development has complied fully with the development consent and, where required, been constructed in accordance with the Construction Certificate.

12 Construction works or subdivision works that are carried out in accordance with an approved consent that involve the use of heavy vehicles, heavy machinery and other equipment likely to cause offence to adjoining properties shall be restricted to the following hours in accordance with the NSW Environment Protection Authority Noise Control Guidelines:

- Mondays to Fridays, 7am to 6pm
- Saturdays, 7am to 1pm (if inaudible on neighbouring residential premises), otherwise 8am to 1pm
- No work is permitted on Sundays and Public Holidays.

Other construction works carried out inside a building/tenancy and do not involve the use of equipment that emits noise are not restricted to the construction hours stated above.

The provisions of the Protection of the Environment Operations Act, 1997 in regulating offensive noise also apply to all construction works.

LOCAL

# Final Occupation Certificate

CERTIFICATE NUMBER: 8031509

Issued under the Environmental Planning and Assessment Act 1979

| | |
|---|---|
| **SUBJECT LAND:** | LOT: 1<br>DP: 771927<br>61 - 79 HENRY STREET<br>PENRITH<br>NSW 2750 |
| **DESCRIPTION OF WORK:** | INTERNAL ALTERATIONS TO EXISTING RETAIL AND OFFICE BUILDING |
| **LIMITATIONS AND/OR EXCLUSIONS:** | |
| **BUILDING CLASSIFICATION:** | 5, 6 |

In accordance with the procedure outlined in Clause 151 of the Environmental Planning and Assessment Regulation 2000, the application for this Final Occupation Certificate has been determined as **approved**.

In making this determination, I hereby certify that:

- A current Complying Development Certificate No: 8031509 dated 24/04/2017 has been issued with respect to the plans and specifications for the building and is in force.
- The building is suitable for occupation or use in accordance with its classification under the Building Code of Australia.
- Where required, a fire safety certificate has been issued for the building.
- Where required, a report from the Fire Commissioner has been considered.

**DOCUMENTS ACCOMPANYING THE APPLICATION:**

1. Documentation relied upon and that accompanied the application.
2. Fire Safety Schedule (where required)
3. Record of critical stage inspections

Certificate Issued By:

**Andrew Dean**
Principal Certifying Authority
BPB0087
Digitally Signed

10 Nov 2017
Date of Certificate

Penrith

# Complying Development Certificate

yours locally

Local Norwest
Suite 21, 5 Inglewood Place, Baulkham Hills 215:
PO Box 7321 Baulkham Hills 2153
DX 8461 Castle Hill
p 1300 368 534
f 02 9836 5722
web www.localgroup.com.au

**CERTIFICATE NUMBER:** 8031509

Issued under the Environmental Planning and Assessment Act 1979

COUNCIL COPY

| | |
|---|---|
| **SUBJECT LAND:** | LOT: 1<br>DP: 771927<br>61 - 79 HENRY STREET<br>PENRITH<br>NSW 2750 |
| **LAND USE ZONE:** | B3 |
| **DATE OF CERTIFICATE LAPSE:** | 24 April 2022 |
| **DESCRIPTION OF WORK:** | INTERNAL ALTERATIONS TO EXISTING RETAIL AND OFFICE BUILDING |
| **LIMITATIONS &/OR EXCLUSIONS:** | |
| **BUILDING CLASSIFICATION:** | 5, 6 |

RECEIVED
R/MGT
1 - MAY 2017
PENRITH CITY COUNCIL

The application for this Complying Development Certificate has been determined by **APPROVAL WITH CONDITIONS** in accordance with the procedures outlined in Clause 130 of the Environmental Planning and Assessment Regulation 2000. In making this determination, I certify that the development is Complying Development and (if carried out as specified in the certificate) will comply with all development standards applicable to the development and with such other requirements prescribed by this regulation concerning the issue of the certificate.

**DOCUMENTS ACCOMPANYING THE APPLICATION:**

**PLANS:**
PLANS PREPARED BY PARTRIDGE STRUCTURAL PTY LTD, JOB No. 2015S0824, DWG No. S1, S2, S3 REVISION A DATED 3/2/17.

**SPECIFICATIONS:**

**OTHER DOCUMENTS:**
PLANNING CERTIFICATE UNDER SECTION 149 ENVIRONMENTAL PLANNING AND ASSESSMENT ACT, 1979 No. 17/01602 DATED 3/4/17
APPLICATION FORM
OWNERS CONSENT
LONG SERVICE LEVY RECEIPT
PARTRIDGE STRUCTURAL PTY LTD STRUCTURAL DESIGN CERTIFICATE DATED 18/4/17
CLAUSE 130(2E)(A) REPORT - EP&A REGULATIONS (2000) DATED 13/4/16

| | | |
|---|---|---|
| **FIRE SAFETY SCHEDULE ATTACHED:** | **YES** ☑ | **N/A** ☐ |
| **CONDITIONS OF APPROVAL:** | **YES** ☑ | |

**Andrew Dean**
BPB0087

**24 April, 2017**
Date of Certificate

Builders Copy

Doc ID: 4C982D3

Ref: 064693-01OC2.docx

McKenzie Group Consulting (NSW) Pty Ltd
ACN [illegible]
Level 6, 16 Kent St, Sydney NSW 2000
Tel: 02 8296 6800 Fax: 02 8296 [illegible]
email@mckenzie-group.com.au

# OCCUPATION CERTIFICATE No. 13/121885-2

issued under the Environmental Planning and Assessment Act 1979 Sections 109C (1) (c) and 109H

**Owner**

| | |
|---|---|
| Name: | Australian Foundation for Disability |
| Address: | 12 Marieanne Place, Minchinbury NSW 2770 |

**Property Details**

| | |
|---|---|
| Address | 61-79 Henry Street, Penrith, NSW, 2750 |
| Lot/Portion No: | 1 |
| DP No: | 771927 |
| Municipality: | Penrith City Council |

**Building Details**

| | |
|---|---|
| Part of building: | Amart Retail Fitout |
| Use: | Retail |
| BCA classification(s): | 6 |

**Complying Development Certificate**

| | |
|---|---|
| Certificate no: | 13/121885-1 |
| Date of Determination: | 30 August 2013 |

**Determination**

| | |
|---|---|
| Type of Certificate: | Final |
| Approved/Refused: | Approved |
| Date of Determination: | 19 December 2013 |

**Attachments**

1. Fire Safety Schedule.
2. Application Form for Occupation Certificate.
3. Mandatory Critical Stage Inspection Summary Report (CSI)
4. Certificate of compliance – electrical work prepared by Albright Electrics, dated 17 October 2013.
5. Licensee's certificate of compliance – plumbing and drainage no. 423631.
6. Installation- inspection certificate – glass installation prepared by Black Widow Australia, dated 4 October 2013.
7. Test report no. 7-562762-AV prepared by AWTA Product Testing, dated 16 October 2008.
8. Proforma Invoice prepared by Forbo, dated 10 October 2013.
9. Report no. T11.30691.01br prepared by TUVRheinland, dated 18 January 2011.
10. Test report no. 5357.2s prepared by CSIRO, dated 1 June 2010.
11. Floor care Method prepared by Forbo.
12. Annual fire safety statement prepared by Penrith City Council, dated 20 February 2013.

**Certificate Final / Principal Certifying Authority**

I ***Eric Bailey*** certify that;

- I have been appointed as the principal certifying authority under s 109E.
- A current Complying Development Certificate is in force with respect to the building.
- If any building work has been carried out, a current Complying Development Certificate has been issued with respect to the plans and specifications for the building.
- The building is suitable for occupation or use in accordance with its classification under the Building Code of Australia.
- Where required, a final fire safety certificate has been issued for the building.
- Where required, a report from the Commissioner of Fire Brigades has been considered.

Signature

***Eric Bailey***
Accredited Certifier Grade 1
BPB Registration No.: ***0016***
McKenzie Group Consulting (NSW) Pty Ltd
ACN 093 211 995

| | |
|---|---|
| Date of endorsement | **19 December 2013** |
| Certificate Number | **13/121885-2** |

## ATTACHMENT 1
## Fire Safety Schedule
*(Pursuant to Clause 168 of the Environmental Planning and Assessment Regulation 2000)*

| | Essential Fire Safety Measures | Standard of Performance |
|---|---|---|
| 1. | Emergency Lighting Fire Hydrant Systems | AS/NZS 2293.1 |
| 2. | Fire Extinguishers Smoke Detection Alarm System [Dental Surgery) | AS/NZS 2444-2001 AS 1851.1<br>As J670.t |
| 3. | Fire Hose Reels Fire Alarm Panel (Dental Surgery) | AS/NZS 2441-1998 AS 1851.2 |
| 4. | Exit Signs | AS/NZS 2293.1 |

Ref: 064693-01CDC1.doc

McKenzie Group Consulting (NSW) Pty Ltd
ACN: 093 211 995
Level 6, 189 Kent St, Sydney NSW 2000
Tel: 02 8298 6800 Fax: 02 8298 6899
email@mckenzie-group.com.au

# COMPLYING DEVELOPMENT CERTIFICATE No. 13/121885-1

Issued under the Environmental Planning and Assessment Act 1979 Sections 85, 85A

**Owner**

| | |
|---|---|
| Name: | Australian Foundation for Disability |
| Address: | 12 Marieanne Place, Minchinbury NSW 2770 |

**Property details**

| | |
|---|---|
| Address | 61-79 Henry Street, Penrith, NSW, 2750 |
| Lot/Portion No: | 1 |
| DP No: | 771927 |
| Municipality: | Penrith City Council |

**Description and value of development**

| | |
|---|---|
| Description: | Amart Retail Fitout |
| Value of work: | $450,000.00 |

**Determination**

| | |
|---|---|
| Approved/Refused: | Approved |
| Date of Determination: | 30 August 2013 |

**Plans and specifications approved**

- Approved drawings prepared by Nordon Jago Architects numbered; WD00/B, WD01/B, WD02/C, WD03/C WD04/C, WD05/C, WD06/B, WD07/A, WD08/B & WD09/B

**Attachments**

1. Conditions of approval (includes conditions prescribed, or required to be attached by the Regulation or relevant EPI or DCP including any condition relation to the payment of a s 94 contribution or other monetary contributions.
2. Schedule of essential fire safety measures.
3. Application form for Complying Development Certificate.
4. Record of Site Inspection made by Accredited Certifier in accordance with Clause 129B (EP&A Regulation's 2000) prior to issue of Complying Development Certificate.
5. 149 certificate prepared by Penrith City Council, dated 19 July 2013
6. Annual fire safety statement prepared by Penrith City Council, dated 20 February 2013
7. Pylon sign details drawings prepared by Morsin Group Pty Ltd numbered; CC05
8. Long service levy receipt payment, dated 7 August 2013

**Environmental planning instrument decision made under**
List Complying & Exempt Development DCP; SEPP; LEP: SEPP (Exempt & Complying Development Codes) 2008

The land use zone within which the land is situated is Zone B3, Commercial Core

**Complying Development Certificate**
Certificate no.: 13/121885-1
Date of Determination: 30 August 2013

**Certificate / Certifying Authority**

I, Eric Bailey certify that the proposed development is complying development and that if carried out in accordance with the plans and specifications will comply with all development standards, any standards in a DCP and all requirements of the Regulation under the Environmental Planning and Assessment Act 1979; and will upon completion be a class 6 building.

**Signature**

Eric Bailey
Accredited Certifier Grade 1
BPB Registration No. 0016
McKenzie Group Consulting (NSW) Pty Ltd
ACN 093 211 995

Date of this Certificate: 30 August 2013
Certificate Number: **13/121885-1**

Date this Certificate will lapse: 30 August 2018

**Note:** Prior to commencement of work sections 86 (1) and (2) of the Environmental Planning and Assessment Act 1979 must be satisfied (see form 7).

## ATTACHMENT 1
## Existing Fire Safety Schedule

(Pursuant to Clause 168 of the Environmental Planning and Assessment Regulation 2000)

| | Essential Fire Safety Measures | Standard of Performance |
|---|---|---|
| 1. | Emergency Lighting Fire Hydrant Systems | AS/NZS 2293.1 |
| 2. | Fire Extinguishers Smoke Detection Alarm System [Dental Surgery) | AS/NZS 2444-2001 AS 1851.1<br>As J670.t |
| 3. | Fire Hose Reels Fire Alarm Panel (Dental Surgery) | AS/NZS 2441-1998 AS 1851.2 |
| 4. | Exit Signs | AS/NZS 2293.1 |

## Proposed Fire Safety Schedule

(Pursuant to Clause 168 of the Environmental Planning and Assessment Regulation 2000)

| | Essential Fire Safety Measures | Standard of Performance |
|---|---|---|
| 1. | Emergency Lighting Fire Hydrant Systems | AS/NZS 2293.1 |
| 2. | Fire Extinguishers Smoke Detection Alarm System (Dental Surgery) | AS/NZS 2444-2001 AS 1851.1<br>As J670.t |
| 3. | Fire Hose Reels Fire Alarm Panel (Dental Surgery) | AS/NZS 2441-1998 AS 1851.2 |
| 4. | Exit Signs | AS/NZS 2293.1 |

# Complying Development Certificate

This certificate is issued by a certifying authority (a council or a private certifier) and gives the applicant permission to carry out the development in accordance with any conditions set out in the certificate and the plans and specifications that have been approved.

benchmark
BUILDING CERTIFIERS
ABN 47 078 953 215

- *Building Approvals*
- *Town Planning*
- *Building/Fire Safety Consultants*
- *BASIX – Energy Rating*
- *Accredited Certifiers*
- *Principal Certifying Authority*

**Complying development certificate no.:** CDC13-05

Wentworth Healthcare Limited
Suite 5B Level 1, 67-69 Henry Street
PENRITH NSW 2750

The abovementioned being the applicant in respect of the development described as follows:

**Subject land:** Lot 1 – DP771927
Shop 5B Ground Floor, 67-69 Henry Street
PENRITH NSW 2750

**Development:** Office Fit-out

**Decision of the certifying authority:**

The certificate is issued-

☐ ~~*Without any conditions*~~
☑ *Subject to the conditions listed in* ***Attachment A***

The issue of this certificate has been endorsed on the plans, specifications or other documents that were lodged with the application-

***Plans and specifications:***

- Architectural plans prepared by '4d Architecture ' & Design' dated 4/04/2013
  Dwg No. S001 – Site Plan
  A001 – Floor Plan
  A002 – Reflected Ceiling Plan
  A100 – Accessible Amenities Details

***Date of this decision:*** 11 April 2013

**Information attached to this decision:**

☑ *The conditions of the certificate as listed in* ***Attachment A***
☑ *Fire Safety Schedule*

**Land Zoning:** Equivalent Zone: Zone B3 (Commercial Core) – *Penrith City Centre Local Environmental Plan 2008*

Standard Instrument Zone – B3 (Commercial Centre)

Suite 5, Level 2, 498 High St, Penrith 2750
P.O. Box 1274, Penrith NSW 2751
Tel: 02 4732 6322
Fax: 02 4732 6344
Email: bbc@pnc.com.au

**Certification:**

Robert Valades certifies that:

☑ *The proposed development is complying development.*

☑ *The proposed development will comply with all development standards that apply to the development, and with the requirements of the Environmental Planning and Assessment Regulation 2000 concerning the issue of this certificate, if it is carried out as set out in this certificate.*

☑ *The proposed development will be a Class 5 building under the Building Code of Australia when it is completed.*

| | |
|---|---|
| ***Date of this certificate:*** | 11 April 2013 |
| ***Date this certificate will expire:*** | 11 April 2018 |
| **Signature:** | |
| ***Accredited certifier:*** | Robert Valades |
| ***Accreditation body:*** | NSW Government – Building Professionals Board |
| ***Accreditation number:*** | BPB 0419 |
| ***Address:*** | Benchmark Building Certifiers<br>5/496-498 High Street, Penrith NSW 2750 |
| ***Contact number(s):*** | (02) 4732 6322 / (02) 4732 6344 (Fax) |

**Attachment A - Conditions of the certificate:**

This certificate is subject to the following conditions identified in the following SEPP:

- Part 5 – General Commercial and Industrial Code - *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008*

Relevant prescribed conditions as noted under the Environmental Planning and Assessment Regulation are also listed.

# Final Occupation Certificate

This certificate authorises a person to commence occupation or use of a new building.

benchmark
BUILDING CERTIFIERS
ABN 47 078 953 215

- Accredited Certifiers
- Principal Certifying Authority
- Town Planning
- BCA - Fire Safety Consultants
- BASIX - Section J Energy Ratings

**Occupation certificate number:** **OC13-05**

Wentworth Healthcare Limited
Suite 5B Level 1, 61-79 Henry Street
PENRITH NSW 2750

The abovementioned being the applicant in respect of the development described as follows:

## Details of the building:

| | |
|---|---|
| ***Address of subject land:*** | Lot 1 – DP771927<br>Shop 5B Ground Floor, 61-79 Henry Street<br>PENRITH NSW 2750 |
| ***Description of building or part:*** | Office Fit-out |
| ***Class of building or part:*** | Class 5 (office) |

## Approval details:

| | |
|---|---|
| ***Complying development certificate details:*** | CDC13-05 dated 11 April 2013 issued by<br>Robert Valades of Benchmark Building Certifiers |

## Decision of the certifying authority:

☑ *A final occupation certificate is approved for the building described above.*

## Information attached to this decision:

*A copy of this determination is required to be forwarded to the consent authority / council within two days of the date of determination.*

- Relevant documents that were lodged with the certificate application.
- A record of all critical stage inspections or other inspections carried out.
- A record of any missed inspection (if applicable).
- A copy of any compliance certificate and any other documentary evidence.
- The final fire safety certificate for the development.



P.O. Box 1274, Penrith NSW 2751
Tel : 02 4732 6322
Fax : 02 4732 6344
Email : bbc@pnc.com.au
www.benchmarkbuildingcertifiers.com.au

## Certification:

Robert Valades certifies that:

- *A current complying development certificate is in force for the building.*
- *A current complying development certificate has been issued with respect to the plans and specifications for the building.*
- *The building is suitable for occupation or use in accordance with its classification under the Building Code of Australia.*
- *Such other matters as are required by the Regulations to be complied with before such a certificate may be issued have been complied with.*
- *A fire safety certificate has been issued for the building.*

| | |
|---|---|
| ***Date of this certificate:*** | 15 August 2013 |
| ***Signature:*** |  |
| ***Principal certifying authority:*** | Robert Valades |
| ***Accreditation body:*** | Building Professionals Board |
| ***Accreditation number:*** | BPB0419 |
| ***Address:*** | Benchmark Building Certifiers<br>Suite 5/498 High Street, Penrith NSW 2750 |
| ***Contact number:*** | (02) 4732 6322 |

STEVE WATSON
& PARTNERS
BUILDING REGULATIONS CONSULTANTS AND CERTIFIERS
FIRE SAFETY ENGINEERS
LEVEL 5, 432 KENT STREET, SYDNEY NSW 2000
TEL +61 2 9283 6555 FAX +61 2 9283 8500
sydney@swpartners.com.au
www.swpartners.com.au
ABN 48 102 366 576

# FINAL OCCUPATION CERTIFICATE

Issued under the Environmental Planning and Assessment Act 1979 Section 109C(1)(c) and 109H

## Final Occupation Certificate No. 12/0584/01

Steve Watson and Partners certify that:

- They have been appointed as the Principal Certifying Authority under section 109E.
- A Development Consent/Complying Development Certificate is in force with respect to the building.
- A Construction Certificate has been issued with respect to the plans and specifications for the building.
- The building is suitable for occupation or use in accordance with its classification under the Building Code of Australia.
- Where required, a Final Fire Safety Certificate has been issued for the building.
- Where required, a report from the Commissioner of Fire Brigades has been considered.

| | |
|---|---|
| Applicant | Name: AZA Health Group P/L ATF AZA Health Trust<br>Address:501/1 The Piazza<br>Suburb: Wentworth Point State: NSW Postcode: 2127 |
| Location of the Property | Address:Suite 4A, 61-79 Henry Street<br>Suburb: Penrith State: NSW Postcode: 2750<br>Real Property Description: Lot 1 DP 771927 |
| Building Description | Internal fitout of suite 4A for use as a Dental Surgery |
| Building Code of Australia Classification | Class 6 |
| Date of Receipt | Date Received: 14th September 2012 |
| Determination | Approved<br>Date of Determination: 14th September 2012 |
| Complying Development Certificate | Complying Development Certificate Number: 12/0584/01<br>Date of Determination: 19th June 2012 |

Steve Watson (BPB0432) on behalf of
Steve Watson and Partners
Accreditation Body: BPB Accreditation no: ABC 1 Date of Endorsement: Friday, 14 September 2012

**Documentation relied upon to issue Occupation Certificate 12/0584/01 for Suite 4A, 61-79 Henry Street, Penrith**

| Item No | Description | Date |
|---|---|---|
| 1 | Mandatory inspection record (Final) | 12.09.12 |
| 2 | Application for Occupation Certificate | 14.09.12 |
| 3 | Final fire safety certificate | 06.09.12 |
| 4 | Certificates contained within SWP Certification Package | - |
| 5 | Fire Engineering Report 2012/758 – R1.0 (Alternative Solution) prepared by Fire Engineering Professionals | 03.09.12 |

STEVE WATSON
& PARTNERS
BUILDING REGULATIONS CONSULTANTS AND CERTIFIERS
FIRE SAFETY ENGINEERS
LEVEL 5, 432 KENT STREET, SYDNEY NSW 2000
TEL +61 2 9283 6555 | FAX +61 2 9283 6500
sydney@swpartners.com.au
www.swpartners.com.au
ABN 48 102 366 576

# COMPLYING DEVELOPMENT CERTIFICATE

Issued under the Environmental Planning and Assessment Act 1979 Section 85, 85A

## Complying Development Certificate No. 12/0584/01

Steve Watson and Partners certify that the proposed development is complying development and that if carried out in accordance with the approved plans and specifications will comply with all development standards, any standards in a DCP and all requirements of the Regulation under the *Environmental Planning and Assessment Act 1979*.

| | |
|---|---|
| **Applicant** | Name: **Farshid Menskani**<br>Address: **501/1 The Piazza**<br>Suburb: **Wentworth Point** State: **NSW** Postcode: **2127** |
| **Location of the Property** | Address: **Suite 4A, 61-79 Henry Street**<br>Suburb: **Penrith** State: **NSW** Postcode: **2750**<br>Real Property Description: **Lot 1 DP 771927** |
| **Proposed Complying Development** | Type: **Carrying out of work**<br>Description: **Internal fitout of suite 4A for use as a Dental Surgery**<br>Proposed Use: **Retail**<br>Building Code of Australia Classification: **Class 6** |
| **Date of Receipt** | Date Received: **18th June 2012** |
| **Determination** | **Approved**<br>Date of Determination: **19th June 2012** |
| **Date of Lapse** | **19th June 2017** |
| **Environmental Planning Instrument Decision Made Under** | **State Environmental Planning Policy**<br>**(Exempt and Complying Development Codes) 2008 – Part 5** |
| **Land Use Zone** | **Zone B3 Commercial Core** |

*Prior to commencement of work s 86 (1) and (2) of the Environmental Planning and Assessment Act 1979 must be satisfied*

12/0540/01
Complying Development Certificate
Accredited Body Number #ABC1

Guiseppe Graziano (BPB0144) on behalf of
**Steve Watson and Partners**
Accreditation Body: **BPB** Accreditation no: **ABC 1** Date of Endorsement: **Tuesday, 19 June 2012**

**Design documentation approved for Complying Development Certificate 12/0584/01 for Suite 4A, 61-79 Henry Street, Penrith**

| Drawing No. | Drawing Title | Revision | Date | Drawn by |
|---|---|---|---|---|
| A.01 | Floor Plan | 001 | 30.05.12 | Commodore Joinery |

**Documentation relied upon to issue Complying Development Certificate 12/0584/01 for Suite 4A, 61-79 Henry Street, Penrith**

| Item No. | Description | Date |
|---|---|---|
| 1. | Pre-CDC inspection record | 14.06.12 |
| 2. | Application for Complying Development Certificate | 18.06.12 |
| 3. | Existing and proposed fire safety schedule | - |
| 4. | Evidence of Long Service Levy Payment | 18.06.12 |
| 5. | Complying Development Certificate Conditions | - |

12/0584/01
Complying Development Certificate
Accredited Body Corporate #ABC1

# BUILDING CONSTRUCTION CERTIFICATES

**(A Division of Building Code Solutions Pty Ltd)**

*PO Box 345, Strathfield NSW 2135*
*Phone: (02) 91812101*
*Mobile: 0404 010 543*
*Fax: (02) 91811601*
*Email: erol_buildingcodesolutions@bigpond.com*


## FINAL OCCUPATION CERTIFICATE

Issued under the Environmental Planning & Assessment Act 1979 Sections 109C(1)(c) & 109H

**CDC No.: 10/15** **Issued By: Building Construction Certificates** **Dated: 11/5/2010**

This certificate allows the applicant to occupy or use the building or part of the building as set out in the certificate.

### 1. Details of the Applicant

Mr ☐ Ms ☐ Mrs ☐ Dr ☐ Other

First Name: ---
Family Name: ---
Company Name: IPN
Flat / Street No.: Level 32, 60
Street Name: Margaret Street
Suburb or Town: Sydney
State: NSW
Postcode: 2000
Daytime Telephone: (02) 8288 8954
Fax: (02) 8288 8999
Mobile: 0411 411 008
Email: martin.fisher@ipnet.com.au

### 2. Details of the Building

Flat / Street No.: 61-79
Street Name: Henry Street
Suburb or Town: Penrith
Postcode: 2750
Description of the building or part of the building (to be occupied or used): Disabled WC and Staff room WC within the existing medical centre
Lot No: 1
Strata Plan: ---
DP / MPS No.: DP 771927
Volume / Folio: ---
Complying Development Certificate No.: 10/15

### 3. Decision of the Certifying Authority

Type of Certificate issued:

☐ an Interim Occupation Certificate

☑ a Final Occupation Certificate

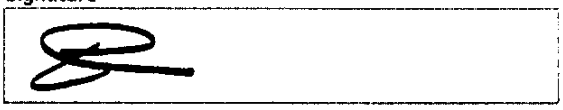
Date of this decision: 1/11/2010


*Acknowledgement of DUAP © Copyright*
*Building Construction Certificates Upgrade October 2001 © Copyright*

## 6. Signature

For this certificate to be valid, it must be signed by the certifying authority.

Signature



Name

Erol Urludag of Building Construction Certificates

Address

PO Box 345

| Suburb or Town | State | Postcode |
|---|---|---|
| Strathfield | NSW | 2135 |

| Telephone | Fax |
|---|---|
| (02) 91812101 | (02) 91811601 |

If the Certifier is an Accredited Certifier:

| Accreditation body of the Certifier | Registration No. of the Certifier |
|---|---|
| Building Professionals Board | BPB0418 |

*Acknowledgement of DUAP © Copyright*
*Building Construction Certificates Upgrade October 2001 © Copyright*

# BUILDING CONSTRUCTION CERTIFICATES

**(A Division of Building Code Solutions Pty Ltd)**

*PO Box 345, Strathfield NSW 2135*
*Phone: (02) 9719 2200*
*Mobile: 0404 010 543*
*Fax: (02) 9719 2277*
*Email: admin@buildingcode.com.au*


## COMPLYING DEVELOPMENT CERTIFICATE

Issued under the Environmental Planning & Assessment Act 1979 Sections 85 & 85A

**CDC No.: 10/15**

This certificate is issued by the Certifying Authority (a Council or Private Certifier) and gives the applicant permission to carry out the development in accordance with any conditions set out in the certificate and the plans and specifications that have been approved.

### 1. Details of the Applicant

Mr ☑ Ms ☐ Mrs ☐ Dr ☐ Other

First Name: Martin
Family Name: Fisher
Company Name: Independent Practitioner Network (IPN)
Flat / Street No.: Level 32, 60
Street Name: Margaret Street
Suburb or Town: Sydney
State: NSW
Postcode: 2000
Daytime Telephone: 82888954
Fax: 82888922
Mobile: 0411 411 008
Email: martin.fisher@ipnet.com.au

### 2. Identify the Land / Area

Level: Ground Floor
Flat / Street No.: 61-79
Street Name: Henry Street
Suburb or Town: Penrith
Postcode: 2750
Lot No.: 1
Deposited Plan No.: 771927
Section: ---
Volume / Folio: ---

You can find the Lot No., Section DP/MPS No. and volume/folio details on a map of the land or on the title documents for the land. If you need additional room, please attach a schedule and/or map with these details.


*Acknowledgement of DUAP © Copyright*
*Building Construction Certificates Upgrade October 2001 © Copyright*

## 3. Decision of the Certifying Authority

This Certificate is issued:

- ☐ without any conditions.
- ☑ subject to conditions attached.
- ☐ to erect a temporary building.

☑ The issue of this certificate has been endorsed on the plans, specifications or other documents that were lodged with the application.

Plan no's approved

Refer to the attached correspondence dated 11 May 2010, prepared by Building Construction Certificates for all approved documentation.

Specification references approved

Refer to the attached correspondence dated 11 May 2010, prepared by Building Construction Certificates for all approved documentation.

| Date of this decision | Complying Development Certificate No. |
|---|---|
| 11 May 2010 | 10/15 |

The decision was made under the following planning instrument

State Environmental Planning Policy (Exempt & Complying Development Codes) 2008

## 4. Information Attached to this Decision

- ☑ A Fire Safety Schedule
- ☑ The conditions of the Certificate as attached

## 5. Certification

Erol Urludag of Building Construction Certificates certifies that

- ☑ the proposed development is complying development
- ☑ if the work is completed following the plans and specifications which have been approved (with such modifications verified by the Certifying Authority as may be shown on the approved documentation), it will comply with the requirements of the Environmental Planning and Assessment Regulation 2000 as referred to in Section 81A(5) of the *Environmental Planning and Assessment Act 1979.*
- ☑ The proposed development will be a Class 5 office building under the Building Code of Australia when it is completed.

| Date of this Certificate | Date this Certificate will expire |
|---|---|
| 11 May 2010 | 11 May 2015 |

*Acknowledgement of DUAP © Copyright*
*Building Construction Certificates Upgrade October 2001 © Copyright*

## 6. Signature

For this Certificate to be valid, it must be signed by the certifying authority.

Signature



Name

Erol Urludag of Building Construction Certificates

Address

PO Box 504

| Suburb or Town | State | Postcode |
|---|---|---|
| Drummoyne | NSW | 1470 |

| Telephone | Fax |
|---|---|
| (02) 9719 2200 | (02) 9719 2277 |

If the Certifier is an Accredited Certifier:

| Accreditation Body of the Certifier: | Registration No. of the Certifier: |
|---|---|
| Building Professionals Board | BPB0418 |

## 7. Fire Safety Schedule (Attachment) ☑

**Existing Essential Fire Safety Measures**

Refer to the attached Fire Safety Schedule for existing measures.

**Proposed Essential Fire Safety Measures**

Refer to the attached Fire Safety Schedule for proposed new measures.

## 8. Conditions of the Certificate ☑

This certificate is subject to the following conditions identified in State Environmental Planning Policy (Exempt & Complying Development Codes) 2008. Refer to the attached conditions.

## 9. Description of Approved Works

The approved works subject of Complying Development Certificate No.: 10/15 consist of the following:

Construction of a disabled WC and staff room WC within the existing medical centre

*Acknowledgement of DUAP © Copyright*
*Building Construction Certificates Upgrade October 2001 © Copyright*

## Prescribed Conditions of Complying Development Certificate

This Complying Development Certificate has been issued subject to compliance with the following conditions which are required to be complied with under Division 2A of the *Environmental Planning & Assessment Regulation 2000*.

**a) Compliance with the Building Code of Australia**

The work must be carried out in accordance with the requirements of the Building Code of Australia.

**b) Home Building Act 1989**

In the case of residential building work for which the *Home Building Act 1989* requires there to be a contract of insurance in force in accordance with Part 6 of that Act, that such a contract of insurance must be entered into and be in force before any building work authorised to be carried out by the certificate commences.

**c) Notification of Home Building Act 1989 requirements**

Residential building work within the meaning of the *Home Building Act 1989* must not be carried out unless the principal certifying authority for the development to which the work relates (not being the council) has given the council written notice of the following information:

i. in the case of work for which a principal contractor is required to be appointed:
   - the name and licence number of the principal contractor, and
   - the name of the insurer by which the work is insured under Part 6 of that Act,

ii. in the case of work to be done by an owner-builder:
   - the name of the owner-builder, and
   - if the owner-builder is required to hold an owner-builder permit under that Act, the number of the owner-builder permit.

If arrangements for doing the residential building work are changed while the work is in progress so that the information notified in accordance with the above becomes out of date, further work must not be carried out unless the principal certifying authority for the development to which the work relates (not being the council) has given the council written notice of the updated information.

**d) Erection of Signs**

A sign must be erected in a prominent position on any site on which building work, subdivision work or demolition work is being carried out:

i. showing the name, address and telephone number of the principal certifying authority for the work, and

ii. showing the name of the principal contractor (if any) for any building work and a telephone number on which that person may be contacted outside working hours, and

iii. stating that unauthorised entry to the site is prohibited.

Any such sign is to be maintained while the work is being carried out, but must be removed when the work has been completed.

**e) Fulfilment of BASIX commitments**

This condition applies on and from 1 July 2004, to all land within the initial BASIX area, and on and from 1 July 2005, to all land within NSW.

This condition applies to all development that involves the erection (but not the alteration, enlargement, extension or relocation) of a BASIX affected building, or that involves a change of building use by which a building becomes a BASIX affected building.

For development to which this condition applies, the commitments listed in each relevant BASIX certificate for the development must be fulfilled.

**f) Asbestos**

(a) work involving bonded asbestos removal work (of an area of more than 10 square metres) or friable asbestos removal work must be undertaken by a person who carries on a business of such removal work in accordance with a licence under clause 318 of the Occupational Health and Safety Regulation 2001,

(b) the person having the benefit of the complying development certificate must provide the principal certifying authority with a copy of a signed contract with such a person before any development pursuant to the complying development certificate commences,

(c) any such contract must indicate whether any bonded asbestos material or friable asbestos material will be removed, and if so, must specify the landfill site (that may lawfully receive asbestos) to which the bonded asbestos material or friable asbestos material is to be delivered.

*Acknowledgement of DUAP © Copyright*
*Building Construction Certificates Upgrade October 2001 © Copyright*

CERTIS™
BUILDING
CERTIFICATION

**Certis NSW Pty Ltd**

Shop 326, 308 Wattle Street Ultimo NSW 2007
PO Box 48, Broadway NSW 2007

Ph: 02 8570 9100 Fax: 02 8570 9199
ACN: 090 667 548 ABN: 82 090 667 548

# COMPLYING DEVELOPMENT CERTIFICATE No.:1063

*Issued under Part 4 Sections 85 and 85A of the Environmental Planning and Assessment Act 1979*

## Applicant

| | |
|---|---|
| Name: | Roshae Farquhar, Discount Drug Store |
| Address: | 13-15 John Duncan Court, Varsity Lakes<br>QLD 4227 |
| Contact Details: | Phone: 07 5593 7620 Fax: 07 5593 6702<br>Email: roshae@coast2coastprojects.com.au |

## Proposal

| | |
|---|---|
| Description of proposal: | Retail Fitout (Discount Drug Store) |
| Address of Development: | Shop 5A, Henry Lawson Centre, 61-79 Henry St, Penrith<br>NSW 2750 |
| Property Title Description : | Lot & DP no.: Lot 1 & DP771927<br>Class: 6 Land Use Zone: 3b |
| Cost of Work (inc GST): | $ 200,000 |

## Decision of the Certifying Authority

| | |
|---|---|
| The decision was made under: | ☑ State Environment Planning Policy 2008 |
| This certificate is issued: | ☑ Subject to specification & documents endorsed listed in Attachment A<br>☑ Subject to endorsed plans listed in Attachment B<br>☑ Subject to the Conditions listed in Attachment C<br>☑ With Fire Safety Schedule listed in Attachment D<br>☑ With Notice to Applicant of Critical Stage Inspections in Attachment E |

## Date of Certificate

| | |
|---|---|
| Consent is to operate from: | **14 April 2010** |
| Consent will lapse on: | **14 April 2015** |

CERTIS™
BUILDING
CERTIFICATION

**Certis NSW Pty Ltd**

Shop 326, 308 Wattle Street Ultimo NSW 2007
PO Box 48, Broadway NSW 2007

Ph: 02 8570 9100 Fax: 02 8570 9199
ACN: 090 667 548 ABN: 82 090 667 548

## Certifying Authority

*That I, Tony Truong, as the certifying authority, certify that the proposed development is complying development and (if carried out as specified in this certificate) will comply with all development standards applicable to the development and with such others requirements prescribed by the Environmental Planning and Assessment Regulation 2000 concerning the issue of the certificate.*

| | |
|---|---|
| Signature: |  |
| Date: | **14 April 2010** |
| Accreditation No.: | **BPB0415** |
| Name: | **Tony Truong** |

**Waterson Building Consultancy Pty Ltd**
197 Burns Road Springwood NSW 2777

A.C.N. 054 938 779
A.B.N. 56 054 938 779
Tel: 4751 6626

# OCCUPATION CERTIFICATE

| | | |
|---|---|---|
| **Certificate number** | 14/013 | |
| **Issued To** | Mr C Vella<br>5 Lethbridge Street Penrith NSW 2750 | |
| **Subject Premises** | 61-79 Henry Street Penrith<br>Lot 1 DP 771927 | |
| **Development Consent** | DA12/0994 | Dated 13 March 2013 |
| **Construction Certificate** | 13/06.057 | Dated 4 July 2013 |
| **Type of Development** | Alterations to Existing Commercial Premises and New Signage | Class 5, 6 & 10b |
| **Owner** | Australian Foundation for Disability | |
| **Determination** | Final Certificate | Approved |
| **Date of Determination** | 13 February 2014 | |

RECEIVED
D/MGT
17 FEB 2014
PENRITH CITY COUNCIL

I, Laurie Waterson certify that

I have been appointed as the Principal Certifying Authority under s 109E
A development consent is in force with respect to the building
A construction certificate has been issued with respect to the plans and specifications for the building
The building is suitable for occupation in accordance with its classification under the Building Code of Australia

**Principal Certifying Authority**

| | |
|---|---|
| Laurie Waterson | 197 Burns Road Springwood NSW 2777 |
| Accreditation number | BPB0430 |
| Authority | Building Professionals Board |
| Contact Number | 4751 6626 |

Date 14 February 2014

Laurie C Waterson

**Waterson Building Consultancy Pty. Ltd.**
197 Burns Road Springwood NSW 2777 **T. 4751 6626**
A.C.N. 054 938 779
A.B.N. 56 054 938 779

# COMPLIANCE CERTIFICATE

| | |
|---|---|
| **Issued to** | Mr C Vella<br>5 Lethbridge Street Penrith NSW 2750 |
| **Subject premises** | 61-79 Henry Street Penrith<br>Lot 1 DP 771927 |
| **Type of building** | Alterations to Existing Commercial Premises and New Signage Class 5, 6 & 10b |
| **Development Consent** | DA12/0994 Dated 13 March 2013 |
| **Construction Certificate** | 13/06.057 Dated 4 July 2013 |
| **Owner** | Australian Foundation for Disability |
| **Type of Certificate** | Stage Date of inspection<br>Pier holes See attached Engineer's Certificate<br>Framework 14.11.13 |

I Laurie Waterson certify that

The above described building work has been completed and complies with the approved plans and specifications.

The proposed building designed constructed or adapted for use for the classification as outlined above.

The above described aspect of the development complies with the prescribed requirements referred to above.

**Principal Certifying Authority**

| | |
|---|---|
| Laurie Waterson | 197 Burns Road Springwood NSW 2777 |
| Accreditation Number | BPB0430 |
| Authority | Building Professionals Board |
| Contact Number | 4751 6626 |

Date 10 February 2014

Laurie C Waterson

**Waterson Building Consultancy Pty. Ltd.** A.C.N. 054 938 779
197 Burns Road Springwood NSW 2777 T. 4751 6626 A.B.N. 56 054 938 779

**Reference:**
13/06.057

**Construction Certificate**
Issued under the Environmental Planning and Assessment Act 1979 Sections 109C (1), 81A & 81A(4)

**Application**

**Council:** Penrith City

**Applicant**

| | |
|---|---|
| Name | Mr C Vella |
| Address | 5 Lethbridge Street<br>PENRITH NSW 2750 |
| Contact no | 4731 4188 |
| Signature | See attached |

**Owner**

| | |
|---|---|
| Name | Australian Foundation for Disability |
| Address | C/- 5 Lethbridge Street Penrith NSW 2750 |
| Contact no | |

**Subject land**

| | |
|---|---|
| Address | 61-79 Henry Street Penrith |
| Lot no, DP | Lot 1 DP 771927 |

**Description of Development**

| | |
|---|---|
| Type of work | Building |
| Description | Alterations to Existing Commercial Premises and New Signage |

**Development Consent**

| | |
|---|---|
| Number | DA12/0994 |
| Date of determination | 13 March 2013 |

**Building Code of Australia classification** 5, 6 & 10b

**Builder**

| | |
|---|---|
| Name | The Lindenvel Group Pty Ltd |
| Licence number | |

| | |
|---|---|
| **Value of work** | $500,000.00 |
| **Determination** | Approved |
| Date | 4 July 2013 |
| **Attachments** | Drawing Number CC 01-05 Issue No C Dated June 2013 Landscape Details Job No 3180 Sheet 1 Dated 4.09.12 Survey Drawing Drg No 12190 DET A Sheet 1 Dated10.08.12 |
| **Right of Appeal** | under S 109K where the Certifying Authority is a Council an applicant may appeal to the Land and Environment Court against the refusal to issue a Construction Certificate within 12 months from the date of the decision. |

**CERTIFICATE**

| | |
|---|---|
| **Certificate final** | I certify that, if the work if completed following the plans and specifications which have been approved, it will comply with the requirements of the Environmental Planning and Assessment Regulation 2000, as referred to in section 81A(5) of the Environmental Planning and Assessment Act 1979. |
| Signature |  |
| Date | 4 July 2013 |
| Certificate no | 13/06.057 |

**Certifying Authority**

| | |
|---|---|
| Name of Authority | Building Professionals Board |
| Name of Certifier | Laurie Waterson |
| Accreditation no | BPB0430 |
| Address | 197 Burns Road Springwood 2777 |
| Contact no | 4751 6626 |

**Development Consent**

| | |
|---|---|
| Number and date | DA12/0994 Dated 13 March 2013. |

PENRITH CITY COUNCIL

*Serving Our Community*

# DETERMINATION OF DEVELOPMENT APPLICATION

P E N R I T H  C I T Y  C O U N C I L

## DESCRIPTION OF DEVELOPMENT

| | |
|---|---|
| DA No. | DA12/0994 |
| Description of development | Alterations to Existing Commercial Premises & New Business Identification Signage |
| Classification of development | The classification of the building(s) forming part of this consent is as follows:<br>▪ Class 5 – Office<br>▪ Class 6 – Retail<br>▪ Class 10b - Signage |

## DETAILS OF THE APPLICANT

| | |
|---|---|
| Name & Address | Stimson Consultant Services P/L<br>PO Box 4308<br>WINMALEE NSW 2777 |

## NOTES

1. Your attention is drawn to the attached conditions of consent attachment 1.
2. You should also check if this type of development requires a construction certificate in addition to this development consent.
3. It is recommended that you read the Advisory Note enclosed with this consent.

## DETAILS OF THE LAND TO BE DEVELOPED

| | |
|---|---|
| Legal Description: | Lot 1 DP 771927 |
| Property Address: | 61-79 Henry Street PENRITH NSW 2750 |

## DECISION OF CONSENT AUTHORITY

In accordance with Section 81(1) (a) of the Environmental Planning and Assessment Act 1979, consent is granted subject to the conditions implementation in attachment 1.

| | |
|---|---|
| Date from which consent operates | 13 March 2013 |
| Date the consent expires | 13 March 2015 |
| Date of Decision | 01/03/2013 |

Please note that this consent will lapse on the expiry date unless the development has commenced in that time.

## REVIEW OF DETERMINATION & RIGHTS OF APPEAL

1. The applicant may request Council to review its determination pursuant to Section 82A of the Environmental Planning and Assessment Act 1979 within 6 months of receiving this Notice of Determination.

   You cannot make this request if the development is Designated Development, Integrated Development, or State Significant development.

2. The applicant can appeal against this decision in the Land and Environment Court within six (6) months of receiving this Notice of Determination.

   You cannot appeal if a Commission of Inquiry was held for the subject development application, or if the development is a State Significant Development.

3. Right of Appeal if the application was for Designated Development
   If a written objection was made in respect to the Application for Designated Development, the objector can appeal against Council's decision to the Land and Environment Court within 28 days after the date of this Notice. The objector cannot appeal if a Commission of Inquiry was held.

   If the applicant appeals against Council's decision, objector(s) will be given a notice of the appeal and the objector(s) can apply to the Land and Environment Court within 28 days after the date of this appeal notice to attend the appeal and make submissions at that appeal.

## REASONS

The conditions in the attached schedule have been imposed for the following reasons:

- To ensure compliance with the terms of the relevant Planning Instrument.
- To ensure that no injury is caused to the existing and likely future amenity of the neighbourhood.
- Due to the circumstances of the case and the public interest.
- To ensure the structural integrity of the development.
- To ensure the protection of the health and safety of the occupants of the development.

## POINT OF CONTACT

If you have any questions regarding this consent you should contact:

| | |
|---|---|
| Assessing officer | Belinda Borg<br>Senior Environmental Planner |
| Contact telephone number | (02) 4732 7505 |

## SIGNATURE

| | |
|---|---|
| Name | Belinda Borg |
| Signature | |

For the Development Services Manager

# *ATTACHMENT 1: CONDITIONS OF CONSENT*

## GENERAL

1 The development must be implemented substantially in accordance with the following stamped approved plans issued by Penrith City Council and other plans, reports or documents approved by Council, except as may be amended in red on the attached plans and by the following conditions:

| Drawing Title | Drawing No. | Issue | Prepared by | Dated |
|---|---|---|---|---|
| Site Plan | DA01 | A | Morson Group | September 2012 |
| Site Demolition Plan | DA02 | A | Morson Group | September 2012 |
| Elevations | DA03 | B | Morson Group | December 2012 |
| Signage to be Retained | DA04 | A | Morson Group | December 2012 |
| Landscape Concept Plan | 3180 (Sheet 1) | - | Monaco Designs | 24 August 2012 |

2 The work must be carried out in accordance with the requirements of the Building Code of Australia.

3 All civil engineering construction works shall be carried out in accordance with Penrith City Council's Engineering Works Development Control Plan and accompanying Guidelines for Engineering Works for Subdivisions and Developments Part 2 - Construction.

4 **The development shall not be used or occupied until an Occupation Certificate has been issued.**

5 A **Construction Certificate** shall be obtained prior to commencement of any building works.

6 **Prior to the issue of a Construction Certificate**, revised architectural plans are to submitted and approved reflecting the following amendments to the signage:

- The proposed signage within the southern elevation of Units 1, 2 & 3 (*Uncle Bill's, The Good Guys* and *Koorong*) is to be reduced in height to be no higher than 1m above the parapet of the building, which the signs are attached to.
- The pylon sign and signage within the western elevation of Unit 4 is to be amended to delete the reference to *Emilo Reino* and replaced with signage for an existing / future tenant of the site.
- The signage within the western elevation of Unit 4 shall include signage for Lamrocks Law Firm.

7 **Prior to the issue of an Occupation Certificate**, evidence detailing the removal of the following signs located on the site, is to be submitted to Penrith City Council:

- *Giant Maestro Gian* signs attached to the balustrade near Unit 5.
- *Lamrocks Law Firm* sign attached to the southern elevation of Unit 4.
- The two (2) pylon signs located within the Henry Street frontage of the site.
- All signage along the northern façade of Units 1, 2 & 3, with the exception of parking, directional and loading dock signage.
- The *Uncle Bill's* signage within the western façade of Unit 1.
- The *Uncle Bill's* signage within the parapet area (eastern elevation) of Unit 4.
- *The Good Guys* signage within the western façade Unit 1.

8 The signage shall not flash or vary in luminosity. Illumination for all advertising signs shall be turned off between 10:00pm and 7am each day. The signs are required to have functioning automatic shut-off timers.

## DEMOLITION

9 All demolition works are to be conducted in accordance with the provisions of AS 2601-1991 "The Demolition of Structures". **Prior to demolition**, all services shall be suitably disconnected and capped off or sealed to the satisfaction of the relevant service authority requirements.

All demolition and excavated material shall be disposed of at a Council approved site or waste facility. Details of the proposed disposal location(s) of all excavated material from the development site shall be provided to the Principal Certifying Authority **prior to commencement of demolition.**

10 You should read Council's Fact Sheet titled "Handling and Disposal of Fibrous Cement Products" **before any demolition works commence on the site.**

**Prior to commencement of demolition works on site**, a portaloo with appropriate washing facilities shall be located on the site and the Principal Certifying Authority is to be satisfied that:

- Measures are in place so as to comply with the WorkCover Authority's "Short Guide to Working with Asbestos Cement" and
- The person employed to undertake the works is a licensed asbestos removal contractor and is holder of a current WorkCover Asbestos Licence.

Any demolition works involving the removal of all asbestos shall only be carried out by a licensed asbestos removal contractor who has a current WorkCover Asbestos Licence.

All asbestos laden waste, including asbestos cement flat and corrugated sheeting must be disposed of at a tipping facility licensed by the Environmental Protection Authority to receive asbestos wastes.

11 Dust suppression techniques are to be employed during demolition to reduce any potential nuisances to surrounding properties.

12 Mud and soil from vehicular movements to and from the site must not be deposited on the road.

13 Demolition works will be restricted to the following hours in accordance with the NSW Environment Protection Authority Noise Control Guidelines:

- Mondays to Fridays, 7am to 6pm
- Saturdays, 7am to 1pm if inaudible on neighbouring residential premises, otherwise 8am to 1pm
- No demolition work is permitted on Sundays and Public Holidays.

In the event that the demolition relates to works inside the building and do not involve external walls or the roof, and do not involve the use of equipment that emits noise then the demolition works are not restricted to the hours stated above.

The provisions of the Protection of the Environment Operations Act, 1997 in regulating offensive noise also apply to all construction works.

## ENVIRONMENTAL MATTERS

14 Erosion and sediment control measures shall be installed **prior to the commencement of works on site** including approved clearing of site vegetation. The erosion and sediment control measures are to be maintained in accordance with the approved erosion and sediment control plan(s) for the development and the Department of Housing's "Managing Urban Stormwater: Soils and Construction" 2004.

(Note: To obtain a copy of the publication, you should contact Landcom on (02) 98418600).

The approved sediment and erosion control measures are to be installed **prior to and maintained throughout the construction phase of the development until the landscaping, driveway and on-site parking areas have been completed for the development.** These measures shall ensure that mud and soil from vehicular movements to and from the site does not occur during the construction of the development.

15 All waste materials stored on-site are to be contained within a designated area such as a waste bay or bin to ensure that no waste materials are allowed to enter the stormwater system or neighbouring properties. The designated waste storage areas shall provide at least two waste bays / bins so as to allow for the separation of wastes, and are to be fully enclosed when the site is unattended.

16 All excavated material and other wastes generated as a result of the development are to be re-used, recycled or disposed of in accordance with the approved waste management plan.

Waste materials not specified in the approved waste management plan are to be disposed of at a lawful waste management facility. Where the disposal location or waste materials have not been identified in the waste management plan, details shall be provided to the Certifying Authority as part of the waste management documentation accompanying the Construction Certificate application.

All receipts and supporting documentation must be retained in order to verify lawful disposal of materials and are to be made available to Penrith City Council on request.

## BCA ISSUES

17 The structural alterations to the buildings shall not unduly reduce or compromise:
- the existing level of fire protection afforded to persons accommodated in or resorting to the building, or
- the existing level of resistance to fire of the building, or
- the existing safeguards against the potential spread of fire to adjoining buildings.

18 Access for persons with disabilities are to be provided and maintained in accordance with the requirements of the Building Code of Australia and AS 1428 "Design for Access and Mobility". Details of compliance are to be provided in the relevant plans and specifications accompanying the Construction Certificate application.

19 All aspects of the building design shall comply with the applicable performance requirements of the Building Code of Australia so as to achieve and maintain acceptable standards of structural sufficiency, safety (including fire safety), health and amenity for the on-going benefit of the community. Compliance with the performance requirements can only be achieved by:
a) complying with the deemed to satisfy provisions, or
b) formulating an alternative solution which:

- complies with the performance requirements, or
- is shown to be at least equivalent to the deemed to satisfy provision, or

c) a combination of (a) and (b).

It is the owner's responsibility to place on display, in a prominent position within the building at all times, a copy of the latest fire safety schedule and fire safety certificate/ statement for the building.

## CONSTRUCTION

20 Stamped plans, specifications, a copy of the development consent, the Construction Certificate and any other Certificates to be relied upon shall be available on site at all times during construction.

The following details are to be displayed in a maximum of 2 signs to be erected on the site:

- the name of the Principal Certifying Authority, their address and telephone number,
- the name of the person in charge of the work site and telephone number at which that person may be contacted during work hours,
- that unauthorised entry to the work site is prohibited,
- the designated waste storage area must be covered when the site is unattended, and
- all sediment and erosion control measures shall be fully maintained until completion of the construction phase.

Signage but no more than 2 signs stating the above details is to be erected:

- at the commencement of, and for the full length of the, construction works onsite, and
- in a prominent position on the work site and in a manner that can be easily read by pedestrian traffic.

All construction signage is to be removed **when the Occupation Certificate has been issued for the development.**

21 **Prior to the commencement of construction works:**

a) Toilet facilities at or in the vicinity of the work site shall be provided at the rate of one toilet for every 20 persons or part of 20 persons employed at the site. Each toilet provided must be:
   - a standard flushing toilet connected to a public sewer, or
   - if that is not practicable, an accredited sewage management facility approved by the council, or
   - alternatively, any other sewage management facility approved by council.

b) If the work involved in the erection or demolition of a building is likely to cause pedestrian or vehicular traffic in a public place to be obstructed or rendered inconvenient, or involves the enclosure of a public place, a hoarding or fence must be erected between the work site and the public place:
   - if necessary, an awning is to be erected, sufficient to prevent any substance from, or in connection with, the work falling into the public place,
   - the work site must be kept lit between sunset and sunrise if it is likely to be hazardous to persons in the public place, and any such hoarding, fence or awning is to be removed when the work has been completed.

22 A soil erosion and sediment control plan, prepared in accordance with the Department of Housing's "Managing Urban Stormwater: Soils and Construction" 2004 shall be submitted for consideration and approval with the Construction Certificate application. {Note: To obtain a copy of the publication, you should contact Landcom on (02) 98418600.}

23 All damaged or defective materials are to be replaced with sound, approved materials.

24 Construction works that are carried out in accordance with an approved consent that involve the use of heavy vehicles, heavy machinery and other equipment likely to cause offence to adjoining properties shall be restricted to the following hours in accordance with the NSW Environment Protection Authority Noise Control Guidelines:

- Mondays to Fridays, 7am to 6pm
- Saturdays, 7am to 1pm if inaudible on neighbouring residential premises, otherwise 8am to 1pm
- No work is permitted on Sundays and Public Holidays.

Other construction works carried out inside a building/tenancy and do not involve the use of equipment that emits noise are not restricted to the construction hours stated above.

The provisions of the Protection of the Environment Operations Act, 1997 in regulating offensive noise also apply to all construction works.

**ENGINEERING**

25 All land required for vehicular access and parking is to be concreted or sealed with a bituminous pavement.

26 A total of 176 off-street parking spaces are to be provided, linemarked and maintained within the car park accessible from Henry Street. The parking space dimensions and manoeuvring areas are to comply with AS 2890.1 and AS 2890.2, the Building Code of Australia and the Commonwealth Disability Discrimination Act.

Of the 176 spaces, 7 parking spaces for persons with disabilities are to be provided in accordance with AS2890.6 and are to be located close to all pedestrian accessways to the buildings.

27 An Infrastructure Restoration Bond is to be lodged with Penrith City Council for development involving works around Council's Public Infrastructure Assets. The bond is to be lodged with Council **prior to the issue of a Construction Certificate**. The bond is based upon the estimated value of the works with a bond of $1000.00 payable for the subject development.

The bond is refundable once a final inspection has been carried out by Council's Works Department and the works have been completed to Council's satisfaction. The bond may be used to repair or reinstate any damage that occurs to Council's Public Infrastructure Assets as a result of the development works.

Contact Council's City Works Department on telephone 4732 7777 or visit Council's website to obtain the form and request for final inspection.

28 All roadworks and drainage works required to effect the consented development shall be undertaken at no cost to Penrith City Council.

29 **Prior to the issue of a Construction Certificate**, a Roads Act application, including payment of application and inspection fees shall be lodged with Penrith City Council, as the Roads Authority, for the following works:
a) Provision of a heavy-duty vehicular crossing/s.

All works within the road reserve shall be carried out in accordance with Penrith City Council's Design Guidelines and Construction Specification for Civil Works.

Penrith City Council (being the Roads Authority under the Roads Act) shall approve the works completed on or over the road reserve. Contact Council's **City Works Department** on (02) 4732 7777 to arrange an inspection of the works (and payment of inspection fees, if required).

30 Stormwater drainage from the site shall be discharged to the:
a) Existing site drainage system

The proposed development and stormwater drainage system shall be designed to ensure no adverse impact on adjoining properties by the diversion, damming or concentration of stormwater flows.

The proposed method of stormwater discharge shall be detailed in the Construction Certificate issued by the Certifying Authority.

31 **Prior to the issue of an Occupation Certificate**, the Principal Certifying Authority shall ensure that all works within the road reserve have been inspected and approved by Penrith City Council.

32 **Prior to the issue of an Occupation Certificate** directional signage and linemarking shall be installed indicating directional movements and the location of customer parking to the satisfaction of the Principal Certifying Authority.

**LANDSCAPING**

33 All landscape works are to be constructed in accordance with the stamped-approved landscape concept plan prepared by Monaco Designs Pty Ltd, Reference Number 3180 dated 24 August 2012 and Sections F5 "Planting Techniques", F8 "Quality Assurance Standards" and F9 "Site Management Plan" of Penrith Council's Landscape Development Control Plan.

Landscaping shall be maintained:
- in accordance with the approved plan, and
- in a healthy state, and in perpetuity by the existing or future owners and occupiers of the property.

If any of the vegetation comprising that landscaping dies or is removed, it is to be replaced with vegetation of the same species and, to the greatest extent practicable, the same maturity as the vegetation which died or was removed.

34 The approved landscaping for the site must be constructed by a landscape professional listed in Council's Approved Landscape Consultants Register as suitable to construct category 2 landscape works.

35 The following series of reports relating to landscaping are to be submitted to the nominated consent authority at the appropriate time periods as listed below. These reports shall be prepared by a landscape professional listed in Council's Approved Landscape Consultants Register as suitable to design category 2 landscape works.

i. Implementation Report
   - Upon completion of the landscape works associated with the development and prior to the issue of an Occupation Certificate for the development, an Implementation Report must be submitted to the Principal Certifying Authority attesting to the satisfactory completion of the landscaping works for the development. The report is to be prepared by a landscape professional listed in Council's Approved Landscape Consultants Register as suitable to design category 2 landscape works.
   - An Occupation Certificate should not be issued until such time as a satisfactory Implementation Report has been received. If Penrith City Council is not the Principal Certifying Authority, a copy of the satisfactory Implementation Report is to be submitted to Council together with the Occupation Certificate for the development.

ii. Maintenance Report
   - On the first anniversary of the date of the Occupation Certificate issued for the development, a Landscape Maintenance Report is to be submitted to Penrith City Council certifying that the landscape works are still in accordance with the development consent and the plant material is alive and thriving.
   - This report is to be prepared by a landscape professional listed in Council's Approved Landscape Consultants Register as suitable to design category 2 landscape works.

36 All plant material associated with the construction of approved landscaping is to be planted in accordance with the Tree Planting Specification prescribed in Penrith Council's Landscape Development Control Plan.

37 All landscape works are to meet industry best practice and the following relevant Australian Standards:
- AS 4419 Soils for Landscaping and Garden Use,
- AS 4454 Composts, Soil Conditioners and Mulches, and
- AS 4373 Pruning of Amenity Trees.

38 All trees that are required to be retained as part of the development are to be protected in accordance with the minimum tree protection standards prescribed in Section F4 of Council's Landscape Development Control Plan.

39 No trees are to be removed, ringbarked, cut, topped or lopped or wilfully destroyed (other than those within the proposed building footprint or as shown on the approved plans) without the prior consent of Penrith City Council and in accordance with Council's Tree Preservation Order and Policy.

40 Existing landscaping is to be retained and maintained at all times.

41 **Prior to the commencement of landscaping works,** the landscape plan is to be amended to include the planting of the following:
- Fifteen (15) trees that attain a minimum height of 8m within the Lawson Street & North Street frontages of the site.
- Twenty (20) shrubs / trees that attain a minimum height of 3m within the Lawson Street & North Street frontages of the site.

The trees and shrubs are to be selected from Council's *Native Plants of the Penrith Council Area* document.

## PAYMENT OF FEES

42 All roadworks, dedications and drainage works are to be carried out at the applicant's cost.

## CERTIFICATION

43 **Prior to the commencement of any earthworks, construction or demolition works on site,** the proponent is to:

a) employ a Principal Certifying Authority to oversee that the said works carried out on the site are in accordance with the development consent and related Construction Certificate issued for the approved development, and with the relevant provisions of the Environmental Planning and Assessment Act and accompanying Regulation, and

b) submit a Notice of Commencement to Penrith City Council.

The Principal Certifying Authority shall submit to Council an "Appointment of Principal Certifying Authority" in accordance with Section 81A of the Environmental Planning and Assessment Act 1979.

44 An Occupation Certificate is to be obtained from the Principal Certifying Authority on completion of all works. The Occupation Certificate shall not be issued if any conditions of this consent, but not the conditions relating to the operation of the development, are outstanding, and the development does not comply with the provisions of the Environmental Planning and Assessment Act and Regulation.

**Advisory Note:**

It is noted that "Curves" is no longer a tenant of the Henry Lawson Centre. The signage associated with the new tenant is to replace the areas identified with "Curves" within the approved signage.

Belinda Borg

Signature

For the Development Services Manager

# PENRITH CITY COUNCIL

Council Chambers, Station Street, Penrith, N.S.W. 2750 Telephone: (047) 32 2422 (C.D.E. 8017, Penrith)

YOUR REF:

OUR REF: 010221
CONTACT: MR S PILLON

BUILDING PERMIT

PERMIT NO: 10221
REF:

ISSUED TO: STOKES HAYES & KANAS P/L OF
157-159 HARRIS STREET
PYRMONT 2009

IN RESPECT OF

LOT NO: D P: HOUSE NO: 0004 STREET: LAWSON PEN
LOCALITY: PENRITH

(----OWNER'S NAME AND ADDRESS-----)
HOOKER PROJECTS
P O BOX 4056
SYDNEY 2001

(---BUILDER'S NAME AND ADDRESS----)
TRIVAN BUILDING SERVICES P/L
P O BOX 221
SEVEN HILLS 2147

APPROVED SUBJECT TO COMPLIANCE WITH THE LOCAL GOVERNMENT ACT, RELEVANT ORDINANCES ISSUED THEREUNDER AND CONDITIONS NUMBERED: 14, 16, 18, 20, 22, 32, 64, 74, 78, 108, 116, 120, 132, 136, 140, 148, 152, 168, 172, 173, 176, 180, 184, 188, 194, 202, 206, 210, 242, 246, 262, 266, 274, 288, 294, 302, 306, 310, 314, 318, 322, 326, 330, 501, 502, 503, 504, 505, 506, 507, 851, 852, 853, 854, 855, 856, 857, 858, HEREUNDER FOR THE ERECTION OF A SHOPS/LOCK-UP SINGLE STOREY/ FOR THE VALUE OF $4000000

THIS APPROVAL LAPSES ON THE EXPIRATION OF 12 MONTHS AFTER THE DATE HEREOF

ATTENTION IS DRAWN TO THE PROVISIONS OF SECTION/S 317L (AND 288C IN REGARD TO FENCING OF SWIMMING POOLS) OF THE LOCAL GOVERNMENT ACT, 1919, AS AMENDED GIVING A RIGHT OF APPEAL AGAINST THE DECISION OF COUNCIL. APPEAL FORMS ARE AVAILABLE AT COUNCIL'S OFFICE

DATE 7/4/87 SIGNED: P J ANSOUL per

(HEALTH AND BUILDING SERVICES MANAGER)

DATE 7/4/87 SIGNED Simon B. Page.

(PERSON COLLECTING PLANS)

CONDITIONS:

14 THAT 48 HOURS' NOTICE IN WRITING BE GIVEN TO COUNCIL FOR INSPECTION:-
(A) OF TRENCHES BEFORE FOOTINGS ARE LAID;
(B) OF FOOTINGS BEFORE TRENCHES ARE FILLED;
(C) WHEN THE BUILDING HAS BEEN ERECTED TO FLOOR LEVEL AND DAMPCOURSES ARE LAID;
(D) OF FLASHING AND DAMP-PROOFING OF WET AREAS (VIZ BATHROOMS LAUNDRIES, ENSUITES AND W.C.) PRIOR TO CLADDING

CONTINUED...

**PENRITH CITY COUNCIL**

Council Chambers, Station Street, Penrith, N.S.W. 2750 Telephone: (047) 32 2422 (C.D.E. 8017, Penrith)

APPLICATION NO: 010221 PERMIT NO: 010221 FOLIO NO: 2

(E) WHEN STEEL FOR REINFORCED STRUCTURAL CONCRETE WORK IS IN POSITION PRIOR TO POURING OF CONCRETE;
(F) WHEN THE BUILDING HAS BEEN ERECTED TO ROOF FRAMING;
(G) OF DRAINS BEFORE THEY ARE COVERED IN; AND
(H) WHEN THE BUILDING IS COMPLETED AND READY FOR OCCUPATION

16. BUILDING SHALL NOT BE USED OR OCCUPIED UNTIL APPROVAL IS GRANTED BY COUNCIL

18. STAMPED PLANS,SPECIFICATION AND PERMIT SHALL BE KEPT ON SITE AT ALL TIMES

20. APPROVED IN COMPLIANCE WITH THE CONDITIONS OF THE METROPOLITAN WATER, SEWERAGE AND DRAINAGE BOARD AS STAMPED ON PLANS

22. A SPECIAL INSPECTION BY PENRITH CITY COUNCIL MUST BE OBTAINED ON ALL SANITARY PLUMBING AND DRAINAGE IN RESPECT OF WORK OUTSIDE THE SEWERED AREAS OF THE METROPOLITIAN WATER,SEWERAGE AND DRAINAGE BOARD

32. THIS LAND IS SUBJECT TO A TREE PRESERVATION ORDER WHICH PROHIBITS THE RINGBARKING, CUTTING DOWN, TOPPING, LOPPING, REMOVING OR WILFUL DESTRUCTION OF ANY TREE, EXCEPT WITH THE CONSENT OF COUNCIL

64. FLOOR SURFACE OF INTERNAL W C /LAUNDRY/BATHROOM/ENSUITE AND THE LIKE SHALL BE GRADED AND DRAINED IN ACCORDANCE WITH THE REQUIREMENTS OF CLAUSE 47 3(1) OF ORDINANCE 70

74. ALL EXCAVATED AND FILLED BANKS SHALL BE RETAINED TO COUNCIL'S SATISFACTION.

78. A PROTECTIVE BALUSTRADE OR GUARD SHALL BE PROVIDED ALONG THE SIDE OF ANY STAIRWAY, RAMP, CORRIDOR, HALLWAY, LANDING, BALCONY VERANDAH, WHICH IS NOT BOUNDED BY A WALL AND WHICH IS IN EXCESS OF 1M OR 5 STAIRWAY RISERS ABOVE FINISHED LEVEL OF ADJOINING FLOOR OR GROUND

108. THE BUILDING SHALL BE SET OUT BY A REGISTERED SURVEYOR. A SURVEY CERTIFICATE SHALL BE SUBMITTED WHEN THE BUILDING IS CONSTRUCTED TO GROUND FLOOR SLAB LEVEL AND SHALL NOT PROGRESS BEYOND THAT POINT UNTIL APPROVAL HAS BEEN GRANTED BY THE HEALTH AND BUILDING SURVEYOR.

116. ALL EXISTING AND PROPOSED STORMWATER AND SEWER LINES SHALL BE ACCURATELY LOCATED PRIOR TO COMMENCEMENT OF BUILDING WORK

120. SEPARATE DETAILS SHALL BE SUBMITTED FOR APPROVAL FOR ALL SANITARY PLUMBING AND DRAINAGE, PRIOR TO THE COMMENCEMENT OF THE RELEVANT WORK

132. WHERE STRUCTURAL REINFORCED CONCRETE MEMBERS ARE REQUIRED TO HAVE A FIRE RESISTANCE RATING THE APPROVED PRACTISING STRUCTURAL ENGINEER SHALL CERTIFY THAT THE REQUIREMENTS OF THE RELEVANT SAA PRESTRESSED CONCRETE CODE AND/OR SAA CONCRETE STRUCTURES CODE HAVE BEEN SATISFIED

CONTINUED . . .

**PENRITH CITY COUNCIL**

Council Chambers, Station Street, Penrith, N.S.W. 2750 Telephone: (047) 32 2422 (C.D.E. 8017, Penrith)

APPLICATION NO: 010221 PERMIT NO: 010221 FOLIO NO: 3

136. DETAILS PREPARED BY AN APPROVED PRACTISING STRUCTURAL ENGINEER SHALL BE SUBMITTED FOR ALL STRUCTURAL CONCRETE AND STEEL WORK FOR COUNCIL'S CONSIDERATION AND APPROVAL PRIOR TO COMMENCEMENT OF THE WORK.

140. A TYPE A HOARDING COMPLYING WITH THE REQUIREMENTS OF THE DEPARTMENT OF INDUSTRIAL RELATIONS AND PENRITH CITY COUNCIL SHALL BE ERECTED PRIOR TO THE COMMENCEMENT OF BUILDING AND/OR DEMOLITION WORK. A SEPARATE BUILDING APPLICATION SHALL BE SUBMITTED FOR THE HOARDING AND APPROVAL OBTAINED PRIOR TO THE ERECTION OF THE HOARDING.

148. THE CONSTRUCTION AREA SHALL BE FENCED WITH A 2.1 METRE HIGH MANPROOF FENCE TO PREVENT INADVERTENT ACCESS BY THE PUBLIC. DETAILS OF THE TYPE OF FENCING SHALL BE SUBMITTED FOR CONSIDERATION AND APPROVAL OF THE HEALTH AND BUILDING SERVICES MANAGER PRIOR TO THE COMMENCEMENT OF BUILDING AND/OR SITE WORKS.

152. APPROVAL SHALL BE OBTAINED FROM COUNCIL'S CITY ENGINEERS DEPARTMENT PRIOR TO ANY WORK ASSOCIATED WITH COUNCIL'S PROPERTY.

168. HYDRANTS SHALL BE DESIGNED AND INSTALLED WITHIN THE BUILDING IN ACCORDANCE WITH THE RELEVANT CLAUSES OF PART 27 OF ORDINANCE 70. THE REQUIRED HYDRANTS SHALL NOT BE INSTALLED IN THE BUILDING UNTIL A REPORT ISSUED BY THE BOARD OF FIRE COMMISSIONERS IN ACCORDANCE WITH PART 27 OF ORDINANCE 70 HAS BEEN SUBMITTED TO COUNCIL.

172. HOSE REELS SHALL BE DESIGNED AND INSTALLED WITHIN THE BUILDING IN ACCORDANCE WITH THE RELEVANT CLAUSES OF PART 27 OF ORDINANCE 70. THE REQUIRED HOSE REELS SHALL NOT BE INSTALLED IN THE BUILDING UNTIL A REPORT ISSUED BY THE BOARD OF FIRE COMMISSIONERS IN ACCORDANCE WITH PART 27 OF ORDINANCE 70 HAS BEEN SUBMITTED TO COUNCIL.

173. NO PART OF THE BUILDING SHALL BE MORE THAN 90M FROM A HYDRANT SITUATED:
(A) IN THE ROAD TO WHICH THE SITE HAS FRONTAGE, OR
(B) IN THE BUILDING, OR
(C) WITHIN THE SITE, BUT EXTERNAL TO THE BUILDING
DETAILS INCLUDING DESIGN CRITERIA OF THE PROPOSED METHOD OF COMPLYING WITH THIS CONDITION SHALL BE SUBMITTED AND APPROVED PRIOR TO COMMENCEMENT OF THE INSTALLATION OF ANY PLUMBING SERVICES.

176. DETAILS OF CONNECTION TO THE WATER SUPPLY AUTHORITY'S MAIN, PIPE WORK INCLUDING JUNCTIONS, BENDS, VALVES, PUMPS AND THE LIKE, AND TYPE OF HOSE REEL AND/OR HYDRANT SHALL BE SUBMITTED AND APPROVED BY COUNCIL PRIOR TO COMMENCEMENT OF INSTALLATIONS.

180. SATISFACTORY ARRANGEMENTS SHALL BE MADE WITH THE COUNCILS HEALTH AND BUILDING SURVEYOR FOR AN INSPECTION OF ALL PIPEWORK INCLUDING CONNECTIONS, BENDS, VALVES AND ANCILLIARY EQUIPMENT PRIOR TO BACKFILLING, ENCLOSING OR ENCASEMENT OF PIPES.

184. ILLUMINATED EXIT SIGNS AND DIRECTIONAL SIGNS COMPLYING WITH THE RELEVANT

CONTINUED...

PENRITH CITY COUNCIL

Council Chambers, Station Street, Penrith, N.S.W. 2750 Telephone: (047) 32 2422 (C.D.E. 8017, Penrith)

APPLICATION NO: 010221 PERMIT NO: 010221 FOLIO NO 4

PROVISIONS OF PART 24 AND PART 55 OF ORDINANCE 70 SHALL BE INSTALLED THROUGHOUT THE BUILDING IN LOCATIONS APPROVED BY THE HEALTH AND BUILDING SERVICES MANAGER. CONSULTATION SHALL TAKE PLACE WITH THE HEALTH AND BUILDING SURVEYOR AND APPROVAL OBTAINED PRIOR TO THE INSTALLATION OF ANY FITTINGS

186 EMERGENCY LIGHTING SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF CLAUSE 55.12 OF ORDINANCE 70
CONSULTATION SHALL TAKE PLACE WITH THE H/B SURVEYOR AND APPROVAL SHALL BE OBTAINED PRIOR TO THE INSTALLATION OF ANY FITTINGS

194 THE SMOKE DEVELOPED, SPREAD OF FLAME AND FLAMMABILITY INDEXES OF THE SARKING AND BUILDING MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE RELEVANT CLAUSES OF PART 16 OF ORDINANCE 70. DETAILS OF THE EARLY FIRE HAZARD PROPERTIES OF THE SARKING AND BUILDING MATERIALS SHALL BE SUBMITTED TO THE H/B SERVICES MANAGER FOR CONSIDERATION & APPROVAL PRIOR TO INSTALLATION OF THE MATERIALS

202 ALL REQUIRED EXIT DOORS OR DOORS FORMING PART OF A REQUIRED EXIT SHALL BE READILY OPENABLE WITHOUT A KEY AND BY A SINGLE HANDED ACTION FROM THE SIDE THAT WOULD FACE ANY PERSON SEEKING EGRESS FROM THE BUILDING.

206 ANY REQUIRED EXIT DOOR THAT SWINGS AGAINST THE DIRECTION OF EGRESS SHALL BE FITTED WITH AN APPROVED MEANS OF FIXING IT IN THE FULLY OPEN POSITION

210 THE INSTALLATION OF SERVICES AND EQUIPMENT IN EXITS AND PATHS OF TRAVEL IS SUBJECT TO THE REQUIREMENTS OF THE RELEVANT CLAUSES OF PART 24 OF ORDINANCE 70. THE APPLICANT IS TO CONSULT WITH COUNCIL'S HEALTH AND BUILDING SURVEYOR PRIOR TO THE INSTALLATION OF ANY GAS METERS, GAS AND OTHER FUEL PIPES, TELEPHONES SP BOARDS, ELECTRICITY METERS OR DUCTS ELECTRICAL MOTORS OR OTHER MOTORS SERVING EQUIPMENT IN THE BUILDING

242 ALL SOUND PRODUCING PLANT, MACHINERY, OR FITTINGS SHALL BE SOUND INSULATED AND/OR ISOLATED SO AS TO CONTROL EMISSION OF NOISE FROM THE PREMISES, WITHIN THE LIMITS PRESCRIBED UNDER THE NOISE CONTROL ACT, 1975 AND REGULATIONS

246 MECHANICAL VENTILATION OR AIR CONDITIONING SYSTEMS SHALL BE DESIGNED IN ACCORDANCE WITH THE RELEVANT AUSTRALIAN STANDARD FOR VENTILATION REQUIREMENTS. FULL DETAILS AND DESIGN CRITERIA SHALL BE SUBMITTED TO THE H/B SERVICES MANAGER FOR APPROVAL PRIOR TO INSTALLATION

262 THE ERECTION OF ANY ADVERTISING STRUCTURE OR DISPLAY OF ANY SIGN IS NOT PERMITTED WITHOUT THE PRIOR APPROVAL OF COUNCIL

266 COUNCIL REQUIRES THAT A UNIFORM APPROACH BE ADOPTED FOR ALL ADVERTISING STRUCTURES AND ADVERTISEMENTS ASSOCIATED WITH MULTI OCCUPANCY BUILDINGS. A SUBMISSION FOR THE OVERALL ADVERTISING SHALL BE SUBMITTED FOR CONSIDERATION AND APPROVAL BY THE HEALTH AND BUILDING

CONTINUED . . .

PENRITH CITY COUNCIL
Council Chambers, Station Street, Penrith, N.S.W. 2750 Telephone: (047) 32 2422 (C.D.E. 8017, Penrith)

APPLICATION NO: 010221 PERMIT NO: 010221 FOLIO NO: 5

SERVICES MANAGER PRIOR TO THE COMPLETION AND OCCUPATION OF THE BUILDING

274 THE APPLICANT SHOULD CONSULT WITH THE DEPARTMENT OF INDUSTRIAL RELATIONS CONCERNING ANY REQUIREMENTS THAT AUTHORITY MAY WISH TO IMPOSE

288 DOCUMENTARY EVIDENCE OF THE REGISTRATION OF THE CONSOLIDATION OF THE VARIOUS LOTS INTO A SINGLE ALLOTMENT BY THE REGISTRAR GENERALS DEPARTMENT SHALL BE SUBMITTED FOR COUNCIL'S INFORMATION & CONCURRENCE PRIOR TO OCCUPATION OF THE BUILDING OR ISSUE OF A CERTIFICATE OF COMPLIANCE, WHICHEVER OCCURS FIRST

294 "GLAZING MATERIALS USED IN THE BUILDING SHALL BE SELECTED AND INSTALLED IN ACCORDANCE WITH THE RELEVANT REQUIREMENTS OF PART 53 OF ORDINANCE 70, AS 1288 "SAA GLASS INSTALLATION CODE" AND AS 2208 "SAFETY GLAZING MATERIALS FOR USE IN BUILDINGS (HUMAN IMPACT CONSIDERATIONS)" A CERTIFICATE STATING THAT GLASS HAS BEEN INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF AS 1288 "SAA GLASS INSTALLATION CODE" SHALL BE SUBMITTED TO COUNCIL BY THE GLAZING INSTALLATION CONTRACTOR PRIOR TO OCCUPATION OF THE BUILDING OR ISSUE OF CERTIFICATE OF COMPLIANCE, WHICH EVER OCCURS FIRST.

302 PARTITIONING WHICH IS NOT A PART OF THIS APPLICATION SHALL NOT BE CONSTRUCTED WITHOUT PRIOR APPROVAL FIRST BEING OBTAINED FROM THE H/B SERVICES MANAGER.

306 SERVICES ASSOCIATED WITH THE FUNCTIONING OF THE BUILDING AND PASSING THROUGH A FLOOR SHALL EITHER BE IN INDIVIDUAL METAL PIPES, METAL CONDUITS, METAL DUCTS, OR THE LIKE, OR BE INSTALLED IN SHAFTS COMPLYING WITH PART 16 OF ORDINANCE 70 UNLESS THEY ARE PLUMBING SERVICES THAT ARE SUBJECT TO THE CONCESSION GIVEN IN PART 22 OF ORDINANCE 70. THE BUILDER SHOULD CONTACT COUNCIL'S HEALTH AND BUILDING SURVEYOR PRIOR TO THE INSTALLATION OF ANY SERVICES TO CLARIFY THESE REQUIREMENTS

310 OPENINGS IN SHAFTS AND WALLS PROVIDING ACCESS TO SHAFTS SHALL, UNLESS THEY ARE LOCATED IN A SANITARY COMPARTMENT, BE PROTECTED IN ACCORDANCE WITH THE REQUIREMENTS OF PART 22 OF ORDINANCE 70

314 OPENINGS FOR METAL PIPES, METAL CONDUITS OR THE LIKE PASSING THROUGH WALLS, FLOORS OR CEILINGS REQUIRED TO HAVE A FIRE RESISTANCE RATING OR RESISTANCE TO THE INCIPIENT SPREAD OF FIRE SHALL BE NO LARGER THAN IS NECESSARY TO PERMIT THEIR INSTALLATION ALL GAPS AROUND SERVICE PIPES SHALL BE PACKED OR OTHERWISE TREATED TO THE FULL THICKNESS OF THE WALL, FLOOR OR CEILING SO THAT THE FIRE RESISTING PERFORMANCE WILL NOT BE IMPAIRED.

318 WHERE WIRES OR CABLES FOR ELECTRICAL, TELEPHONE OR OTHER SERVICES WHICH ARE NOT ENCLOSED IN APPROVED NON-COMBUSTIBLE MATERIALS, PASS THROUGH ELEMENTS OF CONSTRUCTION REQUIRED TO HAVE A FIRE RESISTANCE RATING, THEY SHALL COMPLY WITH THE FOLLOWING
(A) NO INDIVIDUAL OPENING SHALL EXCEED 7 X 10 CUBIC MILLIMETRES SQUARED

CONTINUED

**PENRITH CITY COUNCIL**

Council Chambers, Station Street, Penrith, N.S.W. 2750 Telephone: (047) 32 2422 (C.D.E. 8017, Penrith)

APPLICATION NO: 010221 PERMIT NO: 010221 FOLIO NO: 6

IN AREA
(B) THE TOTAL AREA OF ANY HOLES FOR THE ACCOMMODATION OF ANY WIRES OR CABLES IN ANY 10 METRES SQUARED OF THE FLOOR OR CEILING SHALL NOT EXCEED 7 X 10 CUBIC MILLIMETRES SQUARED.
(C) WHERE ANY HOLE EXCEEDS 1.2 X 10 CUBIC MILLIMETRES SQUARED OR HAS A CROSS-SECTIONAL DIMENSION GREATER THAN 38MM, THE SPACES SHALL BE PACKED SOLID WITH GYPSUM VERMICULITE PLASTER OR OTHER APPROVED NON-COMBUSTIBLE MATERIAL.

322. OPENINGS FOR VENTILATING OR AIR CONDITIONING DUCTS OR OTHER EQUIPMENT IN A WALL REQUIRED TO HAVE A FIRE RESISTANCE RATING TO RESIST THE LATERAL SPREAD OF FIRE SHALL BE PROTECTED BY FIRE DAMPERS COMPLYING WITH THE RELEVANT AUSTRALIAN STANDARD.

326. AN AIR DUCT THAT PASSES THROUGH ONE OR MORE FLOORS REQUIRED TO HAVE A FIRE RESISTANCE RATING SHALL BE ENCLOSED IN A SHAFT THAT
(A) HAS A FIRE RESISTANCE RATING REQUIRED FOR A VENTILATING SHAFT BY PART 16 OF ORDINANCE 70 AND
(B) IS ENCLOSED AT THE TOP AND BOTTOM WITH A CONSTRUCTION HAVING THE SAME FIRE RESISTANCE RATING AS THAT REQUIRED FOR THE WALLS OF THE SHAFT, EXCEPT THAT THE ENCLOSURE AT THE TOP MAY BE OMITTED WHERE IT OPENS OUTSIDE THE BUILDING

338. ACCESS AND FACILITIES FOR THE DISABLED SHALL BE PROVIDED IN ACCORDANCE WITHTTHE RELEVANT CLAUSES OF PARTS 46 AND 53 AND SPECIFICATION NO 9 OF ORDINANCE 70.

501. SEWERED TOILETS SHALL BE PROVIDED FOR WORKMEN AND SHALL BE SUITABLY INSTALLED PRIOR TO COMMENCEMENT OF WORK

502. A PERMANENT PHYSICAL DELINIATION SHALL BE INSTALLED TO DISTINGUISHE STORAGE AREAS FROM TRADING AREAS, DETAILS OF WHICH ARE TO BE SUBMITTED FOR COUNCIL'S CONSIDERATION & APPROVAL PRIOR TO COMPLETION OF THE BUILDINGS. THESE BARRIERS SHALL COMPLY WITH THE REQUIREMENTS OF PART 24 OF ORDINANCE 70.
#10

503. SEPARATE DETAILS SHALL BE SUBMITTED TO COUNCIL PRIOR TO COMMENCEMENT OF WORK FOR THE TREATMENT OF STEEL COLUMNS AND BEAMS TO ACHIEVE THE REQUIRED FIRE RESISTANCE RATINGS

504. COUNCIL RESERVES THE RIGHT TO REQUIRE ADDITIONAL GARBAGE STORAGE AREAS SHOULD THE NEED ARISE

505. THE APPLICANT IS TO CONSULT WITH COUNCIL'S BUILDING SURVEYOR ON THE LOCATION OF FIRE HOSE REELS TO COMMENCEMENT OF WORK.

506. ANY FUTURE PARTITIONINGS OF THE FIRST FLOOR OFFICE AREAS SHALL NOT INTERFER WITH THE EGRESS REQUIREMENTS UNDER PART 24.4302) OF ORDINANCE 70.

CONTINUED:

**PENRITH CITY COUNCIL**

Council Chambers, Station Street, Penrith, N.S.W. 2750 Telephone: (047) 32 2422 (C.D.E. 8017, Penrith)

APPLICATION NO: 010221 PERMIT NO: 010221 FOLIO NO: ?

507. THE OWNER/APPLICANT IS TO CONTACT COUNCIL WHEN ADVISED OF AN INTENDED FOOD SHOP AS FOOD SHOPS REQUIRE SPECIALISED CONSTRUCTION TO COMPLY WITH COUNCIL'S "FOOD SHOP CODE". A SEPARATE BUILDING APPLICATION IS REQUIRED FOR FITTINGS FOR ANY PROPOSED FOOD SHOPS.

507. IN THE EVENT OF THE PROVISION OF A FOOD SHOP, THE APPLICANT IS TO CONTACT COUNCIL'S HEALTH SURVEYOR WITH REGARDS TO THE METHOD OF CONSTRUCTION, PROVISION OF ENCLOSED GARBAGE STORAGE AREA AND GREASE ARRESTOR.

851. LANDSCAPE TREATMENT TO BE PROVIDED IN ACCORDANCE WITH COUNCIL'S AMENDED LANDSCAPE PLAN. ANY PROPOSED VARIATIONS TO THE AMENDED PLANTING SCHEDULE TO BE APPROVED BY COUNCIL.

852. EXTERNAL FINISHES OF THE DEVELOPMENT TO BE CONSTRUCTED IN MATERIALS AS SUBMITTED WITH THE BUILDING APPLICATION AND APPROVED BY COUNCIL. THIS INCLUDES BRICK A (LIGHT COLOUR), BRICK B (MID COLOUR), AND BRICK C (DARKER COLOUR). ANY VARIATIONS TO THE APPROVED EXTERNAL FINISHES TO BE SUBMITTED FOR APPROVAL PRIOR TO CONSTRUCTION.

853. THE CONSTRUCTION OF FULL WIDTH FOOTPAVING IN HENRY STREET AND PARTIAL FRONTAGE OF LAWSON STREET IN CLAY BRICK PAVERS TO THE SATISFACTION OF COUNCIL. PAVING PATTERN TO BE CONSTRUCTED IN ACCORDANCE WITH COUNCIL'S AMENDED LANDSCAPE PLAN OR SIMILAR APPROVED PATTERN.

854. THE SCREEN WALL ALONG THE SITE'S NORTH STREET AND LAWSON STREET BOUNDARIES TO BE CONSTRUCTED IN COLOURED METAL POST AND RAILS WITH COLOURED MESH PANELS OR ALTERNATIVE SIMILAR MATERIALS TO THE SATISFACTION OF COUNCIL.
DETAILS OF MATERIALS AND COLOURS TO BE APPROVED BY COUNCIL PRIOR TO CONSTRUCTION.

855. THE LOADING DOCK SCREEN ADJACENT TO UNIT NO. 4 TO BE CONSTRUCTED OF COLOURED PERFORATED METAL OR ALTERNATIVE SIMILAR MATERIAL TO THE SATISFACTION OF COUNCIL. DETAILS OF MATERIALS AND COLOURS TO BE APPROVED BY COUNCIL PRIOR TO CONTRUCTION.

856. THE LOADING DOCK SCREEN ADJACENT TO UNIT NO. 4 TO BE CONSTRUCTED OF COLOURED PERFORATED METAL OR ALTERNATIVE SIMILAR MATERIAL TO THE SATISFACTION OF COUNCIL. DETAILS OF MATERIALS AND COLOURS TO BE APPROVED BY COUNCIL PRIOR TO CONSTRUCTION.

857. THE DESIGN AND LOCATION OF AIR CONDITIONING AND PLANT EQUIPMENT PROJECTING ABOVE THE BUILDING ROOFLINE TO BE IN ACCORDANCE WITH THE APPROVED PLANS. EQUIPMENT TO BE SCREENED WITH COLOURED METAL LOUVRES OR METAL CLADDING SIMILAR TO ROOFING MATERIALS TO THE SATISFACTION OF COUNCIL.

858. SPEED HUMPS AND PEDESTRIAN LINE MARKING TO BE PROVIDED WITHIN THE CARPARKING AREA AS INDICATED ON COUNCIL'S AMENDED LANDSCAPE PLAN TO

CONTINUED ...

**PENRITH CITY COUNCIL**

Council Chambers, Station Street, Penrith, N.S.W. 2750 Telephone: (047) 32 2422 (C.D.E. 8017, Penrith)

APPLICATION NO: 010221 PERMIT NO: 010221 FOLIO NO: 8

THE SATISFACTION OF COUNCIL.

REQUIREMENTS OF OTHER AUTHORITIES

901 WARNING : THESE BUILDING PLANS MUST BE SUBMITTED TO THE METROPOLITAN WATER, SEWERAGE AND DRAINAGE BOARD, 140 HENRY STREET, PENRITH PHONE: 047 32 8177, AT LEAST 14 DAYS BEFORE THE COMMENCEMENT OF WORK.
THE APPLICANT WILL NEED TO COMPLETE A BUILDING APPLICATION ON WHICH THE FOLLOWING INFORMATION IS REQUIRED:-
1) THE ADDRESS OF THE PROPERTY (INCLUDING LOT NO AND DEPOSITED PLAN NO) AND ITS LOCATION IN RELATION TO THE NEAREST CROSS-STREET. IF THESE PARTICULARS ARE NOT KNOWN, A SKETCH WILL NEED TO BE SUPPLIED.
2) THE NAME AND ADDRESS OF THE OWNER AND THE BUILDER.
3) THE TYPE OF BUILDING AND TYPE OF CONSTRUCTION, THE ESTIMATED COST AND THE PROBABLE DATE OF COMPLETION.
THE PLAN AND APPLICATION WILL BE SUBMITTED ON THE FIRST FLOOR, FIRSTLY TO THE BUILDING PLAN SECTION TO ENSURE THAT THE PROPOSED STRUCTURE MEETS WITH THE REQUIREMENTS OF THE BOARD'S BY-LAWS CONCERNING --
I LOCATION OF SANITARY FIXTURES;
II RELATIONSHIP OF THE BUILDING TO WATER MAINS, SEWERS AND STORMWATER CHANNELS.
AND SECONDLY, TO THE VALUATIONS SECTION FOR VALUING PURPOSES IN CONNECTION WITH SECTION 97(4) AD (2) OF THE BOARD'S ACT, AND FOR THE CALCULATION OF A BUILDING FEE IN ACCORDANCE WITH BY-LAW 7(1) (B) OF THE BOARD'S ACT.
FAILURE TO SUBMIT THESE PLANS BEFORE COMMENCING WORK WILL RENDER THE OWNER LIABLE TO A PENALTY AND MAY RESULT IN THE DEMOLITION OF THE WORK AT THE BUILDERS EXPENSE.

904 UNIMPEDED ACCESS MUST BE AVAILABLE TO PROSPECT COUNTY COUNCIL DURING AND AFTER BUILDING, TO THE ELECTRICITY METERS AND METERING EQUIPMENT.

# PENRITH CITY COUNCIL

Council Chambers, Station Street, Penrith, N.S.W. 2750 Telephone: (047) 32 2422 (C.D.E. 8017, Penrith)

YOUR REF:

OUR REF: 012655
CONTACT: MR S. PILLON

BUILDING PERMIT

PERMIT NO: 12655
REF:

ISSUED TO: HARVEY NORMAN DISCOUNTSLTD., OF
233-239 PARRAMATTA ROAD
AUBURN 2144 IN RESPECT OF

LOT NO: 1 & 2 D.P: 229147 HOUSE NO: 0079 STREET: HENRY
LOCALITY: PENRITH

<----OWNER'S NAME AND ADDRESS-----> <---BUILDER'S NAME AND ADDRESS---->
HOOKER PROJECTS
175 PITT STREET
SYDNEY 2000

HARVEY NORMAN DISCOUNTSLTD.,
233-239 PARRAMATTA ROAD
AUBURN 2144

APPROVED SUBJECT TO COMPLIANCE WITH THE LOCAL GOVERNMENT ACT, RELEVANT ORDINANCES ISSUED THEREUNDER AND CONDITIONS NUMBERED; 14, 16, 18, 20, 22,184, 186,202,206,234,262,901,

HEREUNDER FOR THE ERECTION OF
A SHOPS/SHOP FITTING/ FOR THE VALUE OF $12000.

THIS APPROVAL LAPSES ON THE EXPIRATION OF 12 MONTHS AFTER THE DATE HEREOF.

ATTENTION IS DRAWN TO THE PROVISIONS OF SECTION/S 317L (AND 288C IN REGARD TO FENCING OF SWIMMING POOLS) OF THE LOCAL GOVERNMENT ACT, 1919, AS AMENDED, GIVING A RIGHT OF APPEAL AGAINST THE DECISION OF COUNCIL. APPEAL FORMS ARE AVAILABLE AT COUNCIL'S OFFICE.

DATE: 17 / 9 / 87 SIGNED: P.J. ANSOUL, per:

(HEALTH AND BUILDING SERVICES MANAGER)

DATE: / / SIGNED:

(PERSON COLLECTING PLANS)

CONDITIONS:

14. THAT 48 HOURS' NOTICE IN WRITING BE GIVEN TO COUNCIL FOR INSPECTION:-
    (A) OF TRENCHES BEFORE FOOTINGS ARE LAID;
    (B) OF FOOTINGS BEFORE TRENCHES ARE FILLED;
    (C) WHEN THE BUILDING HAS BEEN ERECTED TO FLOOR LEVEL AND DAMPCOURSES ARE LAID;
    (D) OF FLASHING AND DAMP-PROOFING OF WET AREAS (VIZ.BATHROOMS.LAUNDRIES, ENSUITES AND W.C.) PRIOR TO CLADDING.

CONTINUED....

**PENRITH CITY COUNCIL**

Council Chambers, Station Street, Penrith, N.S.W. 2750 Telephone: (047) 32 2422 (C.D.E. 8017, Penrith)

APPLICATION NO: 012655 PERMIT NO: 012655 FOLIO NO: 2

(E) WHEN STEEL FOR REINFORCED STRUCTURAL CONCRETE WORK IS IN POSITION PRIOR TO POURING OF CONCRETE;
(F) WHEN THE BUILDING HAS BEEN ERECTED TO ROOF FRAMING;
(G) OF DRAINS BEFORE THEY ARE COVERED IN; AND
(H) WHEN THE BUILDING IS COMPLETED AND READY FOR OCCUPATION.

16. BUILDING SHALL NOT BE USED OR OCCUPIED UNTIL APPROVAL IS GRANTED BY COUNCIL.

18. STAMPED PLANS,SPECIFICATION AND PERMIT SHALL BE KEPT ON SITE AT ALL TIMES.

20. APPROVED IN COMPLIANCE WITH THE CONDITIONS OF THE METROPOLITAN WATER, SEWERAGE AND DRAINAGE BOARD AS STAMPED ON PLANS.

22. A SPECIAL INSPECTION BY PENRITH CITY COUNCIL MUST BE OBTAINED ON ALL SANITARY PLUMBING AND DRAINAGE IN RESPECT OF WORK OUTSIDE THE SEWERED AREAS OF THE METROPOLITIAN WATER,SEWERAGE AND DRAINAGE BOARD.

184. ILLUMINATED EXIT SIGNS AND DIRECTIONAL SIGNS COMPLYING WITH THE RELEVANT PROVISIONS OF PART 24 AND PART 55 OF ORDINANCE 70 SHALL BE INSTALLED THROUGHOUT THE BUILDING IN LOCATIONS APPROVED BY THE HEALTH AND BUILDING SERVICES MANAGER. CONSULTATION SHALL TAKE PLACE WITH THE HEALTH AND BUILDING SURVEYOR AND APPROVAL OBTAINED PRIOR TO THE INSTALLATION OF ANY FITTINGS.

186. EMERGENCY LIGHTING SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF CLAUSE 55.12 OF ORDINANCE 70.
CONSULTATION SHALL TAKE PLACE WITH THE H/B SURVEYOR AND APPROVAL SHALL BE OBTAINED PRIOR TO THE INSTALLATION OF ANY FITTINGS.

202. ALL REQUIRED EXIT DOORS OR DOORS FORMING PART OF A REQUIRED EXIT SHALL BE READILY OPENABLE WITHOUT A KEY AND BY A SINGLE HANDED ACTION FROM THE SIDE THAT WOULD FACE ANY PERSON SEEKING EGRESS FROM THE BUILDING.

206. ANY REQUIRED EXIT DOOR THAT SWINGS AGAINST THE DIRECTION OF EGRESS SHALL BE FITTED WITH AN APPROVED MEANS OF FIXING IT IN THE FULLY OPEN POSITION.

234. REQUIRED DOORWAYS SHALL HAVE A CLEAR OPENING OF NOT LESS THAN 1980MM IN HEIGHT AND 760MM IN WIDTH. EVERY EXIT AND PATH OF TRAVEL TO AN EXIT SHALL, EXCEPT FOR DOORWAYS, HAVE A MINIMUM UNOBSTRUCTED VERTICAL CLEARANCE THROUGHOUT OF 2030MM AND A MINIMUM UNOBSTRUCTED WIDTH THROUGHOUT OF 1020MM.

262. THE ERECTION OF ANY ADVERTISING STRUCTURE OR DISPLAY OF ANY SIGN IS NOT PERMITTED WITHOUT THE PRIOR APPROVAL OF COUNCIL.

REQUIREMENTS OF OTHER AUTHORITIES

CONTINUED....

# PENRITH CITY COUNCIL

Council Chambers, Station Street, Penrith, N.S.W. 2750 Telephone: (047) 32 2422 (C.D.E. 8017, Penrith)

APPLICATION NO: 012655 PERMIT NO: 012655 FOLIO NO: 3

901. WARNING: THESE BUILDING PLANS MUST BE SUBMITTED TO ANY BUSINESS OFFICE OF THE METROPOLITAN WATER, SEWERAGE AND DRAINAGE BOARD, AT LEAST 14 DAYS BEFORE COMMENCEMENT OF WORK.
THE PLANS AND A BUILDING APPLICATION FORM, AVAILABLE AT BUSINESS OFFICES, NEED TO BE SUBMITTED TO ENSURE THAT THE PROPOSED STRUCTURE MEETS THE REQUIREMENTS OF THE BOARD'S BY-LAWS CONCERNING:-
1) LOCATION OF SANITARY FIXTURES,
2) RELATIONSHIP OF THE BUILDING TO WATER MAINS, SEWERS AND STORMWATER CHANNELS,
AND FOR VALUING PURPOSES IN CONNECTION WITH SECTION 97 (4) AND (7) OF THE BOARD'S ACT, AND FOR THE CALCULATION OF A BUILDING FEE IN ACCORDANCE WITH BY-LAW 7 (1) (A) OF THE BOARD'S ACT.
FAILURE TO SUBMIT THESE PLANS BEFORE COMMENCEMENT OF WORK WILL RENDER THE OWNER LIABLE TO A PENALTY AND MAY RESULT IN THE DEMOLITION OF THE WORK AT THE BUILDER'S EXPENSE.
BUSINESS OFFICES ARE LOCATED AT:-

| | | | |
|---|---|---|---|
| BLACKTOWN | 22 MAIN ST. | ROCKDALE | 564 PRINCESS HWAY. |
| CAMPBELLTOWN | 106 QUEEN ST. | LIVERPOOL | CNR BIGGE & MOORE STS. |
| CHATSWOOD | 66-70 ARCHER ST. | MIRANDA | 69-73 KIORA RD. |
| DEE WHY | 687 PITTWATER RD. | PARRAMATTA | 136 CHURCH ST. |
| FAIRFIELD | 51 SMART ST. | PENRITH | 140-142 HENRY ST. |
| HORNSBY | CNR EDGEWORTH DAVID AVE. & HUNTER ST. | SYDNEY | 115-123 BATHURST ST. |
| | | WOLLONGONG | 406 COOMBE ST. |
| KATOOMBA | 103 KATOOMBA ST. | CONISTON | OLD SPRINGHILL RD. |

# PENRITH CITY COUNCIL

Council Chambers, Station Street, Penrith, N.S.W. 2750 Telephone: (047) 32 2422 (C.D.E. 8017, Penrith)

YOUR REF:

OUR REF: 012687
CONTACT: MR S. PILLON

BUILDING PERMIT

PERMIT NO: 12687
REF:

ISSUED TO: CLINICARE MEDICAL CENTRES OF
79 AUSTIN STREET
LANE COVE 2066

IN RESPECT OF

LOT NO: 1 D.P: 723361 HOUSE NO: 0061 STREET: HENRY
LOCALITY: PENRITH

<----OWNER'S NAME AND ADDRESS----->
HOOKER PROJECTS
175 PITT STREET
SYDNEY 2000

<---BUILDER'S NAME AND ADDRESS---->
PROJECT MANAGERS-CLINICAR MEDICAL C
79 AUSTIN STREET
LANE COVE 0000

APPROVED SUBJECT TO COMPLIANCE WITH THE LOCAL GOVERNMENT ACT, RELEVANT ORDINANCES ISSUED THEREUNDER AND CONDITIONS NUMBERED; 184,186,202,210,246,254, 262,314,501,502,503,901,

HEREUNDER FOR THE ERECTION OF
A SHOPS/SHOP FITTING/ FOR THE VALUE OF $100000.

THIS APPROVAL LAPSES ON THE EXPIRATION OF 12 MONTHS AFTER THE DATE HEREOF.

ATTENTION IS DRAWN TO THE PROVISIONS OF SECTION/S 317L (AND 288C IN REGARD TO FENCING OF SWIMMING POOLS) OF THE LOCAL GOVERNMENT ACT, 1919, AS AMENDED, GIVING A RIGHT OF APPEAL AGAINST THE DECISION OF COUNCIL. APPEAL FORMS ARE AVAILABLE AT COUNCIL'S OFFICE.

DATE: 13/10/87 SIGNED: P.J. ANSOUL, per:

(HEALTH AND BUILDING SERVICES MANAGER)

DATE: 13/10/87 SIGNED:

(PERSON COLLECTING PLANS)

CONDITIONS:

184. ILLUMINATED EXIT SIGNS AND DIRECTIONAL SIGNS COMPLYING WITH THE RELEVANT PROVISIONS OF PART 24 AND PART 55 OF ORDINANCE 70 SHALL BE INSTALLED THROUGHOUT THE BUILDING IN LOCATIONS APPROVED BY THE HEALTH AND BUILDING SERVICES MANAGER. CONSULTATION SHALL TAKE PLACE WITH THE HEALTH AND BUILDING SURVEYOR AND APPROVAL OBTAINED PRIOR TO THE INSTALLATION OF ANY FITTINGS.

186. EMERGENCY LIGHTING SHALL BE INSTALLED IN ACCORDANCE WITH THE

CONTINUED....

**PENRITH CITY COUNCIL**

Council Chambers, Station Street, Penrith, N.S.W. 2750 Telephone: (047) 32 2422 (C.D.E. 8017, Penrith)

APPLICATION NO: 012687 PERMIT NO: 012687 FOLIO NO: 2

REQUIREMENTS OF CLAUSE 55.12 OF ORDINANCE 70. CONSULTATION SHALL TAKE PLACE WITH THE H/B SURVEYOR AND APPROVAL SHALL BE OBTAINED PRIOR TO THE INSTALLATION OF ANY FITTINGS.

202. ALL REQUIRED EXIT DOORS OR DOORS FORMING PART OF A REQUIRED EXIT SHALL BE READILY OPENABLE WITHOUT A KEY AND BY A SINGLE HANDED ACTION FROM THE SIDE THAT WOULD FACE ANY PERSON SEEKING EGRESS FROM THE BUILDING.

210. THE INSTALLATION OF SERVICES AND EQUIPMENT IN EXITS AND PATHS OF TRAVEL IS SUBJECT TO THE REQUIREMENTS OF THE RELEVANT CLAUSES OF PART 24 OF ORDINANCE 70. THE APPLICANT IS TO CONSULT WITH COUNCIL'S HEALTH AND BUILDING SURVEYOR PRIOR TO THE INSTALLATION OF ANY GAS METERS, GAS AND OTHER FUEL PIPES, TELEPHONES SP BOARDS, ELECTRICITY METERS OR DUCTS ELECTRICAL MOTORS OR OTHER MOTORS SERVING EQUIPMENT IN THE BUILDING.

246. MECHANICAL VENTILATION OR AIR CONDITIONING SYSTEMS SHALL BE DESIGNED IN ACCORDANCE WITH THE RELEVANT AUSTRALIAN STANDARD FOR VENTILATION REQUIREMENTS. FULL DETAILS AND DESIGN CRITERIA SHALL BE SUBMITTED TO THE H/B SERVICES MANAGER FOR APPROVAL PRIOR TO INSTALLATION.

254. WHEN THE INSTALLATION CHECKING AND BALANCING OF THE VENTILATION SYSTEM, IS COMPLETE COUNCIL IS TO BE NOTIFIED THAT THE SYSTEM IS READY FOR INSPECTION, AND THAT A QUALIFIED TECHNICIAN WILL BE ON SITE WITH THE NECESSARY INSTRUMENTS TO DEMONSTRATE TO COUNCIL'S HEALTH AND BUILDING SURVEYOR THAT THE SYSTEM IS INSTALLED IN ACCORDANCE WITH DESIGN CRITERIA.

262. THE ERECTION OF ANY ADVERTISING STRUCTURE OR DISPLAY OF ANY SIGN IS NOT PERMITTED WITHOUT THE PRIOR APPROVAL OF COUNCIL.

314. OPENINGS FOR METAL PIPES, METAL CONDUITS OR THE LIKE PASSING THROUGH WALLS, FLOORS OR CEILINGS REQUIRED TO HAVE A FIRE RESISTANCE RATING OR RESISTANCE TO THE INCIPIENT SPREAD OF FIRE SHALL BE NO LARGER THAN IS NECESSARY TO PERMIT THEIR INSTALLATION ALL GAPS AROUND SERVICE PIPES SHALL BE PACKED OR OTHERWISE TREATED TO THE FULL THICKNESS OF THE WALL, FLOOR OR CEILING SO THAT THE FIRE RESISTING PERFORMANCE WILL NOT BE IMPAIRED.

501. THE PROPOSED COFFEE SHOP SHALL BE CONSTRUCTED IN ACCORDANCE WITH COUNCIL'S CODE FOR FOOD PREMISES.

502. THE OPERATION OF THE X-RAY ROOMS SHALL BE LICENCED BY THE RELEVANT STATUTORY AUTHORITY.

503. COMPLIANCE WITH ALL CONDITIONS CONTAINED IN CONSENT NOTICE 202/87 OF 26/8/87.

REQUIREMENTS OF OTHER AUTHORITIES

901. WARNING: THESE BUILDING PLANS MUST BE SUBMITTED TO ANY BUSINESS OFFICE

CONTINUED....

**PENRITH CITY COUNCIL**

Council Chambers, Station Street, Penrith, N.S.W. 2750 Telephone: (047) 32 2422 (C.D.E. 8017, Penrith)

APPLICATION NO: 012687 PERMIT NO: 012687 FOLIO NO: 3

OF THE METROPOLITAN WATER, SEWERAGE AND DRAINAGE BOARD, AT LEAST 14 DAYS BEFORE COMMENCEMENT OF WORK.

THE PLANS AND A BUILDING APPLICATION FORM, AVAILABLE AT BUSINESS OFFICES, NEED TO BE SUBMITTED TO ENSURE THAT THE PROPOSED STRUCTURE MEETS THE REQUIREMENTS OF THE BOARD'S BY-LAWS CONCERNING:-

1) LOCATION OF SANITARY FIXTURES,
2) RELATIONSHIP OF THE BUILDING TO WATER MAINS, SEWERS AND STORMWATER CHANNELS,

AND FOR VALUING PURPOSES IN CONNECTION WITH SECTION 97 (4) AND (7) OF THE BOARD'S ACT, AND FOR THE CALCULATION OF A BUILDING FEE IN ACCORDANCE WITH BY-LAW 7 (1) (A) OF THE BOARD'S ACT.

FAILURE TO SUBMIT THESE PLANS BEFORE COMMENCEMENT OF WORK WILL RENDER THE OWNER LIABLE TO A PENALTY AND MAY RESULT IN THE DEMOLITION OF THE WORK AT THE BUILDER'S EXPENSE.

BUSINESS OFFICES ARE LOCATED AT:-

| | | | |
|---|---|---|---|
| BLACKTOWN | 22 MAIN ST. | ROCKDALE | 564 PRINCESS HWAY. |
| CAMPBELLTOWN | 106 QUEEN ST. | LIVERPOOL | CNR BIGGE & MOORE STS. |
| CHATSWOOD | 66-70 ARCHER ST. | MIRANDA | 69-73 KIORA RD. |
| DEE WHY | 687 PITTWATER RD. | PARRAMATTA | 136 CHURCH ST. |
| FAIRFIELD | 51 SMART ST. | PENRITH | 140-142 HENRY ST. |
| HORNSBY | CNR EDGEWORTH DAVID AVE. & HUNTER ST. | SYDNEY | 115-123 BATHURST ST. |
| | | WOLLONGONG | 406 COOMBE ST. |
| KATOOMBA | 103 KATOOMBA ST. | CONISTON | OLD SPRINGHILL RD. |

# PENRITH CITY COUNCIL

Council Chambers, Station Street, Penrith, N.S.W. 2750 Telephone: (047) 32 2422 (C.D.E. 8017, Penrith)

YOUR REF:

OUR REF: 013201
CONTACT: MR S. PILLON

BUILDING PERMIT

PERMIT NO: 13201
REF:

ISSUED TO: REBEL SPORTS WAREHOUSE
348 HUME HIGHWAY
BANKSTOWN 2200

OF

IN RESPECT OF

LOT NO: 1/2 D.P: 229147 HOUSE NO: 0079 STREET: HENRY
LOCALITY: PENRITH

<----OWNER'S NAME AND ADDRESS-----> <---BUILDER'S NAME AND ADDRESS---->
THE HOOKER CORPORATION LIMITED
175 PITT STREET
SYDNEY 2000

0000

APPROVED SUBJECT TO COMPLIANCE WITH THE LOCAL GOVERNMENT ACT, RELEVANT ORDINANCES ISSUED THEREUNDER AND CONDITIONS NUMBERED; 14, 16, 18,184,186,262, 501,502,901,

HEREUNDER FOR THE ERECTION OF
A SHOPS/SHOP FITTING/ FOR THE VALUE OF $4311.

THIS APPROVAL LAPSES ON THE EXPIRATION OF 12 MONTHS AFTER THE DATE HEREOF.

ATTENTION IS DRAWN TO THE PROVISIONS OF SECTION/S 317L (AND 288C IN REGARD TO FENCING OF SWIMMING POOLS) OF THE LOCAL GOVERNMENT ACT, 1919, AS AMENDED, GIVING A RIGHT OF APPEAL AGAINST THE DECISION OF COUNCIL. APPEAL FORMS ARE AVAILABLE AT COUNCIL'S OFFICE.

DATE: 17/11/87 SIGNED: P.J. ANSOUL, per:

(HEALTH AND BUILDING SERVICES MANAGER)

DATE: 17/11/87 SIGNED:

POSTED TO APPLICANT

(PERSON COLLECTING PLANS)

CONDITIONS:

14. THAT 48 HOURS' NOTICE IN WRITING BE GIVEN TO COUNCIL FOR INSPECTION:-
    (A) OF TRENCHES BEFORE FOOTINGS ARE LAID;
    (B) OF FOOTINGS BEFORE TRENCHES ARE FILLED;
    (C) WHEN THE BUILDING HAS BEEN ERECTED TO FLOOR LEVEL AND DAMPCOURSES ARE LAID;
    (D) OF FLASHING AND DAMP-PROOFING OF WET AREAS (VIZ.BATHROOMS.LAUNDRIES, ENSUITES AND W.C.) PRIOR TO CLADDING.

CONTINUED....

**PENRITH CITY COUNCIL**

Council Chambers, Station Street, Penrith, N.S.W. 2750 Telephone: (047) 32 2422 (C.D.E. 8017, Penrith)

APPLICATION NO: 013201 PERMIT NO: 013201 FOLIO NO: 2

(E) WHEN STEEL FOR REINFORCED STRUCTURAL CONCRETE WORK IS IN POSITION PRIOR TO POURING OF CONCRETE;
(F) WHEN THE BUILDING HAS BEEN ERECTED TO ROOF FRAMING;
(G) OF DRAINS BEFORE THEY ARE COVERED IN; AND
(H) WHEN THE BUILDING IS COMPLETED AND READY FOR OCCUPATION.

16. BUILDING SHALL NOT BE USED OR OCCUPIED UNTIL APPROVAL IS GRANTED BY COUNCIL.

18. STAMPED PLANS,SPECIFICATION AND PERMIT SHALL BE KEPT ON SITE AT ALL TIMES.

184. ILLUMINATED EXIT SIGNS AND DIRECTIONAL SIGNS COMPLYING WITH THE RELEVANT PROVISIONS OF PART 24 AND PART 55 OF ORDINANCE 70 SHALL BE INSTALLED THROUGHOUT THE BUILDING IN LOCATIONS APPROVED BY THE HEALTH AND BUILDING SERVICES MANAGER. CONSULTATION SHALL TAKE PLACE WITH THE HEALTH AND BUILDING SURVEYOR AND APPROVAL OBTAINED PRIOR TO THE INSTALLATION OF ANY FITTINGS.

186. EMERGENCY LIGHTING SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF CLAUSE 55.12 OF ORDINANCE 70.
CONSULTATION SHALL TAKE PLACE WITH THE H/B SURVEYOR AND APPROVAL SHALL BE OBTAINED PRIOR TO THE INSTALLATION OF ANY FITTINGS.

262. THE ERECTION OF ANY ADVERTISING STRUCTURE OR DISPLAY OF ANY SIGN IS NOT PERMITTED WITHOUT THE PRIOR APPROVAL OF COUNCIL.

501. COUNCIL REQUIRES THAT A UNIFROM APPROACH BE ADOPTED FOR ALL ADVERTISING STRUCTURES AND ADVERTISEMENTS ASSOCIATED WITH MULTI OCCUPANCY BUILDINGS. THE SUBMISSION OF ANY SIGN LICNECE APPLICATIONS SHALL COMPLY WITH THE OVERALL CONCEPT AS APPROVED BY COUNCIL.

502. PERMANENT OPENINGS SHALL BE MAINTAINED BETWEEN THE UNITS TO FACILITATE ACCESS FOR EGRESS FOR PERSONS AND FIRE FIGHTING SERVICES SUCH AS HOSE REELS.

REQUIREMENTS OF OTHER AUTHORITIES

901. WARNING: THESE BUILDING PLANS MUST BE SUBMITTED TO ANY BUSINESS OFFICE OF THE METROPOLITAN WATER, SEWERAGE AND DRAINAGE BOARD, AT LEAST 14 DAYS BEFORE COMMENCEMENT OF WORK.
THE PLANS AND A BUILDING APPLICATION FORM, AVAILABLE AT BUSINESS OFFICES, NEED TO BE SUBMITTED TO ENSURE THAT THE PROPOSED STRUCTURE MEETS THE REQUIREMENTS OF THE BOARD'S BY-LAWS CONCERNING:-
1) LOCATION OF SANITARY FIXTURES,
2) RELATIONSHIP OF THE BUILDING TO WATER MAINS, SEWERS AND STORMWATER CHANNELS,
AND FOR VALUING PURPOSES IN CONNECTION WITH SECTION 97 (4) AND (7) OF THE

CONTINUED....

**PENRITH CITY COUNCIL**

Council Chambers, Station Street, Penrith, N.S.W. 2750 Telephone: (047) 32 2422 (C.D.E. 8017, Penrith)

APPLICATION NO: 013201 PERMIT NO: 013201 FOLIO NO: 3

BOARD'S ACT, AND FOR THE CALCULATION OF A BUILDING FEE IN ACCORDANCE WITH BY-LAW 7 (1) (A) OF THE BOARD'S ACT.
FAILURE TO SUBMIT THESE PLANS BEFORE COMMENCEMENT OF WORK WILL RENDER THE OWNER LIABLE TO A PENALTY AND MAY RESULT IN THE DEMOLITION OF THE WORK AT THE BUILDER'S EXPENSE.
BUSINESS OFFICES ARE LOCATED AT:-

| | | | |
|---|---|---|---|
| BLACKTOWN | 22 MAIN ST. | ROCKDALE | 564 PRINCESS HWAY. |
| CAMPBELLTOWN | 106 QUEEN ST. | LIVERPOOL | CNR BIGGE & MOORE STS. |
| CHATSWOOD | 66-70 ARCHER ST. | MIRANDA | 69-73 KIORA RD. |
| DEE WHY | 687 PITTWATER RD. | PARRAMATTA | 136 CHURCH ST. |
| FAIRFIELD | 51 SMART ST. | PENRITH | 140-142 HENRY ST. |
| HORNSBY | CNR EDGEWORTH DAVID AVE. & HUNTER ST. | SYDNEY | 115-123 BATHURST ST. |
| | | WOLLONGONG | 406 COOMBE ST. |
| KATOOMBA | 103 KATOOMBA ST. | CONISTON | OLD SPRINGHILL RD. |

# PENRITH CITY COUNCIL

Council Chambers, Station Street, Penrith, N.S.W. 2750 Telephone: (047) 32 7777 (C.D.E. 8017, Penrith)

YOUR REF:

OUR REF: 024715
CONTACT: MR PILLON 327530

BUILDING PERMIT

PERMIT NO: 24715
REF:

ISSUED TO: CHARLES GLANVILLE ARCH.
2ND FLOOR 96 PHILLIP STREET
PARRAMATTA 2150

OF

IN RESPECT OF

LOT NO: 1 D.P: HOUSE NO: 0061 STREET: HENRY
LOCALITY: PENRITH

(----OWNER'S NAME AND ADDRESS-----)
GIO C/- MARTIN R/ ESTATE
HENRY STREET
PENRITH 2750

(---BUILDER'S NAME AND ADDRESS----)
CHARLES GLANVILLE ARCH.
2ND FLOOR 96 PHILLIP STREET
PARRAMATTA 2150

APPROVED SUBJECT TO COMPLIANCE WITH THE LOCAL GOVERNMENT ACT, RELEVANT ORDINANCES ISSUED THEREUNDER AND CONDITIONS NUMBERED: 14, 16, 18, 24, 175, 184, 186, 202, 242, 246, 262, 294, 314, 524, 526, 528, 530, 532, 820, 901, 904,

HEREUNDER FOR THE ERECTION OF A OFFICES (NOT IN CLASS 6 - 9)./OFFICE REN FOR THE VALUE OF $150000.

THIS APPROVAL LAPSES ON THE EXPIRATION OF 12 MONTHS AFTER THE DATE HEREOF.

ATTENTION IS DRAWN TO THE PROVISIONS OF SECTION/S 317L (AND 288C IN REGARD TO FENCING OF SWIMMING POOLS) OF THE LOCAL GOVERNMENT ACT, 1919, AS AMENDED, GIVING A RIGHT OF APPEAL AGAINST THE DECISION OF COUNCIL. APPEAL FORMS ARE AVAILABLE AT COUNCIL'S OFFICE.

DATE: 9/5/90 SIGNED: G.L. RUMBLE, per:

(HEALTH AND BUILDING SERVICES MANAGER)

DATE: 24/5/90 SIGNED: Anthea Herbert

(PERSON COLLECTING PLANS)
Lamrocks Solicitors

CONDITIONS:

14. THAT 48 HOURS' NOTICE IN WRITING BE GIVEN TO COUNCIL FOR INSPECTION:-
(A) OF TRENCHES BEFORE FOOTINGS ARE LAID;
(B) OF FOOTINGS BEFORE TRENCHES ARE FILLED;
(C) WHEN THE BUILDING HAS BEEN ERECTED TO FLOOR LEVEL AND DAMPCOURSES ARE LAID;
(D) OF FLASHING AND DAMP-PROOFING OF WET AREAS (VIZ. BATHROOMS, LAUNDRIES, ENSUITES AND W.C.) PRIOR TO CLADDING.

CONTINUED....

**PENRITH CITY COUNCIL**

Council Chambers, Station Street, Penrith, N.S.W. 2750 Telephone: (047) 32 7777 (C.D.E. 8017, Penrith)

APPLICATION NO: 024715 PERMIT NO: 024715 FOLIO NO: 2

(E) WHEN STEEL FOR REINFORCED STRUCTURAL CONCRETE WORK IS IN POSITION PRIOR TO POURING OF CONCRETE;
(F) WHEN THE BUILDING HAS BEEN ERECTED TO ROOF FRAMING;
(G) OF DRAINS BEFORE THEY ARE COVERED IN; AND
(H) WHEN THE BUILDING IS COMPLETED AND READY FOR OCCUPATION.

16. BUILDING SHALL NOT BE USED OR OCCUPIED UNTIL APPROVAL IS GRANTED BY COUNCIL.

18. STAMPED PLANS, SPECIFICATION AND PERMIT SHALL BE KEPT ON SITE AT ALL TIMES.

24. A SPECIAL INSPECTION BY THE WATER BOARD SHALL BE OBTAINED ON ALL INTERNAL/EXTERNAL DRAINAGE.

175. (A) PORTABLE FIRE EXTINGUISHERS, HAVING AT LEAST THE PROTECTION EFFECTIVENESS OF A 5.5KG CARBON DIOXIDE EXTINGUISHER SHALL BE INSTALLED WITHIN THE BUILDING IN ACCORDANCE WITH THE REQUIREMENTS OF PART 27 OF ORDINANCE 70. IT WILL BE NECESSARY FOR THE APPLICANT TO CONSULT WITH THE HEALTH AND BUILDING DEPARTMENT TO DETERMINE THE LOCATION OF THE EXTINGUISHERS.
(B) FIRE BLANKETS SHALL BE PROVIDED IN COMMERCIAL KITCHENS, OR OTHER AREAS WHERE SMALL COOKING FIRES ARE LIKELY. THE BLANKETS SHALL COMPLY WITH THE REQUIREMENTS OF AS3504-1987 "FIRE BLANKETS".

184. ILLUMINATED EXIT SIGNS AND DIRECTIONAL SIGNS COMPLYING WITH THE RELEVANT PROVISIONS OF PART 24 AND PART 55 OF ORDINANCE 70 SHALL BE INSTALLED THROUGHOUT THE BUILDING IN LOCATIONS APPROVED BY THE HEALTH AND BUILDING SERVICES MANAGER. CONSULTATION SHALL TAKE PLACE WITH THE HEALTH AND BUILDING SURVEYOR AND APPROVAL OBTAINED PRIOR TO THE INSTALLATION OF ANY FITTINGS.

186. EMERGENCY LIGHTING SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF CLAUSE 55.12 OF ORDINANCE 70.
CONSULTATION SHALL TAKE PLACE WITH THE H/B SURVEYOR AND APPROVAL SHALL BE OBTAINED PRIOR TO THE INSTALLATION OF ANY FITTINGS.

202. ALL REQUIRED EXIT DOORS OR DOORS FORMING PART OF A REQUIRED EXIT SHALL BE READILY OPENABLE WITHOUT A KEY AND BY A SINGLE HANDED ACTION FROM THE SIDE THAT WOULD FACE ANY PERSON SEEKING EGRESS FROM THE BUILDING.

242. ALL SOUND PRODUCING PLANT, MACHINERY, OR FITTINGS SHALL BE SOUND INSULATED AND/OR ISOLATED SO AS TO CONTROL EMISSION OF NOISE FROM THE PREMISES, WITHIN THE LIMITS PRESCRIBED UNDER THE NOISE CONTROL ACT, 1975 AND REGULATIONS.

246. MECHANICAL VENTILATION OR AIR CONDITIONING SYSTEMS SHALL BE DESIGNED IN ACCORDANCE WITH THE RELEVANT AUSTRALIAN STANDARD FOR VENTILATION REQUIREMENTS. FULL DETAILS AND DESIGN CRITERIA SHALL BE SUBMITTED TO THE H/B SERVICES MANAGER FOR APPROVAL PRIOR TO INSTALLATION.

262. THE ERECTION OF ANY ADVERTISING STRUCTURE OR DISPLAY OF ANY SIGN

CONTINUED....

# PENRITH CITY COUNCIL

Council Chambers, Station Street, Penrith, N.S.W. 2750 Telephone: (047) 32 7777 (C.D.E. 8017, Penrith)

APPLICATION NO: 024715 PERMIT NO: 024715 FOLIO NO: 3

IS NOT PERMITTED WITHOUT THE PRIOR APPROVAL OF COUNCIL.

294. "GLAZING MATERIALS USED IN THE BUILDING SHALL BE SELECTED AND INSTALLED IN ACCORDANCE WITH THE RELEVANT REQUIREMENTS OF PART 53 OF ORDINANCE 70, AS 1288 "SAA. GLASS INSTALLATION CODE" AND AS 2208 "SAFETY GLAZING MATERIALS FOR USE IN BUILDINGS (HUMAN IMPACT CONSIDERATIONS)". A CERTIFICATE STATING THAT GLASS HAS BEEN INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF AS 1288 "SAA GLASS INSTALLATION CODE" SHALL BE SUBMITTED TO COUNCIL BY THE GLAZING INSTALLATION CONTRACTOR PRIOR TO OCCUPATION OF THE BUILDING OR ISSUE OF CERTIFICATE OF COMPLIANCE, WHICH EVER OCCURS FIRST.

314. OPENINGS FOR METAL PIPES, METAL CONDUITS OR THE LIKE PASSING THROUGH WALLS, FLOORS OR CEILINGS REQUIRED TO HAVE A FIRE RESISTANCE RATING OR RESISTANCE TO THE INCIPIENT SPREAD OF FIRE SHALL BE NO LARGER THAN IS NECESSARY TO PERMIT THEIR INSTALLATION ALL GAPS AROUND SERVICE PIPES SHALL BE PACKED OR OTHERWISE TREATED TO THE FULL THICKNESS OF THE WALL, FLOOR OR CEILING SO THAT THE FIRE RESISTING PERFORMANCE WILL NOT BE IMPAIRED.

524. COUNCIL SHALL BE NOTIFIED FOR INSPECTION ON COMPLETION OF WORK AND PRIOR TO THE PREMISES BEING OPENED FOR BUSINESS.

526. THE PROPOSED ADDITION/NEW BUILDING SHALL COMPLY WITH PART 59 OF ORDINANCE 70 WITH REGARD TO THE FOLLOWING ESSENTIAL SERVICES CIRCLED:-

| ESSENTIAL SERVICES | MINIMUM MAINTENANCE STANDARD |
|---|---|
| (I) ACCESS PANELS (AS REQUIRED BY CLAUSE 22.12) | AS1851 - PART 7 - 1984 "MAINTENANCE OF FIRE PROTECTION EQUIPMENT - FIRE RESISTANT DOOR SETS" |
| (II) AUTOMATIC SPRINKLER SYSTEMS (AS REQUIRED BY CLAUSE 19.2, 19.4, 22.4, 23.1, 24.12, 27.4, 55.17, OR 60.3) | AS1851 - PART 3 - 1985 "MAINTENANCE OF FIRE PROTECTION EQUIPMENT - AUTOMATIC FIRE SPRINKLER SYSTEMS" |
| DRENCHER SYSTEMS (AS REQUIRED BY CLAUSE 22.4 OR 23.1) | AS1851 - PART 3 - 1985 "MAINTENANCE OF FIRE PROTECTION EQUIPMENT - AUTOMATIC FIRE SPRINKLER SYSTEMS" |
| (III) EMERGENCY LIFTS (AS REQUIRED BY CLAUSE 55.9) | AS1735-1975 "SAA LIFT CODE" |
| (IV)EMERGENCY LIGHTING (AS REQUIRED BY CLAUSE 55.12) | AS2293.2-1987 "EMERGENCY EVACUATION LIGHTING IN BUILDINGS - INSPECTION & MAINTENANCE" |
| (V) EMERGENCY POWER SUPPLY AS REQUIRED BY CLAUSE 55.15) | AS3009-1985 ELECTRIC INSTALLATIONS - "EMERGENCY POWER SUPPLIES IN HOSPITALS" |
| (VI) EMERGENCY WARNING AND INTERCOMMUNICATION SYSTEM (AS REQUIRED BY CLAUSE 55.16 OR 60.10) | AS2220-1978 RULES FOR EMERGENCY WARNING AND INTERCOMMUNICATION SYSTEMS FOR BUILDINGS |
| (VII) EXIT SIGNS (AS REQUIRED BY CLAUSE 24.29 | AS2293.2-1987 "EMERGENCY EVACUATION LIGHTING IN BUILDINGS - INSPECTION AND MAINTENANCE" |
| (VIII) FIRE ALARM SYSTEMS | AS1851 - PART 8 1987 "MAINTENANCE OF |

CONTINUED....

# PENRITH CITY COUNCIL

Council Chambers, Station Street, Penrith, N.S.W. 2750 Telephone: (047) 32 7777 (C.D.E. 8017, Penrith)

APPLICATION NO: 024715 PERMIT NO: 024715 FOLIO NO: 4

| | |
|---|---|
| (AS REQUIRED BY CLAUSE 27.4) | FIRE PROTECTION EQUIPMENT - AUTOMATIC FIRE DETECTION AND ALARM SYSTEMS" |
| (IX) FIRE DAMPERS (AS REQUIRED BY CLAUSE 22.13) | AS1851 - PART 6 - 1983 "MAINTENANCE OF FIRE PROTECTION EQUIPMENT - MANAGEMENT PROCEDURES FOR MAINTAINING THE FIRE PRECAUTION FEATURES OF AIR - HANDLING SYSTEMS" |
| (X) FIRE DOORS(AS REQUIRED BY CLAUSE 22.4,22.6, 22.7, 22.8, 22.9, 22.10, 22.11, 22.12, 23.6, 24.11, 55.5 OR 60.4) | AS1851 - PART 7 - 1984 "MAINTENANCE OF FIRE PROTECTION EQUIPMENT - FIRE RESISTANT DOOR SETS" |
| (XI) FIRE MAINS (AS REQUIRED BY CLAUSE 27.1) | AS1851 - PART 4 - 1988 "MAINTENANCE OF FIRE PROTECTION EQUIPMENT - FIRE HYDRANT INSTALLATIONS" |
| (XII) FIRE SHUTTERS (AS REQUIRED BY CLAUSE 22.4, 22.6, 23.1 OR 24.11) | NFPA - NATIONAL FIRE CODE 80, STANDARD FOR FIRE DOORS AND WINDOWS" PARTICULARLY CHAPTER 14 "CARE AND MAINTENANCE" |
| (XIII) FIRE WINDOWS (AS REQUIRED BY CLAUSE 22.4, 23.1) | NFPA - NATIONAL FIRE CODE 80, "STANDARD FOR FIRE DOORS AND WINDOWS" PARTICULARLY CHAPTER 14 "CARE AND MAINTENANCE" |
| (XIV) HOSE REELS (AS REQUIRED BY CLAUSE 27.2) | AS1851 - PART 2 1981 "MAINTENANCE OF FIRE PROTECTION EQUIPMENT - FIRE HOSE REELS" |
| (XV) HYDRANTS (AS REQUIRED BY CLAUSE 27.3) | AS1851 - PART 4 - 1980 "MAINTENANCE OF FIRE PROTECTION EQUIPMENT - FIRE HYDRANT INSTALLATION" |
| (XVI) MECHANICAL SMOKE EXHAUST SYSTEMS (AS REQUIRED BY CLAUSE 60.9) | AS1851 - PART 6 - 1983 "MAINTENANCE OF FIRE PROTECTION EQUIPMENT - MANAGEMENT PROCEDURES FOR MAINTAINING THE FIRE PRECAUTION FEATURES OF AIRHANDLING SYSTEMS" |
| (XVII) MECHANICAL VENTILATION AND AIR-CONDITIONING SYSTEMS (AS REQUIRED BY CLAUSE 50.12 OR 55.17) | AS1851 - PART 6 - 1983 "MAINTENANCE OF FIRE PROTECTION EQUIPMENT - MANAGEMENT PROCEDURES FOR MAINTAINING THE FIRE PRECAUTION FEATURES OF AIRHANDLING SYSTEMS" |
| (XVIII) NON-COMBUSTIBLE ROLLER SHUTTERS (AS REQUIRED BY CLAUSE 22.16) | NFPA - NATIONAL FIRE CODE 80, STANDARD FOR FIRE DOORS & WINDOWS" PARTICULARLY CHAPTER 14 "CARE AND MAINTENANCE" |
| (XIX) PORTABLE FIRE EXTINGUISHERS (AS REQUIRED BY CLAUSE 27.4.1) | AS1851 - PART 1 - 1985 "MAINTENANCE OF FIRE PROTECTION EQUIPMENT - PORTABLE FIRE EXTINGUISHERS" |
| (XX) PRESSURISING SYSTEMS (AS REQUIRED BY CLAUSE 21.3) | AS1851 - PART 6 - 1983 "MAINTENANCE OF FIRE PROTECTION EQUIPMENT - MANAGEMENT PROCEDURES FOR MAINTAINING THE FIRE PRECAUTION FEATURES OF AIRHANDLING SYSTEMS" |

CONTINUED....

**PENRITH CITY COUNCIL**

Council Chambers, Station Street, Penrith, N.S.W. 2750 Telephone: (047) 32 7777 (C.D.E. 8017, Penrith)

APPLICATION NO: 024715 PERMIT NO: 024715 FOLIO NO: 5

| | |
|---|---|
| (XXI) SMOKE DOORS (AS REQUIRED BY CLAUSE 21.3) | AS1851 - PART 7 1984 "MAINTENANCE OF FIRE PROTECTION EQUIPMENT - FIRE RESISTANT DOOR SETS" |
| (XXII) SOLID-CORE DOORS (AS REQUIRED BY CLAUSE 22.9, 22.10 OR 22.16) | AS1851 - PART 7 - 1984 "MAINTENANCE OF FIRE PROTECTION EQUIPMENT - FIRE RESISTANT DOOR SETS" |
| (XXIII) VENTS (AS REQUIRED BY CLAUSE 19.3, 19.4, 19.7 OR 60.9) | AS1851 - PART 5 - 1981 "MAINTENANCE OF FIRE PROTECTION EQUIPMENT - AUTOMATIC SMOKE/HEAT VENTING SYSTEMS" |

NOTE: WHERE IT IS PROPOSED TO ALTER OR EXTEND AN EXISTING BUILDING THE SPECIFIED MAINTENANCE STANDARD APPLIES TO THE SERVICES INSTALLED IN BOTH THE EXISTING BUILDING AND IN THE ALTERATION/EXTENSION.

528. ON COMPLETION OF THE ERECTION OF THE PROPOSED BUILDING WORK, THE OWNER OF THE BUILDING SHALL PROVIDE COUNCIL WITH A CERTIFICATE FROM A COMPETENT PERSON WITH RESPECT TO EACH ESSENTIAL SERVICE INSTALLED IN THE BUILDING. THIS CERTIFICATE SHALL BE IN THE EFFECT OF FORM 6 OF PART 59 OF ORDINANCE 70.

530. THIS BUILDING SHALL NOT BE USED OR OCCUPIED UNTIL A CERTIFICATE OF CLASSIFICATION IS ISSUED BY COUNCIL.

532. AT LEAST ONCE IN EACH PERIOD OF TWELVE MONTHS AFTER A CERTIFICATE IS REQUIRED TO HAVE BEEN FURNISHED TO COUNCIL IN RESPECT OF A BUILDING, THE OWNER OF THE BUILDING SHALL PROVIDE COUNCIL WITH A FURTHER CERTIFICATE WITH RESPECT TO EACH ESSENTIAL SERVICE INSTALLED IN THE BUILDING. THE CERTIFICATE SHALL BE IN THE EFFECT OF FORM 7 OF PART 59 OF ORDINANCE 70.

820. SEPARATE APPLICATION IS TO BE MADE FOR ALL ADVERTISING MATERIAL.

REQUIREMENTS OF OTHER AUTHORITIES

VEHICULAR DRIVEWAYS ARE NOT TO BE PLACED WITHIN 1 METRE OF A BOUNDARY ON WHICH IS LOCATED AN ELECTRICITY PILLAR. FURTHER DETAILS ARE AVAILABLE FROM PROSPECT ELECTRICITY.

901. WARNING: THESE BUILDING PLANS MUST BE SUBMITTED TO ANY BUSINESS OFFICE OF THE METROPOLITAN WATER, SEWERAGE AND DRAINAGE BOARD, AT LEAST 14 DAYS BEFORE COMMENCEMENT OF WORK.
THE PLANS AND A BUILDING APPLICATION FORM, AVAILABLE AT BUSINESS OFFICES, NEED TO BE SUBMITTED TO ENSURE THAT THE PROPOSED STRUCTURE MEETS THE REQUIREMENTS OF THE BOARD'S BY-LAWS CONCERNING:-
1) LOCATION OF SANITARY FIXTURES,
2) RELATIONSHIP OF THE BUILDING TO WATER MAINS, SEWERS AND STORMWATER CHANNELS,

AND FOR VALUING PURPOSES IN CONNECTION WITH SECTION 97 (4) AND (7) OF THE BOARD'S ACT, AND FOR THE CALCULATION OF A BUILDING FEE IN ACCORDANCE WITH BY-LAW 7 (1) (A) OF THE BOARD'S ACT.
FAILURE TO SUBMIT THESE PLANS BEFORE COMMENCEMENT OF WORK WILL RENDER THE OWNER LIABLE TO A PENALTY AND MAY RESULT IN THE DEMOLITION OF THE WORK AT THE BUILDER'S EXPENSE.

CONTINUED....

# PENRITH CITY COUNCIL

Council Chambers, Station Street, Penrith, N.S.W. 2750 Telephone: (047) 32 7777 (C.D.E. 8017, Penrith)

APPLICATION NO: 024715 PERMIT NO: 024715 FOLIO NO: 6

BUSINESS OFFICES ARE LOCATED AT:-

| | | | |
|---|---|---|---|
| BLACKTOWN | 22 MAIN ST. | ROCKDALE | 564 PRINCESS HWAY. |
| CAMPBELLTOWN | 106 QUEEN ST. | LIVERPOOL | CNR BIGGE & MOORE STS. |
| CHATSWOOD | 66-70 ARCHER ST. | MIRANDA | 69-73 KIORA RD. |
| DEE WHY | 687 PITTWATER RD. | PARRAMATTA | 136 CHURCH ST. |
| FAIRFIELD | 51 SMART ST. | PENRITH | 140-142 HENRY ST. |
| HORNSBY | CNR EDGEWORTH DAVID AVE. & HUNTER ST. | SYDNEY | 115-123 BATHURST ST. |
| | | WOLLONGONG | 406 COOMBE ST. |
| KATOOMBA | 103 KATOOMBA ST. | CONISTON | OLD SPRINGHILL RD. |

904. PROSPECT ELECTRICITY REQUIREMENTS ARE TO BE SOUGHT PRIOR TO COMMENCEMENT OF WORK IN RESPECT TO:- I) UNIMPEDED ACCESS AT ALL TIMES TO METER AND METERING EQUIPMENT; II) ANY CONSTRUCTION ADJACENT TO ANY ELECTRICAL EASEMENT; III) INSTALLATION OF ANY METALLIC OR CONDUCTIVE FENCING OR STRUCTURE WITHIN A FOUR METRE RADIUS (MEASURED FROM EXTREMITIES OF A PADMOUNTED SUBSTATION); IV) INSTALLATION OF CONDUITS ACROSS FOOTPATH APRON.

# PENRITH CITY COUNCIL

Council Chambers, Station Street, Penrith, N.S.W. 2750 Telephone: **(047)** 32 7777 (DX 8017, Penrith)

YOUR REF:

OUR REF: 1351894
CONTACT: MR WRF 3275291

BUILDING PERMIT

PERMIT NO: 1351894

ISSUED TO: E FRASER C/-SHK ARCHITECT(NSW) PTY LTD
157-159 HARRIS STREET
PYRMONT 2009

IN RESPECT OF:

LOT NO: 1/UNIT 2 D.P.: 771927 HOUSE NO: 6000 STREET: HENRY
LOCALITY: PENRITH

<---OWNER'S NAME AND ADDRESS--->
S.I.D. PROPERTY INVEST
111 ELIZABETH STREET
SYDNEY 2000

<---BUILDER'S NAME AND ADDRESS--->
TBA
0000

APPROVED SUBJECT TO COMPLIANCE WITH THE LOCAL GOVERNMENT ACT, RELEVANT ORDINANCES ISSUED THEREUNDER AND CONDITIONS NUMBERED: 14, 16, 18, 20, 175, 184, 186, 194, 202, 206, 235, 262, 274, 296, 302, 314, 526, 528, 542, 551, 552, 553, 800, 818, 820, 903

HEREUNDER FOR THE ERECTION OF

A OTHER/OTHER/ FOR THE VALUE OF $500000.

THIS APPROVAL LAPSES ON THE EXPIRATION OF 12 MONTHS AFTER THE DATE HEREOF.

ATTENTION IS DRAWN TO THE PROVISIONS OF SECTION/S 317A, (AND 288C IN RESPECT TO FENCING OF SWIMMING POOLS) OF THE LOCAL GOVERNMENT ACT, 1919, AS AMENDED, GIVING A RIGHT OF APPEAL AGAINST THE DECISION OF COUNCIL. APPEAL FORMS ARE AVAILABLE AT COUNCIL'S OFFICE.

DATE: 27/2/92 SIGNED: S Bennett
(HEALTH AND BUILDING SERVICES MANAGER)

DATE: 3/3/92 SIGNED: A.W Johnson.
(PERSON GRANTING PLANS)

CONDITIONS: * Conditions 552 & 553 were complied with at the stage i.e. 28-4-92

14. THAT 48 HOURS' NOTICE IN WRITING BE GIVEN TO COUNCIL 15-4-93 IN RESPECT OF:
(A) OF TRENCHES BEFORE FOOTINGS ARE LAID;
(B) OF FOOTINGS BEFORE TRENCHES ARE FILLED;
(C) WHEN THE BUILDING HAS BEEN ERECTED TO FLOOR LEVEL AND DAMPCOURSES ARE LAID;
(D) OF FLASHING AND DAMP-PROOFING OF WET AREAS (VIZ. BATHROOMS, LAUNDRIES, ENSUITES AND W.C.) PRIOR TO CLADDING.

CONTINUED/...

PENRITH CITY COUNCIL
Council Chambers, Station Street, Penrith, N.S.W. 2750 Telephone: (047) 32 7777 (DX 8017, Penrith)

APPLICATION NO: 031894 PERMIT NO: 031894 FOLIO NO: 2

(E) WHEN STEEL FOR REINFORCED STRUCTURAL CONCRETE WORK IS IN POSITION PRIOR TO POURING OF CONCRETE;
(F) WHEN THE BUILDING HAS BEEN ERECTED TO ROOF FRAMING;
(G) OF DRAINS BEFORE THEY ARE COVERED IN; AND
(H) WHEN THE BUILDING IS COMPLETED AND READY FOR OCCUPATION.

16. BUILDING SHALL NOT BE USED OR OCCUPIED UNTIL APPROVAL IS GRANTED BY COUNCIL.

18. STAMPED PLANS, SPECIFICATION AND PERMIT SHALL BE KEPT ON SITE AT ALL TIMES.

20. APPROVED IN COMPLIANCE WITH THE CONDITIONS OF THE WATER BOARD

175. (A) PORTABLE FIRE EXTINGUISHERS, HAVING AT LEAST THE PROTECTION EFFECTIVENESS OF A 5.5KG CARBON DIOXIDE EXTINGUISHER SHALL BE INSTALLED WITHIN THE BUILDING IN ACCORDANCE WITH THE REQUIREMENTS OF PART 24 OF ORDINANCE 70. IT WILL BE NECESSARY FOR THE APPLICANT TO CONSULT WITH THE HEALTH AND BUILDING DEPARTMENT TO DETERMINE THE LOCATION OF THE EXTINGUISHERS.
(B) FIRE BLANKETS SHALL BE PROVIDED IN COMMERCIAL KITCHENS, OR OTHER AREAS WHERE SMALL COOKING FIRES ARE LIKELY. THE BLANKETS SHALL COMPLY WITH THE REQUIREMENTS OF AS3504-1987 "FIRE BLANKETS".

184. ILLUMINATED EXIT SIGNS AND DIRECTIONAL SIGNS COMPLYING WITH THE RELEVANT PROVISIONS OF PART 24 AND PART 55 OF ORDINANCE 70 SHALL BE INSTALLED THROUGHOUT THE BUILDING IN LOCATIONS APPROVED BY THE HEALTH AND BUILDING SERVICES MANAGER. CONSULTATION SHALL TAKE PLACE WITH THE HEALTH AND BUILDING SURVEYOR AND APPROVAL OBTAINED PRIOR TO THE INSTALLATION OF ANY FITTINGS.

186. EMERGENCY LIGHTING SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF CLAUSE 55.12 OF ORDINANCE 70.
CONSULTATION SHALL TAKE PLACE WITH THE H/B SURVEYOR AND APPROVAL SHALL BE OBTAINED PRIOR TO THE INSTALLATION OF ANY FITTINGS.

194. THE SMOKE DEVELOPED, SPREAD OF FLAME AND FLAMMABILITY INDEXES OF THE SARKING AND BUILDING MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE RELEVANT CLAUSES OF PART 16 OF ORDINANCE 70. DETAILS OF THE EARLY FIRE HAZARD PROPERTIES OF THE SARKING AND BUILDING MATERIALS SHALL BE SUBMITTED TO THE H/B SERVICES MANAGER FOR CONSIDERATION & APPROVAL PRIOR TO INSTALLATION OF THE MATERIALS.

202. ALL REQUIRED EXIT DOORS OR DOORS FORMING PART OF A REQUIRED EXIT SHALL BE READILY OPENABLE WITHOUT A KEY AND BY A SINGLE HANDED ACTION FROM THE SIDE THAT WOULD FACE ANY PERSON SEEKING EGRESS FROM THE BUILDING.

206. ANY REQUIRED EXIT DOOR THAT SWINGS AGAINST THE DIRECTION OF EGRESS SHALL BE FITTED WITH AN APPROVED MEANS OF FIXING IT IN THE FULLY OPEN POSITION.

235. REQUIRED DOORWAYS SHALL HAVE CLEAR OPENING OF NOT LESS THAN 1980MM IN

CONTINUED....

PENRITH CITY COUNCIL
Council Chambers, Station Street, Penrith, N.S.W. 2750 Telephone: (047) 32 7777 (DX 8017, Penrith)

APPLICATION NO: 031896 PERMIT NO: 031894 FOLIO NO: 3

HEIGHT AND 750MM IN WIDTH, EVERY EXIT AND PATH OF TRAVEL TO AN EXIT SHALL, EXCEPT FOR DOORWAYS, HAVE A MINIMUM UNOBSTRUCTED VERTICAL CLEARANCE THROUGHOUT OF 2030MM AND A MINIMUM UNOBSTRUCTED WIDTH THROUGHOUT OF 1000MM.

262. THE ERECTION OF ANY ADVERTISING STRUCTURE OR DISPLAY OF ANY SIGN IS NOT PERMITTED WITHOUT THE PRIOR APPROVAL OF COUNCIL.

276. THE APPLICANT SHOULD CONSULT WITH THE DEPARTMENT OF INDUSTRIAL RELATIONS AND EMPLOYMENT, CONCERNING ANY REQUIREMENTS THAT AUTHORITY MAY WISH TO IMPOSE.

294. "GLAZING MATERIALS USED IN THE BUILDING SHALL BE SELECTED AND INSTALLED IN ACCORDANCE WITH THE RELEVANT REQUIREMENTS OF PART 53 OF ORDINANCE 70, AS 1288 "SAA GLASS INSTALLATION CODE" AND AS 2208 "SAFETY GLAZING MATERIALS FOR USE IN BUILDINGS (HUMAN IMPACT CONSIDERATIONS)". A CERTIFICATE STATING THAT GLASS HAS BEEN INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF AS 1288 "SAA GLASS INSTALLATION CODE" SHALL BE SUBMITTED TO COUNCIL BY THE GLAZING INSTALLATION CONTRACTOR PRIOR TO OCCUPATION OF THE BUILDING OR ISSUE OF CERTIFICATE OF COMPLIANCE, WHICH EVER OCCURS FIRST.

302. PARTITIONING WHICH IS NOT A PART OF THIS APPLICATION SHALL NOT BE CONSTRUCTED WITHOUT PRIOR APPROVAL FIRST BEING OBTAINED FROM THE M/S SERVICES MANAGER.

314. OPENINGS FOR METAL PIPES, METAL CONDUITS OR THE LIKE PASSING THROUGH WALLS, FLOORS OR CEILINGS REQUIRED TO HAVE A FIRE RESISTANCE RATING OR RESISTANCE TO THE INCIPIENT SPREAD OF FIRE SHALL BE NO LARGER THAN IS NECESSARY TO PERMIT THEIR INSTALLATION ALL GAPS AROUND SERVICES PIPES SHALL BE PACKED OR OTHERWISE TREATED TO THE FULL THICKNESS OF THE WALL, FLOOR OR CEILING SO THAT THE FIRE RESISTING PERFORMANCE WILL NOT BE IMPAIRED.

526. THE PROPOSED ADDITION/NEW BUILDING SHALL COMPLY WITH PART 59 OF ORDINANCE 70 WITH REGARD TO THE FOLLOWING ESSENTIAL SERVICES CIRCLED:-

| ESSENTIAL SERVICES | MINIMUM MAINTENANCE STANDARD |
|---|---|
| (i) ACCESS PANELS (AS REQUIRED BY CLAUSE 22.12) | AS1851 - PART 7 - 1984 "MAINTENANCE OF FIRE PROTECTION EQUIPMENT - FIRE RESISTANT DOOR SETS" |
| (ii) AUTOMATIC SPRINKLER SYSTEMS (AS REQUIRED BY CLAUSE 19.2, 19.4, 22.4, 23.1, 24.12, 27.4, 55.17, OR 60.3) | AS1851 - PART 3 - 1985 "MAINTENANCE OF FIRE PROTECTION EQUIPMENT - AUTOMATIC FIRE SPRINKLER SYSTEMS" |
| DRENCHER SYSTEMS (AS REQUIRED BY CLAUSE 22.4 OR 23.1). | AS1851 - PART 3 - 1985 "MAINTENANCE OF FIRE PROTECTION EQUIPMENT - AUTOMATIC FIRE SPRINKLER SYSTEMS" |
| (iii) EMERGENCY LIFTS (AS REQUIRED BY CLAUSE 55.9) | AS1735-1975 "SAA LIFT CODE" |
| EMERGENCY LIGHTING | AS2293.2-1987 "EMERGENCY EVACUATION |

CONTINUED...

PENRITH CITY COUNCIL
Council Chambers, Station Street, Penrith, N.S.W. 2750 Telephone: (047) 32 7777 (DX 8017, Penrith)

APPLICATION NO: 031894 PERMIT NO: 031894 FOLIO NO: 6

| | |
|---|---|
| (AS REQUIRED BY CLAUSE 55.12) | LIGHTING IN BUILDINGS - INSPECTION & MAINTENANCE" |
| (V) EMERGENCY POWER SUPPLY (AS REQUIRED BY CLAUSE 55.15) | AS3009-1985 ELECTRIC INSTALLATIONS - "EMERGENCY POWER SUPPLIES IN HOSPITALS" |
| (VI) EMERGENCY WARNING AND INTERCOMMUNICATION SYSTEM (AS REQUIRED BY CLAUSE 55.16 OR 60.10) | AS2220-1978 RULES FOR EMERGENCY WARNING AND INTERCOMMUNICATION SYSTEMS FOR BUILDINGS |
| (VII) EXIT SIGNS (AS REQUIRED BY CLAUSE 24.29 | AS2293.2-1987 "EMERGENCY EVACUATION LIGHTING IN BUILDINGS - INSPECTION AND MAINTENANCE" |
| (VIII) FIRE ALARM SYSTEMS (AS REQUIRED BY CLAUSE 27.4) | AS1851 - PART 8 1987 "MAINTENANCE OF FIRE PROTECTION EQUIPMENT - AUTOMATIC FIRE DETECTION AND ALARM SYSTEMS" |
| (IX) FIRE DAMPERS (AS REQUIRED BY CLAUSE 22.13) | AS1851 - PART 6 - 1985 "MAINTENANCE OF FIRE PROTECTION EQUIPMENT - MANAGEMENT PROCEDURES FOR MAINTAINING THE FIRE PRECAUTION FEATURES OF AIR-HANDLING SYSTEMS" |
| (X) FIRE DOORS (AS REQUIRED BY CLAUSE 22.4, 22.5, 22.7, 22.8, 22.9, 22.10, 22.11, 22.12, 23.6, 24.11, 55.5 OR 60.4) | AS1851 - PART 7 - 1986 "MAINTENANCE OF FIRE PROTECTION EQUIPMEN" - FIRE RESISTANT DOOR SETS" |
| (XI) FIRE MAINS (AS REQUIRED BY CLAUSE 27.1) | AS1851 - PART 4 - 1988 "MAINTENANCE OF FIRE PROTECTION EQUIPMEN" - FIRE HYDRANT INSTALLATIONS" |
| (XII) FIRE SHUTTERS (AS REQUIRED BY CLAUSE 22.4, 22.6, 23.1 OR 24.11) | NFPA - NATIONAL FIRE CODE 80, STANDARD FOR FIRE DOORS AND WINDOWS PARTICULARLY CHAPTER 14 "CARE AND MAINTENANCE" |
| (XIII) FIRE WINDOWS (AS REQUIRED BY CLAUSE 22.4, 23.1) | NFPA - NATIONAL FIRE CODE 80, "STANDARD FOR FIRE DOORS AND WINDOWS" PARTICULARLY CHAPTER 14 "CARE AND MAINTENANCE" |
| (XIV) HOSE REELS (AS REQUIRED BY CLAUSE 27.2) | AS1851 - PART 2 1981 "MAINTENANCE OF FIRE PROTECTION EQUIPMENT - FIRE HOSE REELS" |
| (XV) HYDRANTS (AS REQUIRED BY CLAUSE 27.3) | AS1851 - PART 4 - 1980 "MAINTENANCE OF FIRE PROTECTION EQUIPMENT - FIRE HYDRANT INSTALLATION" |
| (XVI) MECHANICAL SMOKE EXHAUST SYSTEMS (AS REQUIRED BY CLAUSE 60.9) | AS1851 - PART 6 - 1985 "MAINTENANCE OF FIRE PROTECTION EQUIPMENT - MANAGEMENT PROCEDURES FOR MAINTAINING THE FIRE PRECAUTION FEATURES OF AIRHANDLING SYSTEMS" |
| (XVII) MECHANICAL VENTILATION AND AIR-CONDITIONING SYSTEMS (AS REQUIRED BY CLAUSE 50.12 OR 55.17) | AS1851 - PART 6 - 1985 "MAINTENANCE OF FIRE PROTECTION EQUIPMENT - MANAGEMENT PROCEDURES FOR MAINTAINING THE FIRE PRECAUTION FEATURES OF AIRHANDLING SYSTEMS" |

CONTINUED/...

**PENRITH CITY COUNCIL**

Council Chambers, Station Street, Penrith, N.S.W. 2750 Telephone: **(047)** 32 7777 (DX 8017, Penrith)

APPLICATION NO: 031894 PERMIT NO: 031894 FOLIO NO: 5

| | |
|---|---|
| (XVIII) NON-COMBUSTIBLE ROLLER SHUTTERS (AS REQUIRED BY CLAUSE 22.16) | NFPA - NATIONAL FIRE CODE 80, STANDARD FOR FIRE DOORS & WINDOWS" PARTICULARLY CHAPTER 14 "CARE AND MAINTENANCE" |
| (XIX) PORTABLE FIRE EXTINGUISHERS (AS REQUIRED BY CLAUSE 27.4.1) | AS1851 - PART 1 - 1985 "MAINTENANCE OF FIRE PROTECTION EQUIPMENT - PORTABLE FIRE EXTINGUISHERS" |
| (XX) PRESSURISING SYSTEMS (AS REQUIRED BY CLAUSE 21.3) | AS1851 - PART 6 - 1983 "MAINTENANCE OF FIRE PROTECTION EQUIPMENT - MANAGEMENT PROCEDURES FOR MAINTAINING THE FIRE PRECAUTION FEATURES OF AIRHANDLING SYSTEMS" |
| (XXI) SMOKE DOORS (AS REQUIRED BY CLAUSE 21.8) | AS1851 - PART 7 1984 "MAINTENANCE OF FIRE PROTECTION EQUIPMENT - FIRE RESISTANT DOOR SETS" |
| (XXII) SOLID-CORE DOORS (AS REQUIRED BY CLAUSE 22.9, 22.10 OR 22.16) | AS1851 - PART 7 - 1984 "MAINTENANCE OF FIRE PROTECTION EQUIPMENT - FIRE RESISTANT DOOR SETS" |
| (XXIII) VENTS (AS REQUIRED BY CLAUSE 19.3, 19.4, 19.7 OR 60.9) | AS1851 - PART 5 - 1981 "MAINTENANCE OF FIRE PROTECTION EQUIPMENT - AUTOMATIC SMOKE/HEAT VENTING SYSTEMS" |

NOTE: WHERE IT IS PROPOSED TO ALTER OR EXTEND AN EXISTING BUILDING THE SPECIFIED MAINTENANCE STANDARD APPLIES TO THE SERVICES INSTALLED IN BOTH THE EXISTING BUILDING AND IN THE ALTERATION/EXTENSION.

528. ON COMPLETION OF THE ERECTION OF THE PROPOSED BUILDING WORK, THE OWNER OF THE BUILDING SHALL PROVIDE COUNCIL WITH A CERTIFICATE FROM A COMPETENT PERSON WITH RESPECT TO EACH ESSENTIAL SERVICE INSTALLED IN THE BUILDING. THIS CERTIFICATE SHALL BE IN THE EFFECT OF FORM 6 OF PART 59 OF ORDINANCE 70.

582. AT LEAST ONCE IN EACH PERIOD OF TWELVE MONTHS AFTER A CERTIFICATE IS REQUIRED TO HAVE BEEN FURNISHED TO COUNCIL IN RESPECT OF A BUILDING, THE OWNER OF THE BUILDING SHALL PROVIDE COUNCIL WITH A FURTHER CERTIFICATE WITH RESPECT TO EACH ESSENTIAL SERVICE INSTALLED IN THE BUILDING. THE CERTIFICATE SHALL BE IN THE EFFECT OF FORM 7 OF PART 59 OF ORDINANCE 70.

551. THE EXISTING HYDRANTS AND HOSE REELS ARE TO BE REPAIRED AND AN ORDIANCE 70 PART 59 "FORM 7" CERTIFICATE SHALL BE SUBMITTED TO COUNCIL.

562. ALL VOIDS BETWEEN THE FIRE WALL AND ROOFING SHALL BE COMPLETELY FILLED IN WITH A MATERIAL PROVIDING A FIRE RATING OF AT LEAST 3 HOURS. AN INSPECTION SHALL BE ARRANGED PRIOR TO CONCEALMENT OF THE TREATMENT.

553. ALL COLUMNS AND BEAMS SUPPORTING THE FIRE WALL SHALL BE TREATED OR PROTECTED BY A SYSTEM PROVIDING A FIRE RATING OF ATLEAST 3 HOURS. FULL DETAILS OF THIS SYSTEM IS TO BE SUBMITTED TO COUNCIL FOR CONSIDERATION AND APPROVAL PRIOR TO ITS INSTALLATION.

800. ALL ALTERATIONS TO SERVICES AND MUNICIPAL FACILITIES AS NECESSITATED BY THE DEVELOPMENT SHALL BE THE RESPONSIBILITY OF THE APPLICANT.

CONTINUED...

PENRITH CITY COUNCIL
Council Chambers, Station Street, Penrith, N.S.W. 2750 Telephone: (047) 32 7777 (DX 8017, Penrith)

APPLICATION NO: 081896 PERMIT NO: 081896 FOLIO NO: 6

818. ALL MATERIALS AND GOODS ASSOCIATED WITH THE USE ARE TO BE CONTAINED WITHIN THE BUILDING AT ALL TIMES.

820. SEPARATE APPLICATION IS TO BE MADE FOR ALL ADVERTISING MATERIAL.

REQUIREMENTS OF OTHER AUTHORITIES

VEHICULAR DRIVEWAYS ARE NOT TO BE PLACED WITHIN 1 METRE OF A BOUNDARY ON WHICH IS LOCATED AN ELECTRICITY PILLAR. FURTHER DETAILS ARE AVAILABLE FROM PROSPECT ELECTRICITY.

901. WARNING: THESE BUILDING PLANS MUST BE SUBMITTED TO ANY BUSINESS OFFICE OF THE METROPOLITAN WATER, SEWERAGE AND DRAINAGE BOARD, AT LEAST 14 DAYS BEFORE COMMENCEMENT OF WORK.
THE PLANS AND A BUILDING APPLICATION FORM, AVAILABLE AT BUSINESS OFFICES, NEED TO BE SUBMITTED TO ENSURE THAT THE PROPOSED STRUCTURE MEETS THE REQUIREMENTS OF THE BOARD'S BY-LAWS CONCERNING:-
1) LOCATION OF SANITARY FIXTURES,
2) RELATIONSHIP OF THE BUILDING TO WATER MAINS, SEWERS AND STORMWATER CHANNELS,
AND FOR VALUING PURPOSES IN CONNECTION WITH SECTION 97 (4) AND (7) OF THE BOARD'S ACT, AND FOR THE CALCULATION OF A BUILDING FEE IN ACCORDANCE WITH BY-LAW 7 (2) (A) OF THE BOARD'S ACT.
FAILURE TO SUBMIT THESE PLANS BEFORE COMMENCEMENT OF WORK WILL RENDER THE OWNER LIABLE TO A PENALTY AND MAY RESULT IN THE DEMOLITION OF THE WORK AT THE BUILDER'S EXPENSE.

# PENRITH CITY COUNCIL

Council Chambers, Station Street, Penrith, N.S.W. 2750 Telephone: **(047)** 32 7777 (DX 8017, Penrith)

YOUR REF:

OUR REF: 92584

CONTACT: MR VRI 32 7532

BUILDING PERMIT

ISSUED TO: ZAVARELLA PTY LTD C/O A HARVEY NORMAN
233 PARRAMATTA ROAD
AUBURN 2144

IN RESPECT OF

LOT NO: 1 DP HOUSE NO: 2065 STREET: HENRY/LAWSON
LOCALITY: PENRITH

<----OWNER'S NAME AND ADDRESS----->
GOV. INSURANCE OFFICE NSW
18TH FLOOR, ST. JAMES CENTRE
111 ELIZABETH ST, SYDNEY 2000

<----BUILDER'S NAME AND ADDRESS----->
DAVIDARCHES
32 ANTOINE STREET
ST ALBANS 2156

APPROVED SUBJECT TO COMPLIANCE WITH THE LOCAL GOVERNMENT ACT, ALL BY-LAWS ORDINANCES ISSUED THEREUNDER AND CONDITIONS NUMBERED 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40,

# PENRITH CITY COUNCIL

Council Chambers, Station Street, Penrith, N.S.W. 2750 Telephone: **(047)** 32 7777 (DX 8017, Penrith)

APPLICATION NO: 032885 PERMIT NO: 032885 FOLIO NO: 2

(E) WHEN STEEL FOR REINFORCED STRUCTURAL CONCRETE WORK IS IN POSITION PRIOR TO POURING OF CONCRETE;
(F) WHEN THE BUILDING HAS BEEN ERECTED TO ROOF FRAMING;
(G) OF DRAINS BEFORE THEY ARE COVERED IN; AND
(H) WHEN THE BUILDING IS COMPLETED AND READY FOR OCCUPATION.

16. BUILDING SHALL NOT BE USED OR OCCUPIED UNTIL APPROVAL IS GRANTED BY COUNCIL.

18. STAMPED PLANS, SPECIFICATION AND PERMIT SHALL BE KEPT ON SITE AT ALL TIMES.

20. APPROVED IN COMPLIANCE WITH THE CONDITIONS OF THE WATER BOARD

What for? Water supply etc already supplied to bldg. [HRS just re-instated?

∴ not chased up.

22/1/93.

174. UNLESS OTHERWISE APPROVED, ALL HOSE REELS SHALL BE SITUATED WITHIN 3 METRES OF A DOOR GIVING EGRESS TO A ROAD OR OPEN SPACE, AND SHALL BE SITUATED SO THAT THE DISTANCE TO BE TRAVELLED TO THE NEAREST

175. (A) PORTABLE FIRE EXTINGUISHERS SHALL BE PROVIDED IN SUCH POSITIONS AS TO BE READILY ACCESSIBLE AND AVAILABLE FOR USE AND SHALL BE INSTALLED

(B. FIRE BLANKETS SHALL BE PROVIDED IN

184. ILLUMINATED EXIT SIGNS AND DIRECTIONAL SIGNS SHALL BE PROVIDED IN ACCORDANCE WITH THE REQUIREMENTS OF THE BUILDING CODE OF AUSTRALIA AND SHALL BE INSTALLED THROUGHOUT THE BUILDING IN SUCH A MANNER THAT NO POINT ON ANY FLOOR SHALL BE MORE THAN 20 METRES FROM THE NEAREST EXIT SIGN. THE SERVICES MANAGER SHALL BE CONSULTED AS TO THE LOCATION OF EXIT SIGNS AND BUILDING SURVEYOR AND APPROVAL OBTAINED PRIOR TO THE INSTALLATION OF ANY FITTINGS.

286. EMERGENCY LIGHTING SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE BUILDING CODE OF AUSTRALIA AND SHALL BE CONSULTATION WITH THE SERVICES MANAGER AND APPROVAL OBTAINED PRIOR TO THE INSTALLATION OF ANY FITTINGS.

196. THE SMOKE PRODUCED IN THE BURNING OF GARBAGE AND BUILDING MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH THE RELEVANT REQUIREMENTS OF THE CLEAN AIR ACT AND SHALL NOT CREATE A FIRE HAZARD. PROPER SUPERVISION AND CONTROL OF THE BURNING AND BUILDING MATERIALS SHALL BE

CONTINUED...

**PENRITH CITY COUNCIL**

Council Chambers, Station Street, Penrith, N.S.W. 2750 Telephone: **(047)** 32 7777 (DX 8017, Penrith)

APPLICATION NO: 032885 PERMIT NO: 032885 FOLIO NO: 3

SUBMITTED TO THE H/B SERVICES MANAGER FOR CONSIDERATION & APPROVAL PRIOR TO INSTALLATION OF THE MATERIALS.

202. ALL REQUIRED EXIT DOORS OR DOORS FORMING PART OF A REQUIRED EXIT SHALL BE READILY OPENABLE WITHOUT A KEY AND BY A SINGLE HANDED ACTION FROM THE SIDE THAT WOULD FACE ANY PERSON SEEKING EGRESS FROM THE BUILDING.

235. REQUIRED DOORWAYS SHALL HAVE CLEAR OPENING OF NOT LESS THAN 1980MM IN HEIGHT AND 750MM IN WIDTH. EVERY EXIT AND PATH OF TRAVEL TO AN EXIT SHALL, EXCEPT FOR DOORWAYS, HAVE A MINIMUM UNOBSTRUCTED VERTICAL CLEARANCE THROUGHOUT OF 2030MM AND A MINIMUM UNOBSTRUCTED WIDTH THROUGHOUT OF 1000MM.

274. THE APPLICANT SHOULD CONSULT WITH THE DEPARTMENT OF INDUSTRIAL RELATIONS AND EMPLOYMENT, CONCERNING ANY REQUIREMENTS THAT AUTHORITY MAY WISH TO IMPOSE.

294. GLAZING MATERIALS USED IN THE BUILDING SHALL BE SELECTED AND INSTALLED IN ACCORDANCE WITH THE RELEVANT REQUIREMENTS OF PART 38 OF ORDINANCE 70, AS 1288 "SAA GLASS INSTALLATION CODE" AND AS 2208 "SAFETY GLAZING MATERIALS FOR USE IN BUILDINGS (HUMAN IMPACT CONSIDERATIONS)". A CERTIFICATE STATING THAT GLASS HAS BEEN INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF AS 1288 "SAA GLASS INSTALLATION CODE" SHALL BE SUBMITTED TO COUNCIL BY THE GLAZING INSTALLATION CONTRACTOR PRIOR TO OCCUPATION OF THE BUILDING OR ISSUE OF CERTIFICATE OF COMPLIANCE, WHICH EVER OCCURS FIRST.

526. THE PROPOSED ADDITION/NEW BUILDING SHALL COMPLY WITH PART 80 OF ORDINANCE 70 WITH REGARD TO THE FOLLOWING ESSENTIAL SERVICES:-

(I) ACCESS PANELS (AS REQUIRED BY CLAUSE 22.12)

(II) AUTOMATIC SPRINKLER SYSTEMS (AS REQUIRED BY CLAUSE 22.4, 23.2, 24.2, 27.5, 57.4 OR 60.3)

DRENCHER SYSTEMS (AS REQUIRED BY CLAUSE 22.4 OR 23.2)

(III) EMERGENCY LIFTS (AS REQUIRED BY CLAUSE 55.9)

(IV) EMERGENCY LIGHTING (AS REQUIRED BY CLAUSE 55.20)

(V) EMERGENCY POWER SUPPLY (AS REQUIRED BY CLAUSE 55.21)

(VI) EMERGENCY WARNING AND INTERCOMMUNICATION SYSTEM (AS REQUIRED BY CLAUSE 55.16 OR 60.10)

(VII) EXIT SIGNS (AS REQUIRED BY

CONTINUED...

**PENRITH CITY COUNCIL**

Council Chambers, Station Street, Penrith, N.S.W. 2750 Telephone: **(047)** 32 7777 (DX 8017, Penrith)

APPLICATION NO: 032885 PERMIT NO: 032885 FOLIO NO: 4

CLAUSE 24.29

(VIII) FIRE ALARM SYSTEMS (AS REQUIRED BY CLAUSE 27.6)

(IX) FIRE DAMPERS (AS REQUIRED BY CLAUSE 22.13)

(X) FIRE DOORS (AS REQUIRED BY CLAUSE 22.4, 22.6, 22.7, 22.8, 22.9, 22.10, 22.11, 22.12, 25.6, 24.11, 55.5 OR 60.4)

(XI) FIRE MAINS (AS REQUIRED BY CLAUSE 27.1)

(XII) FIRE SHUTTERS (AS REQUIRED BY CLAUSE 22.4, 22.6, 23.1 OR 24.11)

(XIII) FIRE WINDOWS (AS REQUIRED BY CLAUSE 22.4, 23.1)

(XIV) HOSE REELS (AS REQUIRED BY CLAUSE 27.2)

(XV) HYDRANTS (AS REQUIRED BY CLAUSE 27.3)

(XVI) MECHANICAL SMOKE EXHAUST SYSTEMS (AS REQUIRED BY CLAUSE 60.9)

(XVII) MECHANICAL VENTILATION AND AIR-CONDITIONING SYSTEMS (AS REQUIRED BY CLAUSE 50.12 OR 55.17)

(XVIII) NON-COMBUSTIBLE ROLLER SHUTTERS (AS REQUIRED BY CLAUSE 22.16)

(XIX) PORTABLE FIRE EXTINGUISHERS (AS REQUIRED BY CLAUSE 27.4)

(XX) PRESSURISING SYSTEMS (AS REQUIRED BY CLAUSE 21.4(b))

LIGHTING IN BUILDINGS - INSPECTION AND MAINTENANCE"

AS1851 - PART 8 1987 "MAINTENANCE OF FIRE PROTECTION EQUIPMENT - AUTOMATIC FIRE DETECTION AND ALARM SYSTEMS"

AS1851 - PART 6 - 1983 "MAINTENANCE OF FIRE PROTECTION EQUIPMENT - MANAGEMENT PROCEDURES FOR MAINTAINING THE FIRE PRECAUTION FEATURES OF AIR - HANDLING SYSTEMS"

AS1851 - PART 7 - 1984 "MAINTENANCE OF FIRE PROTECTION EQUIPMENT - FIRE RESISTANT DOOR SETS"

AS1851 - PART 4 - 1988 "MAINTENANCE OF FIRE PROTECTION EQUIPMENT - FIRE HYDRANT INSTALLATIONS"

NFPA - NATIONAL FIRE CODE 80, STANDARD FOR FIRE DOORS AND WINDOWS" PARTICULARLY CHAPTER 14 "CARE AND MAINTENANCE"

NFPA - NATIONAL FIRE CODE 80, "STANDARD FOR FIRE DOORS AND WINDOWS" PARTICULARLY CHAPTER 14 "CARE AND MAINTENANCE"

AS1851 - PART 2 1981 "MAINTENANCE OF FIRE PROTECTION EQUIPMENT - FIRE HOSE REELS"

AS1851 - PART 4 - 1980 "MAINTENANCE OF FIRE PROTECTION EQUIPMENT - FIRE HYDRANT INSTALLATION"

AS1851 - PART 6 - 1983 "MAINTENANCE OF FIRE PROTECTION EQUIPMENT - MANAGEMENT PROCEDURES FOR MAINTAINING THE FIRE PRECAUTION FEATURES OF AIR HANDLING SYSTEMS"

AS1851 - PART 6 - 1983 "MAINTENANCE OF FIRE PROTECTION EQUIPMENT - MANAGEMENT PROCEDURES FOR MAINTAINING THE FIRE PRECAUTION FEATURES OF AIRHANDLING SYSTEMS"

NFPA - NATIONAL FIRE CODE 80, STANDARD FOR FIRE DOORS & WINDOWS" PARTICULARLY CHAPTER 14 "CARE AND MAINTENANCE"

AS1851 - PART 5 - 1985 "MAINTENANCE OF FIRE PROTECTION EQUIPMENT - PORTABLE FIRE EXTINGUISHERS"

AS1851 - PART 6 - 1983 "MAINTENANCE OF FIRE PROTECTION EQUIPMENT -

CONTINUED...

**PENRITH CITY COUNCIL**

Council Chambers, Station Street, Penrith, N.S.W. 2750 Telephone: **(047)** 32 7777 (DX 8017, Penrith)

APPLICATION NO: 032885 PERMIT NO: 032885 FOLIO NO: 5

MANAGEMENT PROCEDURES FOR MAINTAINING THE FIRE PRECAUTION FEATURES OF AIRHANDLING SYSTEMS"

(XXI) SMOKE DOORS (AS REQUIRED BY CLAUSE 21.3) — AS1851 - PART 7 1984 "MAINTENANCE OF FIRE PROTECTION EQUIPMENT - FIRE RESISTANT DOOR SETS"

(XXII) SOLID-CORE DOORS (AS REQUIRED BY CLAUSE 22.9, 22.10 OR 22.16) — AS1851 - PART 7 - 1984 "MAINTENANCE OF FIRE PROTECTION EQUIPMENT - FIRE RESISTANT DOOR SETS"

(XXIII) VENTS (AS REQUIRED BY CLAUSE 19.3, 19.4, 19.7 OR 60.9) — AS1851 - PART 5 - 1981 "MAINTENANCE OF FIRE PROTECTION EQUIPMENT - AUTOMATIC SMOKE/HEAT VENTING SYSTEMS"

NOTE: WHERE IT IS PROPOSED TO ALTER OR EXTEND AN EXISTING BUILDING THE SPECIFIED MAINTENANCE STANDARD APPLIES TO THE SERVICES INSTALLED IN BOTH THE EXISTING BUILDING AND IN THE ALTERATION/EXTENSION.

528. ON COMPLETION OF THE ERECTION OF THE PROPOSED BUILDING WORK, THE OWNER OF THE BUILDING SHALL PROVIDE COUNCIL WITH A CERTIFICATE FROM A COMPETENT PERSON WITH RESPECT TO EACH ESSENTIAL SERVICE INSTALLED IN THE BUILDING. THIS CERTIFICATE SHALL BE IN THE EFFECT OF FORM 6 OF PART 59 OF ORDINANCE 70.

532. AT LEAST ONCE IN EACH PERIOD OF TWELVE MONTHS AFTER A CERTIFICATE IS REQUIRED TO HAVE BEEN FURNISHED TO COUNCIL IN RESPECT OF A BUILDING, THE OWNER OF THE BUILDING SHALL PROVIDE COUNCIL WITH A FURTHER CERTIFICATE WITH RESPECT TO EACH ESSENTIAL SERVICE INSTALLED IN THE BUILDING. THE CERTIFICATE SHALL BE IN THE EFFECT OF FORM 7 OF PART 59 OF ORDINANCE 70.

551 AN OPENING SHALL BE PROVIDED IN THE GLASS SHOWCASE SHELVING IN THE SMALL AUDIO SECTION OF THE SHOP. (SEE AMENDED PLANS). THIS IS TO PROVIDE A MAXIMUM TRAVEL DISTANCE OF 30 METRES TO AN EXIT. ALTERNATIVELY THE APPROVED HOURS SECURITY SHUTTER IS TO BE PROVIDED WITH AN APPROVED EXIT DOOR IN ACCORDANCE WITH PART 24 OF ORDIANCE 70.

552. ALL DISPLAYS ARE TO BE ARRANGED SO THAT TRAVEL DISTANCES TO REQUIRED EXITS SHALL COMPLY WITH THE REQUIREMENTS OF PART 24 OF ORDINANCE 70.

553 THE DOORWAY LEADING INTO THE STOREROOM SHALL BE A MINIMUM 6 HOUR FIRE DOOR. PRIOR TO INSTALLATION FULL MANUFACTURERS DETAILS ARE TO BE SUBMITTED TO COUNCIL FOR CONSIDERATION AND APPROVAL.

800. ALL ALTERATIONS TO SERVICES AND MUNICIPAL FACILITIES AS NECESSITATED BY THE DEVELOPMENT SHALL BE THE RESPONSIBILITY OF THE APPLICANT.

818. ALL MATERIALS AND GOODS ASSOCIATED WITH THE USE ARE TO BE CONTAINED WITHIN THE BUILDING AT ALL TIMES.

820. SEPARATE APPLICATION IS TO BE MADE FOR ALL ADVERTISING MATERIAL.

REQUIREMENTS OF OTHER AUTHORITIES

CONTINUED.....

**PENRITH CITY COUNCIL**

Council Chambers, Station Street, Penrith, N.S.W. 2750 Telephone: **(047)** 32 7777 (DX 8017, Penrith)

APPLICATION NO: 032885 PERMIT NO: 032885 FOLIO NO: 6

---

VEHICULAR DRIVEWAYS ARE NOT TO BE PLACED WITHIN 1 METRE OF A BOUNDARY ON WHICH IS LOCATED AN ELECTRICITY PILLAR. FURTHER DETAILS ARE AVAILABLE FROM PROSPECT ELECTRICITY.

901. WARNING: THESE BUILDING PLANS MUST BE SUBMITTED TO ANY BUSINESS OFFICE OF THE METROPOLITAN WATER, SEWERAGE AND DRAINAGE BOARD, AT LEAST 14 DAYS BEFORE COMMENCEMENT OF WORK.
THE PLANS AND A BUILDING APPLICATION FORM, AVAILABLE AT BUSINESS OFFICES, NEED TO BE SUBMITTED TO ENSURE THAT THE PROPOSED STRUCTURE MEETS THE REQUIREMENTS OF THE BOARD'S BY-LAWS CONCERNING:-
1) LOCATION OF SANITARY FIXTURES,
2) RELATIONSHIP OF THE BUILDING TO WATER MAINS, SEWERS AND STORMWATER CHANNELS,
AND FOR VALUING PURPOSES IN CONNECTION WITH SECTION 97 (4) AND (7) OF THE BOARD'S ACT, AND FOR THE CALCULATION OF A BUILDING FEE IN ACCORDANCE WITH BY-LAW 7 (1) (A) OF THE BOARD'S ACT.
FAILURE TO SUBMIT THESE PLANS BEFORE COMMENCEMENT OF WORK WILL RENDER THE OWNER LIABLE TO A PENALTY AND MAY RESULT IN THE DEMOLITION OF THE WORK AT THE BUILDER'S EXPENSE.

# PENRITH CITY COUNCIL

Council Chambers, Station Street, Penrith, N.S.W. 2750 Telephone: **(047)** 32 7777 (DX 8017, Penrith)

YOUR REF:

OUR REF: 034241
CONTACT: MR SHERIDAN 327515

BUILDING PERMIT

PERMIT NO: 34241
REF:

ISSUED TO: SHK ARCHITECTS NSW P/L
2 RIVER STREET
BIRCHGROVE 2041

OF

IN RESPECT OF

LOT NO: 1/UNIT 3 D.P: 771927 HOUSE NO: 0004 STREET: LAWSON PEN
LOCALITY: PENRITH

(----OWNER'S NAME AND ADDRESS-----)
GIO PROPERTY INVESTMENTS
111 ELIZABETH STREET
SYDNEY 2000

(---BUILDER'S NAME AND ADDRESS-----)
T.B.A.

0000

APPROVED SUBJECT TO COMPLIANCE WITH THE LOCAL GOVERNMENT ACT, RELEVANT ORDINANCES ISSUED THEREUNDER AND CONDITIONS NUMBERED; 14, 16, 18, 20, 24, 128, 130, 131, 132, 148, 152, 172, 174, 175, 176, 180, 184, 186, 194, 202, 206, 242, 276, 294, 302, 526, 528, 532, 551, 552, 553, 800, 820, 901, 904,

HEREUNDER FOR THE ERECTION OF
A SHOPS/LOCK-UP SINGLE STOREY/SHOP FITTING FOR THE VALUE OF $350000.

THIS APPROVAL LAPSES ON THE EXPIRATION OF 12 MONTHS AFTER THE DATE HEREOF.

ATTENTION IS DRAWN TO THE PROVISIONS OF SECTION/S 317L (AND 288C IN REGARD TO FENCING OF SWIMMING POOLS) OF THE LOCAL GOVERNMENT ACT, 1919, AS AMENDED, GIVING A RIGHT OF APPEAL AGAINST THE DECISION OF COUNCIL. APPEAL FORMS ARE AVAILABLE AT COUNCIL'S OFFICE.

DATE: 16/10/92

SIGNED: G.L. RUMBLE, per: S Bennett

(HEALTH AND BUILDING SERVICES MANAGER)

DATE: 19/10/92

SIGNED:

(PERSON COLLECTING PLANS)

CONDITIONS:

14. THAT 48 HOURS' NOTICE IN WRITING BE GIVEN TO COUNCIL FOR INSPECTION:-
(A) OF TRENCHES BEFORE FOOTINGS ARE LAID;
(B) OF FOOTINGS BEFORE TRENCHES ARE FILLED;
(C) WHEN THE BUILDING HAS BEEN ERECTED TO FLOOR LEVEL AND DAMPCOURSES ARE LAID;
(D) OF FLASHING AND DAMP-PROOFING OF WET AREAS (VIZ. BATHROOMS, LAUNDRIES, ENSUITES AND W.C.) PRIOR TO CLADDING;

CONTINUED...

PENRITH CITY COUNCIL
Council Chambers, Station Street, Penrith, N.S.W. 2750 Telephone: (047) 32 7777 (DX 8017, Penrith)

APPLICATION NO: 034241 PERMIT NO: 034241 FOLIO NO: 2

(E) WHEN STEEL FOR REINFORCED STRUCTURAL CONCRETE WORK IS IN POSITION PRIOR TO POURING OF CONCRETE;
(F) WHEN THE BUILDING HAS BEEN ERECTED TO ROOF FRAMING;
(G) OF DRAINS BEFORE THEY ARE COVERED IN; AND
(H) WHEN THE BUILDING IS COMPLETED AND READY FOR OCCUPATION.

16. BUILDING SHALL NOT BE USED OR OCCUPIED UNTIL APPROVAL IS GRANTED BY COUNCIL.

18. STAMPED PLANS, SPECIFICATION AND PERMIT SHALL BE KEPT ON SITE AT ALL TIMES.

20. APPROVED IN COMPLIANCE WITH THE CONDITIONS OF THE WATER BOARD

24. A SPECIAL INSPECTION BY THE WATER BOARD SHALL BE OBTAINED ON ALL INTERNAL/EXTERNAL DRAINAGE.

128. A CERTIFICATE FROM AN APPROVED PRACTISING STRUCTURAL ENGINEER SHALL BE SUBMITTED TO COUNCIL CERTIFYING THE STRUCTURAL ADEQUACY OF ALL LOAD BEARING WALLS PRIOR TO THEIR ERECTION.

130. DETAILS SHALL BE SUBMITTED BY AN APPROVED, PRACTICING STRUCTURAL ENGINEER CERTIFYING THAT THE BUILDING HAS BEEN DESIGNED IN COMPLIANCE WITH THE REQUIREMENT FOR A SEISMIC ZONE A AS DETAILED IN AS2121 'SAA EARTHQUAKE CODE.

131. A CERTIFICATE FROM AN APPROVED PRACTISING STRUCTURAL ENGINEER SHALL BE SUBMITTED ON COMPLETION OF THE BUILDING INDICATING THAT THE BUILDING HAS BEEN SUPERVISED DURING THE COURSE OF ITS CONSTRUCTION AND THAT THE BUILDING HAS BEEN CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS FOR A SEISMIC ZONE A AREA AS DEFINED BY AS2121 'SAA EARTHQUAKE CODE'.

132. WHERE STRUCTURAL REINFORCED CONCRETE MEMBERS ARE REQUIRED TO HAVE A FIRE RESISTANCE RATING THE APPROVED PRACTISING STRUCTURAL ENGINEER SHALL CERTIFY THAT THE REQUIREMENTS OF THE RELEVANT SAA PRESTRESSED CONCRETE CODE AND/OR SAA CONCRETE STRUCTURES CODE HAVE BEEN SATISFIED.

148. THE CONSTRUCTION AREA SHALL BE FENCED WITH A 2.1 METRE HIGH MANPROOF FENCE TO PREVENT INADVERTENT ACCESS BY THE PUBLIC. DETAILS OF THE TYPE OF FENCING SHALL BE SUBMITTED FOR CONSIDERATION AND APPROVAL OF THE HEALTH AND BUILDING SERVICES MANAGER PRIOR TO THE COMMENCEMENT OF BUILDING AND/OR SITE WORKS.

152. APPROVAL SHALL BE OBTAINED FROM COUNCIL'S CITY ENGINEERS DEPARTMENT PRIOR TO ANY WORK ASSOCIATED WITH COUNCIL'S PROPERTY.

172. HOSE REELS SHALL BE DESIGNED AND INSTALLED WITHIN THE BUILDING IN ACCORDANCE WITH THE RELEVANT CLAUSES OF PART 27 OF ORDINANCE 70. THE

CONTINUED.....

PENRITH CITY COUNCIL

Council Chambers, Station Street, Penrith, N.S.W. 2750 Telephone: (047) 32 7777 (DX 8017, Penrith)

APPLICATION NO: 034241 PERMIT NO: 034241 FOLIO NO: 3

REQUIRED HOSE REELS SHALL NOT BE INSTALLED IN THE BUILDING UNTIL A REPORT ISSUED BY THE BOARD OF FIRE COMMISSIONERS IN ACCORDANCE WITH PART 27 OF ORDINANCE 70 HAS BEEN SUBMITTED TO COUNCIL.

174. UNLESS OTHERWISE APPROVED, ALL FIRE HOSE REELS SHALL BE LOCATED WITHIN 3 METRES OF A REQUIRED EXIT. THE REEL SHALL NOT IN ANY WAY, INTERFERE WITH THE OPERATION OF THE EXIT OR DIMINISH THE WIDTH OF THE PATH OF TRAVEL TO THE EXIT.

175. (A) PORTABLE FIRE EXTINGUISHERS, HAVING AT LEAST THE PROTECTION EFFECTIVENESS OF A 5.0KG CARBON DIOXIDE EXTINGUISHER SHALL BE INSTALLED WITHIN THE BUILDING IN ACCORDANCE WITH THE REQUIREMENTS OF PART 27 OF ORDINANCE 70. IT WILL BE NECESSARY FOR THE APPLICANT TO CONSULT WITH THE HEALTH AND BUILDING DEPARTMENT TO DETERMINE THE LOCATION OF THE EXTINGUISHERS.
(B) FIRE BLANKETS SHALL BE PROVIDED IN COMMERCIAL KITCHENS, OR OTHER AREAS WHERE SMALL COOKING FIRES ARE LIKELY. THE BLANKETS SHALL COMPLY WITH THE REQUIREMENTS OF AS3504-1987 "FIRE BLANKETS".

176. DETAILS OF CONNECTION TO THE WATER SUPPLY AUTHORITY'S MAIN, PIPE WORK INCLUDING JUNCTIONS, BENDS, VALVES, PUMPS AND THE LIKE, AND TYPE OF HOSE REEL AND/OR HYDRANT SHALL BE SUBMITTED AND APPROVED BY COUNCIL PRIOR TO COMMENCEMENT OF INSTALLATIONS.

180. SATISFACTORY ARRANGEMENTS SHALL BE MADE WITH THE COUNCILS HEALTH AND BUILDING SURVEYOR FOR AN INSPECTION OF ALL PIPEWORK INCLUDING CONNECTIONS, BENDS, VALVES AND ANCILLIARY EQUIPMENT PRIOR TO BACKFILLING, ENCLOSING OR ENCASEMENT OF PIPES.

184. ILLUMINATED EXIT SIGNS AND DIRECTIONAL SIGNS COMPLYING WITH THE RELEVANT PROVISIONS OF PART 24 AND PART 55 OF ORDINANCE 70 SHALL BE INSTALLED THROUGHOUT THE BUILDING IN LOCATIONS APPROVED BY THE HEALTH AND BUILDING SERVICES MANAGER. CONSULTATION SHALL TAKE PLACE WITH THE HEALTH AND BUILDING SURVEYOR AND APPROVAL OBTAINED PRIOR TO THE INSTALLATION OF ANY FITTINGS.

186. EMERGENCY LIGHTING SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF CLAUSE 55.12 OF ORDINANCE 70.
CONSULTATION SHALL TAKE PLACE WITH THE H/B SURVEYOR AND APPROVAL SHALL BE OBTAINED PRIOR TO THE INSTALLATION OF ANY FITTINGS.

194. THE SMOKE DEVELOPED, SPREAD OF FLAME AND FLAMMABILITY INDEXES OF THE SARKING AND BUILDING MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE RELEVANT CLAUSES OF PART 16 OF ORDINANCE 70. DETAILS OF THE EARLY FIRE HAZARD PROPERTIES OF THE SARKING AND BUILDING MATERIALS SHALL BE SUBMITTED TO THE H/B SERVICES MANAGER FOR CONSIDERATION & APPROVAL PRIOR TO INSTALLATION OF THE MATERIALS.

202. ALL REQUIRED EXIT DOORS OR DOORS FORMING PART OF A REQUIRED EXIT SHALL BE READILY OPENABLE WITHOUT A KEY AND BY A SINGLE HANDED ACTION FROM THE SIDE THAT WOULD FACE ANY PERSON SEEKING EGRESS FROM THE BUILDING.

206. ANY REQUIRED EXIT DOOR OR DOORS SWINGING AGAINST THE DIRECTION OF EGRESS SHALL

CONTINUED...

**PENRITH CITY COUNCIL**

Council Chambers, Station Street, Penrith, N.S.W. 2750 Telephone: **(047)** 32 7777 (DX 8017, Penrith)

APPLICATION NO: 034241 PERMIT NO: 034241 FOLIO NO: 4

BE FITTED WITH AN APPROVED MEANS OF FIXING IT IN THE FULLY OPEN POSITION.

242. ALL SOUND PRODUCING PLANT, MACHINERY, OR FITTINGS SHALL BE SOUND INSULATED AND/OR ISOLATED SO AS TO CONTROL EMISSION OF NOISE FROM THE PREMISES, WITHIN THE LIMITS PRESCRIBED UNDER THE NOISE CONTROL ACT, 1975 AND REGULATIONS.

276. THE APPLICANT SHOULD CONSULT WITH THE DANGEROUS GOODS BRANCH OF THE DEPARTMENT OF INDUSTRIAL RELATIONS CONCERNING ANY REQUIREMENTS THAT AUTHORITY MAY WISH TO IMPOSE.

294. GLAZING MATERIALS USED IN THE BUILDING SHALL BE SELECTED AND INSTALLED IN ACCORDANCE WITH THE RELEVANT REQUIREMENTS OF PART 53 OF ORDINANCE 70, AS 1288 "SAA GLASS INSTALLATION CODE" AND AS 2208 "SAFETY GLAZING MATERIALS FOR USE IN BUILDINGS (HUMAN IMPACT CONSIDERATIONS)". A CERTIFICATE STATING THAT GLASS HAS BEEN INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF AS 1288 "SAA GLASS INSTALLATION CODE" SHALL BE SUBMITTED TO COUNCIL BY THE GLAZING INSTALLATION CONTRACTOR PRIOR TO OCCUPATION OF THE BUILDING OR ISSUE OF CERTIFICATE OF COMPLIANCE, WHICH EVER OCCURS FIRST.

302. PARTITIONING WHICH IS NOT A PART OF THIS APPLICATION SHALL NOT BE CONSTRUCTED WITHOUT PRIOR APPROVAL FIRST BEING OBTAINED FROM THE H/B SERVICES MANAGER.

526. THE PROPOSED ADDITION/NEW BUILDING SHALL COMPLY WITH PART 59 OF ORDINANCE 70 WITH REGARD TO THE FOLLOWING ESSENTIAL SERVICES CIRCLED:-

| ESSENTIAL SERVICES | MINIMUM MAINTENANCE STANDARD |
|---|---|
| (I) ACCESS PANELS (AS REQUIRED BY CLAUSE 22.12) | AS1851 - PART 7 - 1984 "MAINTENANCE OF FIRE PROTECTION EQUIPMENT - FIRE RESISTANT DOOR SETS" |
| (II) AUTOMATIC SPRINKLER SYSTEMS (AS REQUIRED BY CLAUSE 19.2, 19.4, 22.4, 23.1, 24.12, 27.4, 55.17, OR 60.8) | AS1851 - PART 3 - 1985 "MAINTENANCE OF FIRE PROTECTION EQUIPMENT - AUTOMATIC FIRE SPRINKLER SYSTEMS" |
| DRENCHER SYSTEMS (AS REQUIRED BY CLAUSE 22.4 OR 23.1) | AS1851 - PART 3 - 1985 "MAINTENANCE OF FIRE PROTECTION EQUIPMENT - AUTOMATIC FIRE SPRINKLER SYSTEMS" |
| (III) EMERGENCY LIFTS (AS REQUIRED BY CLAUSE 55.9) | AS1735-1975 "SAA LIFT CODE" |
| (IV) EMERGENCY LIGHTING (AS REQUIRED BY CLAUSE 55.12) | AS2293.2-1987 "EMERGENCY EVACUATION LIGHTING IN BUILDINGS - INSPECTION & MAINTENANCE" |
| (V) EMERGENCY POWER SUPPLY AS REQUIRED BY CLAUSE 55.15) | AS3009-1985 ELECTRIC INSTALLATIONS - "EMERGENCY POWER SUPPLIES IN HOSPITALS" |
| (VI) EMERGENCY WARNING AND INTERCOMMUNICATION SYSTEM (AS REQUIRED BY CLAUSE 55.16 OR 60.10) | AS2220-1978 RULES FOR EMERGENCY WARNING AND INTERCOMMUNICATION SYSTEMS FOR BUILDINGS |
| (VII) EXIT SIGNS (AS REQUIRED BY CLAUSE 24.29 | AS2293.2-1987 "EMERGENCY EVACUATION LIGHTING IN BUILDINGS - INSPECTION |

CONTINUED....

**PENRITH CITY COUNCIL**

Council Chambers, Station Street, Penrith, N.S.W. 2750 Telephone: **(047)** 32 7777 (DX 8017, Penrith)

APPLICATION NO: 034241 PERMIT NO: 034241 FOLIO NO: 5

| | |
|---|---|
| (VIII) FIRE ALARM SYSTEMS (AS REQUIRED BY CLAUSE 27.4) | AND MAINTENANCE" AS1851 - PART 8 1987 "MAINTENANCE OF FIRE PROTECTION EQUIPMENT - AUTOMATIC FIRE DETECTION AND ALARM SYSTEMS" |
| (IX) FIRE DAMPERS (AS REQUIRED BY CLAUSE 22.13) | AS1851 - PART 6 - 1983 "MAINTENANCE OF FIRE PROTECTION EQUIPMENT - MANAGEMENT PROCEDURES FOR MAINTAINING THE FIRE PRECAUTION FEATURES OF AIR - HANDLING SYSTEMS" |
| (X) FIRE DOORS(AS REQUIRED BY CLAUSE 22.4,22.6, 22.7, 22.8, 22.9, 22.10, 22.11, 22.12, 23.6, 24.11, 55.5 OR 60.4) | AS1851 - PART 7 - 1984 "MAINTENANCE OF FIRE PROTECTION EQUIPMENT - FIRE RESISTANT DOOR SETS" |
| (XI) FIRE MAINS (AS REQUIRED BY CLAUSE 27.1) | AS1851 - PART 4 - 1988 "MAINTENANCE OF FIRE PROTECTION EQUIPMENT - FIRE HYDRANT INSTALLATIONS" |
| (XII) FIRE SHUTTERS (AS REQUIRED BY CLAUSE 22.4, 22.6, 23.1 OR 24.11) | NFPA - NATIONAL FIRE CODE 80, STANDARD FOR FIRE DOORS AND WINDOWS" PARTICULARLY CHAPTER 14 "CARE AND MAINTENANCE" |
| (XIII) FIRE WINDOWS (AS REQUIRED BY CLAUSE 22.4, 23.1) | NFPA - NATIONAL FIRE CODE 80, "STANDARD FOR FIRE DOORS AND WINDOWS" PARTICULARLY CHAPTER 14 "CARE AND MAINTENANCE" |
| (XIV) HOSE REELS (AS REQUIRED BY CLAUSE 27.2) | AS1851 - PART 2 1981 "MAINTENANCE OF FIRE PROTECTION EQUIPMENT - FIRE HOSE REELS" |
| (XV) HYDRANTS (AS REQUIRED BY CLAUSE 27.3) | AS1851 - PART 4 - 1980 "MAINTENANCE OF FIRE PROTECTION EQUIPMENT - FIRE HYDRANT INSTALLATION" |
| (XVI) MECHANICAL SMOKE EXHAUST SYSTEMS (AS REQUIRED BY CLAUSE 60.9) | AS1851 - PART 6 - 1983 "MAINTENANCE OF FIRE PROTECTION EQUIPMENT - MANAGEMENT PROCEDURES FOR MAINTAINING THE FIRE PRECAUTION FEATURES OF AIRHANDLING SYSTEMS" |
| (XVII) MECHANICAL VENTILATION AND AIR-CONDITIONING SYSTEMS (AS REQUIRED BY CLAUSE 50.12 OR 55.17) | AS1851 - PART 6 - 1983 "MAINTENANCE OF FIRE PROTECTION EQUIPMENT - MANAGEMENT PROCEDURES FOR MAINTAINING THE FIRE PRECAUTION FEATURES OF AIRHANDLING SYSTEMS" |
| (XVIII) NON-COMBUSTIBLE ROLLER SHUTTERS (AS REQUIRED BY CLAUSE 22.16) | NFPA - NATIONAL FIRE CODE 80, STANDARD FOR FIRE DOORS & WINDOWS" PARTICULARLY CHAPTER 14 "CARE AND MAINTENANCE" |
| (XIX) PORTABLE FIRE EXTINGUISHERS (AS REQUIRED BY CLAUSE 27.4.1) | AS1851 - PART 1 - 1985 "MAINTENANCE OF FIRE PROTECTION EQUIPMENT - PORTABLE FIRE EXTINGUISHERS" |
| (XX) PRESSURISING SYSTEMS (AS REQUIRED BY CLAUSE 21.3) | AS1851 - PART 6 - 1983 "MAINTENANCE OF FIRE PROTECTION EQUIPMENT - MANAGEMENT PROCEDURES FOR MAINTAINING |

CONTINUED....

PENRITH CITY COUNCIL
Council Chambers, Station Street, Penrith, N.S.W. 2750 Telephone: (047) 32 7777 (DX 8017, Penrith)

APPLICATION NO: 034241 PERMIT NO: 034241 FOLIO NO: 6

(XXI) SMOKE DOORS (AS REQUIRED BY CLAUSE 21.3)

(XXII) SOLID-CORE DOORS (AS REQUIRED BY CLAUSE 22.9, 22.10 OR 22.16)

(XXIII) VENTS (AS REQUIRED BY CLAUSE 19.3, 19.6, 19.7 OR 60.9)

THE FIRE PRECAUTION FEATURES OF AIRHANDLING SYSTEMS"
AS1851 - PART 7 1984 "MAINTENANCE OF FIRE PROTECTION EQUIPMENT - FIRE RESISTANT DOOR SETS"
AS1851 - PART 7 - 1984 "MAINTENANCE OF FIRE PROTECTION EQUIPMENT - FIRE RESISTANT DOOR SETS"
AS1851 - PART 5 - 1981 "MAINTENANCE OF FIRE PROTECTION EQUIPMENT - AUTOMATIC SMOKE/HEAT VENTING SYSTEMS"

NOTE: WHERE IT IS PROPOSED TO ALTER OR EXTEND AN EXISTING BUILDING THE SPECIFIED MAINTENANCE STANDARD APPLIES TO THE SERVICES INSTALLED IN BOTH THE EXISTING BUILDING AND IN THE ALTERATION/EXTENSION.

528. ON COMPLETION OF THE ERECTION OF THE PROPOSED BUILDING WORK, THE OWNER OF THE BUILDING SHALL PROVIDE COUNCIL WITH A CERTIFICATE FROM A COMPETENT PERSON WITH RESPECT TO EACH ESSENTIAL SERVICE INSTALLED IN THE BUILDING. THIS CERTIFICATE SHALL BE IN THE EFFECT OF FORM 6 OF PART 59 OF ORDINANCE 70.

532. AT LEAST ONCE IN EACH PERIOD OF TWELVE MONTHS AFTER A CERTIFICATE IS REQUIRED TO HAVE BEEN FURNISHED TO COUNCIL IN RESPECT OF A BUILDING, THE OWNER OF THE BUILDING SHALL PROVIDE COUNCIL WITH A FURTHER CERTIFICATE WITH RESPECT TO EACH ESSENTIAL SERVICE INSTALLED IN THE BUILDING. THE CERTIFICATE SHALL BE IN THE EFFECT OF FORM 7 OF PART 59 OF ORDINANCE 70.

551. A CERTIFICATE IN THE EFFECT OF A FORM 7 SHALL BE SUBMITTED FOR EACH ESSENTIAL SERVICE INSTALLED THROUGHOUT ALL BUILDINGS IN THE HENRY LAWSON COMPLEX.

552. CERTIFICATION FROM A PRACTISING STRUCTURAL ENGINEER WILL BE REQUIRED TO BE SUBMITTED FOR COUNCIL'S CONSIDERATION AND APPROVAL, DETAILING THE NEW METHOD OF SUPPORT TO THE PRECAST CONCRETE PANELS, AND INDICATING THAT THEY HAVE BEEN DESIGNED TO FALL INWARDS IN THE EVENT OF A FIRE.

553. A STRUCTURAL ENGINEERS REPORT WILL BE REQUIRED REGARDING THE INTEGRITY OF THE 4 HOUR RATED WALL DIVIDING HARVEY NORMAN AND BBQ'S GALORE. IF THE RATING OF THE WALL IS IMPAIRED, WORK TO RECTIFY THIS AND REINSTATE THE REQUIRED FIRE RATING SHALL BE COMPLETED TO COUNCIL'S SATISFACTION PRIOR TO OCCUPANCY OF THE BUILDING.

800. ALL ALTERATIONS TO SERVICES AND MUNICIPAL FACILITIES AS NECESSITATED BY THE DEVELOPMENT SHALL BE THE RESPONSIBILITY OF THE APPLICANT.

820. SEPARATE APPLICATION IS TO BE MADE FOR ALL ADVERTISING MATERIAL.

REQUIREMENTS OF OTHER AUTHORITIES

VEHICULAR DRIVEWAYS ARE NOT TO BE PLACED WITHIN 1 METRE OF A

CONTINUED....

**PENRITH CITY COUNCIL**

Council Chambers, Station Street, Penrith, N.S.W. 2750 Telephone: **(047)** 32 7777 (DX 8017, Penrith)

APPLICATION NO: 034241 PERMIT NO: 034241 FOLIO NO: 7

BOUNDARY ON WHICH IS LOCATED AN ELECTRICITY PILLAR. FURTHER DETAILS ARE AVAILABLE FROM PROSPECT ELECTRICITY.

901. WARNING: THESE BUILDING PLANS MUST BE SUBMITTED TO ANY BUSINESS OFFICE OF THE METROPOLITAN WATER, SEWERAGE AND DRAINAGE BOARD, AT LEAST 14 DAYS BEFORE COMMENCEMENT OF WORK.
THE PLANS AND A BUILDING APPLICATION FORM, AVAILABLE AT BUSINESS OFFICES, NEED TO BE SUBMITTED TO ENSURE THAT THE PROPOSED STRUCTURE MEETS THE REQUIREMENTS OF THE BOARD'S BY-LAWS CONCERNING:-
1) LOCATION OF SANITARY FIXTURES,
2) RELATIONSHIP OF THE BUILDING TO WATER MAINS, SEWERS AND STORMWATER CHANNELS,
AND FOR VALUING PURPOSES IN CONNECTION WITH SECTION 97 (4) AND (7) OF THE BOARD'S ACT, AND FOR THE CALCULATION OF A BUILDING FEE IN ACCORDANCE WITH BY-LAW 7 (1) (A) OF THE BOARD'S ACT.
FAILURE TO SUBMIT THESE PLANS BEFORE COMMENCEMENT OF WORK WILL RENDER THE OWNER LIABLE TO A PENALTY AND MAY RESULT IN THE DEMOLITION OF THE WORK AT THE BUILDER'S EXPENSE.

904. PROSPECT ELECTRICITY REQUIREMENTS ARE TO BE SOUGHT PRIOR TO COMMENCEMENT OF WORK IN RESPECT TO:- I) UNIMPEDED ACCESS AT ALL TIMES TO METER AND METERING EQUIPMENT; II) ANY CONSTRUCTION ADJACENT TO ANY ELECTRICAL EASEMENT; III) INSTALLATION OF ANY METALLIC OR CONDUCTIVE FENCING OR STRUCTURE WITHIN A FOUR METRE RADIUS (MEASURED FROM EXTREMITIES OF A PADMOUNTED SUBSTATION); IV) INSTALLATION OF CONDUITS ACROSS FOOTPATH APRON; V) ANY CUT OR FILL IN THE VICINITY OF A CABLE EASEMENT.

**Penrith City Council**

Administrative Centre,
114-116 Henry Street, Penrith  Telephone: (047) 32 7777  DX 8017 Penrith

OUR REF: BLD 932590
CONTACT: MR VRH 327529

YOUR REF:

BUILDING PERMIT  PERMIT NO: BLD 932590

SITUATED AT
L1 DP771927
61 TO 73 HENRY STREET
PENRITH 2750

APPLICANT
HARVEY NORMAN PTY LTD
233 PARRAMATTA ROAD
AUBURN NSW 2144

REGISTERED OWNER
GIO PROPERTY INVEST
111 ELIZABETH STREET
SYDNEY NSW 2000

BUILDER
HARVEY NORMAN SHOPFITTING
28 - 167 BONDS ROAD
RIVERWOOD NSW 2210

APPROVED SUBJECT TO:

- COMPLIANCE WITH THE LOCAL GOVERNMENT ACT AND RELEVANT ORDINANCES, THE BUILDING CODE OF AUSTRALIA AND THE SWIMMING POOLS ACT, 1992.

- CONDITIONS SPECIFIED HEREUNDER.

TO CONSTRUCTION A SHOP FITTINGS
FOR THE VALUE OF $190000.

THIS APPROVAL LAPSES ON THE EXPIRATION OF 12 MONTHS AFTER THE DATE HEREOF, UNLESS BUILDING WORKS ARE SUBSTANTIALLY COMMENCED.

ATTENTION IS DRAWN TO THE PROVISIONS OF SECTION/S 317L OF THE LOCAL GOVERNMENT ACT, 1919, AS AMENDED, AND THE SWIMMING POOLS ACT, 1992, WHICH PROVIDE A RIGHT OF APPEAL AGAINST THE DECISION OF COUNCIL. APPEAL FORMS ARE AVAILABLE AT COUNCIL'S OFFICE.

DATE: 29/04/93  SIGNED: G. L. RUMBLE , PER:

HEALTH AND BUILDING SERVICES MANAGER

DATE: 30/4/93  SIGNED:

PERSON COLLECTING PLANS

POSTED TO APPLICANT

CONDITIONS:

004 A MINIMUM OF 24 HOURS NOTICE SHALL BE GIVEN TO COUNCIL FOR INSPECTION:-
(A) OF PIER HOLES BEFORE CONCRETE IS POURED
(B) OF STEEL REINFORCEMENT FOR FOOTINGS/SLABS/SWIMMING POOLS OR OTHER STRUCTURAL CONCRETE COMPONENTS PRIOR TO PLACEMENT OF CONCRETE
(C) OF BEARERS/JOISTS AND DAMPCOURSES BEFORE FLOORING IS LAID
(D) WHEN THE BUILDING HAS BEEN ERECTED TO FLOOR LEVEL AND DAMPCOURSES ARE LAID FOR BUILDINGS OF CAVITY MASONRY CONSTRUCTION
(E) WHEN WALL AND ROOF FRAMING IS ERECTED/EXTERNAL LININGS COMPLETED AND ROOF HAS BEEN LOADED; (PRIOR TO LINING THE INTERIOR)
(F) OF FLASHING OF WET AREAS PRIOR TO LINING OR TILING OF THESE AREAS

CONTINUED....

Penrith City Council

Administrative Centre,
114-116 Henry Street, Penrith Telephone: (047) 32 7777 DX 8017 Penrith



(VIZ: BATHROOMS, ENSUITES, LAUNDRIES AND WC)
(G) OF STORMWATER PIPES AND SURFACE DRAINAGE PRIOR TO THE PIPES BEING COVERED OVER
(H) OF INTERNAL AND EXTERNAL DRAINAGE IN NON-SEWERED AREAS UNDER THE CONTROL OF PENRITH CITY COUNCIL
(I) WHEN THE BUILDING IS COMPLETED AND READY FOR APPROVAL TO OCCUPY

007 THE BUILDING SHALL NOT BE USED OR OCCUPIED UNTIL APPROVAL IS GRANTED BY COUNCIL.

010 STAMPED PLANS, SPECIFICATIONS AND PERMIT SHALL BE AVAILABLE ON SITE AT ALL TIMES DURING CONSTRUCTION.

052 PARTITIONING WHICH IS NOT A PART OF THIS APPLICATION SHALL NOT BE CONSTRUCTED WITHOUT PRIOR APPROVAL FROM THE HEALTH AND BUILDING SERVICES MANAGER.

095 APPROVED IN COMPLIANCE WITH THE CONDITIONS OF THE WATERBOARD.

116 THE APPLICANT SHOULD CONSULT WITH THE WORKCOVER AUTHORITY CONCERNING THEIR REQUIREMENTS.

122 PROSPECT ELECTRICITY REQUIREMENTS ARE TO BE SOUGHT PRIOR TO COMMENCEMENT OF WORK IN RESPECT OF:
(i) UNIMPEDED ACCESS AT ALL TIMES TO METER AND METERING EQUIPMENT
(ii) ANY CONSTRUCTION ADJACENT TO ANY ELECTRICAL EASEMENT
(iii) INSTALLATION OF ANY METALLIC OR CONDUCTIVE FENCING OR STRUCTURE WITHIN A 4 METRE RADIUS (MEASURED FROM EXTREMITIES OF A PADMOUNT SUBSTATION)
(iv) INSTALLATION OF CONDUITS ACROSS FOOTPATH APRON
(v) ANY CUT OR FILL IN THE VICINITY OF A CABLE EASEMENT

125 WARNING - THESE BUILDING PLANS MUST BE SUBMITTED TO ANY BUSINESS OFFICE OF THE WATER BOARD AT LEAST FOURTEEN (14) DAYS BEFORE COMMENCEMENT OF WORK. THE PLANS AND A BUILDING APPLICATION FORM, AVAILABLE AT BUSINESS OFFICES NEED TO BE SUBMITTED TO ENSURE THAT THE PROPOSED STRUCTURE MEETS THE REQUIREMENTS OF THE BOARD'S BY-LAWS CONCERNING:-
(i) LOCATION OF SANITARY FIXTURES
(ii) RELATIONSHIP OF THE BUILDING TO WATER MAINS, SEWERS AND STORMWATER CHANNELS AND FOR VALUING PURPOSES IN CONNECTION WITH SECTION 97(4) AND (7) OF THE BOARD'S ACT AND FOR THE CALCULATION OF A BUILDING FEE IN ACCORDANCE WITH BY-LAW 7(1)(a) OF THE BOARD'S ACT.
FAILURE TO SUBMIT THESE PLANS BEFORE COMMENCEMENT OF WORK WILL RENDER THE OWNER LIABLE TO A PENALTY AND MAY RESULT IN THE DEMOLITION OF THE WORK AT THE BUILDER'S EXPENSE.

128 APPROVAL FOR THE SITE AND SIZE OF PROPOSED HOUSEHOLD MAIL BOXES MUST BE OBTAINED FROM AUSTRALIA POST.

131 WHERE CONDITIONS REFER TO"COUNCIL", THIS SHALL MEAN COUNCIL'S ENVIRONMENTAL HEALTH AND BUILDING SURVEYOR.

458 THE SMOKE DEVELOPED, SPREAD OF FLAME AND FLAMMABILITY INDEXES OF THE

**Penrith City Council**

Administrative Centre,
114-116 Henry Street, Penrith  Telephone: (047) 32 7777  DX 8017 Penrith



SARKING AND BUILDING MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF SPECIFICATION C1.10 OF THE BUILDING CODE OF AUSTRALIA.

461 DETAILS OF THE EARLY FIRE HAZARD PROPERTIES OF ALL RELEVANT MATERIALS SHALL BE SUBMITTED TO COUNCIL FOR CONSIDERATION AND ACCEPTANCE PRIOR TO OCCUPATION.

533 A DOOR IN A REQUIRED EXIT OR FORMING PART OF A REQUIRED EXIT SHALL BE READILY OPENABLE WITHOUT A KEY AND BY A SINGLE HANDED ACTION ON A SINGLE DEVICE WHICH IS LOCATED BETWEEN 900MM AND 1200MM FROM THE FLOOR ON THE SIDE THAT WOULD FACE ANY PERSON SEEKING EGRESS FROM THE BUILDING.

601 A HOSE REEL SHALL BE INSTALLED WITHIN THE "B.B.Q. GALORE" SECTION SO THAT ALL POINTS ON THE FLOOR OF THIS SECTION CAN BE REACHED BY A HOSE REEL.

602 HOSE REELS SHALL BE DESIGNED AND INSTALLED WITHIN THE BUILDING IN ACCORDANCE WITH PART EI OF THE BUILDING CODE OF AUSTRALIA. DETAILS FROM A HYDRAULICS ENGINEER SHALL BE SUBMITTED TO COUNCIL PRIOR TO THEIR INSTALLATION.

605 FIRE HOSE REELS SHALL BE LOCATED NOT MORE THAN 4M FROM A REQUIRED EXIT. THE NOZZLES OF THE FIRE HOSE REELS SHALL BE CAPABLE OF REACHING EVERY PART OF THE FLOOR WHEN LAID, TO AVOID ANY PARTITIONS OR OTHER PHYSICAL BARRIERS.

608 DETAILS OF CONNECTION TO THE WATER SUPPLY AUTHORITY'S MAIN, PIPEWORK INCLUDING JUNCTIONS, BENDS, VALVES, PUMPS AND THE LIKE, AND TYPE OF HOSE REEL AND/OR HYDRANT SHALL BE SUBMITTED AND APPROVED BY COUNCIL PRIOR TO COMMENCEMENT OF INSTALLATIONS.

611 SATISFACTORY ARRANGEMENTS SHALL BE MADE WITH COUNCIL"S HEALTH AND BUILDING SURVEYOR FOR AN INSPECTION OF ALL PIPEWORK: INCLUDING CONNECTIONS, BENDS, VALVES AND ANCILLARY EQUIPMENT PRIOR TO BACKFILLING, ENCLOSING OR ENCASING OF PIPES.

728 THE PROPOSED ADDITION/NEW BUILDING SHALL COMPLY WITH PART 59 ADMINISTRATIVE PROVISIONS OF THE BUILDING CODE OF AUSTRALIA WITH REGARD TO THE FOLLOWING ESSENTIAL SERVICES:-

STANDARDS REFERRED TO ARE THE MOST RECENT VERSIONS AS LISTED BY STANDARDS AUSTRALIA

INSTALLATION AND MAINTENANCE STANDARDS

773 HOSE REELS - NSW STATE VARIATIONS CLAUSE E1.4 AND TABLE E1.4.

- AS1221 - "FIRE HOSE REELS".
- AS2441 - "INSTALLATION OF FIRE HOSE REELS".
- MINISTERIAL SPECIFICATION NO.10 DIVISIONS 1 AND 4.
- AS1851 PART 2 - "MAINTENANCE OF FIRE PROTECTION EQUIPMENT - FIRE HOSE REELS".

812 ON COMPLETION OF THE ERECTION OF THE PROPOSED BUILDING WORK, THE OWNER OF

CONTINUED....

**Penrith City Council**

Administrative Centre,
114-116 Henry Street, Penrith Telephone: (047) 32 7777 DX 8017 Penrith



THE BUILDING SHALL PROVIDE COUNCIL WITH A CERTIFICATE FROM A COMPETENT PERSON WITH RESPECT TO EACH ESSENTIAL SERVICE INSTALLED IN THE BUILDING. THIS CERTIFICATE SHALL BE IN THE EFFECT OF FORM 6 OF THE PART 59 ADMINISTRATIVE PROVISIONS OF THE BUILDING CODE OF AUSTRALIA.

815 IT IS THE OWNER'S RESPONSIBILITY TO, WITHIN EACH TWELVE MONTH PERIOD AFTER AN ESSENTIAL SERVICES INSTALLATION CERTIFICATE (PART 59, FORM 6 CERTIFICATE) IS ISSUED TO FURNISH TO THE COUNCIL A FURTHER CERTIFICATE FOR THE MAINTENANCE OF THE ESSENTIAL SERVICES. THE MAINTENANCE CERTIFICATE SHALL BE IN THE EFFECT OF FORM 7 OF PART 59 OF THE ADMINISTRATIVE PROVISIONS OF THE BUILDING CODE OF AUSTRALIA.

883 SEPARATE APPLICATION SHALL BE MADE FOR ALL ADVERTISEMENTS AND ADVERTISING STRUCTURES.

DA970279 PB:JS
Paul Battersby
Direct (047) 32 7681

**ENVIRONMENTAL PLANNING AND ASSESSMENT ACT, 1979**

**NOTICE TO APPLICANT OF DETERMINATION**

**OF A DEVELOPMENT APPLICATION**

Pursuant to Section 92 of the Act, notice is hereby given of the determination by the consent authority of the Development Application.

**D.A. No.** DA970279 **Date of Consent:** 6 August 1997

**Issued to:** Mullane Planning Consultants

**Address:** 12 Mount Street
GLENBROOK 2773

**Land to be developed:** Lot 1 DP771927 (No 61-73) Henry Street, Penrith

**Proposed Development:** Provision of on-site parking.

**Date of Determination:** 6 August 1997

**The Development Application has been determined by granting of consent subject to the conditions specified in this notice.**

Note: This consent will operate from the date of consent at the top of this notice. This consent will lapse in two (2) years from the date of consent, unless development has commenced within that time.

**The conditions of consent are set out as follows:**

1 The development being carried out substantially in accordance with the plan and support details submitted to Council on 25 July 1997 with the development application, as amended by the following conditions.

2 The eastern most parking space proposed at the rear of Building 1 being deleted to maintain adequate access to existing parking spaces.

3 The parking spaces being paved, linemarked and maintained to Council's satisfaction.

4 The parking spaces within the loading dock to building 1 being removed should any future use of the building require such a facility.

5 The tandem parking spaces within the loading dock to Building 1 being located and linemarked so as to provide a minimum 1m wide path of travel from the adjacent egress door in the building to the Lawson Street property boundary. In this regard it will be necessary to provide bollards or vehicle wheel stops and construct a path through and satisfactorily reinstate the boundary landscaping.

6 The Lawson Street end of the internal service road being signposted "one way".

7 Appropriate planting being reinstated within the landscape area along the eastern side boundary towards the Belmore Street end of the site.

**These conditions have been imposed for the following reasons:**

1 To ensure compliance with the terms of the relevant Planning Instrument.

2 To ensure that no injury is caused to the existing and likely future amenity of the neighbourhood.

3 Due to the circumstances of the case and the public interest.

4 To ensure that requirements relating to Health and Building matters will be met.

5 To ensure that access, parking and loading arrangements will be made to satisfy the demands created by the development.

Notice is hereby given of the right of appeal against the decision of Council pursuant to the Environmental Planning and Assessment Act, 1979.

The granting of the above application does not relieve the Applicant of the obligation to obtain any other approval required under the Local Government Act, 1993, or any other Act and Ordinances under such Acts.

PB

Paul Battersby
**for the Environmental Planning Manager**

Dated this Sixth day of August 1997

**APPENDIX G**

---

**ENGINEERING LOG - BOREHOLE**

GEOTECHNIQUE
PTY LTD

# engineering log - borehole

**Client :** J Wyndham Prince Pty Ltd
**Project :** Proposed Multi Storey Mixed Development
**Location :** 61-79 Henry Street, Penrith

**Job No. :** 14561/2
**Borehole No. :** BH1
**Date :** 30/10/2019
**Logged/Checked by:** RR

**drill model and mounting :** Christie Hydropower Rig **slope :** **deg.** **R.L. surface :** ≅31.436

**hole diameter :** 75 **mm** **bearing :** **deg.** **datum :** AHD

| method | groundwater | env samples | PID reading (ppm) | geo samples | field test | depth or R.L. in meters | graphic log | classification symbol | MATERIAL DESCRIPTION<br>soil type, plasticity or particle characteristic, colour, secondary and minor components. | moisture condition | consistency density index | hand penetrometer kPa | Remarks and additional observations |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TC Bit | | | | | | 0 | | | Asphaltic Concrete (40mm)<br>Road base Gravel (160mm) | | | | Wearing Course<br>Base Course |
| | | GP | | | | | | | FILL: Silty Clay, medium plasticity, brown grey, with mixed gravel and ironstone | M=OMC | | | Moderately Compacted |
| | | GP | | DS | n=4<br>2,2,2 | 0.5 | | | | | | | |
| | | | | | | 1 | | | | | | | |
| | | G | | | | | | CL-CI | Silty CLAY, low to medium plasticity, red, with ironstone | M<PL | St | | Alluvial |
| | | | | DS | n=8<br>4,4,4 | 1.5 | | | | | | | |
| | | G | | | | | | CI | Silty Sandy CLAY, medium plasticity, pale brown mottled orange | | | | |
| | | G | | | | 2 | | CI-CH | CLAY, medium to high plasticity, brown grey | | VSt | | |
| | | | | | | 2.5 | | | | | | | |
| | | | | DS | n=15<br>5,7,8 | 3 | | | | | | | |
| | | G | | | | 3.5 | | | | | | | |
| | | G | | DS | n=14<br>5,6,8 | 4 | | | | | | | |
| | | | | | | 4.5 | | CI-CH | Sandy CLAY, medium to high plasticity, grey/ orange, with ironstone gravel | M>PL | | | Ironstone gravel band at 4.5m |

GEOTECHNIQUE
PTY LTD

# engineering log - borehole

**Client :** J Wyndham Prince Pty Ltd
**Project :** Proposed Multi Storey Mixed Development
**Location :** 61-79 Henry Street, Penrith

**Job No. :** 14561/2
**Borehole No. :** BH1
**Date :** 30/10/2019
**Logged/Checked by:** RR

**drill model and mounting :** Christie Hydropower Rig **slope :** **deg.** **R.L. surface :** ≅31.436

**hole diameter :** 75 **mm** **bearing :** **deg.** **datum :** AHD

| method | groundwater | env samples | PID reading (ppm) | geo samples | field test | depth or R.L. in meters | graphic log | classification symbol | MATERIAL DESCRIPTION<br>soil type, plasticity or particle characteristic, colour, secondary and minor components. | moisture condition | consistency density index | hand penetrometer kPa | Remarks and additional observations |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ▼ | | | | | 5 | | | | | | | Groundwater table at 5.0m |
| | | | | | | 5.5 | | | | | | | |
| | | | | DS | n=9<br>4,4,5 | 6 | | | | | | | |
| | | G | | | | 6.5 | | | | | | | |
| | | | | | | 7 | | | | | | | |
| | | | | | n=<br>Refusal<br>20/100 | 7.5 | | | SHALE, grey, low to medium strength, extremely to distinctly weathered | | | | Bedrock |
| | | | | | | 8 | | | | | | | |
| | | | | | | 8.5 | | | SHALE, grey, medium to high strength, distinctly to slightly weathered | | | | |
| | | | | | | 9 | | | | | | | |
| | | | | | | 9.5 | | | Started coring BH1 at 9.4m | | | | |

GEOTECHNIQUE PTY LTD

# engineering log - borehole

**Client :** J Wyndham Prince Pty Ltd
**Project :** Proposed Multi Storey Mixed Development
**Location :** 61-79 Henry Street, Penrith

**Job No. :** 14561/2
**Borehole No. :** BH2
**Date :** 31/10/2019
**Logged/Checked by:** RR

**drill model and mounting :** Christie Hydropower Rig **slope :** **deg.** **R.L. surface :** ≅31.989

**hole diameter :** 75 **mm** **bearing :** **deg.** **datum :** AHD

| method | groundwater | env samples | PID reading (ppm) | geo samples | field test | depth or R.L. in meters | graphic log | classification symbol | MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components. | moisture condition | consistency density index | hand penetrometer kPa | Remarks and additional observations |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TC Bit | | | | | | 0 | | | Asphaltic Concrete (40mm) | | | | Wearing Course |
| | | | | | | | | | Road base Gravel (160mm) | | | | Base Course |
| | | GP | | | | | | | FILL: Silty Clay, low to medium plasticity, grey/ brown | M=OMC | | | Well Compacted |
| | | G | | DS | n=9 3,4,5 | 0.5 | | CI | Silty CLAY, medium plasticity, red/brown, traces of ironstone gravel | M<PL | St | | Alluvial |
| | | | | DS | n=18 6,9,9 | 1.5 | | | | | | | |
| | | G | | | | 2.5 | | CI-CH | Silty CLAY, medium to high plasticity, red/grey | M=PL | VSt | | |
| | | | | DS | n=8 3,3,5 | 3.5 | | | | | | | |
| | | G | | | | 4 | | CI-CH | Silty Sandy CLAY, medium to high plasticity, grey/red with yellow staining, traces of ironstone gravel | | | | |
| | | | | DS | n=13 4,5,8 | 4.5 | | | | | | | |

GEOTECHNIQUE
PTY LTD

# engineering log - borehole

**Client :** J Wyndham Prince Pty Ltd
**Project :** Proposed Multi Storey Mixed Development
**Location :** 61-79 Henry Street, Penrith

**Job No. :** 14561/2
**Borehole No. :** BH2
**Date :** 31/10/2019
**Logged/Checked by:** RR

**drill model and mounting :** Christie Hydropower Rig **slope :** **deg.** **R.L. surface :** ≅31.989

**hole diameter :** 75 **mm** **bearing :** **deg.** **datum :** AHD

| method | groundwater | env samples | PID reading (ppm) | geo samples | field test | depth or R.L. in meters | graphic log | classification symbol | MATERIAL DESCRIPTION<br>soil type, plasticity or particle characteristic, colour, secondary and minor components. | moisture condition | consistency density index | hand penetrometer kPa | Remarks and additional observations |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 5 | | | | | | | |
| | | | | | | 5.5 | | | SHALE, grey, extremely to distinctly weathered, low to medium strength, with clay bands | | | | Bedrock |
| | | | | | n= Refusal 20/50 | 6 | | | | | | | |
| | | | | | | 6.5 | | | | | | | |
| | | | | | | 7 | | | | | | | |
| | | | | | | | | | Started coring BH2 at 7.1m | | | | |
| | | | | | | 7.5 | | | | | | | |
| | | | | | | 8 | | | | | | | |
| | | | | | | 8.5 | | | | | | | |
| | | | | | | 9 | | | | | | | |
| | | | | | | 9.5 | | | | | | | |

GEOTECHNIQUE
PTY LTD

# engineering log - borehole

**Client :** J Wyndham Prince Pty Ltd
**Project :** Proposed Multi Storey Mixed Development
**Location :** 61-79 Henry Street, Penrith

**Job No. :** 14561/2
**Borehole No. :** BH3
**Date :** 31/10/2019
**Logged/Checked by:** RR

**drill model and mounting :** Christie Hydropower Rig **slope :** **deg.** **R.L. surface :** ≅35.091

**hole diameter :** 125 **mm** **bearing :** **deg.** **datum :** AHD

| method | groundwater | env samples | PID reading (ppm) | geo samples | field test | depth or R.L. in meters | graphic log | classification symbol | MATERIAL DESCRIPTION<br>soil type, plasticity or particle characteristic, colour, secondary and minor components. | moisture condition | consistency density index | hand penetrometer kPa | Remarks and additional observations |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 0 | | | Concrete cement (150mm) | | | | Driveway Pavement |
| | | GP | | | | 0.5 | | | FILL: Sand, fine grained, yellow/grey | M=OMC | | | Bedding sand next to stormwater pipe |
| | | | | DS | n=9<br>4,4,5 | | | | | | | | |
| | | GP | | | | 1 | | | | | | | |
| | | | | | | 1.5 | | | | | | | |
| | | | | DS | n=16<br>7,6,10 | | | | SHALE, grey, very low to low strength, extremely weathered, with clay bands | | | | Bedrock |
| | | G | | | | 2 | | | | | | | |
| | | | | | | 2.5 | | | | | | | |
| | | | | | | 3 | | | SHALE, grey, low strength, extremely to distinctly weathered | | | | |
| | | | | | | 3.5 | | | | | | | |
| | | | | | | 4 | | | | | | | |
| | | | | | | 4.5 | | | | | | | |

GEOTECHNIQUE
PTY LTD

# engineering log - borehole

**Client :** J Wyndham Prince Pty Ltd
**Project :** Proposed Multi Storey Mixed Development
**Location :** 61-79 Henry Street, Penrith

**Job No. :** 14561/2
**Borehole No. :** BH3
**Date :** 31/10/2019
**Logged/Checked by:** RR

**drill model and mounting :** Christie Hydropower Rig **slope :** **deg.** **R.L. surface :** ≅35.091

**hole diameter :** 125 **mm** **bearing :** **deg.** **datum :** AHD

| method | groundwater | env samples | PID reading (ppm) | geo samples | field test | depth or R.L. in meters | graphic log | classification symbol | MATERIAL DESCRIPTION<br>soil type, plasticity or particle characteristic, colour, secondary and minor components. | moisture condition | consistency density index | hand penetrometer kPa | Remarks and additional observations |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 5 | | | | | | | |
| | | | | | | 5.5 | | | SHALE, grey, low to medium strength, extremely to distinctly weathered | | | | |
| | | | | | | 6 | | | | | | | |
| | | | | | | 6.5 | | | SHALE, grey, medium to high strength, distinctly weathered | | | | |
| | | | | | | 7 | | | | | | | |
| | | | | | | | | | Started coring BH3 at 7.2 | | | | |
| | | | | | | 7.5 | | | | | | | |
| | | | | | | 8 | | | | | | | |
| | | | | | | 8.5 | | | | | | | |
| | | | | | | 9 | | | | | | | |
| | | | | | | 9.5 | | | | | | | |

GEOTECHNIQUE
PTY LTD

# engineering log - borehole

**Client :** J Wyndham Prince Pty Ltd
**Project :** Proposed Multi Storey Mixed Development
**Location :** 61-79 Henry Street, Penrith

**Job No. :** 14561/2
**Borehole No. :** BH4
**Date :** 01/11/2019
**Logged/Checked by:** RR

**drill model and mounting :** Christie Hydropower Rig **slope :** **deg.** **R.L. surface :** ≅31.574

**hole diameter :** 75 **mm** **bearing :** **deg.** **datum :** AHD

| method | groundwater | env samples | PID reading (ppm) | geo samples | field test | depth or R.L. in meters | graphic log | classification symbol | MATERIAL DESCRIPTION<br>soil type, plasticity or particle characteristic, colour, secondary and minor components. | moisture condition | consistency density index | hand penetrometer kPa | Remarks and additional observations |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TC Bit | | | | | | 0 | | | Concrete Cement (200mm) | | | | Driveway Pavement |
| | | G | | | | | | CL-CI | Silty CLAY, low to medium plasticity, red mottled brown | M<PL | VSt | | Residual |
| | | | | DS | n= Refusal 4,12,15/ 100 | 0.5 | | | | | | | |
| | | | | | | 1 | | | SHALE, grey, very low strength, residual soil to extremely weathered, with clay bands | | | | Bedrock |
| | | | | | n= Refusal 9,20/100 | 1.5 | | | | | | | |
| | | | | | | 2 | | | | | | | |
| | | | | | | 2.5 | | | | | | | |
| | | | | | | 3 | | | | | | | |
| | | | | | | | | | SHALE, grey, low to medium strength, extremely to distinctly weathered | | | | |
| | | | | | | 3.5 | | | | | | | |
| | | | | | | 4 | | | | | | | |
| | | | | | | 4.5 | | | | | | | |

GEOTECHNIQUE
PTY LTD

# engineering log - borehole

**Client :** J Wyndham Prince Pty Ltd
**Project :** Proposed Multi Storey Mixed Development
**Location :** 61-79 Henry Street, Penrith

**Job No. :** 14561/2
**Borehole No. :** BH4
**Date :** 01/11/2019
**Logged/Checked by:** RR

**drill model and mounting :** Christie Hydropower Rig **slope :** **deg.** **R.L. surface :** ≅31.574

**hole diameter :** 75 **mm** **bearing :** **deg.** **datum :** AHD

| method | groundwater | env samples | PID reading (ppm) | geo samples | field test | depth or R.L. in meters | graphic log | classification symbol | MATERIAL DESCRIPTION<br>soil type, plasticity or particle characteristic, colour, secondary and minor components. | moisture condition | consistency density index | hand penetrometer kPa | Remarks and additional observations |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DRY | | | | | 5 | | | | | | | |
| | | | | | | 5.5 | | | Started coring BH4 at 5.3m | | | | |
| | | | | | | 6 | | | | | | | |
| | | | | | | 6.5 | | | | | | | |
| | | | | | | 7 | | | | | | | |
| | | | | | | 7.5 | | | | | | | |
| | | | | | | 8 | | | | | | | |
| | | | | | | 8.5 | | | | | | | |
| | | | | | | 9 | | | | | | | |
| | | | | | | 9.5 | | | | | | | |

GEOTECHNIQUE PTY LTD

# engineering log - borehole

**Client :** J Wyndham Prince Pty Ltd
**Project :** Proposed Multi Storey Mixed Development
**Location :** 61-79 Henry Street, Penrith

**Job No. :** 14561/2
**Borehole No. :** BH5
**Date :** 01/11/2019
**Logged/Checked by:** RR

**drill model and mounting :** Chrisite Hydropower Rig **slope :** **deg.** **R.L. surface :** ≅33.086

**hole diameter :** 75 **mm** **bearing :** **deg.** **datum :** AHD

| method | groundwater | env samples | PID reading (ppm) | geo samples | field test | depth or R.L. in meters | graphic log | classification symbol | MATERIAL DESCRIPTION soil type, plasticity or particle characteristic, colour, secondary and minor components. | moisture condition | consistency density index | hand penetrometer kPa | Remarks and additional observations |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 0 | | | Concrete Cement (500mm) | | | | Driveway Pavement |
| | | GP | | DS | n=11 5,5,6 | 0.5 | | | FILL: Silty Clay, low to medium plasticity, brown, traces of gravel | M=OMC | | | Well compacted |
| | | GP | | | | 1 | | | | | | | |
| | | GP | | DS | n=13 5,6,7 | 1.5 | | | FILL: Silty Clay, medium to high plasticity, grey/ brown | | | | |
| | | GP | | | n=16 6,7,9 | 2 | | | | | | | |
| | | GP | | | | 2.5 | | | | | | | |
| | | G | | | | 3 | | | | | | | |
| | | | | | | 3.5 | | | | | | | |
| | | | | | | 4 | | CI-CH | Silty CLAY, medium to high plasticity, grey/ brown | M<PL | St | | Natural |
| | | | | | | 4.5 | | | | | | | |

GEOTECHNIQUE
PTY LTD

# engineering log - borehole

**Client :** J Wyndham Prince Pty Ltd
**Project :** Proposed Multi Storey Mixed Development
**Location :** 61-79 Henry Street, Penrith

**Job No. :** 14561/2
**Borehole No. :** BH5
**Date :** 01/11/2019
**Logged/Checked by:** RR

**drill model and mounting :** Chrisite Hydropower Rig **slope :** **deg.** **R.L. surface :** ≅33.086

**hole diameter :** 75 **mm** **bearing :** **deg.** **datum :** AHD

| method | groundwater | env samples | PID reading (ppm) | geo samples | field test | depth or R.L. in meters | graphic log | classification symbol | MATERIAL DESCRIPTION<br>soil type, plasticity or particle characteristic, colour, secondary and minor components. | moisture condition | consistency density index | hand penetrometer kPa | Remarks and additional observations |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TC Bit | | | | | | 5 | | | | | | | |
| | | | | | | 5.5 | | | SHALE, grey/orange, very low strength, extremely weathered, with clay bands | | | | Bedrock |
| | | | | | | 6 | | | | | | | |
| | | | | | | 6.5 | | | | | | | |
| | | | | | | 7 | | | | | | | |
| | | | | | | 7.5 | | | SHALE, grey, low to medium strength, distinctly weathered | | | | |
| | | | | | | 8 | | | | | | | |
| | | | | | | 8.5 | | | SHALE, grey, medium to high strength, distinctly to slightly weathered | | | | |
| | | | | | | 9 | | | | | | | |
| | | | | | | 9.5 | | | | | | | |

GEOTECHNIQUE
PTY LTD

# engineering log - borehole

**Client :** J Wyndham Prince Pty Ltd
**Project :** Proposed Multi Storey Mixed Development
**Location :** 61-79 Henry Street, Penrith

**Job No. :** 14561/2
**Borehole No. :** BH5
**Date :** 01/11/2019
**Logged/Checked by:** RR

**drill model and mounting :** Chrisite Hydropower Rig **slope :** **deg.** **R.L. surface :** ≅33.086

**hole diameter :** 75 **mm** **bearing :** **deg.** **datum :** AHD

| method | groundwater | env samples | PID reading (ppm) | geo samples | field test | depth or R.L. in meters | graphic log | classification symbol | MATERIAL DESCRIPTION<br>soil type, plasticity or particle characteristic, colour, secondary and minor components. | moisture condition | consistency density index | hand penetrometer kPa | Remarks and additional observations |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DRY | | | | | 10 | | | | | | | |
| | | | | | | 10.5 | | | Terminated BH5 at 10.5m | | | | |
| | | | | | | 11 | | | | | | | |
| | | | | | | 11.5 | | | | | | | |
| | | | | | | 12 | | | | | | | |
| | | | | | | 12.5 | | | | | | | |
| | | | | | | 13 | | | | | | | |
| | | | | | | 13.5 | | | | | | | |
| | | | | | | 14 | | | | | | | |
| | | | | | | 14.5 | | | | | | | |

GEOTECHNIQUE
PTY LTD

# Log Symbols & Abbreviations (Non-cored Borehole Log)

| Log Column | Symbol/Value | | Description |
|---|---|---|---|
| Drilling Method | V-bit | | Hardened steel 'V' shaped bit attached to auger |
| | TC-bit | | Tungsten Carbide bit attached to auger |
| | RR | | Tricone (Rock Roller) bit |
| | DB | | Drag bit |
| | BB | | Blade bit |
| Groundwater | Dry | | Groundwater not encountered to the drilled or auger refusal depth |
| | ▼ | | Groundwater level at depths shown on log |
| | ▶ | | Groundwater seepage at depths shown on log |
| Environment Sample | GP | | Glass bottle and plastic bag sample over depths shown on log |
| | G | | Glass bottle sample over depths shown on log |
| | P | | Plastic bag sample over depths shown on log |
| PID Reading | 100 | | PID reading in ppm |
| Geotechnical Sample | DS | | Disturbed Small bag sample over depths shown on log |
| | DB | | Disturbed Bulk sample over depths shown on log |
| | $U_{50}$ | | Undisturbed 50mm tube sample over depths shown on log |
| Field Test | N=10<br>3,5,5 | | Standard Penetration Test (SPT) 'N' value. Individual numbers indicate blows per 150mm penetration. |
| | N=R<br>10,15/100 | | 'R' represents refusal to penetration in hard/very dense soils or in cobbles or boulders.<br>The first number represents10 blows for 150mm penetration whereas the second number represents 15 blows for 100mm penetration where SPT met refusal |
| | DCP/PSP | 5<br>6<br>R/10 | Dynamic Cone Penetration (DCP) or Perth Sand Penetrometer (PSP). Each number represents blows per 100mm penetration. 'R/10' represents refusal after 10mm penetration in hard/very dense soils or in gravels or boulders. |
| Classification | GP | | Poorly Graded GRAVEL |
| | GW | | Well graded GRAVEL |
| | GM | | Silty GRAVEL |
| | GC | | Clayey GRAVEL |
| | SP | | Poorly graded SAND |
| | SW | | Well graded SAND |
| | SM | | Silty SAND |
| | SC | | Clayey SAND |
| | ML | | SILT / Sandy SILT / clayey SILT, low plasticity |
| | MI | | SILT / Sandy SILT / clayey SILT, medium plasticity |
| | MH | | SILT / Sandy SILT / clayey SILT, high plasticity |
| | CL | | CLAY / Silty CLAY / Sandy CLAY / Gravelly CLAY, low plasticity |
| | CI | | CLAY / Silty CLAY / Sandy CLAY / Gravelly CLAY, medium plasticity |
| | CH | | CLAY / Silty CLAY / Sandy CLAY / Gravelly CLAY, high plasticity |
| Moisture Condition<br>Cohesive soils | M<PL | | Moisture content less than Plastic Limit |
| | M=PL | | Moisture content equal to Plastic Limit |
| | M>PL | | Moisture content to be greater than Plastic Limit |
| Cohesionless soils | D | | Dry - Runs freely through hand |
| | M | | Moist - Tends to cohere |
| | W | | Wet - Tends to cohere |

| Consistency<br>Cohesive soils | Term | Undrained shear strength, $C_u$ (kPa) | Hand Penetrometer (Qu) |
|---|---|---|---|
| VS | Very Soft | ≤12 | <25 |
| S | Soft | >12 ≤25 | 25 – 50 |
| F | Firm | >25 ≤50 | 50 – 100 |
| St | Stiff | >50 ≤100 | 100 – 200 |
| VSt | Very Stiff | >100 ≤200 | 200 – 400 |
| H | Hard | >200 | >400 |

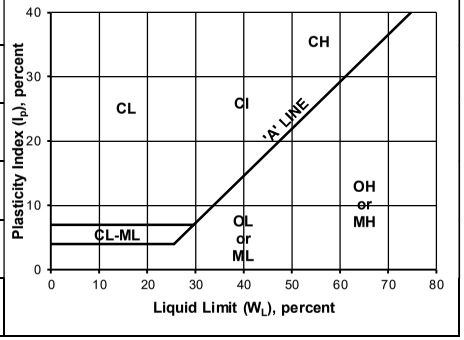
| Density Index<br>Cohesionless soils | Term | Density Index, $I_D$ (%) | SPT 'N' (blows/300mm) |
|---|---|---|---|
| VL | Very Loose | ≤15 | ≤5 |
| L | Loose | >15 ≤35 | >5 ≤10 |
| M | Medium Dense | >35 ≤65 | >10 ≤30 |
| D | Dense | >65 ≤85 | >30 ≤50 |
| VD | Very Dense | >85 | >50 |

| | | |
|---|---|---|
| Hand Penetrometer | 100<br>200 | Unconfined compressive strength ($q_u$) in kPa determined using pocket penetrometer, at depths shown on log |
| Remarks | | Geological origin of soils |
| | Residual | Residual soils above bedrock |
| | Alluvium | River deposited Alluvial soils |
| | Colluvial | Gravity deposited Colluvial soils |
| | Aeolian | Wind deposited Aeolian soils |
| | Marine | Marine Soils |

GEOTECHNIQUE PTY LTD

# AS1726 – Unified Soil Classification System

| Major Divisions | | Particle size (mm) | Group Symbol | Typical Names | Field Identifications Sand and Gravels | | | Laboratory classification: Use the gradation of material passing 63mm for classification of fractions according to the criteria given in 'Major Divisions' | % (2) < 0.075mm | Plasticity of Fine Fraction | $C_u = D_{60}/D_{10}$ | $C_c = (D_{30})^2/(D_{10}D_{60})$ | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COARSE GRAINED SOILS (more than half of material less 63mm is larger than 0.075mm) | BOULDERS | 200 | | | | | | | | | | | |
| | COBBLES | 63 | | | | | | | | | | | |
| | GRAVELS (more than half of coarse fraction is larger than 2.36mm) | Coarse 20 | GW | Well-graded gravels, gravel-sand mixtures, little or no fines | Wide range in grain size and substantial amounts of all intermediate sizes, not enough fines to bind coarse grains, no dry strength | | | | 0-5 | - | >4 | between 1 and 3 | 1. Identify lines by the method given for fine grained soils |
| | | | GP | Poorly graded gravels, gravel-sand mixtures, little or no fines, uniform gravels | Predominantly one size or range of sizes with some intermediate sizes missing, not enough fines to bind coarse grains, no dry strength | | | | 0-5 | - | Fails to comply with above | | |
| | | Medium 6 | GM | Silty gravels, gravel-sand-silt mixtures | 'Dirty' materials with excess of non-plastic fines, zero to medium dry strength | | | | 12-50 | Below 'A' line or $I_p$<4 | - | - | 2. Borderline classifications occur when the percentage of fines (fraction smaller than 0.075mm size) is greater than 5% and less than 12%. Borderline classifications require the use of dual symbols e.g. SP-SM, GW-GC |
| | | Fine 2.36 | GC | Clayey gravels, gravel-sand-clay mixtures | 'Dirty' materials with excess of plastic fines, medium to high dry strength | | | | 12-50 | Above 'A' line or $I_p$>7 | - | - | |
| | SANDS (more than half of coarse fraction is smaller than 2.36mm) | Coarse 0.6 | SW | Well-graded sands, gravelly sands, little or no fines | Wide range in grain size and substantial amounts of all intermediate sizes, not enough fines to bind coarse grains, no dry strength | | | | 0-5 | - | >6 | between 1 and 3 | |
| | | Medium 0.2 | SP | Poorly graded sands and gravelly sands; little or no fines, uniform sands | Predominantly one size or range of sizes with some intermediate sizes missing, not enough fines to bind coarse grains, no dry strength | | | | 0-5 | - | Fails to comply with above | | |
| | | | SM | Silty sands, sand-silt mixtures | 'Dirty' materials with excess of non-plastic fines, zero to medium dry strength | | | | 12-50 | Below 'A' line or $I_p$<4 | - | - | |
| | | Fine 0.075 | SC | Clayey sand, sand-clay mixtures | 'Dirty' materials with excess of plastic fines, medium to high dry strength | | | | 12-50 | Above 'A' line of $I_p$>7 | - | - | |
| FINE GRAINED SOILS (more than half of material less than 63mm is smaller than 0.075mm) | | | | | **Dry Strength** | **Dilatancy** | **Toughness** | | | | | | |
| | SILTS & CLAYS (liquid limit < 50%) | | ML | Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity | None to low | Quick to slow | None | More than 50% passing 0.075mm | | Below 'A' line | | | |
| | | | CL, CI | Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays | Medium to high | None to very slow | Medium | | | Above 'A' line | | | |
| | | | OL | Organic silts and organic silty clays of low plasticity | Low to medium | Slow | Low | | | Below 'A' line | | | |
| | SILTS & CLAYS (liquid limit > 50%) | | MH | Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts | Low to medium | Slow to none | Low to medium | | | Below 'A' line | | | |
| | | | CH | Inorganic clays of medium to high plasticity, fat clays | High to very high | None | High | | | Above 'A' line | | | |
| | | | OH | Organic clays of medium to high plasticity, organic silts | Medium to high | None to very slow | Low to medium | | | Below 'A' line | | | |
| | HIGHLY ORGANIC SOILS | | Pt | Peat and highly organic soils | Identified by colour, odour, spongy feel and generally by fibrous texture | | | | Effervesces with $H_2O_2$ | | | | |



GEOTECHNIQUE
PTY LTD

## Log Symbols & Abbreviations (Cored Borehole Log)

| Log Column | Symbol | Description |
|---|---|---|
| Core Size | | Nominal Core Size (mm) |
| | NQ | 47 |
| | NMLC | 52 |
| | HQ | 63 |
| Water Loss | ◀ | Complete water loss |
| | ◁ | Partial water loss |
| Weathering | FR | Fresh — Rock shows no sign of decomposition or staining |
| | SW | Slightly Weathered — Rock is slightly discoloured but shows little or no change of strength from fresh rock |
| | DW | Distinctly Weathered — Rock strength usually changed by weathering. The rock may be highly discoloured, usually by ironstaining. Porosity may be increased by leaching, or may be decreased by deposition of weathering products in pores |
| | EW | Extremely Weathered — Rock is weathered to such an extent that it has 'soil' properties, i.e. it either disintegrate or can be remoulded, in water |
| | RS | Residual Soil — Soil developed on extremely weathered rock; the mass structure and substance fabric are no longer evident; there is a large change in volume but soil has not been significantly transported |
| Strength | | Term — Point Load Strength Index ($I_{s50}$, MPa) |
| | EL | Extremely Low — ≤0.03 |
| | VL | Very Low — >0.03 ≤0.1 |
| | L | Low — >0.1 ≤0.3 |
| | M | Medium — >0.3 ≤1 |
| | H | High — >1 ≤3 |
| | VH | Very High — >3 ≤10 |
| | EH | Extremely High — >10 |
| Defect Spacing | | Description — Spacing (mm) |
| | | Extremely closely spaced — <20 |
| | | Very closely spaced — 20 to 60 |
| | | Closely spaced — 60 to 200 |
| | | Medium spaced — 200 to 600 |
| | | Widely spaced — 600 to 2000 |
| | | Very widely spaced — 2000 to 6000 |
| | | Extremely widely spaced — >6000 |
| Defect Description | | |
| Type | Bp | Bedding parting |
| | Fp | Foliation parting |
| | Jo | Joint |
| | Sh | Sheared zone |
| | Cs | Crushed seam |
| | Ds | Decomposed seam |
| | Is | Infilled seam |
| Macro-surface geometry | St | Stepped |
| | Cu | Curved |
| | Un | Undulating |
| | Ir | Irregular |
| | Pl | Planar |
| Micro-surface geometry | Ro | Rough |
| | Sm | Smooth |
| | Sl | Slickensided |
| Coating or infilling | cn | clean |
| | sn | stained |
| | vn | veneer |
| | cg | coating |

## AS1726 – Identification of Sedimentary Rocks for Engineering Purposes

| Grain Size mm | | Bedded rocks (mostly sedimentary) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| More than 20 | 20 | Grain Size Description | | | At least 50% of grains are of carbonate | | | At least 50% of grains are of fine-grained volcanic rock | |
| | 6 | RUDACEOUS | | CONGLOMERATE<br>Rounded boulders, cobbles and gravel cemented in a finer matrix | | | Calcirudite | Fragments of volcanic ejecta in a finer matrix | SALINE ROCKS |
| | 2 | | | Breccia<br>Irregular rock fragments in a finer matrix | | | | Rounded grains<br>AGGLOMERATE<br>Angular grains<br>VOLCANIC BRECCIA | Halite<br><br>Anhydrite |
| | 0.6 | ARENACEOUS | Coarse | SANDSTONE<br>Angular or rounded grains, commonly cemented by clay, calcite or iron minerals | | | | Cemented volcanic ash | Gypsum |
| | 0.2 | | Medium | Quartzite<br>Quartz grains and siliceous cement | | | Calcarenite | TUFF | |
| | 0.06 | | Fine | Arkose<br>Many feldspar grains<br>Greywacke<br>Many rock chips | | | | | |
| | 0.002 | ARGILLACEOUS | | MUDSTONE | SILTSTONE<br>Mostly silt | Calcareous Mudstone | Calcisiltite | Fine-grained TUFF | |
| | Less than 0.002 | | | SHALE<br>Fissile | CLAYSTONE<br>Mostly clay | | Calcilutite | Very fine-grained TUFF | |
| Amorphous or crypto-crystalline | | | | Flint: occurs as hands of nodules in the chalk<br>Chert: occurs as nodules and beds in limestone and calcareous sandstone | | | | | COAL<br>LIGNITE |
| | | | | Granular cemented – except amorphous rocks | | | | | |
| | | | | SILICEOUS | CALCAREOUS | | | SILICEOUS | CARBONACEOUS |
| | | | | SEDIMENTARY ROCKS<br>Granular cemented rocks vary greatly in strength, some sandstones are stronger than many Igneous rocks. Bedding may not show in hand specimens and is best seen in outcrop. Only sedimentary rocks, and some metamorphic rocks derived from them, contain fossils<br><br>Calcareous rocks contain calcite (calcium carbonate) which effervesces with dilute hydrochloric acid | | | | | |

## AS1726 – Identification of Metamorphic and Igneous Rocks for Engineering Purposes

| Obviously foliated rocks (mostly metamorphic) | | Rocks with massive structure and crystalline texture (mostly igneous) | | | | | | Grain size (mm) |
|---|---|---|---|---|---|---|---|---|
| Grain size description | | | Grain size description | Pegmatite | | | Pyrosenite | More than 20 |
| | | MARBLE | | | | | | 20 |
| | GNEISS<br>Well developed but often widely spaced foliation sometimes with schistose bands | QUARTZITE | | GRANITE | Diorite | GABBRO | Peridorite | 6 |
| COARSE | | Granulite | COARSE | These rocks are sometimes phorphyritic and are then described, for example, as porphyritic granite | | | | |
| | Migmatite<br>Irregularly foliated: mixed schists and gneisses | HORNFELS | | | | | | 2 |
| | SCHIST<br>Well developed undulose foliation; generally much mica | Amphibolite | | Micorgranite | Microdiorite | | | 0.6 |
| MEDIUM | | Serpentine | MEDIUM | These rocks are sometimes phorphyritic and are then described as porphyries | | Dolerite | | 0.2 |
| | | | | | | | | 0.06 |
| | PHYLLITE<br>Slightly undulose foliation; sometimes 'spotted' | | | RHYOLITE | ANDESITE | | | 0.002 |
| FINE | SLATE<br>Well developed plane cleavage (foliation) | | FINE | These rocks are sometimes phorphyritic and are then described as porphyries | | BASALT | | Less than 0.002 |
| | Mylonite<br>Found in fault zones, mainly in igneous and metamorphic areas | | | Obsidian | Volcanic glass | | | Amorphous or cryptocrystalline |
| CRYSTALLINE | | | | Pale<----------->Dark | | | | |
| SILICEOUS | | Mainly SILICEOUS | | ACID<br>Much quartz | INTERMEDIATE<br>Some quartz | BASIC<br>Little or no quartz | ULTRA BASIC | |
| METAMORPHIC ROCKS<br>Most metamorphic rocks are distinguished by foliation which may impart fissility. Foliation in gneisses is best observed in outcrop. Non-foliated metamorphics are difficult to recognize except by association. Any rock baked by contact metamorphism is described as 'hornfels' and is generally somewhat stronger than the parent rock<br><br>Most fresh metamorphic rocks are strong although perhaps fissile | | | IGNEOUS ROCKS<br>Composed of closely interlocking mineral grains. Strong when fresh; not porous<br><br>Mode of occurrence : 1 Batholith; 2 Laccoliths; 3 Sills; 4 Dykes; 5 Lava Flows; 6 Veins | | | | | |

**APPENDIX H**

---

**GROUNDWATER MAP**

Real-time water data

realtimedata.waternsw.com.au

WaterNSW

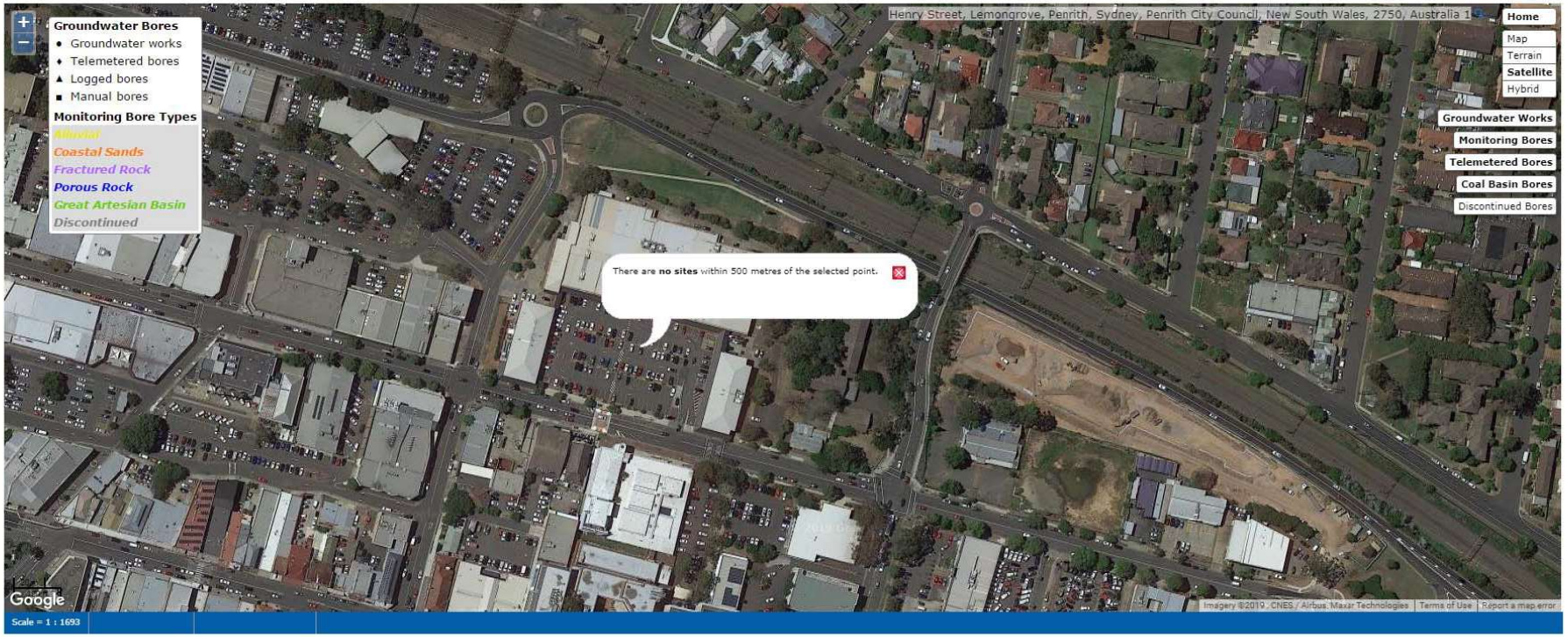
All Groundwater Site Details » All Groundwater Map

## Greater Sydney Region

bookmark this page

All data times are Eastern Standard Time

Map




contact WaterNSW

8:42 AM
31/10/2019

**APPENDIX I**

---

**LABORATORY TEST RESULTS REPORTS/CERTIFICATES**

# ANALYTICAL REPORT

Accreditation No. 2562

## CLIENT DETAILS

| | |
|---|---|
| Contact | Anwar Barbhuyia |
| Client | Geotechnique |
| Address | P.O. Box 880<br>PENRITH NSW 2751 |
| Telephone | 02 4722 2700 |
| Facsimile | 02 4722 6161 |
| Email | anwar@geotech.com.au |
| Project | **14561/1 Penrith** |
| Order Number | (Not specified) |
| Samples | 17 |

## LABORATORY DETAILS

| | |
|---|---|
| Manager | Huong Crawford |
| Laboratory | SGS Alexandria Environmental |
| Address | Unit 16, 33 Maddox St<br>Alexandria NSW 2015 |
| Telephone | +61 2 8594 0400 |
| Facsimile | +61 2 8594 0499 |
| Email | au.environmental.sydney@sgs.com |
| SGS Reference | **SE199558 R0** |
| Date Received | 1/11/2019 |
| Date Reported | 7/11/2019 |

## COMMENTS

Accredited for compliance with ISO/IEC 17025 - Testing. NATA accredited laboratory 2562(4354).

No respirable fibres detected in all soil samples using trace analysis technique.

Sample 11: Asbestos found in approx 4x3x2mm cement sheet fragments.

Asbestos analysed by Approved Identifier Yusuf Kuthpudin.

## SIGNATORIES

**Dong LIANG**
Metals/Inorganics Team Leader

**Huong CRAWFORD**
Production Manager

**Kamrul AHSAN**
Senior Chemist

**Ly Kim HA**
Organic Section Head

**Ravee SIVASUBRAMANIAM**
Hygiene Team Leader

**Shane MCDERMOTT**
Inorganic/Metals Chemist

## VOC's in Soil [AN433] Tested: 4/11/2019

| PARAMETER | UOM | LOR | BH1<br>CLAY<br>0.2-0.35<br>30/10/2019<br>SE199558.001 | BH1<br>CLAY<br>0.7-0.85<br>30/10/2019<br>SE199558.002 | BH1<br>CLAY<br>1.25-1.35<br>30/10/2019<br>SE199558.003 | BH2<br>CLAY<br>0.25-0.4<br>31/10/2019<br>SE199558.007 | BH2<br>CLAY<br>0.7-0.8<br>31/10/2019<br>SE199558.008 |
|---|---|---|---|---|---|---|---|
| Benzene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Toluene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Ethylbenzene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| m/p-xylene | mg/kg | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| o-xylene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Total Xylenes | mg/kg | 0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Total BTEX | mg/kg | 0.6 | <0.6 | <0.6 | <0.6 | <0.6 | <0.6 |
| Naphthalene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |

| PARAMETER | UOM | LOR | BH3<br>SAND<br>0.1-0.25<br>31/10/2019<br>SE199558.011 | BH3<br>SAND<br>0.8-0.95<br>31/10/2019<br>SE199558.012 | DSS1<br>CLAY<br>-<br>30/10/2019<br>SE199558.013 | TS1<br>SAND<br>-<br>31/10/2019<br>SE199558.016 | TS2<br>SAND<br>-<br>31/10/2019<br>SE199558.017 |
|---|---|---|---|---|---|---|---|
| Benzene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | [88%] | [72%] |
| Toluene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | [97%] | [77%] |
| Ethylbenzene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | [102%] | [78%] |
| m/p-xylene | mg/kg | 0.2 | <0.2 | <0.2 | <0.2 | [103%] | [78%] |
| o-xylene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | [104%] | [77%] |
| Total Xylenes | mg/kg | 0.3 | <0.3 | <0.3 | <0.3 | - | - |
| Total BTEX | mg/kg | 0.6 | <0.6 | <0.6 | <0.6 | - | - |
| Naphthalene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | - | - |

## Volatile Petroleum Hydrocarbons in Soil [AN433] Tested: 4/11/2019

| PARAMETER | UOM | LOR | BH1<br>CLAY<br>0.2-0.35<br>30/10/2019<br>SE199558.001 | BH1<br>CLAY<br>0.7-0.85<br>30/10/2019<br>SE199558.002 | BH1<br>CLAY<br>1.25-1.35<br>30/10/2019<br>SE199558.003 | BH2<br>CLAY<br>0.25-0.4<br>31/10/2019<br>SE199558.007 | BH2<br>CLAY<br>0.7-0.8<br>31/10/2019<br>SE199558.008 |
|---|---|---|---|---|---|---|---|
| TRH C6-C9 | mg/kg | 20 | <20 | <20 | <20 | <20 | <20 |
| Benzene (F0) | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| TRH C6-C10 | mg/kg | 25 | <25 | <25 | <25 | <25 | <25 |
| TRH C6-C10 minus BTEX (F1) | mg/kg | 25 | <25 | <25 | <25 | <25 | <25 |

| PARAMETER | UOM | LOR | BH3<br>SAND<br>0.1-0.25<br>31/10/2019<br>SE199558.011 | BH3<br>SAND<br>0.8-0.95<br>31/10/2019<br>SE199558.012 | DSS1<br>CLAY<br>-<br>30/10/2019<br>SE199558.013 | TS1<br>SAND<br>-<br>31/10/2019<br>SE199558.016 | TS2<br>SAND<br>-<br>31/10/2019<br>SE199558.017 |
|---|---|---|---|---|---|---|---|
| TRH C6-C9 | mg/kg | 20 | <20 | <20 | <20 | - | - |
| Benzene (F0) | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | - | - |
| TRH C6-C10 | mg/kg | 25 | <25 | <25 | <25 | - | - |
| TRH C6-C10 minus BTEX (F1) | mg/kg | 25 | <25 | <25 | <25 | - | - |

## TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 4/11/2019

| PARAMETER | UOM | LOR | BH1<br>CLAY<br>0.2-0.35<br>30/10/2019<br>SE199558.001 | BH1<br>CLAY<br>0.7-0.85<br>30/10/2019<br>SE199558.002 | BH1<br>CLAY<br>1.25-1.35<br>30/10/2019<br>SE199558.003 | BH2<br>CLAY<br>0.25-0.4<br>31/10/2019<br>SE199558.007 | BH2<br>CLAY<br>0.7-0.8<br>31/10/2019<br>SE199558.008 |
|---|---|---|---|---|---|---|---|
| TRH C10-C14 | mg/kg | 20 | <20 | <20 | <20 | <20 | <20 |
| TRH C15-C28 | mg/kg | 45 | <45 | <45 | <45 | <45 | <45 |
| TRH C29-C36 | mg/kg | 45 | <45 | <45 | <45 | <45 | <45 |
| TRH C37-C40 | mg/kg | 100 | <100 | <100 | <100 | <100 | <100 |
| TRH >C10-C16 | mg/kg | 25 | <25 | <25 | <25 | <25 | <25 |
| TRH >C10-C16 - Naphthalene (F2) | mg/kg | 25 | <25 | <25 | <25 | <25 | <25 |
| TRH >C16-C34 (F3) | mg/kg | 90 | <90 | <90 | <90 | <90 | <90 |
| TRH >C34-C40 (F4) | mg/kg | 120 | <120 | <120 | <120 | <120 | <120 |
| TRH C10-C36 Total | mg/kg | 110 | <110 | <110 | <110 | <110 | <110 |
| TRH >C10-C40 Total (F bands) | mg/kg | 210 | <210 | <210 | <210 | <210 | <210 |

| PARAMETER | UOM | LOR | BH3<br>SAND<br>0.1-0.25<br>31/10/2019<br>SE199558.011 | BH3<br>SAND<br>0.8-0.95<br>31/10/2019<br>SE199558.012 | DSS1<br>CLAY<br>-<br>30/10/2019<br>SE199558.013 |
|---|---|---|---|---|---|
| TRH C10-C14 | mg/kg | 20 | <20 | <20 | <20 |
| TRH C15-C28 | mg/kg | 45 | <45 | <45 | <45 |
| TRH C29-C36 | mg/kg | 45 | <45 | <45 | <45 |
| TRH C37-C40 | mg/kg | 100 | <100 | <100 | <100 |
| TRH >C10-C16 | mg/kg | 25 | <25 | <25 | <25 |
| TRH >C10-C16 - Naphthalene (F2) | mg/kg | 25 | <25 | <25 | <25 |
| TRH >C16-C34 (F3) | mg/kg | 90 | <90 | <90 | <90 |
| TRH >C34-C40 (F4) | mg/kg | 120 | <120 | <120 | <120 |
| TRH C10-C36 Total | mg/kg | 110 | <110 | <110 | <110 |
| TRH >C10-C40 Total (F bands) | mg/kg | 210 | <210 | <210 | <210 |

## PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 4/11/2019

| PARAMETER | UOM | LOR | BH1<br>CLAY<br>0.2-0.35<br>30/10/2019<br>SE199558.001 | BH1<br>CLAY<br>0.7-0.85<br>30/10/2019<br>SE199558.002 | BH1<br>CLAY<br>1.25-1.35<br>30/10/2019<br>SE199558.003 | BH2<br>CLAY<br>0.25-0.4<br>31/10/2019<br>SE199558.007 | BH2<br>CLAY<br>0.7-0.8<br>31/10/2019<br>SE199558.008 |
|---|---|---|---|---|---|---|---|
| Naphthalene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 2-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 1-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Acenaphthylene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Acenaphthene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Fluorene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Phenanthrene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Anthracene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Fluoranthene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Pyrene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Benzo(a)anthracene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Chrysene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Benzo(b&j)fluoranthene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Benzo(k)fluoranthene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Benzo(a)pyrene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Dibenzo(ah)anthracene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Benzo(ghi)perylene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Carcinogenic PAHs, BaP TEQ <LOR=0 | TEQ (mg/kg) | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Carcinogenic PAHs, BaP TEQ <LOR=LOR | TEQ (mg/kg) | 0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Carcinogenic PAHs, BaP TEQ <LOR=LOR/2 | TEQ (mg/kg) | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Total PAH (18) | mg/kg | 0.8 | <0.8 | <0.8 | <0.8 | <0.8 | <0.8 |
| Total PAH (NEPM/WHO 16) | mg/kg | 0.8 | <0.8 | <0.8 | <0.8 | <0.8 | <0.8 |

| PARAMETER | UOM | LOR | BH3<br>SAND<br>0.1-0.25<br>31/10/2019<br>SE199558.011 | BH3<br>SAND<br>0.8-0.95<br>31/10/2019<br>SE199558.012 | DSS1<br>CLAY<br>-<br>30/10/2019<br>SE199558.013 |
|---|---|---|---|---|---|
| Naphthalene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 |
| 2-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 |
| 1-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 |
| Acenaphthylene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 |
| Acenaphthene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 |
| Fluorene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 |
| Phenanthrene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 |
| Anthracene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 |
| Fluoranthene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 |
| Pyrene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 |
| Benzo(a)anthracene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 |
| Chrysene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 |
| Benzo(b&j)fluoranthene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 |
| Benzo(k)fluoranthene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 |
| Benzo(a)pyrene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 |
| Dibenzo(ah)anthracene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 |
| Benzo(ghi)perylene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 |
| Carcinogenic PAHs, BaP TEQ <LOR=0 | TEQ (mg/kg) | 0.2 | <0.2 | <0.2 | <0.2 |
| Carcinogenic PAHs, BaP TEQ <LOR=LOR | TEQ (mg/kg) | 0.3 | <0.3 | <0.3 | <0.3 |
| Carcinogenic PAHs, BaP TEQ <LOR=LOR/2 | TEQ (mg/kg) | 0.2 | <0.2 | <0.2 | <0.2 |
| Total PAH (18) | mg/kg | 0.8 | <0.8 | <0.8 | <0.8 |
| Total PAH (NEPM/WHO 16) | mg/kg | 0.8 | <0.8 | <0.8 | <0.8 |

## OC Pesticides in Soil [AN420] Tested: 4/11/2019

| PARAMETER | UOM | LOR | BH1 CLAY 0.2-0.35 30/10/2019 SE199558.001 | BH1 CLAY 0.7-0.85 30/10/2019 SE199558.002 | BH1 CLAY 1.25-1.35 30/10/2019 SE199558.003 | BH2 CLAY 0.25-0.4 31/10/2019 SE199558.007 | BH2 CLAY 0.7-0.8 31/10/2019 SE199558.008 |
|---|---|---|---|---|---|---|---|
| Hexachlorobenzene (HCB) | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Alpha BHC | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Lindane | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Heptachlor | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Aldrin | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Beta BHC | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Delta BHC | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Heptachlor epoxide | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| o,p'-DDE | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Alpha Endosulfan | mg/kg | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Gamma Chlordane | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Alpha Chlordane | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| trans-Nonachlor | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| p,p'-DDE | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Dieldrin | mg/kg | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Endrin | mg/kg | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| o,p'-DDD | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| o,p'-DDT | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Beta Endosulfan | mg/kg | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| p,p'-DDD | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| p,p'-DDT | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Endosulfan sulphate | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Endrin Aldehyde | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Methoxychlor | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Endrin Ketone | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Isodrin | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Mirex | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |

## OC Pesticides in Soil [AN420] Tested: 4/11/2019 (continued)

| PARAMETER | UOM | LOR | BH3<br>SAND<br>0.1-0.25<br>31/10/2019<br>SE199558.011 | BH3<br>SAND<br>0.8-0.95<br>31/10/2019<br>SE199558.012 | DSS1<br>CLAY<br>-<br>30/10/2019<br>SE199558.013 |
|---|---|---|---|---|---|
| Hexachlorobenzene (HCB) | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 |
| Alpha BHC | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 |
| Lindane | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 |
| Heptachlor | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 |
| Aldrin | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 |
| Beta BHC | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 |
| Delta BHC | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 |
| Heptachlor epoxide | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 |
| o,p'-DDE | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 |
| Alpha Endosulfan | mg/kg | 0.2 | <0.2 | <0.2 | <0.2 |
| Gamma Chlordane | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 |
| Alpha Chlordane | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 |
| trans-Nonachlor | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 |
| p,p'-DDE | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 |
| Dieldrin | mg/kg | 0.05 | <0.05 | <0.05 | <0.05 |
| Endrin | mg/kg | 0.2 | <0.2 | <0.2 | <0.2 |
| o,p'-DDD | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 |
| o,p'-DDT | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 |
| Beta Endosulfan | mg/kg | 0.2 | <0.2 | <0.2 | <0.2 |
| p,p'-DDD | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 |
| p,p'-DDT | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 |
| Endosulfan sulphate | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 |
| Endrin Aldehyde | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 |
| Methoxychlor | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 |
| Endrin Ketone | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 |
| Isodrin | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 |
| Mirex | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 |

## PCBs in Soil [AN420] Tested: 4/11/2019

| PARAMETER | UOM | LOR | BH1<br>CLAY<br>0.2-0.35<br>30/10/2019<br>SE199558.001 | BH1<br>CLAY<br>0.7-0.85<br>30/10/2019<br>SE199558.002 | BH1<br>CLAY<br>1.25-1.35<br>30/10/2019<br>SE199558.003 | BH2<br>CLAY<br>0.25-0.4<br>31/10/2019<br>SE199558.007 | BH2<br>CLAY<br>0.7-0.8<br>31/10/2019<br>SE199558.008 |
|---|---|---|---|---|---|---|---|
| Arochlor 1016 | mg/kg | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Arochlor 1221 | mg/kg | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Arochlor 1232 | mg/kg | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Arochlor 1242 | mg/kg | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Arochlor 1248 | mg/kg | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Arochlor 1254 | mg/kg | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Arochlor 1260 | mg/kg | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Arochlor 1262 | mg/kg | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Arochlor 1268 | mg/kg | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Total PCBs (Arochlors) | mg/kg | 1 | <1 | <1 | <1 | <1 | <1 |

| PARAMETER | UOM | LOR | BH3<br>SAND<br>0.1-0.25<br>31/10/2019<br>SE199558.011 | BH3<br>SAND<br>0.8-0.95<br>31/10/2019<br>SE199558.012 | DSS1<br>CLAY<br>-<br>30/10/2019<br>SE199558.013 |
|---|---|---|---|---|---|
| Arochlor 1016 | mg/kg | 0.2 | <0.2 | <0.2 | <0.2 |
| Arochlor 1221 | mg/kg | 0.2 | <0.2 | <0.2 | <0.2 |
| Arochlor 1232 | mg/kg | 0.2 | <0.2 | <0.2 | <0.2 |
| Arochlor 1242 | mg/kg | 0.2 | <0.2 | <0.2 | <0.2 |
| Arochlor 1248 | mg/kg | 0.2 | <0.2 | <0.2 | <0.2 |
| Arochlor 1254 | mg/kg | 0.2 | <0.2 | <0.2 | <0.2 |
| Arochlor 1260 | mg/kg | 0.2 | <0.2 | <0.2 | <0.2 |
| Arochlor 1262 | mg/kg | 0.2 | <0.2 | <0.2 | <0.2 |
| Arochlor 1268 | mg/kg | 0.2 | <0.2 | <0.2 | <0.2 |
| Total PCBs (Arochlors) | mg/kg | 1 | <1 | <1 | <1 |

## Total Phenolics in Soil [AN289] Tested: 7/11/2019

| PARAMETER | UOM | LOR | BH1<br>CLAY<br>0.2-0.35<br>30/10/2019<br>SE199558.001 | BH1<br>CLAY<br>0.7-0.85<br>30/10/2019<br>SE199558.002 | BH2<br>CLAY<br>0.25-0.4<br>31/10/2019<br>SE199558.007 | BH3<br>SAND<br>0.1-0.25<br>31/10/2019<br>SE199558.011 | BH3<br>SAND<br>0.8-0.95<br>31/10/2019<br>SE199558.012 |
|---|---|---|---|---|---|---|---|
| Total Phenols | mg/kg | 5 | <5 | <5 | <5 | <5 | <5 |

| PARAMETER | UOM | LOR | DSS1<br>CLAY<br>-<br>30/10/2019<br>SE199558.013 |
|---|---|---|---|
| Total Phenols | mg/kg | 5 | <5 |

## pH in soil (1:5) [AN101] Tested: 5/11/2019

| PARAMETER | UOM | LOR | BH1<br>CLAY<br>0.2-0.35<br>30/10/2019<br>SE199558.001 | BH1<br>CLAY<br>0.7-0.85<br>30/10/2019<br>SE199558.002 | BH1<br>CLAY<br>1.25-1.35<br>30/10/2019<br>SE199558.003 | BH1<br>CLAY<br>1.8-1.9<br>30/10/2019<br>SE199558.004 | BH1<br>CLAY<br>2.3-2.4<br>30/10/2019<br>SE199558.005 |
|---|---|---|---|---|---|---|---|
| pH | pH Units | 0.1 | 9.3 | 9.2 | 7.2 | 7.5 | 8.1 |

| PARAMETER | UOM | LOR | BH1<br>CLAY<br>4.5-4.6<br>30/10/2019<br>SE199558.006 | BH2<br>CLAY<br>0.25-0.4<br>31/10/2019<br>SE199558.007 | BH2<br>CLAY<br>0.7-0.8<br>31/10/2019<br>SE199558.008 | BH2<br>CLAY<br>2.6-2.7<br>31/10/2019<br>SE199558.009 | BH2<br>CLAY<br>4.1-4.2<br>31/10/2019<br>SE199558.010 |
|---|---|---|---|---|---|---|---|
| pH | pH Units | 0.1 | 8.1 | 7.4 | 5.9 | 5.2 | 4.6 |

| PARAMETER | UOM | LOR | BH3<br>SAND<br>0.1-0.25<br>31/10/2019<br>SE199558.011 | BH3<br>SAND<br>0.8-0.95<br>31/10/2019<br>SE199558.012 |
|---|---|---|---|---|
| pH | pH Units | 0.1 | 8.5 | 8.3 |

## Exchangeable Cations and Cation Exchange Capacity (CEC/ESP/SAR) [AN122] Tested: 5/11/2019

| PARAMETER | UOM | LOR | BH1 CLAY 0.2-0.35 30/10/2019 SE199558.001 | BH1 CLAY 0.7-0.85 30/10/2019 SE199558.002 | BH1 CLAY 1.25-1.35 30/10/2019 SE199558.003 | BH1 CLAY 1.8-1.9 30/10/2019 SE199558.004 | BH1 CLAY 2.3-2.4 30/10/2019 SE199558.005 |
|---|---|---|---|---|---|---|---|
| Exchangeable Sodium, Na | mg/kg | 2 | 810 | 790 | 820 | 860 | 1200 |
| Exchangeable Sodium, Na | meq/100g | 0.01 | 3.5 | 3.4 | 3.6 | 3.7 | 5.1 |
| Exchangeable Sodium Percentage* | % | 0.1 | 19.4 | 19.6 | 25.6 | 26.8 | 29.5 |
| Exchangeable Potassium, K | mg/kg | 2 | 220 | 210 | 130 | 100 | 140 |
| Exchangeable Potassium, K | meq/100g | 0.01 | 0.55 | 0.55 | 0.34 | 0.26 | 0.36 |
| Exchangeable Potassium Percentage* | % | 0.1 | 3.1 | 3.1 | 2.4 | 1.8 | 2.1 |
| Exchangeable Calcium, Ca | mg/kg | 2 | 1900 | 1800 | 810 | 680 | 620 |
| Exchangeable Calcium, Ca | meq/100g | 0.01 | 9.5 | 9.1 | 4.1 | 3.4 | 3.1 |
| Exchangeable Calcium Percentage* | % | 0.1 | 52.8 | 51.9 | 29.2 | 24.4 | 17.8 |
| Exchangeable Magnesium, Mg | mg/kg | 2 | 540 | 550 | 730 | 800 | 1100 |
| Exchangeable Magnesium, Mg | meq/100g | 0.02 | 4.5 | 4.5 | 5.9 | 6.5 | 8.8 |
| Exchangeable Magnesium Percentage* | % | 0.1 | 24.7 | 25.4 | 42.7 | 47.0 | 50.6 |
| Cation Exchange Capacity | meq/100g | 0.02 | 18 | 18 | 14 | 14 | 17 |

| PARAMETER | UOM | LOR | BH1 CLAY 4.5-4.6 30/10/2019 SE199558.006 | BH2 CLAY 0.25-0.4 31/10/2019 SE199558.007 | BH2 CLAY 0.7-0.8 31/10/2019 SE199558.008 | BH2 CLAY 2.6-2.7 31/10/2019 SE199558.009 | BH2 CLAY 4.1-4.2 31/10/2019 SE199558.010 |
|---|---|---|---|---|---|---|---|
| Exchangeable Sodium, Na | mg/kg | 2 | 1100 | 560 | 550 | 1200 | 1500 |
| Exchangeable Sodium, Na | meq/100g | 0.01 | 4.8 | 2.4 | 2.4 | 5.0 | 6.7 |
| Exchangeable Sodium Percentage* | % | 0.1 | 39.1 | 21.4 | 24.3 | 44.5 | 42.2 |
| Exchangeable Potassium, K | mg/kg | 2 | 110 | 140 | 120 | 84 | 170 |
| Exchangeable Potassium, K | meq/100g | 0.01 | 0.29 | 0.36 | 0.31 | 0.22 | 0.45 |
| Exchangeable Potassium Percentage* | % | 0.1 | 2.4 | 3.2 | 3.2 | 1.9 | 2.8 |
| Exchangeable Calcium, Ca | mg/kg | 2 | 370 | 730 | 530 | 38 | 74 |
| Exchangeable Calcium, Ca | meq/100g | 0.01 | 1.9 | 3.7 | 2.7 | 0.19 | 0.37 |
| Exchangeable Calcium Percentage* | % | 0.1 | 15.4 | 32.0 | 27.0 | 1.7 | 2.4 |
| Exchangeable Magnesium, Mg | mg/kg | 2 | 640 | 610 | 550 | 720 | 1000 |
| Exchangeable Magnesium, Mg | meq/100g | 0.02 | 5.2 | 5.0 | 4.5 | 5.9 | 8.3 |
| Exchangeable Magnesium Percentage* | % | 0.1 | 43.1 | 43.4 | 45.4 | 51.9 | 52.7 |
| Cation Exchange Capacity | meq/100g | 0.02 | 12 | 11 | 9.9 | 11 | 16 |

| PARAMETER | UOM | LOR | BH3 SAND 0.1-0.25 31/10/2019 SE199558.011 | BH3 SAND 0.8-0.95 31/10/2019 SE199558.012 |
|---|---|---|---|---|
| Exchangeable Sodium, Na | mg/kg | 2 | 58 | 240 |
| Exchangeable Sodium, Na | meq/100g | 0.01 | 0.25 | 1.0 |
| Exchangeable Sodium Percentage* | % | 0.1 | 4.3 | 12.7 |
| Exchangeable Potassium, K | mg/kg | 2 | 51 | 81 |
| Exchangeable Potassium, K | meq/100g | 0.01 | 0.13 | 0.21 |
| Exchangeable Potassium Percentage* | % | 0.1 | 2.2 | 2.5 |
| Exchangeable Calcium, Ca | mg/kg | 2 | 820 | 800 |
| Exchangeable Calcium, Ca | meq/100g | 0.01 | 4.1 | 4.0 |
| Exchangeable Calcium Percentage* | % | 0.1 | 69.8 | 48.4 |
| Exchangeable Magnesium, Mg | mg/kg | 2 | 170 | 370 |
| Exchangeable Magnesium, Mg | meq/100g | 0.02 | 1.4 | 3.0 |
| Exchangeable Magnesium Percentage* | % | 0.1 | 23.7 | 36.4 |
| Cation Exchange Capacity | meq/100g | 0.02 | 5.9 | 8.2 |

## Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 5/11/2019

| PARAMETER | UOM | LOR | BH1<br>CLAY<br>0.2-0.35<br>30/10/2019<br>SE199558.001 | BH1<br>CLAY<br>0.7-0.85<br>30/10/2019<br>SE199558.002 | BH1<br>CLAY<br>1.25-1.35<br>30/10/2019<br>SE199558.003 | BH1<br>CLAY<br>1.8-1.9<br>30/10/2019<br>SE199558.004 | BH1<br>CLAY<br>2.3-2.4<br>30/10/2019<br>SE199558.005 |
|---|---|---|---|---|---|---|---|
| Arsenic, As | mg/kg | 1 | 3 | 3 | 6 | 6 | 3 |
| Cadmium, Cd | mg/kg | 0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Chromium, Cr | mg/kg | 0.5 | 7.1 | 7.1 | 24 | 11 | 7.1 |
| Copper, Cu | mg/kg | 0.5 | 47 | 37 | 26 | 22 | 18 |
| Lead, Pb | mg/kg | 1 | 9 | 11 | 33 | 16 | 9 |
| Nickel, Ni | mg/kg | 0.5 | 69 | 53 | 16 | 13 | 7.8 |
| Zinc, Zn | mg/kg | 2 | 57 | 52 | 62 | 40 | 22 |

| PARAMETER | UOM | LOR | BH1<br>CLAY<br>4.5-4.6<br>30/10/2019<br>SE199558.006 | BH2<br>CLAY<br>0.25-0.4<br>31/10/2019<br>SE199558.007 | BH2<br>CLAY<br>0.7-0.8<br>31/10/2019<br>SE199558.008 | BH2<br>CLAY<br>2.6-2.7<br>31/10/2019<br>SE199558.009 | BH2<br>CLAY<br>4.1-4.2<br>31/10/2019<br>SE199558.010 |
|---|---|---|---|---|---|---|---|
| Arsenic, As | mg/kg | 1 | 9 | 4 | 5 | 7 | 11 |
| Cadmium, Cd | mg/kg | 0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Chromium, Cr | mg/kg | 0.5 | 9.8 | 6.9 | 11 | 15 | 9.2 |
| Copper, Cu | mg/kg | 0.5 | 30 | 28 | 13 | 8.1 | 15 |
| Lead, Pb | mg/kg | 1 | 13 | 18 | 15 | 11 | 13 |
| Nickel, Ni | mg/kg | 0.5 | 9.0 | 16 | 4.0 | 1.5 | 1.6 |
| Zinc, Zn | mg/kg | 2 | 50 | 42 | 16 | 12 | 16 |

| PARAMETER | UOM | LOR | BH3<br>SAND<br>0.1-0.25<br>31/10/2019<br>SE199558.011 | BH3<br>SAND<br>0.8-0.95<br>31/10/2019<br>SE199558.012 | DSS1<br>CLAY<br>-<br>30/10/2019<br>SE199558.013 |
|---|---|---|---|---|---|
| Arsenic, As | mg/kg | 1 | 2 | 3 | 5 |
| Cadmium, Cd | mg/kg | 0.3 | <0.3 | <0.3 | <0.3 |
| Chromium, Cr | mg/kg | 0.5 | 8.5 | 6.1 | 7.9 |
| Copper, Cu | mg/kg | 0.5 | 8.9 | 10 | 42 |
| Lead, Pb | mg/kg | 1 | 6 | 20 | 15 |
| Nickel, Ni | mg/kg | 0.5 | 14 | 13 | 55 |
| Zinc, Zn | mg/kg | 2 | 30 | 42 | 74 |

## Mercury in Soil [AN312] Tested: 5/11/2019

| PARAMETER | UOM | LOR | BH1<br>CLAY<br>0.2-0.35<br>30/10/2019<br>SE199558.001 | BH1<br>CLAY<br>0.7-0.85<br>30/10/2019<br>SE199558.002 | BH1<br>CLAY<br>1.25-1.35<br>30/10/2019<br>SE199558.003 | BH1<br>CLAY<br>1.8-1.9<br>30/10/2019<br>SE199558.004 | BH1<br>CLAY<br>2.3-2.4<br>30/10/2019<br>SE199558.005 |
|---|---|---|---|---|---|---|---|
| Mercury | mg/kg | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |

| PARAMETER | UOM | LOR | BH1<br>CLAY<br>4.5-4.6<br>30/10/2019<br>SE199558.006 | BH2<br>CLAY<br>0.25-0.4<br>31/10/2019<br>SE199558.007 | BH2<br>CLAY<br>0.7-0.8<br>31/10/2019<br>SE199558.008 | BH2<br>CLAY<br>2.6-2.7<br>31/10/2019<br>SE199558.009 | BH2<br>CLAY<br>4.1-4.2<br>31/10/2019<br>SE199558.010 |
|---|---|---|---|---|---|---|---|
| Mercury | mg/kg | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |

| PARAMETER | UOM | LOR | BH3<br>SAND<br>0.1-0.25<br>31/10/2019<br>SE199558.011 | BH3<br>SAND<br>0.8-0.95<br>31/10/2019<br>SE199558.012 | DSS1<br>CLAY<br>-<br>30/10/2019<br>SE199558.013 |
|---|---|---|---|---|---|
| Mercury | mg/kg | 0.05 | <0.05 | <0.05 | <0.05 |

## Moisture Content [AN002] Tested: 4/11/2019

| PARAMETER | UOM | LOR | BH1<br>CLAY<br>0.2-0.35<br>30/10/2019<br>SE199558.001 | BH1<br>CLAY<br>0.7-0.85<br>30/10/2019<br>SE199558.002 | BH1<br>CLAY<br>1.25-1.35<br>30/10/2019<br>SE199558.003 | BH1<br>CLAY<br>1.8-1.9<br>30/10/2019<br>SE199558.004 | BH1<br>CLAY<br>2.3-2.4<br>30/10/2019<br>SE199558.005 |
|---|---|---|---|---|---|---|---|
| % Moisture | %w/w | 1 | 9.6 | 10.3 | 12.7 | 13.3 | 13.3 |

| PARAMETER | UOM | LOR | BH1<br>CLAY<br>4.5-4.6<br>30/10/2019<br>SE199558.006 | BH2<br>CLAY<br>0.25-0.4<br>31/10/2019<br>SE199558.007 | BH2<br>CLAY<br>0.7-0.8<br>31/10/2019<br>SE199558.008 | BH2<br>CLAY<br>2.6-2.7<br>31/10/2019<br>SE199558.009 | BH2<br>CLAY<br>4.1-4.2<br>31/10/2019<br>SE199558.010 |
|---|---|---|---|---|---|---|---|
| % Moisture | %w/w | 1 | 16.4 | 11.4 | 12.5 | 15.5 | 16.8 |

| PARAMETER | UOM | LOR | BH3<br>SAND<br>0.1-0.25<br>31/10/2019<br>SE199558.011 | BH3<br>SAND<br>0.8-0.95<br>31/10/2019<br>SE199558.012 | DSS1<br>CLAY<br>-<br>30/10/2019<br>SE199558.013 |
|---|---|---|---|---|---|
| % Moisture | %w/w | 1 | 2.2 | 4.6 | 12.9 |

## Fibre Identification in soil [AN602] Tested: 6/11/2019

| PARAMETER | UOM | LOR | BH1<br>CLAY<br>0.2-0.35<br>30/10/2019<br>SE199558.001 | BH1<br>CLAY<br>0.7-0.85<br>30/10/2019<br>SE199558.002 | BH2<br>CLAY<br>0.25-0.4<br>31/10/2019<br>SE199558.007 | BH3<br>SAND<br>0.1-0.25<br>31/10/2019<br>SE199558.011 | BH3<br>SAND<br>0.8-0.95<br>31/10/2019<br>SE199558.012 |
|---|---|---|---|---|---|---|---|
| Asbestos Detected | No unit | - | No | No | No | Yes | No |
| Estimated Fibres* | %w/w | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |

## Gravimetric Determination of Asbestos in Soil [AN605] Tested: 6/11/2019

| PARAMETER | UOM | LOR | BH1<br>CLAY<br>0.2-0.35<br>30/10/2019<br>SE199558.001 | BH1<br>CLAY<br>0.7-0.85<br>30/10/2019<br>SE199558.002 | BH2<br>CLAY<br>0.25-0.4<br>31/10/2019<br>SE199558.007 | BH3<br>SAND<br>0.1-0.25<br>31/10/2019<br>SE199558.011 | BH3<br>SAND<br>0.8-0.95<br>31/10/2019<br>SE199558.012 |
|---|---|---|---|---|---|---|---|
| Total Sample Weight* | g | 1 | **580** | **541** | **569** | **555** | **581** |
| ACM in >7mm Sample* | g | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| AF/FA in >2mm to <7mm Sample* | g | 0.0001 | <0.0001 | <0.0001 | <0.0001 | **0.0242** | <0.0001 |
| AF/FA in <2mm Sample* | g | 0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 |
| Asbestos in soil ( >7mm ACM)* | %w/w | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Asbestos in soil (>2mm to <7mm AF/FA)* | %w/w | 0.001 | <0.001 | <0.001 | <0.001 | **0.004** | <0.001 |
| Asbestos in soil (<2mm AF/FA)* | %w/w | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Asbestos in soil (<7mm AF/FA)* | %w/w | 0.001 | <0.001 | <0.001 | <0.001 | **0.004** | <0.001 |
| Fibre Type* | No unit | - | - | - | - | - | - |

## Metals in Water (Dissolved) by ICPOES [AN320] Tested: 5/11/2019

| PARAMETER | UOM | LOR | RS1<br>WATER<br>-<br>30/10/2019<br>SE199558.014 | RS2<br>WATER<br>-<br>31/10/2019<br>SE199558.015 |
|---|---|---|---|---|
| Arsenic, As | mg/L | 0.02 | <0.02 | <0.02 |
| Cadmium, Cd | mg/L | 0.001 | <0.001 | <0.001 |
| Chromium, Cr | mg/L | 0.005 | <0.005 | <0.005 |
| Copper, Cu | mg/L | 0.005 | <0.005 | <0.005 |
| Lead, Pb | mg/L | 0.02 | <0.02 | <0.02 |
| Nickel, Ni | mg/L | 0.005 | <0.005 | <0.005 |
| Zinc, Zn | mg/L | 0.01 | <0.01 | <0.01 |

## Mercury (dissolved) in Water [AN311(Perth)/AN312] Tested: 5/11/2019

| PARAMETER | UOM | LOR | RS1<br>WATER<br>-<br>30/10/2019<br>SE199558.014 | RS2<br>WATER<br>-<br>31/10/2019<br>SE199558.015 |
|---|---|---|---|---|
| Mercury | mg/L | 0.0001 | <0.0001 | <0.0001 |

| METHOD | METHODOLOGY SUMMARY |
|---|---|
| AN002 | The test is carried out by drying (at either 40°C or 105°C) a known mass of sample in a weighed evaporating basin. After fully dry the sample is re-weighed. Samples such as sludge and sediment having high percentages of moisture will take some time in a drying oven for complete removal of water. |
| AN020 | Unpreserved water sample is filtered through a 0.45µm membrane filter and acidified with nitric acid similar to APHA3030B. |
| AN040/AN320 | A portion of sample is digested with nitric acid to decompose organic matter and hydrochloric acid to complete the digestion of metals. The digest is then analysed by ICP OES with metals results reported on the dried sample basis. Based on USEPA method 200.8 and 6010C. |
| AN040 | A portion of sample is digested with Nitric acid to decompose organic matter and Hydrochloric acid to complete the digestion of metals and then filtered for analysis by ASS or ICP as per USEPA Method 200.8. |
| AN101 | pH in Soil Sludge Sediment and Water: pH is measured electrometrically using a combination electrode and is calibrated against 3 buffers purchased commercially. For soils, sediments and sludges, an extract with water (or 0.01M CaCl2) is made at a ratio of 1:5 and the pH determined and reported on the extract. Reference APHA 4500-H+. |
| AN122 | Exchangeable Cations, CEC and ESP: Soil sample is extracted in 1M Ammonium Acetate at pH=7 (or 1M Ammonium Chloride at pH=7) with cations (Na, K, Ca & Mg) then determined by ICP OES/ICP MS and reported as Exchangeable Cations. For saline soils, these results can be corrected for water soluble cations and reported as Exchangeable cations in meq/100g or soil can be pre-treated (aqueous ethanol/aqueous glycerol) prior to extraction. Cation Exchange Capacity (CEC) is the sum of the exchangeable cations in meq/100g. |
| AN122 | The Exchangeable Sodium Percentage (ESP) is calculated as the exchangeable sodium divided by the CEC (all in meq/100g) times 100.<br>ESP can be used to categorise the sodicity of the soil as below:<br><br>ESP < 6% non-sodic<br>ESP 6-15% sodic<br>ESP >15% strongly sodic<br><br>Method is referenced to Rayment and Lyons, 2011, sections 15D3 and 15N1.- |
| AN289 | Analysis of Total Phenols in Soil Sediment and Water: Steam distillable phenols react with 4-aminoantipyrine at pH 7.9±0.1 in the presence of potassium ferricyanide to form a coloured antipyrine dye analysed by Discrete Analyser. Reference APHA 5530 B/D. |
| AN311(Perth)/AN312 | Mercury by Cold Vapour AAS in Waters: Mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500. |
| AN312 | Mercury by Cold Vapour AAS in Soils: After digestion with nitric acid, hydrogen peroxide and hydrochloric acid, mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500 |
| AN320 | Metals by ICP-OES: Samples are preserved with 10% nitric acid for a wide range of metals and some non-metals. This solution is measured by Inductively Coupled Plasma. Solutions are aspirated into an argon plasma at 8000-10000K and emit characteristic energy or light as a result of electron transitions through unique energy levels. The emitted light is focused onto a diffraction grating where it is separated into components. |
| AN320 | Photomultipliers or CCDs are used to measure the light intensity at specific wavelengths. This intensity is directly proportional to concentration. Corrections are required to compensate for spectral overlap between elements. Reference APHA 3120 B. |
| AN403 | Total Recoverable Hydrocarbons: Determination of Hydrocarbons by gas chromatography after a solvent extraction. Detection is by flame ionisation detector (FID) that produces an electronic signal in proportion to the combustible matter passing through it. Total Recoverable Hydrocarbons (TRH) are routinely reported as four alkane groupings based on the carbon chain length of the compounds: C6-C9, C10-C14, C15-C28 and C29-C36 and in recognition of the NEPM 1999 (2013), >C10-C16 (F2), >C16-C34 (F3) and >C34-C40 (F4). F2 is reported directly and also corrected by subtracting Naphthalene (from VOC method AN433) where available. |
| AN403 | Additionally, the volatile C6-C9 fraction may be determined by a purge and trap technique and GC/MS because of the potential for volatiles loss. Total Recoverable Hydrocarbons - Silica (TRH-Si) follows the same method of analysis after silica gel cleanup of the solvent extract. Aliphatic/Aromatic Speciation follows the same method of analysis after fractionation of the solvent extract over silica with differential polarity of the eluent solvents. |
| AN403 | The GC/FID method is not well suited to the analysis of refined high boiling point materials (ie lubricating oils or greases) but is particularly suited for measuring diesel, kerosene and petrol if care to control volatility is taken. This method will detect naturally occurring hydrocarbons, lipids, animal fats, phenols and PAHs if they are present at sufficient levels, dependent on the use of specific cleanup/fractionation techniques. Reference USEPA 3510B, 8015B. |

| | |
|---|---|
| AN420 | (SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols (etc) in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D). |
| AN420 | SVOC Compounds: Semi-Volatile Organic Compounds (SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D). |
| AN433 | VOCs and C6-C9 Hydrocarbons by GC-MS P&T: VOC`s are volatile organic compounds. The sample is presented to a gas chromatograph via a purge and trap (P&T) concentrator and autosampler and is detected with a Mass Spectrometer (MSD). Solid samples are initially extracted with methanol whilst liquid samples are processed directly. References: USEPA 5030B, 8020A, 8260. |
| AN602 | Qualitative identification of chrysotile, amosite and crocidolite in bulk samples by polarised light microscopy (PLM) in conjunction with dispersion staining (DS). AS4964 provides the basis for this document. Unequivocal identification of the asbestos minerals present is made by obtaining sufficient diagnostic `clues`, which provide a reasonable degree of certainty, dispersion staining is a mandatory `clue` for positive identification. If sufficient `clues` are absent, then positive identification of asbestos is not possible. This procedure requires removal of suspect fibres/bundles from the sample which cannot be returned. |
| AN602 | Fibres/material that cannot be unequivocably identified as one of the three asbestos forms, will be reported as unknown mineral fibres (umf) The fibres detected may or may not be asbestos fibres. |
| AN602 | AS4964.2004 Method for the Qualitative Identification of Asbestos in Bulk Samples, Section 8.4, Trace Analysis Criteria, Note 4 states:"Depending upon sample condition and fibre type, the detection limit of this technique has been found to lie generally in the range of 1 in 1,000 to 1 in 10,000 parts by weight, equivalent to 1 to 0.1 g/kg." |
| AN602 | The sample can be reported “no asbestos found at the reporting limit of 0.1 g/kg” (<0.01%w/w) where AN602 section 4.5 of this method has been followed, and if-<br><br>(a) no trace asbestos fibres have been detected (i.e. no ‘respirable’ fibres):<br>(b) the estimated weight of non-respirable asbestos fibre bundles and/or the estimated weight of asbestos in asbestos-containing materials are found to be less than 0.1g/kg: and<br>(c) these non-respirable asbestos fibre bundles and/or the asbestos containing materials are only visible under stereo-microscope viewing conditions. |
| AN605 | This technique gravimetrically determines the mass of Asbestos Containing Material retained on a 7mm Sieve and assumes that 15% of this ACM is asbestos. This calculated asbestos weight is then calculated as a percentage of the total sample weight. |
| AN605 | This technique also gravimetrically determines the mass of Fibrous Asbestos (FA) and Asbestos Fines (AF) Containing Material retained on and passing a 2mm sieve post 7mm sieving. Assumes that FA and AF are 100% asbestos containing. This calculated asbestos weight is then calculated as a percentage of the total sample weight. This does not include free fibres which are only observed by standard trace analysis as per AN 602. |
| AN605 | Insofar as is technically feasible, this report is consistent with the analytical reporting recommendations in the Western Australian Department of Health Guidelines for the Assessment Remediation and Management of Asbestos - Contaminated Sites in Western Australia - May 2009. |

FOOTNOTES

| | | | | | |
|---|---|---|---|---|---|
| * | NATA accreditation does not cover the performance of this service. | - | Not analysed. | UOM | Unit of Measure. |
| | | NVL | Not validated. | LOR | Limit of Reporting. |
| ** | Indicative data, theoretical holding time exceeded. | IS | Insufficient sample for analysis. | ↑↓ | Raised/lowered Limit of Reporting. |
| | | LNR | Sample listed, but not received. | | |

Unless it is reported that sampling has been performed by SGS, the samples have been analysed as received.
Solid samples expressed on a dry weight basis.

Where "Total" analyte groups are reported (for example, Total PAHs, Total OC Pesticides) the total will be calculated as the sum of the individual analytes, with those analytes that are reported as <LOR being assumed to be zero. The summed (Total) limit of reporting is calculated by summing the individual analyte LORs and dividing by two. For example, where 16 individual analytes are being summed and each has an LOR of 0.1 mg/kg, the "Totals" LOR will be 1.6 / 2 (0.8 mg/kg). Where only 2 analytes are being summed, the "Total" LOR will be the sum of those two LORs.

Some totals may not appear to add up because the total is rounded after adding up the raw values.

If reported, measurement uncertainty follow the ± sign after the analytical result and is expressed as the expanded uncertainty calculated using a coverage factor of 2, providing a level of confidence of approximately 95%, unless stated otherwise in the comments section of this report.

Results reported for samples tested under test methods with codes starting with ARS-SOP, radionuclide or gross radioactivity concentrations are expressed in becquerel (Bq) per unit of mass or volume or per wipe as stated on the report. Becquerel is the SI unit for activity and equals one nuclear transformation per second.
Note that in terms of units of radioactivity:

a. 1 Bq is equivalent to 27 pCi
b. 37 MBq is equivalent to 1 mCi

For results reported for samples tested under test methods with codes starting with ARS-SOP, less than (<) values indicate the detection limit for each radionuclide or parameter for the measurement system used. The respective detection limits have been calculated in accordance with ISO 11929.

The QC and MU criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: www.sgs.com.au.pv.sgsvr/en-gb/environment.

This document is issued by the Company under its General Conditions of Service accessible at www.sgs.com/en/Terms-and-Conditions.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client only. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law .

This report must not be reproduced, except in full.

# STATEMENT OF QA/QC PERFORMANCE

**SE199558 R0**

## CLIENT DETAILS

| | |
|---|---|
| Contact | Anwar Barbhuyia |
| Client | Geotechnique |
| Address | P.O. Box 880<br>PENRITH NSW 2751 |
| Telephone | 02 4722 2700 |
| Facsimile | 02 4722 6161 |
| Email | anwar@geotech.com.au |
| Project | **14561/1 Penrith** |
| Order Number | (Not specified) |
| Samples | 17 |

## LABORATORY DETAILS

| | |
|---|---|
| Manager | Huong Crawford |
| Laboratory | SGS Alexandria Environmental |
| Address | Unit 16, 33 Maddox St<br>Alexandria NSW 2015 |
| Telephone | +61 2 8594 0400 |
| Facsimile | +61 2 8594 0499 |
| Email | au.environmental.sydney@sgs.com |
| SGS Reference | **SE199558 R0** |
| Date Received | 01 Nov 2019 |
| Date Reported | 07 Nov 2019 |

## COMMENTS

All the laboratory data for each environmental matrix was compared to SGS' stated Data Quality Objectives (DQO). Comments arising from the comparison were made and are reported below.

The data relating to sampling was taken from the Chain of Custody document.
This QA/QC Statement must be read in conjunction with the referenced Analytical Report.
The Statement and the Analytical Report must not be reproduced except in full.

All Data Quality Objectives were met with the exception of the following:

| | | |
|---|---|---|
| Duplicate | Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES | 1 item |

## SAMPLE SUMMARY

# HOLDING TIME SUMMARY

SE199558 R0

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

## Exchangeable Cations and Cation Exchange Capacity (CEC/ESP/SAR)

Method: ME-(AU)-[ENV]AN122

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH1 | SE199558.001 | LB186976 | 30 Oct 2019 | 01 Nov 2019 | 27 Nov 2019 | 05 Nov 2019 | 27 Nov 2019 | 06 Nov 2019 |
| BH1 | SE199558.002 | LB186976 | 30 Oct 2019 | 01 Nov 2019 | 27 Nov 2019 | 05 Nov 2019 | 27 Nov 2019 | 06 Nov 2019 |
| BH1 | SE199558.003 | LB186976 | 30 Oct 2019 | 01 Nov 2019 | 27 Nov 2019 | 05 Nov 2019 | 27 Nov 2019 | 06 Nov 2019 |
| BH1 | SE199558.004 | LB186976 | 30 Oct 2019 | 01 Nov 2019 | 27 Nov 2019 | 05 Nov 2019 | 27 Nov 2019 | 06 Nov 2019 |
| BH1 | SE199558.005 | LB186976 | 30 Oct 2019 | 01 Nov 2019 | 27 Nov 2019 | 05 Nov 2019 | 27 Nov 2019 | 06 Nov 2019 |
| BH1 | SE199558.006 | LB186976 | 30 Oct 2019 | 01 Nov 2019 | 27 Nov 2019 | 05 Nov 2019 | 27 Nov 2019 | 06 Nov 2019 |
| BH2 | SE199558.007 | LB186976 | 31 Oct 2019 | 01 Nov 2019 | 28 Nov 2019 | 05 Nov 2019 | 28 Nov 2019 | 06 Nov 2019 |
| BH2 | SE199558.008 | LB186976 | 31 Oct 2019 | 01 Nov 2019 | 28 Nov 2019 | 05 Nov 2019 | 28 Nov 2019 | 06 Nov 2019 |
| BH2 | SE199558.009 | LB186976 | 31 Oct 2019 | 01 Nov 2019 | 28 Nov 2019 | 05 Nov 2019 | 28 Nov 2019 | 06 Nov 2019 |
| BH2 | SE199558.010 | LB186976 | 31 Oct 2019 | 01 Nov 2019 | 28 Nov 2019 | 05 Nov 2019 | 28 Nov 2019 | 06 Nov 2019 |
| BH3 | SE199558.011 | LB186976 | 31 Oct 2019 | 01 Nov 2019 | 28 Nov 2019 | 05 Nov 2019 | 28 Nov 2019 | 06 Nov 2019 |
| BH3 | SE199558.012 | LB186976 | 31 Oct 2019 | 01 Nov 2019 | 28 Nov 2019 | 05 Nov 2019 | 28 Nov 2019 | 06 Nov 2019 |

## Fibre Identification in soil

Method: ME-(AU)-[ENV]AN602

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH1 | SE199558.001 | LB187086 | 30 Oct 2019 | 01 Nov 2019 | 29 Oct 2020 | 06 Nov 2019 | 29 Oct 2020 | 07 Nov 2019 |
| BH1 | SE199558.002 | LB187086 | 30 Oct 2019 | 01 Nov 2019 | 29 Oct 2020 | 06 Nov 2019 | 29 Oct 2020 | 07 Nov 2019 |
| BH2 | SE199558.007 | LB187086 | 31 Oct 2019 | 01 Nov 2019 | 30 Oct 2020 | 06 Nov 2019 | 30 Oct 2020 | 07 Nov 2019 |
| BH3 | SE199558.011 | LB187086 | 31 Oct 2019 | 01 Nov 2019 | 30 Oct 2020 | 06 Nov 2019 | 30 Oct 2020 | 07 Nov 2019 |
| BH3 | SE199558.012 | LB187086 | 31 Oct 2019 | 01 Nov 2019 | 30 Oct 2020 | 06 Nov 2019 | 30 Oct 2020 | 07 Nov 2019 |

## Gravimetric Determination of Asbestos in Soil

Method: ME-(AU)-[ENV]AN605

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH1 | SE199558.001 | LB187086 | 30 Oct 2019 | 01 Nov 2019 | 27 Apr 2020 | 06 Nov 2019 | 27 Apr 2020 | 07 Nov 2019 |
| BH1 | SE199558.002 | LB187086 | 30 Oct 2019 | 01 Nov 2019 | 27 Apr 2020 | 06 Nov 2019 | 27 Apr 2020 | 07 Nov 2019 |
| BH2 | SE199558.007 | LB187086 | 31 Oct 2019 | 01 Nov 2019 | 28 Apr 2020 | 06 Nov 2019 | 28 Apr 2020 | 07 Nov 2019 |
| BH3 | SE199558.011 | LB187086 | 31 Oct 2019 | 01 Nov 2019 | 28 Apr 2020 | 06 Nov 2019 | 28 Apr 2020 | 07 Nov 2019 |
| BH3 | SE199558.012 | LB187086 | 31 Oct 2019 | 01 Nov 2019 | 28 Apr 2020 | 06 Nov 2019 | 28 Apr 2020 | 07 Nov 2019 |

## Mercury (dissolved) in Water

Method: ME-(AU)-[ENV]AN311(Perth)/AN312

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| RS1 | SE199558.014 | LB186918 | 30 Oct 2019 | 01 Nov 2019 | 27 Nov 2019 | 05 Nov 2019 | 27 Nov 2019 | 05 Nov 2019 |
| RS2 | SE199558.015 | LB186918 | 31 Oct 2019 | 01 Nov 2019 | 28 Nov 2019 | 05 Nov 2019 | 28 Nov 2019 | 05 Nov 2019 |

## Mercury in Soil

Method: ME-(AU)-[ENV]AN312

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH1 | SE199558.001 | LB186955 | 30 Oct 2019 | 01 Nov 2019 | 27 Nov 2019 | 05 Nov 2019 | 27 Nov 2019 | 06 Nov 2019 |
| BH1 | SE199558.002 | LB186955 | 30 Oct 2019 | 01 Nov 2019 | 27 Nov 2019 | 05 Nov 2019 | 27 Nov 2019 | 06 Nov 2019 |
| BH1 | SE199558.003 | LB186955 | 30 Oct 2019 | 01 Nov 2019 | 27 Nov 2019 | 05 Nov 2019 | 27 Nov 2019 | 06 Nov 2019 |
| BH1 | SE199558.004 | LB186955 | 30 Oct 2019 | 01 Nov 2019 | 27 Nov 2019 | 05 Nov 2019 | 27 Nov 2019 | 06 Nov 2019 |
| BH1 | SE199558.005 | LB186955 | 30 Oct 2019 | 01 Nov 2019 | 27 Nov 2019 | 05 Nov 2019 | 27 Nov 2019 | 06 Nov 2019 |
| BH1 | SE199558.006 | LB186955 | 30 Oct 2019 | 01 Nov 2019 | 27 Nov 2019 | 05 Nov 2019 | 27 Nov 2019 | 06 Nov 2019 |
| BH2 | SE199558.007 | LB186955 | 31 Oct 2019 | 01 Nov 2019 | 28 Nov 2019 | 05 Nov 2019 | 28 Nov 2019 | 06 Nov 2019 |
| BH2 | SE199558.008 | LB186955 | 31 Oct 2019 | 01 Nov 2019 | 28 Nov 2019 | 05 Nov 2019 | 28 Nov 2019 | 06 Nov 2019 |
| BH2 | SE199558.009 | LB186955 | 31 Oct 2019 | 01 Nov 2019 | 28 Nov 2019 | 05 Nov 2019 | 28 Nov 2019 | 06 Nov 2019 |
| BH2 | SE199558.010 | LB186955 | 31 Oct 2019 | 01 Nov 2019 | 28 Nov 2019 | 05 Nov 2019 | 28 Nov 2019 | 06 Nov 2019 |
| BH3 | SE199558.011 | LB186955 | 31 Oct 2019 | 01 Nov 2019 | 28 Nov 2019 | 05 Nov 2019 | 28 Nov 2019 | 06 Nov 2019 |
| BH3 | SE199558.012 | LB186955 | 31 Oct 2019 | 01 Nov 2019 | 28 Nov 2019 | 05 Nov 2019 | 28 Nov 2019 | 06 Nov 2019 |
| DSS1 | SE199558.013 | LB186955 | 30 Oct 2019 | 01 Nov 2019 | 27 Nov 2019 | 05 Nov 2019 | 27 Nov 2019 | 06 Nov 2019 |

## Metals in Water (Dissolved) by ICPOES

Method: ME-(AU)-[ENV]AN320

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| RS1 | SE199558.014 | LB186915 | 30 Oct 2019 | 01 Nov 2019 | 27 Apr 2020 | 05 Nov 2019 | 27 Apr 2020 | 05 Nov 2019 |
| RS2 | SE199558.015 | LB186915 | 31 Oct 2019 | 01 Nov 2019 | 28 Apr 2020 | 05 Nov 2019 | 28 Apr 2020 | 05 Nov 2019 |

## Moisture Content

Method: ME-(AU)-[ENV]AN002

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH1 | SE199558.001 | LB186894 | 30 Oct 2019 | 01 Nov 2019 | 13 Nov 2019 | 04 Nov 2019 | 09 Nov 2019 | 06 Nov 2019 |
| BH1 | SE199558.002 | LB186894 | 30 Oct 2019 | 01 Nov 2019 | 13 Nov 2019 | 04 Nov 2019 | 09 Nov 2019 | 06 Nov 2019 |
| BH1 | SE199558.003 | LB186894 | 30 Oct 2019 | 01 Nov 2019 | 13 Nov 2019 | 04 Nov 2019 | 09 Nov 2019 | 06 Nov 2019 |
| BH1 | SE199558.004 | LB186894 | 30 Oct 2019 | 01 Nov 2019 | 13 Nov 2019 | 04 Nov 2019 | 09 Nov 2019 | 06 Nov 2019 |
| BH1 | SE199558.005 | LB186894 | 30 Oct 2019 | 01 Nov 2019 | 13 Nov 2019 | 04 Nov 2019 | 09 Nov 2019 | 06 Nov 2019 |
| BH1 | SE199558.006 | LB186894 | 30 Oct 2019 | 01 Nov 2019 | 13 Nov 2019 | 04 Nov 2019 | 09 Nov 2019 | 06 Nov 2019 |

# HOLDING TIME SUMMARY

SE199558 R0

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

## Moisture Content (continued)

Method: ME-(AU)-[ENV]AN002

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH2 | SE199558.007 | LB186894 | 31 Oct 2019 | 01 Nov 2019 | 14 Nov 2019 | 04 Nov 2019 | 09 Nov 2019 | 06 Nov 2019 |
| BH2 | SE199558.008 | LB186894 | 31 Oct 2019 | 01 Nov 2019 | 14 Nov 2019 | 04 Nov 2019 | 09 Nov 2019 | 06 Nov 2019 |
| BH2 | SE199558.009 | LB186894 | 31 Oct 2019 | 01 Nov 2019 | 14 Nov 2019 | 04 Nov 2019 | 09 Nov 2019 | 06 Nov 2019 |
| BH2 | SE199558.010 | LB186894 | 31 Oct 2019 | 01 Nov 2019 | 14 Nov 2019 | 04 Nov 2019 | 09 Nov 2019 | 06 Nov 2019 |
| BH3 | SE199558.011 | LB186894 | 31 Oct 2019 | 01 Nov 2019 | 14 Nov 2019 | 04 Nov 2019 | 09 Nov 2019 | 06 Nov 2019 |
| BH3 | SE199558.012 | LB186894 | 31 Oct 2019 | 01 Nov 2019 | 14 Nov 2019 | 04 Nov 2019 | 09 Nov 2019 | 06 Nov 2019 |
| DSS1 | SE199558.013 | LB186894 | 30 Oct 2019 | 01 Nov 2019 | 13 Nov 2019 | 04 Nov 2019 | 09 Nov 2019 | 06 Nov 2019 |

## OC Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH1 | SE199558.001 | LB186892 | 30 Oct 2019 | 01 Nov 2019 | 13 Nov 2019 | 04 Nov 2019 | 14 Dec 2019 | 06 Nov 2019 |
| BH1 | SE199558.002 | LB186892 | 30 Oct 2019 | 01 Nov 2019 | 13 Nov 2019 | 04 Nov 2019 | 14 Dec 2019 | 06 Nov 2019 |
| BH1 | SE199558.003 | LB186892 | 30 Oct 2019 | 01 Nov 2019 | 13 Nov 2019 | 04 Nov 2019 | 14 Dec 2019 | 06 Nov 2019 |
| BH2 | SE199558.007 | LB186892 | 31 Oct 2019 | 01 Nov 2019 | 14 Nov 2019 | 04 Nov 2019 | 14 Dec 2019 | 06 Nov 2019 |
| BH2 | SE199558.008 | LB186892 | 31 Oct 2019 | 01 Nov 2019 | 14 Nov 2019 | 04 Nov 2019 | 14 Dec 2019 | 06 Nov 2019 |
| BH3 | SE199558.011 | LB186892 | 31 Oct 2019 | 01 Nov 2019 | 14 Nov 2019 | 04 Nov 2019 | 14 Dec 2019 | 06 Nov 2019 |
| BH3 | SE199558.012 | LB186892 | 31 Oct 2019 | 01 Nov 2019 | 14 Nov 2019 | 04 Nov 2019 | 14 Dec 2019 | 06 Nov 2019 |
| DSS1 | SE199558.013 | LB186892 | 30 Oct 2019 | 01 Nov 2019 | 13 Nov 2019 | 04 Nov 2019 | 14 Dec 2019 | 06 Nov 2019 |

## PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN420

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH1 | SE199558.001 | LB186892 | 30 Oct 2019 | 01 Nov 2019 | 13 Nov 2019 | 04 Nov 2019 | 14 Dec 2019 | 06 Nov 2019 |
| BH1 | SE199558.002 | LB186892 | 30 Oct 2019 | 01 Nov 2019 | 13 Nov 2019 | 04 Nov 2019 | 14 Dec 2019 | 06 Nov 2019 |
| BH1 | SE199558.003 | LB186892 | 30 Oct 2019 | 01 Nov 2019 | 13 Nov 2019 | 04 Nov 2019 | 14 Dec 2019 | 06 Nov 2019 |
| BH2 | SE199558.007 | LB186892 | 31 Oct 2019 | 01 Nov 2019 | 14 Nov 2019 | 04 Nov 2019 | 14 Dec 2019 | 06 Nov 2019 |
| BH2 | SE199558.008 | LB186892 | 31 Oct 2019 | 01 Nov 2019 | 14 Nov 2019 | 04 Nov 2019 | 14 Dec 2019 | 06 Nov 2019 |
| BH3 | SE199558.011 | LB186892 | 31 Oct 2019 | 01 Nov 2019 | 14 Nov 2019 | 04 Nov 2019 | 14 Dec 2019 | 06 Nov 2019 |
| BH3 | SE199558.012 | LB186892 | 31 Oct 2019 | 01 Nov 2019 | 14 Nov 2019 | 04 Nov 2019 | 14 Dec 2019 | 06 Nov 2019 |
| DSS1 | SE199558.013 | LB186892 | 30 Oct 2019 | 01 Nov 2019 | 13 Nov 2019 | 04 Nov 2019 | 14 Dec 2019 | 06 Nov 2019 |

## PCBs in Soil

Method: ME-(AU)-[ENV]AN420

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH1 | SE199558.001 | LB186892 | 30 Oct 2019 | 01 Nov 2019 | 13 Nov 2019 | 04 Nov 2019 | 14 Dec 2019 | 06 Nov 2019 |
| BH1 | SE199558.002 | LB186892 | 30 Oct 2019 | 01 Nov 2019 | 13 Nov 2019 | 04 Nov 2019 | 14 Dec 2019 | 06 Nov 2019 |
| BH1 | SE199558.003 | LB186892 | 30 Oct 2019 | 01 Nov 2019 | 13 Nov 2019 | 04 Nov 2019 | 14 Dec 2019 | 06 Nov 2019 |
| BH2 | SE199558.007 | LB186892 | 31 Oct 2019 | 01 Nov 2019 | 14 Nov 2019 | 04 Nov 2019 | 14 Dec 2019 | 06 Nov 2019 |
| BH2 | SE199558.008 | LB186892 | 31 Oct 2019 | 01 Nov 2019 | 14 Nov 2019 | 04 Nov 2019 | 14 Dec 2019 | 06 Nov 2019 |
| BH3 | SE199558.011 | LB186892 | 31 Oct 2019 | 01 Nov 2019 | 14 Nov 2019 | 04 Nov 2019 | 14 Dec 2019 | 06 Nov 2019 |
| BH3 | SE199558.012 | LB186892 | 31 Oct 2019 | 01 Nov 2019 | 14 Nov 2019 | 04 Nov 2019 | 14 Dec 2019 | 06 Nov 2019 |
| DSS1 | SE199558.013 | LB186892 | 30 Oct 2019 | 01 Nov 2019 | 13 Nov 2019 | 04 Nov 2019 | 14 Dec 2019 | 06 Nov 2019 |

## pH in soil (1:5)

Method: ME-(AU)-[ENV]AN101

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH1 | SE199558.001 | LB186941 | 30 Oct 2019 | 01 Nov 2019 | 06 Nov 2019 | 05 Nov 2019 | 06 Nov 2019 | 05 Nov 2019 |
| BH1 | SE199558.002 | LB186941 | 30 Oct 2019 | 01 Nov 2019 | 06 Nov 2019 | 05 Nov 2019 | 06 Nov 2019 | 05 Nov 2019 |
| BH1 | SE199558.003 | LB186941 | 30 Oct 2019 | 01 Nov 2019 | 06 Nov 2019 | 05 Nov 2019 | 06 Nov 2019 | 05 Nov 2019 |
| BH1 | SE199558.004 | LB186941 | 30 Oct 2019 | 01 Nov 2019 | 06 Nov 2019 | 05 Nov 2019 | 06 Nov 2019 | 05 Nov 2019 |
| BH1 | SE199558.005 | LB186941 | 30 Oct 2019 | 01 Nov 2019 | 06 Nov 2019 | 05 Nov 2019 | 06 Nov 2019 | 05 Nov 2019 |
| BH1 | SE199558.006 | LB186941 | 30 Oct 2019 | 01 Nov 2019 | 06 Nov 2019 | 05 Nov 2019 | 06 Nov 2019 | 05 Nov 2019 |
| BH2 | SE199558.007 | LB186941 | 31 Oct 2019 | 01 Nov 2019 | 07 Nov 2019 | 05 Nov 2019 | 06 Nov 2019 | 05 Nov 2019 |
| BH2 | SE199558.008 | LB186941 | 31 Oct 2019 | 01 Nov 2019 | 07 Nov 2019 | 05 Nov 2019 | 06 Nov 2019 | 05 Nov 2019 |
| BH2 | SE199558.009 | LB186941 | 31 Oct 2019 | 01 Nov 2019 | 07 Nov 2019 | 05 Nov 2019 | 06 Nov 2019 | 05 Nov 2019 |
| BH2 | SE199558.010 | LB186941 | 31 Oct 2019 | 01 Nov 2019 | 07 Nov 2019 | 05 Nov 2019 | 06 Nov 2019 | 05 Nov 2019 |
| BH3 | SE199558.011 | LB186941 | 31 Oct 2019 | 01 Nov 2019 | 07 Nov 2019 | 05 Nov 2019 | 06 Nov 2019 | 05 Nov 2019 |
| BH3 | SE199558.012 | LB186941 | 31 Oct 2019 | 01 Nov 2019 | 07 Nov 2019 | 05 Nov 2019 | 06 Nov 2019 | 05 Nov 2019 |

## Total Phenolics in Soil

Method: ME-(AU)-[ENV]AN289

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH1 | SE199558.001 | LB187157 | 30 Oct 2019 | 01 Nov 2019 | 13 Nov 2019 | 07 Nov 2019 | 13 Nov 2019 | 07 Nov 2019 |
| BH1 | SE199558.002 | LB187157 | 30 Oct 2019 | 01 Nov 2019 | 13 Nov 2019 | 07 Nov 2019 | 13 Nov 2019 | 07 Nov 2019 |
| BH2 | SE199558.007 | LB187157 | 31 Oct 2019 | 01 Nov 2019 | 14 Nov 2019 | 07 Nov 2019 | 14 Nov 2019 | 07 Nov 2019 |
| BH3 | SE199558.011 | LB187157 | 31 Oct 2019 | 01 Nov 2019 | 14 Nov 2019 | 07 Nov 2019 | 14 Nov 2019 | 07 Nov 2019 |

# HOLDING TIME SUMMARY

SE199558 R0

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

## Total Phenolics in Soil (continued)

Method: ME-(AU)-[ENV]AN289

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH3 | SE199558.012 | LB187157 | 31 Oct 2019 | 01 Nov 2019 | 14 Nov 2019 | 07 Nov 2019 | 14 Nov 2019 | 07 Nov 2019 |
| DSS1 | SE199558.013 | LB187157 | 30 Oct 2019 | 01 Nov 2019 | 13 Nov 2019 | 07 Nov 2019 | 13 Nov 2019 | 07 Nov 2019 |

## Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

Method: ME-(AU)-[ENV]AN040/AN320

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH1 | SE199558.001 | LB186953 | 30 Oct 2019 | 01 Nov 2019 | 27 Apr 2020 | 05 Nov 2019 | 27 Apr 2020 | 06 Nov 2019 |
| BH1 | SE199558.002 | LB186953 | 30 Oct 2019 | 01 Nov 2019 | 27 Apr 2020 | 05 Nov 2019 | 27 Apr 2020 | 06 Nov 2019 |
| BH1 | SE199558.003 | LB186953 | 30 Oct 2019 | 01 Nov 2019 | 27 Apr 2020 | 05 Nov 2019 | 27 Apr 2020 | 06 Nov 2019 |
| BH1 | SE199558.004 | LB186953 | 30 Oct 2019 | 01 Nov 2019 | 27 Apr 2020 | 05 Nov 2019 | 27 Apr 2020 | 06 Nov 2019 |
| BH1 | SE199558.005 | LB186953 | 30 Oct 2019 | 01 Nov 2019 | 27 Apr 2020 | 05 Nov 2019 | 27 Apr 2020 | 06 Nov 2019 |
| BH1 | SE199558.006 | LB186953 | 30 Oct 2019 | 01 Nov 2019 | 27 Apr 2020 | 05 Nov 2019 | 27 Apr 2020 | 06 Nov 2019 |
| BH2 | SE199558.007 | LB186953 | 31 Oct 2019 | 01 Nov 2019 | 28 Apr 2020 | 05 Nov 2019 | 28 Apr 2020 | 06 Nov 2019 |
| BH2 | SE199558.008 | LB186953 | 31 Oct 2019 | 01 Nov 2019 | 28 Apr 2020 | 05 Nov 2019 | 28 Apr 2020 | 06 Nov 2019 |
| BH2 | SE199558.009 | LB186953 | 31 Oct 2019 | 01 Nov 2019 | 28 Apr 2020 | 05 Nov 2019 | 28 Apr 2020 | 06 Nov 2019 |
| BH2 | SE199558.010 | LB186953 | 31 Oct 2019 | 01 Nov 2019 | 28 Apr 2020 | 05 Nov 2019 | 28 Apr 2020 | 06 Nov 2019 |
| BH3 | SE199558.011 | LB186953 | 31 Oct 2019 | 01 Nov 2019 | 28 Apr 2020 | 05 Nov 2019 | 28 Apr 2020 | 06 Nov 2019 |
| BH3 | SE199558.012 | LB186953 | 31 Oct 2019 | 01 Nov 2019 | 28 Apr 2020 | 05 Nov 2019 | 28 Apr 2020 | 06 Nov 2019 |
| DSS1 | SE199558.013 | LB186953 | 30 Oct 2019 | 01 Nov 2019 | 27 Apr 2020 | 05 Nov 2019 | 27 Apr 2020 | 06 Nov 2019 |

## TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH1 | SE199558.001 | LB186892 | 30 Oct 2019 | 01 Nov 2019 | 13 Nov 2019 | 04 Nov 2019 | 14 Dec 2019 | 06 Nov 2019 |
| BH1 | SE199558.002 | LB186892 | 30 Oct 2019 | 01 Nov 2019 | 13 Nov 2019 | 04 Nov 2019 | 14 Dec 2019 | 06 Nov 2019 |
| BH1 | SE199558.003 | LB186892 | 30 Oct 2019 | 01 Nov 2019 | 13 Nov 2019 | 04 Nov 2019 | 14 Dec 2019 | 06 Nov 2019 |
| BH2 | SE199558.007 | LB186892 | 31 Oct 2019 | 01 Nov 2019 | 14 Nov 2019 | 04 Nov 2019 | 14 Dec 2019 | 06 Nov 2019 |
| BH2 | SE199558.008 | LB186892 | 31 Oct 2019 | 01 Nov 2019 | 14 Nov 2019 | 04 Nov 2019 | 14 Dec 2019 | 06 Nov 2019 |
| BH3 | SE199558.011 | LB186892 | 31 Oct 2019 | 01 Nov 2019 | 14 Nov 2019 | 04 Nov 2019 | 14 Dec 2019 | 06 Nov 2019 |
| BH3 | SE199558.012 | LB186892 | 31 Oct 2019 | 01 Nov 2019 | 14 Nov 2019 | 04 Nov 2019 | 14 Dec 2019 | 06 Nov 2019 |
| DSS1 | SE199558.013 | LB186892 | 30 Oct 2019 | 01 Nov 2019 | 13 Nov 2019 | 04 Nov 2019 | 14 Dec 2019 | 06 Nov 2019 |

## VOC's in Soil

Method: ME-(AU)-[ENV]AN433

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH1 | SE199558.001 | LB186890 | 30 Oct 2019 | 01 Nov 2019 | 13 Nov 2019 | 04 Nov 2019 | 14 Dec 2019 | 05 Nov 2019 |
| BH1 | SE199558.002 | LB186890 | 30 Oct 2019 | 01 Nov 2019 | 13 Nov 2019 | 04 Nov 2019 | 14 Dec 2019 | 05 Nov 2019 |
| BH1 | SE199558.003 | LB186890 | 30 Oct 2019 | 01 Nov 2019 | 13 Nov 2019 | 04 Nov 2019 | 14 Dec 2019 | 05 Nov 2019 |
| BH2 | SE199558.007 | LB186890 | 31 Oct 2019 | 01 Nov 2019 | 14 Nov 2019 | 04 Nov 2019 | 14 Dec 2019 | 05 Nov 2019 |
| BH2 | SE199558.008 | LB186890 | 31 Oct 2019 | 01 Nov 2019 | 14 Nov 2019 | 04 Nov 2019 | 14 Dec 2019 | 05 Nov 2019 |
| BH3 | SE199558.011 | LB186890 | 31 Oct 2019 | 01 Nov 2019 | 14 Nov 2019 | 04 Nov 2019 | 14 Dec 2019 | 05 Nov 2019 |
| BH3 | SE199558.012 | LB186890 | 31 Oct 2019 | 01 Nov 2019 | 14 Nov 2019 | 04 Nov 2019 | 14 Dec 2019 | 05 Nov 2019 |
| DSS1 | SE199558.013 | LB186890 | 30 Oct 2019 | 01 Nov 2019 | 13 Nov 2019 | 04 Nov 2019 | 14 Dec 2019 | 05 Nov 2019 |
| TS1 | SE199558.016 | LB186890 | 31 Oct 2019 | 01 Nov 2019 | 14 Nov 2019 | 04 Nov 2019 | 14 Dec 2019 | 05 Nov 2019 |
| TS2 | SE199558.017 | LB186890 | 31 Oct 2019 | 01 Nov 2019 | 14 Nov 2019 | 04 Nov 2019 | 14 Dec 2019 | 05 Nov 2019 |

## Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-[ENV]AN433

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH1 | SE199558.001 | LB186890 | 30 Oct 2019 | 01 Nov 2019 | 13 Nov 2019 | 04 Nov 2019 | 14 Dec 2019 | 05 Nov 2019 |
| BH1 | SE199558.002 | LB186890 | 30 Oct 2019 | 01 Nov 2019 | 13 Nov 2019 | 04 Nov 2019 | 14 Dec 2019 | 05 Nov 2019 |
| BH1 | SE199558.003 | LB186890 | 30 Oct 2019 | 01 Nov 2019 | 13 Nov 2019 | 04 Nov 2019 | 14 Dec 2019 | 05 Nov 2019 |
| BH2 | SE199558.007 | LB186890 | 31 Oct 2019 | 01 Nov 2019 | 14 Nov 2019 | 04 Nov 2019 | 14 Dec 2019 | 05 Nov 2019 |
| BH2 | SE199558.008 | LB186890 | 31 Oct 2019 | 01 Nov 2019 | 14 Nov 2019 | 04 Nov 2019 | 14 Dec 2019 | 05 Nov 2019 |
| BH3 | SE199558.011 | LB186890 | 31 Oct 2019 | 01 Nov 2019 | 14 Nov 2019 | 04 Nov 2019 | 14 Dec 2019 | 05 Nov 2019 |
| BH3 | SE199558.012 | LB186890 | 31 Oct 2019 | 01 Nov 2019 | 14 Nov 2019 | 04 Nov 2019 | 14 Dec 2019 | 05 Nov 2019 |
| DSS1 | SE199558.013 | LB186890 | 30 Oct 2019 | 01 Nov 2019 | 13 Nov 2019 | 04 Nov 2019 | 14 Dec 2019 | 05 Nov 2019 |
| TS1 | SE199558.016 | LB186890 | 31 Oct 2019 | 01 Nov 2019 | 14 Nov 2019 | 04 Nov 2019 | 14 Dec 2019 | 05 Nov 2019 |
| TS2 | SE199558.017 | LB186890 | 31 Oct 2019 | 01 Nov 2019 | 14 Nov 2019 | 04 Nov 2019 | 14 Dec 2019 | 05 Nov 2019 |

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

## OC Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| Tetrachloro-m-xylene (TCMX) (Surrogate) | BH1 | SE199558.001 | % | 60 - 130% | 78 |
| | BH1 | SE199558.002 | % | 60 - 130% | 80 |
| | BH1 | SE199558.003 | % | 60 - 130% | 81 |
| | BH2 | SE199558.007 | % | 60 - 130% | 81 |
| | BH2 | SE199558.008 | % | 60 - 130% | 80 |
| | BH3 | SE199558.011 | % | 60 - 130% | 78 |
| | BH3 | SE199558.012 | % | 60 - 130% | 77 |
| | DSS1 | SE199558.013 | % | 60 - 130% | 83 |

## PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN420

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| 2-fluorobiphenyl (Surrogate) | BH1 | SE199558.001 | % | 70 - 130% | 76 |
| | BH1 | SE199558.002 | % | 70 - 130% | 90 |
| | BH1 | SE199558.003 | % | 70 - 130% | 96 |
| | BH2 | SE199558.007 | % | 70 - 130% | 90 |
| | BH2 | SE199558.008 | % | 70 - 130% | 86 |
| | BH3 | SE199558.011 | % | 70 - 130% | 108 |
| | BH3 | SE199558.012 | % | 70 - 130% | 96 |
| | DSS1 | SE199558.013 | % | 70 - 130% | 96 |
| d14-p-terphenyl (Surrogate) | BH1 | SE199558.001 | % | 70 - 130% | 82 |
| | BH1 | SE199558.002 | % | 70 - 130% | 88 |
| | BH1 | SE199558.003 | % | 70 - 130% | 94 |
| | BH2 | SE199558.007 | % | 70 - 130% | 92 |
| | BH2 | SE199558.008 | % | 70 - 130% | 96 |
| | BH3 | SE199558.011 | % | 70 - 130% | 112 |
| | BH3 | SE199558.012 | % | 70 - 130% | 104 |
| | DSS1 | SE199558.013 | % | 70 - 130% | 94 |
| d5-nitrobenzene (Surrogate) | BH1 | SE199558.001 | % | 70 - 130% | 80 |
| | BH1 | SE199558.002 | % | 70 - 130% | 86 |
| | BH1 | SE199558.003 | % | 70 - 130% | 84 |
| | BH2 | SE199558.007 | % | 70 - 130% | 86 |
| | BH2 | SE199558.008 | % | 70 - 130% | 84 |
| | BH3 | SE199558.011 | % | 70 - 130% | 104 |
| | BH3 | SE199558.012 | % | 70 - 130% | 90 |
| | DSS1 | SE199558.013 | % | 70 - 130% | 86 |

## PCBs in Soil

Method: ME-(AU)-[ENV]AN420

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| Tetrachloro-m-xylene (TCMX) (Surrogate) | BH1 | SE199558.001 | % | 60 - 130% | 78 |
| | BH1 | SE199558.002 | % | 60 - 130% | 80 |
| | BH1 | SE199558.003 | % | 60 - 130% | 81 |
| | BH2 | SE199558.007 | % | 60 - 130% | 81 |
| | BH2 | SE199558.008 | % | 60 - 130% | 80 |
| | BH3 | SE199558.011 | % | 60 - 130% | 78 |
| | BH3 | SE199558.012 | % | 60 - 130% | 77 |
| | DSS1 | SE199558.013 | % | 60 - 130% | 83 |

## VOC's in Soil

Method: ME-(AU)-[ENV]AN433

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| Bromofluorobenzene (Surrogate) | BH1 | SE199558.001 | % | 60 - 130% | 96 |
| | BH1 | SE199558.002 | % | 60 - 130% | 73 |
| | BH1 | SE199558.003 | % | 60 - 130% | 73 |
| | BH2 | SE199558.007 | % | 60 - 130% | 81 |
| | BH2 | SE199558.008 | % | 60 - 130% | 68 |
| | BH3 | SE199558.011 | % | 60 - 130% | 72 |
| | BH3 | SE199558.012 | % | 60 - 130% | 70 |
| | DSS1 | SE199558.013 | % | 60 - 130% | 66 |
| | TS1 | SE199558.016 | % | 60 - 130% | 87 |
| | TS2 | SE199558.017 | % | 60 - 130% | 87 |
| d4-1,2-dichloroethane (Surrogate) | BH1 | SE199558.001 | % | 60 - 130% | 79 |
| | BH1 | SE199558.002 | % | 60 - 130% | 78 |
| | BH1 | SE199558.003 | % | 60 - 130% | 78 |

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

**VOC's in Soil (continued)** — Method: ME-(AU)-[ENV]AN433

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| d4-1,2-dichloroethane (Surrogate) | BH2 | SE199558.007 | % | 60 - 130% | 93 |
| | BH2 | SE199558.008 | % | 60 - 130% | 76 |
| | BH3 | SE199558.011 | % | 60 - 130% | 87 |
| | BH3 | SE199558.012 | % | 60 - 130% | 79 |
| | DSS1 | SE199558.013 | % | 60 - 130% | 74 |
| | TS1 | SE199558.016 | % | 60 - 130% | 79 |
| | TS2 | SE199558.017 | % | 60 - 130% | 77 |
| d8-toluene (Surrogate) | BH1 | SE199558.001 | % | 60 - 130% | 96 |
| | BH1 | SE199558.002 | % | 60 - 130% | 85 |
| | BH1 | SE199558.003 | % | 60 - 130% | 60 |
| | BH2 | SE199558.007 | % | 60 - 130% | 97 |
| | BH2 | SE199558.008 | % | 60 - 130% | 81 |
| | BH3 | SE199558.011 | % | 60 - 130% | 87 |
| | BH3 | SE199558.012 | % | 60 - 130% | 85 |
| | DSS1 | SE199558.013 | % | 60 - 130% | 81 |
| | TS1 | SE199558.016 | % | 60 - 130% | 82 |
| | TS2 | SE199558.017 | % | 60 - 130% | 83 |

**Volatile Petroleum Hydrocarbons in Soil** — Method: ME-(AU)-[ENV]AN433

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| Bromofluorobenzene (Surrogate) | BH1 | SE199558.001 | % | 60 - 130% | 96 |
| | BH1 | SE199558.002 | % | 60 - 130% | 73 |
| | BH1 | SE199558.003 | % | 60 - 130% | 73 |
| | BH2 | SE199558.007 | % | 60 - 130% | 81 |
| | BH2 | SE199558.008 | % | 60 - 130% | 68 |
| | BH3 | SE199558.011 | % | 60 - 130% | 72 |
| | BH3 | SE199558.012 | % | 60 - 130% | 70 |
| | DSS1 | SE199558.013 | % | 60 - 130% | 66 |
| d4-1,2-dichloroethane (Surrogate) | BH1 | SE199558.001 | % | 60 - 130% | 79 |
| | BH1 | SE199558.002 | % | 60 - 130% | 78 |
| | BH1 | SE199558.003 | % | 60 - 130% | 78 |
| | BH2 | SE199558.007 | % | 60 - 130% | 93 |
| | BH2 | SE199558.008 | % | 60 - 130% | 76 |
| | BH3 | SE199558.011 | % | 60 - 130% | 87 |
| | BH3 | SE199558.012 | % | 60 - 130% | 79 |
| | DSS1 | SE199558.013 | % | 60 - 130% | 74 |
| d8-toluene (Surrogate) | BH1 | SE199558.001 | % | 60 - 130% | 96 |
| | BH1 | SE199558.002 | % | 60 - 130% | 85 |
| | BH1 | SE199558.003 | % | 60 - 130% | 60 |
| | BH2 | SE199558.007 | % | 60 - 130% | 97 |
| | BH2 | SE199558.008 | % | 60 - 130% | 81 |
| | BH3 | SE199558.011 | % | 60 - 130% | 87 |
| | BH3 | SE199558.012 | % | 60 - 130% | 85 |
| | DSS1 | SE199558.013 | % | 60 - 130% | 81 |

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

### Exchangeable Cations and Cation Exchange Capacity (CEC/ESP/SAR)

Method: ME-(AU)-[ENV]AN122

| Sample Number | Parameter | Units | LOR | Result |
|---|---|---|---|---|
| LB186976.001 | Exchangeable Sodium, Na | mg/kg | 2 | 0 |
| | Exchangeable Potassium, K | mg/kg | 2 | 0 |
| | Exchangeable Calcium, Ca | mg/kg | 2 | 0 |
| | Exchangeable Magnesium, Mg | mg/kg | 2 | 0 |

### Mercury (dissolved) in Water

Method: ME-(AU)-[ENV]AN311(Perth)/AN312

| Sample Number | Parameter | Units | LOR | Result |
|---|---|---|---|---|
| LB186918.001 | Mercury | mg/L | 0.0001 | <0.0001 |

### Mercury in Soil

Method: ME-(AU)-[ENV]AN312

| Sample Number | Parameter | Units | LOR | Result |
|---|---|---|---|---|
| LB186955.001 | Mercury | mg/kg | 0.05 | <0.05 |

### Metals in Water (Dissolved) by ICPOES

Method: ME-(AU)-[ENV]AN320

| Sample Number | Parameter | Units | LOR | Result |
|---|---|---|---|---|
| LB186915.001 | Arsenic, As | mg/L | 0.02 | <0.02 |
| | Cadmium, Cd | mg/L | 0.001 | <0.001 |
| | Chromium, Cr | mg/L | 0.005 | <0.005 |
| | Copper, Cu | mg/L | 0.005 | <0.005 |
| | Lead, Pb | mg/L | 0.02 | <0.02 |
| | Nickel, Ni | mg/L | 0.005 | <0.005 |
| | Zinc, Zn | mg/L | 0.01 | <0.01 |

### OC Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB186892.001 | | Hexachlorobenzene (HCB) | mg/kg | 0.1 | <0.1 |
| | | Alpha BHC | mg/kg | 0.1 | <0.1 |
| | | Lindane | mg/kg | 0.1 | <0.1 |
| | | Heptachlor | mg/kg | 0.1 | <0.1 |
| | | Aldrin | mg/kg | 0.1 | <0.1 |
| | | Beta BHC | mg/kg | 0.1 | <0.1 |
| | | Delta BHC | mg/kg | 0.1 | <0.1 |
| | | Heptachlor epoxide | mg/kg | 0.1 | <0.1 |
| | | Alpha Endosulfan | mg/kg | 0.2 | <0.2 |
| | | Gamma Chlordane | mg/kg | 0.1 | <0.1 |
| | | Alpha Chlordane | mg/kg | 0.1 | <0.1 |
| | | p,p'-DDE | mg/kg | 0.1 | <0.1 |
| | | Dieldrin | mg/kg | 0.05 | <0.05 |
| | | Endrin | mg/kg | 0.2 | <0.2 |
| | | Beta Endosulfan | mg/kg | 0.2 | <0.2 |
| | | p,p'-DDD | mg/kg | 0.1 | <0.1 |
| | | p,p'-DDT | mg/kg | 0.1 | <0.1 |
| | | Endosulfan sulphate | mg/kg | 0.1 | <0.1 |
| | | Endrin Aldehyde | mg/kg | 0.1 | <0.1 |
| | | Methoxychlor | mg/kg | 0.1 | <0.1 |
| | | Endrin Ketone | mg/kg | 0.1 | <0.1 |
| | | Isodrin | mg/kg | 0.1 | <0.1 |
| | | Mirex | mg/kg | 0.1 | <0.1 |
| | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | % | - | 78 |

### PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN420

| Sample Number | Parameter | Units | LOR | Result |
|---|---|---|---|---|
| LB186892.001 | Naphthalene | mg/kg | 0.1 | <0.1 |
| | 2-methylnaphthalene | mg/kg | 0.1 | <0.1 |
| | 1-methylnaphthalene | mg/kg | 0.1 | <0.1 |
| | Acenaphthylene | mg/kg | 0.1 | <0.1 |
| | Acenaphthene | mg/kg | 0.1 | <0.1 |
| | Fluorene | mg/kg | 0.1 | <0.1 |
| | Phenanthrene | mg/kg | 0.1 | <0.1 |

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

### PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

Method: ME-(AU)-[ENV]AN420

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB186892.001 | | Anthracene | mg/kg | 0.1 | <0.1 |
| | | Fluoranthene | mg/kg | 0.1 | <0.1 |
| | | Pyrene | mg/kg | 0.1 | <0.1 |
| | | Benzo(a)anthracene | mg/kg | 0.1 | <0.1 |
| | | Chrysene | mg/kg | 0.1 | <0.1 |
| | | Benzo(a)pyrene | mg/kg | 0.1 | <0.1 |
| | | Indeno(1,2,3-cd)pyrene | mg/kg | 0.1 | <0.1 |
| | | Dibenzo(ah)anthracene | mg/kg | 0.1 | <0.1 |
| | | Benzo(ghi)perylene | mg/kg | 0.1 | <0.1 |
| | | Total PAH (18) | mg/kg | 0.8 | <0.8 |
| | Surrogates | d5-nitrobenzene (Surrogate) | % | - | 78 |
| | | 2-fluorobiphenyl (Surrogate) | % | - | 100 |
| | | d14-p-terphenyl (Surrogate) | % | - | 90 |

### PCBs in Soil

Method: ME-(AU)-[ENV]AN420

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB186892.001 | | Arochlor 1016 | mg/kg | 0.2 | <0.2 |
| | | Arochlor 1221 | mg/kg | 0.2 | <0.2 |
| | | Arochlor 1232 | mg/kg | 0.2 | <0.2 |
| | | Arochlor 1242 | mg/kg | 0.2 | <0.2 |
| | | Arochlor 1248 | mg/kg | 0.2 | <0.2 |
| | | Arochlor 1254 | mg/kg | 0.2 | <0.2 |
| | | Arochlor 1260 | mg/kg | 0.2 | <0.2 |
| | | Arochlor 1262 | mg/kg | 0.2 | <0.2 |
| | | Arochlor 1268 | mg/kg | 0.2 | <0.2 |
| | | Total PCBs (Arochlors) | mg/kg | 1 | <1 |
| | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | % | - | 78 |

### Total Phenolics in Soil

Method: ME-(AU)-[ENV]AN289

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB187157.001 | | Total Phenols | mg/kg | 5 | <5 |

### Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

Method: ME-(AU)-[ENV]AN040/AN320

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB186953.001 | | Arsenic, As | mg/kg | 1 | <1 |
| | | Cadmium, Cd | mg/kg | 0.3 | <0.3 |
| | | Chromium, Cr | mg/kg | 0.5 | <0.5 |
| | | Copper, Cu | mg/kg | 0.5 | <0.5 |
| | | Nickel, Ni | mg/kg | 0.5 | <0.5 |
| | | Lead, Pb | mg/kg | 1 | <1 |
| | | Zinc, Zn | mg/kg | 2 | <2 |

### TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB186892.001 | | TRH C10-C14 | mg/kg | 20 | <20 |
| | | TRH C15-C28 | mg/kg | 45 | <45 |
| | | TRH C29-C36 | mg/kg | 45 | <45 |
| | | TRH C37-C40 | mg/kg | 100 | <100 |
| | | TRH C10-C36 Total | mg/kg | 110 | <110 |

### VOC's in Soil

Method: ME-(AU)-[ENV]AN433

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB186890.001 | Monocyclic Aromatic Hydrocarbons | Benzene | mg/kg | 0.1 | <0.1 |
| | | Toluene | mg/kg | 0.1 | <0.1 |
| | | Ethylbenzene | mg/kg | 0.1 | <0.1 |
| | | m/p-xylene | mg/kg | 0.2 | <0.2 |
| | | o-xylene | mg/kg | 0.1 | <0.1 |
| | Polycyclic VOCs | Naphthalene | mg/kg | 0.1 | <0.1 |
| | Surrogates | d4-1,2-dichloroethane (Surrogate) | % | - | 101 |
| | | d8-toluene (Surrogate) | % | - | 97 |
| | | Bromofluorobenzene (Surrogate) | % | - | 81 |

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

**VOC's in Soil (continued)** — Method: ME-(AU)-[ENV]AN433

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB186890.001 | Totals | Total BTEX | mg/kg | 0.6 | <0.6 |

**Volatile Petroleum Hydrocarbons in Soil** — Method: ME-(AU)-[ENV]AN433

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB186890.001 | | TRH C6-C9 | mg/kg | 20 | <20 |
| | Surrogates | d4-1,2-dichloroethane (Surrogate) | % | - | 101 |

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

### Mercury (dissolved) in Water

Method: ME-(AU)-[ENV]AN311(Perth)/AN312

| Original | Duplicate | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|
| SE199579.005 | LB186918.011 | Mercury | µg/L | 0.0001 | -0.00942 | -0.00142 | 200 | 0 |

### Mercury in Soil

Method: ME-(AU)-[ENV]AN312

| Original | Duplicate | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|
| SE199558.006 | LB186955.014 | Mercury | mg/kg | 0.05 | <0.05 | <0.05 | 200 | 0 |
| SE199558.013 | LB186955.022 | Mercury | mg/kg | 0.05 | <0.05 | <0.05 | 155 | 0 |

### Moisture Content

Method: ME-(AU)-[ENV]AN002

| Original | Duplicate | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|
| SE199558.010 | LB186894.011 | % Moisture | %w/w | 1 | 16.8 | 13.6 | 37 | 21 |
| SE199558.013 | LB186894.015 | % Moisture | %w/w | 1 | 12.9 | 12.2 | 38 | 5 |

### OC Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE199558.008 | LB186892.021 | | Hexachlorobenzene (HCB) | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | | Alpha BHC | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | | Lindane | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | | Heptachlor | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | | Aldrin | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | | Beta BHC | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | | Delta BHC | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | | Heptachlor epoxide | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | | o,p'-DDE | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | | Alpha Endosulfan | mg/kg | 0.2 | <0.2 | 0 | 200 | 0 |
| | | | Gamma Chlordane | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | | Alpha Chlordane | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | | trans-Nonachlor | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | | p,p'-DDE | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | | Dieldrin | mg/kg | 0.05 | <0.05 | 0 | 200 | 0 |
| | | | Endrin | mg/kg | 0.2 | <0.2 | 0 | 200 | 0 |
| | | | o,p'-DDD | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | | o,p'-DDT | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | | Beta Endosulfan | mg/kg | 0.2 | <0.2 | 0 | 200 | 0 |
| | | | p,p'-DDD | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | | p,p'-DDT | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | | Endosulfan sulphate | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | | Endrin Aldehyde | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | | Methoxychlor | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | | Endrin Ketone | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | | Isodrin | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | | Mirex | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | mg/kg | - | 0.12 | 0.121 | 30 | 1 |

### PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN420

| Original | Duplicate | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|
| SE199558.008 | LB186892.021 | Naphthalene | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | 2-methylnaphthalene | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | 1-methylnaphthalene | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | Acenaphthylene | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | Acenaphthene | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | Fluorene | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | Phenanthrene | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | Anthracene | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | Fluoranthene | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | Pyrene | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | Benzo(a)anthracene | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | Chrysene | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | Benzo(b&j)fluoranthene | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

## PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

Method: ME-(AU)-[ENV]AN420

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE199558.008 | LB186892.021 | | Benzo(k)fluoranthene | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | | Benzo(a)pyrene | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | | Indeno(1,2,3-cd)pyrene | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | | Dibenzo(ah)anthracene | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | | Benzo(ghi)perylene | mg/kg | 0.1 | <0.1 | 0 | 200 | 0 |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=0 | mg/kg | 0.2 | <0.2 | 0 | 200 | 0 |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=LOR | mg/kg | 0.3 | <0.3 | 0.242 | 134 | 0 |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=LOR/2 | mg/kg | 0.2 | <0.2 | 0.121 | 175 | 0 |
| | | | Total PAH (18) | mg/kg | 0.8 | <0.8 | 0 | 200 | 0 |
| | | Surrogates | d5-nitrobenzene (Surrogate) | mg/kg | - | 0.4 | 0.43 | 30 | 2 |
| | | | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.4 | 0.45 | 30 | 5 |
| | | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.5 | 0.46 | 30 | 4 |

## PCBs in Soil

Method: ME-(AU)-[ENV]AN420

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE199558.008 | LB186892.021 | | Arochlor 1016 | mg/kg | 0.2 | <0.2 | 0 | 200 | 0 |
| | | | Arochlor 1221 | mg/kg | 0.2 | <0.2 | 0 | 200 | 0 |
| | | | Arochlor 1232 | mg/kg | 0.2 | <0.2 | 0 | 200 | 0 |
| | | | Arochlor 1242 | mg/kg | 0.2 | <0.2 | 0 | 200 | 0 |
| | | | Arochlor 1248 | mg/kg | 0.2 | <0.2 | 0 | 200 | 0 |
| | | | Arochlor 1254 | mg/kg | 0.2 | <0.2 | 0 | 200 | 0 |
| | | | Arochlor 1260 | mg/kg | 0.2 | <0.2 | 0 | 200 | 0 |
| | | | Arochlor 1262 | mg/kg | 0.2 | <0.2 | 0 | 200 | 0 |
| | | | Arochlor 1268 | mg/kg | 0.2 | <0.2 | 0 | 200 | 0 |
| | | | Total PCBs (Arochlors) | mg/kg | 1 | <1 | 0 | 200 | 0 |
| | | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | mg/kg | - | 0 | 0.121 | 30 | 1 |

## pH in soil (1:5)

Method: ME-(AU)-[ENV]AN101

| Original | Duplicate | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|
| SE199558.010 | LB186941.014 | pH | pH Units | 0.1 | 4.6 | 4.9 | 32 | 5 |
| SE199558.012 | LB186941.017 | pH | pH Units | 0.1 | 8.3 | 9.1 | 31 | 10 |

## Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

Method: ME-(AU)-[ENV]AN040/AN320

| Original | Duplicate | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|
| SE199558.004 | LB186953.014 | Arsenic, As | mg/kg | 1 | 6 | 7 | 46 | 16 |
| | | Cadmium, Cd | mg/kg | 0.3 | <0.3 | <0.3 | 200 | 0 |
| | | Chromium, Cr | mg/kg | 0.5 | 11 | 12 | 34 | 6 |
| | | Copper, Cu | mg/kg | 0.5 | 22 | 21 | 32 | 4 |
| | | Nickel, Ni | mg/kg | 0.5 | 13 | 7.3 | 35 | 57 ② |
| | | Lead, Pb | mg/kg | 1 | 16 | 15 | 37 | 7 |
| | | Zinc, Zn | mg/kg | 2 | 40 | 36 | 35 | 11 |
| SE199558.013 | LB186953.024 | Arsenic, As | mg/kg | 1 | 5 | 4 | 54 | 25 |
| | | Cadmium, Cd | mg/kg | 0.3 | <0.3 | <0.3 | 200 | 0 |
| | | Chromium, Cr | mg/kg | 0.5 | 7.9 | 7.7 | 36 | 4 |
| | | Copper, Cu | mg/kg | 0.5 | 42 | 40 | 31 | 6 |
| | | Nickel, Ni | mg/kg | 0.5 | 55 | 47 | 31 | 15 |
| | | Lead, Pb | mg/kg | 1 | 15 | 15 | 37 | 2 |
| | | Zinc, Zn | mg/kg | 2 | 74 | 65 | 33 | 13 |

## TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE199551.001 | LB186892.021 | | TRH C10-C14 | mg/kg | 20 | <20 | 0 | 200 | 0 |
| | | | TRH C15-C28 | mg/kg | 45 | <45 | 0 | 200 | 0 |
| | | | TRH C29-C36 | mg/kg | 45 | <45 | 0 | 200 | 0 |
| | | | TRH C37-C40 | mg/kg | 100 | <100 | 0 | 200 | 0 |
| | | | TRH C10-C36 Total | mg/kg | 110 | <110 | 0 | 200 | 0 |
| | | | TRH >C10-C40 Total (F bands) | mg/kg | 210 | <210 | 0 | 200 | 0 |
| | | TRH F Bands | TRH >C10-C16 | mg/kg | 25 | <25 | 0 | 200 | 0 |
| | | | TRH >C10-C16 - Naphthalene (F2) | mg/kg | 25 | <25 | 0 | 200 | 0 |
| | | | TRH >C16-C34 (F3) | mg/kg | 90 | <90 | 0 | 200 | 0 |
| | | | TRH >C34-C40 (F4) | mg/kg | 120 | <120 | 0 | 200 | 0 |

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

### TRH (Total Recoverable Hydrocarbons) in Soil (continued)

Method: ME-(AU)-[ENV]AN403

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE199558.008 | LB186892.022 | | TRH C10-C14 | mg/kg | 20 | <20 | 0 | 200 | 0 |
| | | | TRH C15-C28 | mg/kg | 45 | <45 | 0 | 200 | 0 |
| | | | TRH C29-C36 | mg/kg | 45 | <45 | 0 | 200 | 0 |
| | | | TRH C37-C40 | mg/kg | 100 | <100 | 0 | 200 | 0 |
| | | | TRH C10-C36 Total | mg/kg | 110 | <110 | 0 | 200 | 0 |
| | | | TRH >C10-C40 Total (F bands) | mg/kg | 210 | <210 | 0 | 200 | 0 |
| | | TRH F Bands | TRH >C10-C16 | mg/kg | 25 | <25 | 0 | 200 | 0 |
| | | | TRH >C10-C16 - Naphthalene (F2) | mg/kg | 25 | <25 | 0 | 200 | 0 |
| | | | TRH >C16-C34 (F3) | mg/kg | 90 | <90 | 0 | 200 | 0 |
| | | | TRH >C34-C40 (F4) | mg/kg | 120 | <120 | 0 | 200 | 0 |

### VOC's in Soil

Method: ME-(AU)-[ENV]AN433

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE199558.013 | LB186890.023 | Monocyclic | Benzene | mg/kg | 0.1 | <0.1 | 0.0030738761 | 200 | 0 |
| | | Aromatic | Toluene | mg/kg | 0.1 | <0.1 | 0.0048099017 | 200 | 0 |
| | | | Ethylbenzene | mg/kg | 0.1 | <0.1 | 0.0021957353 | 200 | 0 |
| | | | m/p-xylene | mg/kg | 0.2 | <0.2 | 0.0123879585 | 200 | 0 |
| | | | o-xylene | mg/kg | 0.1 | <0.1 | 0.0040823534 | 200 | 0 |
| | | Polycyclic | Naphthalene | mg/kg | 0.1 | <0.1 | 0.0182643442 | 200 | 0 |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | 7.4 | 8.4169590269 | 50 | 12 |
| | | | d8-toluene (Surrogate) | mg/kg | - | 8.1 | 8.2561179387 | 50 | 2 |
| | | | Bromofluorobenzene (Surrogate) | mg/kg | - | 6.6 | 7.1040586863 | 50 | 7 |
| | | Totals | Total Xylenes | mg/kg | 0.3 | <0.3 | 0.0164703119 | 200 | 0 |
| | | | Total BTEX | mg/kg | 0.6 | <0.6 | 0 | 200 | 0 |

### Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-[ENV]AN433

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE199558.013 | LB186890.023 | | TRH C6-C10 | mg/kg | 25 | <25 | 0.5 | 200 | 0 |
| | | | TRH C6-C9 | mg/kg | 20 | <20 | 0.5 | 200 | 0 |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | 7.4 | 8.4169590269 | 30 | 12 |
| | | | d8-toluene (Surrogate) | mg/kg | - | 8.1 | 8.2561179387 | 30 | 2 |
| | | | Bromofluorobenzene (Surrogate) | mg/kg | - | 6.6 | 7.1040586863 | 30 | 7 |
| | | VPH F Bands | Benzene (F0) | mg/kg | 0.1 | <0.1 | 0.0030738761 | 200 | 0 |
| | | | TRH C6-C10 minus BTEX (F1) | mg/kg | 25 | <25 | 0.5 | 200 | 0 |

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

### Mercury in Soil

Method: ME-(AU)-[ENV]AN312

| Sample Number | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|
| LB186955.002 | Mercury | mg/kg | 0.05 | 0.19 | 0.2 | 70 - 130 | 96 |

### Metals in Water (Dissolved) by ICPOES

Method: ME-(AU)-[ENV]AN320

| Sample Number | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|
| LB186915.002 | Arsenic, As | mg/L | 0.02 | 0.50 | 0.5 | 80 - 120 | 100 |
| | Cadmium, Cd | mg/L | 0.001 | 0.44 | 0.5 | 80 - 120 | 89 |
| | Chromium, Cr | mg/L | 0.005 | 0.49 | 0.5 | 80 - 120 | 99 |
| | Copper, Cu | mg/L | 0.005 | 0.48 | 0.5 | 80 - 120 | 96 |
| | Lead, Pb | mg/L | 0.02 | 0.49 | 0.5 | 80 - 120 | 98 |
| | Nickel, Ni | mg/L | 0.005 | 0.49 | 0.5 | 80 - 120 | 99 |
| | Zinc, Zn | mg/L | 0.01 | 0.49 | 0.5 | 80 - 120 | 98 |

### OC Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB186892.002 | | Heptachlor | mg/kg | 0.1 | 0.2 | 0.2 | 60 - 140 | 75 |
| | | Aldrin | mg/kg | 0.1 | 0.2 | 0.2 | 60 - 140 | 86 |
| | | Delta BHC | mg/kg | 0.1 | 0.2 | 0.2 | 60 - 140 | 80 |
| | | Dieldrin | mg/kg | 0.05 | 0.16 | 0.2 | 60 - 140 | 81 |
| | | Endrin | mg/kg | 0.2 | <0.2 | 0.2 | 60 - 140 | 79 |
| | | p,p'-DDT | mg/kg | 0.1 | 0.2 | 0.2 | 60 - 140 | 78 |
| | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | mg/kg | - | 0.12 | 0.15 | 40 - 130 | 79 |

### PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN420

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB186892.002 | | Naphthalene | mg/kg | 0.1 | 4.6 | 4 | 60 - 140 | 114 |
| | | Acenaphthylene | mg/kg | 0.1 | 4.6 | 4 | 60 - 140 | 116 |
| | | Acenaphthene | mg/kg | 0.1 | 4.3 | 4 | 60 - 140 | 108 |
| | | Phenanthrene | mg/kg | 0.1 | 4.9 | 4 | 60 - 140 | 121 |
| | | Anthracene | mg/kg | 0.1 | 4.5 | 4 | 60 - 140 | 113 |
| | | Fluoranthene | mg/kg | 0.1 | 4.6 | 4 | 60 - 140 | 115 |
| | | Pyrene | mg/kg | 0.1 | 5.1 | 4 | 60 - 140 | 128 |
| | | Benzo(a)pyrene | mg/kg | 0.1 | 5.2 | 4 | 60 - 140 | 129 |
| | Surrogates | d5-nitrobenzene (Surrogate) | mg/kg | - | 0.4 | 0.5 | 40 - 130 | 82 |
| | | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | 40 - 130 | 98 |
| | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | 40 - 130 | 94 |

### PCBs in Soil

Method: ME-(AU)-[ENV]AN420

| Sample Number | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|
| LB186892.002 | Arochlor 1260 | mg/kg | 0.2 | 0.4 | 0.4 | 60 - 140 | 93 |

### pH in soil (1:5)

Method: ME-(AU)-[ENV]AN101

| Sample Number | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|
| LB186941.003 | pH | pH Units | 0.1 | 7.4 | 7.415 | 98 - 102 | 100 |

### Total Phenolics in Soil

Method: ME-(AU)-[ENV]AN289

| Sample Number | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|
| LB187157.002 | Total Phenols | mg/kg | 5 | <5 | 2.5 | 70 - 130 | 94 |

### Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

Method: ME-(AU)-[ENV]AN040/AN320

| Sample Number | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|
| LB186953.002 | Arsenic, As | mg/kg | 1 | 350 | 318.22 | 80 - 120 | 109 |
| | Cadmium, Cd | mg/kg | 0.3 | 4.5 | 4.62 | 80 - 120 | 98 |
| | Chromium, Cr | mg/kg | 0.5 | 40 | 38.31 | 80 - 120 | 104 |
| | Copper, Cu | mg/kg | 0.5 | 320 | 290 | 80 - 120 | 110 |
| | Nickel, Ni | mg/kg | 0.5 | 200 | 187 | 80 - 120 | 107 |
| | Lead, Pb | mg/kg | 1 | 100 | 89.9 | 80 - 120 | 112 |

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

### Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES (continued)

Method: ME-(AU)-[ENV]AN040/AN320

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB186953.002 | | Zinc, Zn | mg/kg | 2 | 290 | 273 | 80 - 120 | 105 |

### TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB186892.002 | | TRH C10-C14 | mg/kg | 20 | 43 | 40 | 60 - 140 | 108 |
| | | TRH C15-C28 | mg/kg | 45 | <45 | 40 | 60 - 140 | 105 |
| | | TRH C29-C36 | mg/kg | 45 | <45 | 40 | 60 - 140 | 83 |
| | TRH F Bands | TRH >C10-C16 | mg/kg | 25 | 43 | 40 | 60 - 140 | 108 |
| | | TRH >C16-C34 (F3) | mg/kg | 90 | <90 | 40 | 60 - 140 | 98 |
| | | TRH >C34-C40 (F4) | mg/kg | 120 | <120 | 20 | 60 - 140 | 80 |

### VOC's in Soil

Method: ME-(AU)-[ENV]AN433

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB186890.002 | Monocyclic | Benzene | mg/kg | 0.1 | 4.6 | 5 | 60 - 140 | 92 |
| | Aromatic | Toluene | mg/kg | 0.1 | 4.4 | 5 | 60 - 140 | 87 |
| | | Ethylbenzene | mg/kg | 0.1 | 4.3 | 5 | 60 - 140 | 86 |
| | | m/p-xylene | mg/kg | 0.2 | 8.8 | 10 | 60 - 140 | 88 |
| | | o-xylene | mg/kg | 0.1 | 4.5 | 5 | 60 - 140 | 89 |
| | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | 8.5 | 10 | 70 - 130 | 85 |
| | | d8-toluene (Surrogate) | mg/kg | - | 8.7 | 10 | 70 - 130 | 87 |
| | | Bromofluorobenzene (Surrogate) | mg/kg | - | 9.3 | 10 | 70 - 130 | 93 |

### Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-[ENV]AN433

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB186890.002 | | TRH C6-C10 | mg/kg | 25 | 72 | 92.5 | 60 - 140 | 78 |
| | | TRH C6-C9 | mg/kg | 20 | 63 | 80 | 60 - 140 | 79 |
| | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | 8.5 | 10 | 70 - 130 | 85 |
| | | Bromofluorobenzene (Surrogate) | mg/kg | - | 9.3 | 10 | 70 - 130 | 93 |
| | VPH F Bands | TRH C6-C10 minus BTEX (F1) | mg/kg | 25 | 45 | 62.5 | 60 - 140 | 73 |

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

## Mercury in Soil

Method: ME-(AU)-[ENV]AN312

| QC Sample | Sample Number | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|
| SE199562.001 | LB186955.004 | Mercury | mg/kg | 0.05 | 0.19 | <0.05 | 0.2 | 83 |

## Metals in Water (Dissolved) by ICPOES

Method: ME-(AU)-[ENV]AN320

| QC Sample | Sample Number | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|
| SE199352.004 | LB186915.004 | Arsenic, As | mg/L | 0.02 | 0.53 | 0.0076 | 0.5 | 104 |
| | | Cadmium, Cd | mg/L | 0.001 | 0.48 | 1E-005 | 0.5 | 95 |
| | | Chromium, Cr | mg/L | 0.005 | 0.53 | -0.00023 | 0.5 | 106 |
| | | Copper, Cu | mg/L | 0.005 | 0.51 | -9E-005 | 0.5 | 102 |
| | | Lead, Pb | mg/L | 0.02 | 0.52 | -0.00192 | 0.5 | 105 |
| | | Nickel, Ni | mg/L | 0.005 | 0.51 | -0.00023 | 0.5 | 103 |
| | | Zinc, Zn | mg/L | 0.01 | 0.53 | -0.00048 | 0.5 | 106 |

## PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN420

| QC Sample | Sample Number | | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|---|
| SE199551.001 | LB186892.004 | | Naphthalene | mg/kg | 0.1 | 4.5 | <0.1 | 4 | 112 |
| | | | 2-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | 1-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Acenaphthylene | mg/kg | 0.1 | 4.5 | <0.1 | 4 | 112 |
| | | | Acenaphthene | mg/kg | 0.1 | 4.1 | <0.1 | 4 | 102 |
| | | | Fluorene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Phenanthrene | mg/kg | 0.1 | 4.7 | <0.1 | 4 | 118 |
| | | | Anthracene | mg/kg | 0.1 | 4.5 | <0.1 | 4 | 113 |
| | | | Fluoranthene | mg/kg | 0.1 | 4.7 | <0.1 | 4 | 117 |
| | | | Pyrene | mg/kg | 0.1 | 5.1 | <0.1 | 4 | 126 |
| | | | Benzo(a)anthracene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Chrysene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Benzo(b&j)fluoranthene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Benzo(k)fluoranthene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Benzo(a)pyrene | mg/kg | 0.1 | 4.9 | <0.1 | 4 | 123 |
| | | | Indeno(1,2,3-cd)pyrene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Dibenzo(ah)anthracene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Benzo(ghi)perylene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=0 | TEQ (mg/kg) | 0.2 | 4.9 | <0.2 | - | - |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=LOR | TEQ (mg/kg) | 0.3 | 5.0 | <0.3 | - | - |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=LOR/2 | TEQ (mg/kg) | 0.2 | 5.0 | <0.2 | - | - |
| | | | Total PAH (18) | mg/kg | 0.8 | 37 | <0.8 | - | - |
| | | Surrogates | d5-nitrobenzene (Surrogate) | mg/kg | - | 0.4 | 0.4 | - | 78 |
| | | | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | - | 94 |
| | | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | - | 96 |

## Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

Method: ME-(AU)-[ENV]AN040/AN320

| QC Sample | Sample Number | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|
| SE199562.001 | LB186953.004 | Arsenic, As | mg/kg | 1 | 46 | 4 | 50 | 85 |
| | | Cadmium, Cd | mg/kg | 0.3 | 41 | <0.3 | 50 | 82 |
| | | Chromium, Cr | mg/kg | 0.5 | 60 | 16 | 50 | 88 |
| | | Copper, Cu | mg/kg | 0.5 | 53 | 7.9 | 50 | 90 |
| | | Nickel, Ni | mg/kg | 0.5 | 45 | 2.1 | 50 | 85 |
| | | Lead, Pb | mg/kg | 1 | 65 | 21 | 50 | 88 |
| | | Zinc, Zn | mg/kg | 2 | 77 | 30 | 50 | 94 |

## VOC's in Soil

Method: ME-(AU)-[ENV]AN433

| QC Sample | Sample Number | | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|---|
| SE199551.001 | LB186890.004 | Monocyclic Aromatic | Benzene | mg/kg | 0.1 | 4.6 | <0.1 | 5 | 92 |
| | | | Toluene | mg/kg | 0.1 | 4.4 | <0.1 | 5 | 87 |
| | | | Ethylbenzene | mg/kg | 0.1 | 4.3 | <0.1 | 5 | 85 |
| | | | m/p-xylene | mg/kg | 0.2 | 8.8 | <0.2 | 10 | 88 |
| | | | o-xylene | mg/kg | 0.1 | 4.5 | <0.1 | 5 | 89 |
| | | Polycyclic | Naphthalene | mg/kg | 0.1 | 4.7 | <0.1 | - | - |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | 7.7 | 9.5 | 10 | 77 |
| | | | d8-toluene (Surrogate) | mg/kg | - | 8.2 | 9.3 | 10 | 82 |

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

## VOC's in Soil (continued)

Method: ME-(AU)-[ENV]AN433

| QC Sample | Sample Number | | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|---|
| SE199551.001 | LB186890.004 | Surrogates | Bromofluorobenzene (Surrogate) | mg/kg | - | 8.7 | 7.6 | 10 | 87 |
| | | Totals | Total Xylenes | mg/kg | 0.3 | 13 | <0.3 | - | - |
| | | | Total BTEX | mg/kg | 0.6 | 26 | <0.6 | - | - |

## Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-[ENV]AN433

| QC Sample | Sample Number | | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|---|
| SE199551.001 | LB186890.004 | | TRH C6-C10 | mg/kg | 25 | 70 | <25 | 92.5 | 76 |
| | | | TRH C6-C9 | mg/kg | 20 | 61 | <20 | 80 | 77 |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | 7.7 | 9.5 | 10 | 77 |
| | | | d8-toluene (Surrogate) | mg/kg | - | 8.2 | 9.3 | 10 | 82 |
| | | | Bromofluorobenzene (Surrogate) | mg/kg | - | 8.7 | 7.6 | - | 87 |
| | | VPH F | Benzene (F0) | mg/kg | 0.1 | 4.6 | <0.1 | - | - |
| | | Bands | TRH C6-C10 minus BTEX (F1) | mg/kg | 25 | 44 | <25 | 62.5 | 70 |

Matrix spike duplicates are calculated as Relative Percent Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The original result is the analyte concentration of the matrix spike. The Duplicate result is the analyte concentration of the matrix spike duplicate.

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

No matrix spike duplicates were required for this job.

Samples analysed as received.

Solid samples expressed on a dry weight basis.

QC criteria are subject to internal review according to the SGS QA/QC plan and may be provided on request or alternatively can be found here: https://www.sgs.com.au/~/media/Local/Australia/Documents/ Technical Documents/MP-AU-ENV-QU-022 QA QC Plan.pdf

| | |
|---|---|
| * | NATA accreditation does not cover the performance of this service. |
| ** | Indicative data, theoretical holding time exceeded. |
| - | Sample not analysed for this analyte. |
| IS | Insufficient sample for analysis. |
| LNR | Sample listed, but not received. |
| LOR | Limit of reporting. |
| QFH | QC result is above the upper tolerance. |
| QFL | QC result is below the lower tolerance. |

| | |
|---|---|
| ① | At least 2 of 3 surrogates are within acceptance criteria. |
| ② | RPD failed acceptance criteria due to sample heterogeneity. |
| ③ | Results less than 5 times LOR preclude acceptance criteria for RPD. |
| ④ | Recovery failed acceptance criteria due to matrix interference. |
| ⑤ | Recovery failed acceptance criteria due to the presence of significant concentration of analyte (i.e. the concentration of analyte exceeds the spike level). |
| ⑥ | LOR was raised due to sample matrix interference. |
| ⑦ | LOR was raised due to dilution of significantly high concentration of analyte in sample. |
| ⑧ | Reanalysis of sample in duplicate confirmed sample heterogeneity and inconsistency of results. |
| ⑨ | Recovery failed acceptance criteria due to sample heterogeneity. |
| ⑩ | LOR was raised due to high conductivity of the sample (required dilution). |
| † | Refer to Analytical Report comments for further information. |

This document is issued by the Company under its General Conditions of Service accessible at www.sgs.com/en/Terms-and-Conditions.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client only. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law .

This test report shall not be reproduced, except in full.

# ANALYTICAL REPORT

Accreditation No. 2562

## CLIENT DETAILS

| | |
|---|---|
| Contact | Anwar Barbhuyia |
| Client | Geotechnique |
| Address | P.O. Box 880<br>PENRITH NSW 2751 |
| Telephone | 02 4722 2700 |
| Facsimile | 02 4722 6161 |
| Email | anwar@geotech.com.au |
| Project | **14561/1 Penrith** |
| Order Number | (Not specified) |
| Samples | 5 |

## LABORATORY DETAILS

| | |
|---|---|
| Manager | Huong Crawford |
| Laboratory | SGS Alexandria Environmental |
| Address | Unit 16, 33 Maddox St<br>Alexandria NSW 2015 |
| Telephone | +61 2 8594 0400 |
| Facsimile | +61 2 8594 0499 |
| Email | au.environmental.sydney@sgs.com |
| SGS Reference | **SE199558 R0** |
| Date Received | 01 Nov 2019 |
| Date Reported | 07 Nov 2019 |

## COMMENTS

Accredited for compliance with ISO/IEC 17025 - Testing. NATA accredited laboratory 2562(4354).

No respirable fibres detected in all soil samples using trace analysis technique.

Sample 11: Asbestos found in approx 4x3x2mm cement sheet fragments.

Asbestos analysed by Approved Identifier Yusuf Kuthpudin.

## SIGNATORIES

Dong LIANG
Metals/Inorganics Team Leader

Huong CRAWFORD
Production Manager

Kamrul AHSAN
Senior Chemist

Ly Kim HA
Organic Section Head

Ravee SIVASUBRAMANIAM
Hygiene Team Leader

Shane MCDERMOTT
Inorganic/Metals Chemist

RESULTS

Fibre Identification in soil

Method AN602

| Laboratory Reference | Client Reference | Matrix | Sample Description | Date Sampled | Fibre Identification | Est.%w/w* |
|---|---|---|---|---|---|---|
| SE199558.001 | BH1 | Other | 580g Clay,Rocks | 30 Oct 2019 | No Asbestos Found | <0.01 |
| SE199558.002 | BH1 | Other | 541g Clay,Rocks | 30 Oct 2019 | No Asbestos Found | <0.01 |
| SE199558.007 | BH2 | Other | 569g Clay,Rocks | 31 Oct 2019 | No Asbestos Found | <0.01 |
| SE199558.011 | BH3 | Other | 555g Clay,Sand,Rocks | 31 Oct 2019 | Chrysotile & Crocidolite Asbestos Found | <0.01 |
| SE199558.012 | BH3 | Other | 581g Clay,Sand,Rocks | 31 Oct 2019 | No Asbestos Found | <0.01 |

## Gravimetric Determination of Asbestos in Soil [AN605] Tested: 6/11/2019

| PARAMETER | UOM | LOR | BH1<br>CLAY<br>0.2-0.35<br>30/10/2019<br>SE199558.001 | BH1<br>CLAY<br>0.7-0.85<br>30/10/2019<br>SE199558.002 | BH2<br>CLAY<br>0.25-0.4<br>31/10/2019<br>SE199558.007 | BH3<br>SAND<br>0.1-0.25<br>31/10/2019<br>SE199558.011 | BH3<br>SAND<br>0.8-0.95<br>31/10/2019<br>SE199558.012 |
|---|---|---|---|---|---|---|---|
| Total Sample Weight* | g | 1 | **580** | **541** | **569** | **555** | **581** |
| ACM in >7mm Sample* | g | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| AF/FA in >2mm to <7mm Sample* | g | 0.0001 | <0.0001 | <0.0001 | <0.0001 | **0.0242** | <0.0001 |
| AF/FA in <2mm Sample* | g | 0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 |
| Asbestos in soil ( >7mm ACM)* | %w/w | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Asbestos in soil (>2mm to <7mm AF/FA)* | %w/w | 0.001 | <0.001 | <0.001 | <0.001 | **0.004** | <0.001 |
| Asbestos in soil (<2mm AF/FA)* | %w/w | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Asbestos in soil (<7mm AF/FA)* | %w/w | 0.001 | <0.001 | <0.001 | <0.001 | **0.004** | <0.001 |
| Fibre Type* | No unit | - | - | - | - | - | - |

# METHOD SUMMARY

| METHOD | METHODOLOGY SUMMARY |
|---|---|
| AN602 | Qualitative identification of chrysotile, amosite and crocidolite in bulk samples by polarised light microscopy (PLM) in conjunction with dispersion staining (DS). AS4964 provides the basis for this document. Unequivocal identification of the asbestos minerals present is made by obtaining sufficient diagnostic `clues`, which provide a reasonable degree of certainty, dispersion staining is a mandatory `clue` for positive identification. If sufficient `clues` are absent, then positive identification of asbestos is not possible. This procedure requires removal of suspect fibres/bundles from the sample which cannot be returned. |
| AN602 | Fibres/material that cannot be unequivocably identified as one of the three asbestos forms, will be reported as unknown mineral fibres (umf) The fibres detected may or may not be asbestos fibres. |
| AN602 | AS4964.2004 Method for the Qualitative Identification of Asbestos in Bulk Samples , Section 8.4, Trace Analysis Criteria, Note 4 states:"Depending upon sample condition and fibre type, the detection limit of this technique has been found to lie generally in the range of 1 in 1,000 to 1 in 10,000 parts by weight, equivalent to 1 to 0.1 g/kg." |
| AN602 | The sample can be reported “no asbestos found at the reporting limit of 0.1 g/kg” (<0.01%w/w) where AN602 section 4.5 of this method has been followed, and if-<br><br>(a) no trace asbestos fibres have been detected (i.e. no ‘respirable’ fibres):<br>(b) the estimated weight of non-respirable asbestos fibre bundles and/or the estimated weight of asbestos in asbestos-containing materials are found to be less than 0.1g/kg: and<br>(c) these non-respirable asbestos fibre bundles and/or the asbestos containing materials are only visible under stereo-microscope viewing conditions. |
| AN605 | This technique gravimetrically determines the mass of Asbestos Containing Material retained on a 7mm Sieve and assumes that 15% of this ACM is asbestos. This calculated asbestos weight is then calculated as a percentage of the total sample weight. |
| AN605 | This technique also gravimetrically determines the mass of Fibrous Asbestos (FA) and Asbestos Fines (AF) Containing Material retained on and passing a 2mm sieve post 7mm sieving. Assumes that FA and AF are 100% asbestos containing. This calculated asbestos weight is then calculated as a percentage of the total sample weight. This does not include free fibres which are only observed by standard trace analysis as per AN 602. |
| AN605 | Insofar as is technically feasible, this report is consistent with the analytical reporting recommendations in the Western Australian Department of Health Guidelines for the Assessment Remediation and Management of Asbestos - Contaminated Sites in Western Australia - May 2009. |

FOOTNOTES

| | | | | | |
|---|---|---|---|---|---|
| Amosite | - | Brown Asbestos | NA | - | Not Analysed |
| Chrysotile | - | White Asbestos | LNR | - | Listed, Not Required |
| Crocidolite | - | Blue Asbestos | * | - | NATA accreditation does not cover the performance of this service. |
| Amphiboles | - | Amosite and/or Crocidolite | ** | - | Indicative data, theoretical holding time exceeded. |

(In reference to soil samples only) This report does not comply with the analytical reporting recommendations in the Western Australian Department of Health Guidelines for the Assessment and Remediation and Management of Asbestos Contaminated sites in Western Australia - May 2009.

Unless it is reported that sampling has been performed by SGS, the samples have been analysed as received.

Where reported: 'Asbestos Detected': Asbestos detected by polarised light microscopy, including dispersion staining.
Where reported: 'No Asbestos Found': No Asbestos Found by polarised light microscopy, including dispersion staining.
Where reported: 'UMF Detected': Mineral fibres of unknown type detected by polarised light microscopy, including dispersion staining. Confirmation by another independent analytical technique may be necessary.

Even after disintegration it can be very difficult, or impossible, to detect the presence of asbestos in some asbestos-containing bulk materials using polarised light microscopy. This is due to the low grade or small length or diameter of asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials.

The QC and MU criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: www.sgs.com.au.pv.sgsvr/en-gb/environment.

This document is issued by the Company under its General Conditions of Service accessible at www.sgs.com/en/Terms-and-Conditions.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client only. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

This test report shall not be reproduced, except in full.

GEOTECHNIQUE PTY LTD

1 LEMKO PLACE PENRITH NSW 2750 Tel: (02) 4722 2700

E-MAILED 11/11/19 11:40 ok

SB 194558



# CHAIN OF CUSTODY

**Results Required By:** Normal Turnaround

**Except pH Results Required By** 2 days

**Date:** Thursday, 7 November 2019

**Date:** Tuesday, 5 November 2019

TO: SGS
UNIT 16, 33 MADDOX STREET
ALEXANDRIA NSW 2015
Tel: 02 8594 0400

Sampled By: RI Ref No: 14561/1 Project Manager: ANWAR BARBHUYIA

Location: Penrith

| | Location | Depth (m) | Date | Soil | Water | Material | Metals As Cd Cr Cu Pb Hg Ni Zn | pH | CEC | CL8 TRH BTEX PAH | CL10 Metals* TRH BTEX PAH | CL16 Metals* TRH BTEX PAH OC PCB | Be B Co Mn Se | Mn | Asbestos 0.001% w/w | Asbestos | BTEX | TRH & BTEX | PAH | OCP | OCP & PCB | Phenol | Cyanide | VOC | OCP OPP & PCB |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | BH1 | 0.2-0.35 | 30/10/19 | GP | | Clay | | ✓ | ✓ | | | ✓ | | | ✓ | | | | | | | | | | |
| 2 | BH1 | 0.7-0.85 | 30/10/19 | GP | | Clay | | ✓ | ✓ | | | ✓ | | | ✓ | | | | | | | ✓ | | | |
| 3 | BH1 | 1.25-1.35 | 30/10/19 | G | | Clay | | ✓ | ✓ | | | ✓ | | | | | | | | | | ✓ | | | |
| 4 | BH1 | 1.8-1.9 | 30/10/19 | G | | Clay | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | |
| 5 | BH1 | 2.3-2.4 | 30/10/19 | G | | Clay | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | |
| | BH1 | 4.3-4.4 | 30/10/19 | G | | Clay | | | | | | | | | | | | | | | | | | | |
| 6 | BH1 | 4.5-4.6 | 30/10/19 | G | | Clay | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | |
| | BH1 | 6.3-6.4 | 30/10/19 | G | | Clay | | | | | | | | | | | | | | | | | | | |
| 7 | BH2 | 0.25-0.4 | 31/10/19 | GP | | Clay | | ✓ | ✓ | | | ✓ | | | ✓ | | | | | | | | | | |
| 8 | BH2 | 0.7-0.8 | 31/10/19 | G | | Clay | | ✓ | ✓ | | | ✓ | | | | | | | | | | ✓ | | | |
| 9 | BH2 | 2.6-2.7 | 31/10/19 | G | | Clay | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | |
| 10 | BH2 | 4.1-4.2 | 31/10/19 | G | | Clay | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | |
| 11 | BH3 | 0.1-0.25 | 31/10/19 | GP | | Sand | | ✓ | ✓ | | | ✓ | | | ✓ | | | | | | | | | | |
| 12 | BH3 | 0.8-0.95 | 31/10/19 | GP | | Sand | | ✓ | ✓ | | | ✓ | | | ✓ | | | | | | | ✓ | | | |
| 13 | DSS1 | | 30/10/19 | G | | | | | | | | ✓ | | | | | | | | | | ✓ | | | |
| 14 | RS1 | | 30/10/19 | | WG/Vial | | ✓ | | | | | | | | | | | | | | | ✓ | | | |
| 15 | RS2 | | 31/10/19 | | WG/Vial | | ✓ | | | | | | | | | | | | | | | | | | |
| 16 | TS1 | | | | | Sand | | | | | | | | | | | ✓ | | | | | | | | |
| 17 | TS2 | | | | | Sand | | | | | | | | | | | ✓ | | | | | | | | |

| Relinquished by | | | Received by | | |
|---|---|---|---|---|---|
| Name | Signature | Date | Name | Signature | Date |
| ANWAR BARBHUYIA | AB | 01/11/19 | Suba | | 01/11/19 @ 2:00 |

WG: Water sample (glass bottle) G Soil sample (glass jar) FCP Fibro Cement Piece (plastic bag) *: As,Cd,Cr,Cu,Pb,Hg,Ni & Zn (8 metals)

WP: Water sample (plastic bottle) P Soil sample (plastic bag) ✓ Test required

# SAMPLE RECEIPT ADVICE

SE199558

## CLIENT DETAILS

| | |
|---|---|
| Contact | Anwar Barbhuyia |
| Client | Geotechnique |
| Address | P.O. Box 880<br>PENRITH NSW 2751 |
| Telephone | 02 4722 2700 |
| Facsimile | 02 4722 6161 |
| Email | anwar@geotech.com.au |
| Project | **14561/1 Penrith** |
| Order Number | (Not specified) |
| Samples | 17 |

## LABORATORY DETAILS

| | |
|---|---|
| Manager | Huong Crawford |
| Laboratory | SGS Alexandria Environmental |
| Address | Unit 16, 33 Maddox St<br>Alexandria NSW 2015 |
| Telephone | +61 2 8594 0400 |
| Facsimile | +61 2 8594 0499 |
| Email | au.environmental.sydney@sgs.com |
| Samples Received | Fri 1/11/2019 |
| Report Due | Thu 7/11/2019 |
| SGS Reference | **SE199558** |

## SUBMISSION DETAILS

This is to confirm that 17 samples were received on Friday 1/ 11/2019. Results are expected to be ready by COB Thursday 7/11/2019. Please quote SGS reference SE199558 when making enquiries. Refer below for details relating to sample integrity upon receipt.

| | | | |
|---|---|---|---|
| Samples clearly labelled | Yes | Complete documentation received | Yes |
| Sample container provider | SGS | Sample cooling method | Ice Bricks |
| Samples received in correct containers | Yes | Sample counts by matrix | 11 Clay, 4 Sand, 2 Water |
| Date documentation received | 01/11/2019@11:40am | Type of documentation received | COC |
| Samples received in good order | Yes | Samples received without headspace | Yes |
| Sample temperature upon receipt | 13.4°C | Sufficient sample for analysis | Yes |
| Turnaround time requested | Standard | | |

Unless otherwise instructed, water and bulk samples will be held for one month from date of report, and soil samples will be held for two months.

## COMMENTS

This document is issued by the Company under its General Conditions of Service accessible at www.sgs.com/en/Terms-and-Conditions.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

# SAMPLE RECEIPT ADVICE

SE199558

CLIENT DETAILS

Client Geotechnique

Project 14561/1 Penrith

SUMMARY OF ANALYSIS

| No. | Sample ID | OC Pesticides in Soil | PAH (Polynuclear Aromatic Hydrocarbons) in Soil | PCBs in Soil | pH in soil (1:5) | Total Phenolics in Soil | TRH (Total Recoverable Hydrocarbons) in Soil | VOC's in Soil | Volatile Petroleum Hydrocarbons in Soil |
|---|---|---|---|---|---|---|---|---|---|
| 001 | BH1 0.2-0.35 | 28 | 26 | 11 | 1 | 1 | 10 | 11 | 7 |
| 002 | BH1 0.7-0.85 | 28 | 26 | 11 | 1 | 1 | 10 | 11 | 7 |
| 003 | BH1 1.25-1.35 | 28 | 26 | 11 | 1 | - | 10 | 11 | 7 |
| 004 | BH1 1.8-1.9 | - | - | - | 1 | - | - | - | - |
| 005 | BH1 2.3-2.4 | - | - | - | 1 | - | - | - | - |
| 006 | BH1 4.5-4.6 | - | - | - | 1 | - | - | - | - |
| 007 | BH2 0.25-0.4 | 28 | 26 | 11 | 1 | 1 | 10 | 11 | 7 |
| 008 | BH2 0.7-0.8 | 28 | 26 | 11 | 1 | - | 10 | 11 | 7 |
| 009 | BH2 2.6-2.7 | - | - | - | 1 | - | - | - | - |
| 010 | BH2 4.1-4.2 | - | - | - | 1 | - | - | - | - |
| 011 | BH3 0.1-0.25 | 28 | 26 | 11 | 1 | 1 | 10 | 11 | 7 |
| 012 | BH3 0.8-0.95 | 28 | 26 | 11 | 1 | 1 | 10 | 11 | 7 |
| 013 | DSS1 | 28 | 26 | 11 | - | 1 | 10 | 11 | 7 |
| 016 | TS1 | - | - | - | - | - | - | 8 | - |
| 017 | TS2 | - | - | - | - | - | - | 8 | - |

CONTINUED OVERLEAF

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.
The numbers shown in the table indicate the number of results requested in each package.
Please indicate as soon as possible should your request differ from these details .
Testing as per this table shall commence immediately unless the client intervenes with a correction .

# SAMPLE RECEIPT ADVICE

SE199558

CLIENT DETAILS

Client Geotechnique

Project 14561/1 Penrith

SUMMARY OF ANALYSIS

| No. | Sample ID | Exchangeable Cations and Cation Exchange Capacity | Fibre Identification in soil | Gravimetric Determination of Asbestos in Soil | Mercury in Soil | Moisture Content | Total Recoverable Elements in Soil/Waste |
|---|---|---|---|---|---|---|---|
| 001 | BH1 0.2-0.35 | 13 | 2 | 9 | 1 | 1 | 7 |
| 002 | BH1 0.7-0.85 | 13 | 2 | 9 | 1 | 1 | 7 |
| 003 | BH1 1.25-1.35 | 13 | - | - | 1 | 1 | 7 |
| 004 | BH1 1.8-1.9 | 13 | - | - | 1 | 1 | 7 |
| 005 | BH1 2.3-2.4 | 13 | - | - | 1 | 1 | 7 |
| 006 | BH1 4.5-4.6 | 13 | - | - | 1 | 1 | 7 |
| 007 | BH2 0.25-0.4 | 13 | 2 | 9 | 1 | 1 | 7 |
| 008 | BH2 0.7-0.8 | 13 | - | - | 1 | 1 | 7 |
| 009 | BH2 2.6-2.7 | 13 | - | - | 1 | 1 | 7 |
| 010 | BH2 4.1-4.2 | 13 | - | - | 1 | 1 | 7 |
| 011 | BH3 0.1-0.25 | 13 | 2 | 9 | 1 | 1 | 7 |
| 012 | BH3 0.8-0.95 | 13 | 2 | 9 | 1 | 1 | 7 |
| 013 | DSS1 | - | - | - | 1 | 1 | 7 |

CONTINUED OVERLEAF

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.
The numbers shown in the table indicate the number of results requested in each package.
Please indicate as soon as possible should your request differ from these details .
Testing as per this table shall commence immediately unless the client intervenes with a correction .

# SAMPLE RECEIPT ADVICE

SE199558

CLIENT DETAILS

Client Geotechnique

Project 14561/1 Penrith

SUMMARY OF ANALYSIS

| No. | Sample ID | Mercury (dissolved) in Water | Metals in Water (Dissolved) by ICPOES |
|---|---|---|---|
| 014 | RS1 | 1 | 7 |
| 015 | RS2 | 1 | 7 |

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.
The numbers shown in the table indicate the number of results requested in each package.
Please indicate as soon as possible should your request differ from these details .
Testing as per this table shall commence immediately unless the client intervenes with a correction .

# ANALYTICAL REPORT

Accreditation No. 2562

## CLIENT DETAILS

| | |
|---|---|
| Contact | Anwar Barbhuyia |
| Client | Geotechnique |
| Address | P.O. Box 880<br>PENRITH NSW 2751 |
| Telephone | 02 4722 2700 |
| Facsimile | 02 4722 6161 |
| Email | anwar@geotech.com.au |
| Project | **14561/1 Penrith** |
| Order Number | (Not specified) |
| Samples | 9 |

## LABORATORY DETAILS

| | |
|---|---|
| Manager | Huong Crawford |
| Laboratory | SGS Alexandria Environmental |
| Address | Unit 16, 33 Maddox St<br>Alexandria NSW 2015 |
| Telephone | +61 2 8594 0400 |
| Facsimile | +61 2 8594 0499 |
| Email | au.environmental.sydney@sgs.com |
| SGS Reference | **SE199654 R0** |
| Date Received | 4/11/2019 |
| Date Reported | 7/11/2019 |

## COMMENTS

Accredited for compliance with ISO/IEC 17025 - Testing. NATA accredited laboratory 2562(4354).

No respirable fibres detected in all soil samples using trace analysis technique.

Asbestos analysed by Approved Identifier Yusuf Kuthpudin.

## SIGNATORIES

**Dong LIANG**
Metals/Inorganics Team Leader

**Kamrul AHSAN**
Senior Chemist

**Ly Kim HA**
Organic Section Head

**Ravee SIVASUBRAMANIAM**
Hygiene Team Leader

## VOC's in Soil [AN433] Tested: 6/11/2019

| PARAMETER | UOM | LOR | BH4<br>CLAY<br>0.25-0.4<br>31/10/2019<br>SE199654.001 | BH5<br>CLAY<br>0.55-0.7<br>1/11/2019<br>SE199654.002 | BH5<br>CLAY<br>1.55-1.7<br>1/11/2019<br>SE199654.004 | BH5<br>CLAY<br>3.85-3.95<br>1/11/2019<br>SE199654.006 | TS3<br>SAND<br>-<br>1/11/2019<br>SE199654.008 |
|---|---|---|---|---|---|---|---|
| Benzene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | [83%] |
| Toluene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | [86%] |
| Ethylbenzene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | [89%] |
| m/p-xylene | mg/kg | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 | [90%] |
| o-xylene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | [90%] |
| Total Xylenes | mg/kg | 0.3 | <0.3 | <0.3 | <0.3 | <0.3 | - |
| Total BTEX | mg/kg | 0.6 | <0.6 | <0.6 | <0.6 | <0.6 | - |
| Naphthalene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - |

| PARAMETER | UOM | LOR | BH3<br>CLAY<br>1.75-1.85<br>31/10/2019<br>SE199654.009 |
|---|---|---|---|
| Benzene | mg/kg | 0.1 | <0.1 |
| Toluene | mg/kg | 0.1 | <0.1 |
| Ethylbenzene | mg/kg | 0.1 | <0.1 |
| m/p-xylene | mg/kg | 0.2 | <0.2 |
| o-xylene | mg/kg | 0.1 | <0.1 |
| Total Xylenes | mg/kg | 0.3 | <0.3 |
| Total BTEX | mg/kg | 0.6 | <0.6 |
| Naphthalene | mg/kg | 0.1 | <0.1 |

## Volatile Petroleum Hydrocarbons in Soil [AN433] Tested: 6/11/2019

| PARAMETER | UOM | LOR | BH4<br>CLAY<br>0.25-0.4<br>31/10/2019<br>SE199654.001 | BH5<br>CLAY<br>0.55-0.7<br>1/11/2019<br>SE199654.002 | BH5<br>CLAY<br>1.55-1.7<br>1/11/2019<br>SE199654.004 | BH5<br>CLAY<br>3.85-3.95<br>1/11/2019<br>SE199654.006 | BH3<br>CLAY<br>1.75-1.85<br>31/10/2019<br>SE199654.009 |
|---|---|---|---|---|---|---|---|
| TRH C6-C9 | mg/kg | 20 | <20 | <20 | <20 | <20 | <20 |
| Benzene (F0) | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| TRH C6-C10 | mg/kg | 25 | <25 | <25 | <25 | <25 | <25 |
| TRH C6-C10 minus BTEX (F1) | mg/kg | 25 | <25 | <25 | <25 | <25 | <25 |

## TRH (Total Recoverable Hydrocarbons) in Soil [AN403] Tested: 5/11/2019

| PARAMETER | UOM | LOR | BH4<br>CLAY<br>0.25-0.4<br>31/10/2019<br>SE199654.001 | BH5<br>CLAY<br>0.55-0.7<br>1/11/2019<br>SE199654.002 | BH5<br>CLAY<br>1.55-1.7<br>1/11/2019<br>SE199654.004 | BH5<br>CLAY<br>3.85-3.95<br>1/11/2019<br>SE199654.006 | BH3<br>CLAY<br>1.75-1.85<br>31/10/2019<br>SE199654.009 |
|---|---|---|---|---|---|---|---|
| TRH C10-C14 | mg/kg | 20 | <20 | <20 | <20 | <20 | <20 |
| TRH C15-C28 | mg/kg | 45 | <45 | **47** | <45 | <45 | <45 |
| TRH C29-C36 | mg/kg | 45 | <45 | <45 | <45 | <45 | <45 |
| TRH C37-C40 | mg/kg | 100 | <100 | <100 | <100 | <100 | <100 |
| TRH >C10-C16 | mg/kg | 25 | <25 | <25 | <25 | <25 | <25 |
| TRH >C10-C16 - Naphthalene (F2) | mg/kg | 25 | <25 | <25 | <25 | <25 | <25 |
| TRH >C16-C34 (F3) | mg/kg | 90 | <90 | <90 | <90 | <90 | <90 |
| TRH >C34-C40 (F4) | mg/kg | 120 | <120 | <120 | <120 | <120 | <120 |
| TRH C10-C36 Total | mg/kg | 110 | <110 | <110 | <110 | <110 | <110 |
| TRH >C10-C40 Total (F bands) | mg/kg | 210 | <210 | <210 | <210 | <210 | <210 |

## PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 5/11/2019

| PARAMETER | UOM | LOR | BH4<br>CLAY<br>0.25-0.4<br>31/10/2019<br>SE199654.001 | BH5<br>CLAY<br>0.55-0.7<br>1/11/2019<br>SE199654.002 | BH5<br>CLAY<br>1.55-1.7<br>1/11/2019<br>SE199654.004 | BH5<br>CLAY<br>3.85-3.95<br>1/11/2019<br>SE199654.006 | BH3<br>CLAY<br>1.75-1.85<br>31/10/2019<br>SE199654.009 |
|---|---|---|---|---|---|---|---|
| Naphthalene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 2-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| 1-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Acenaphthylene | mg/kg | 0.1 | <0.1 | 0.2 | <0.1 | <0.1 | <0.1 |
| Acenaphthene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Fluorene | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Phenanthrene | mg/kg | 0.1 | <0.1 | 1.2 | <0.1 | <0.1 | <0.1 |
| Anthracene | mg/kg | 0.1 | <0.1 | 0.3 | <0.1 | <0.1 | <0.1 |
| Fluoranthene | mg/kg | 0.1 | <0.1 | 3.2 | <0.1 | <0.1 | <0.1 |
| Pyrene | mg/kg | 0.1 | <0.1 | 3.1 | <0.1 | <0.1 | <0.1 |
| Benzo(a)anthracene | mg/kg | 0.1 | <0.1 | 1.6 | <0.1 | <0.1 | <0.1 |
| Chrysene | mg/kg | 0.1 | <0.1 | 1.7 | <0.1 | <0.1 | <0.1 |
| Benzo(b&j)fluoranthene | mg/kg | 0.1 | <0.1 | 1.8 | <0.1 | <0.1 | <0.1 |
| Benzo(k)fluoranthene | mg/kg | 0.1 | <0.1 | 0.9 | <0.1 | <0.1 | <0.1 |
| Benzo(a)pyrene | mg/kg | 0.1 | <0.1 | 1.9 | <0.1 | <0.1 | <0.1 |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.1 | <0.1 | 1.1 | <0.1 | <0.1 | <0.1 |
| Dibenzo(ah)anthracene | mg/kg | 0.1 | <0.1 | 0.1 | <0.1 | <0.1 | <0.1 |
| Benzo(ghi)perylene | mg/kg | 0.1 | <0.1 | 1.0 | <0.1 | <0.1 | <0.1 |
| Carcinogenic PAHs, BaP TEQ <LOR=0 | TEQ (mg/kg) | 0.2 | <0.2 | 2.6 | <0.2 | <0.2 | <0.2 |
| Carcinogenic PAHs, BaP TEQ <LOR=LOR | TEQ (mg/kg) | 0.3 | <0.3 | 2.6 | <0.3 | <0.3 | <0.3 |
| Carcinogenic PAHs, BaP TEQ <LOR=LOR/2 | TEQ (mg/kg) | 0.2 | <0.2 | 2.6 | <0.2 | <0.2 | <0.2 |
| Total PAH (18) | mg/kg | 0.8 | <0.8 | 18 | <0.8 | <0.8 | <0.8 |
| Total PAH (NEPM/WHO 16) | mg/kg | 0.8 | <0.8 | 18 | <0.8 | <0.8 | <0.8 |

## OC Pesticides in Soil [AN420] Tested: 5/11/2019

| PARAMETER | UOM | LOR | BH4<br>CLAY<br>0.25-0.4<br>31/10/2019<br>SE199654.001 | BH5<br>CLAY<br>0.55-0.7<br>1/11/2019<br>SE199654.002 | BH5<br>CLAY<br>1.55-1.7<br>1/11/2019<br>SE199654.004 |
|---|---|---|---|---|---|
| Hexachlorobenzene (HCB) | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 |
| Alpha BHC | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 |
| Lindane | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 |
| Heptachlor | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 |
| Aldrin | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 |
| Beta BHC | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 |
| Delta BHC | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 |
| Heptachlor epoxide | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 |
| o,p'-DDE | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 |
| Alpha Endosulfan | mg/kg | 0.2 | <0.2 | <0.2 | <0.2 |
| Gamma Chlordane | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 |
| Alpha Chlordane | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 |
| trans-Nonachlor | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 |
| p,p'-DDE | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 |
| Dieldrin | mg/kg | 0.05 | <0.05 | <0.05 | <0.05 |
| Endrin | mg/kg | 0.2 | <0.2 | <0.2 | <0.2 |
| o,p'-DDD | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 |
| o,p'-DDT | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 |
| Beta Endosulfan | mg/kg | 0.2 | <0.2 | <0.2 | <0.2 |
| p,p'-DDD | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 |
| p,p'-DDT | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 |
| Endosulfan sulphate | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 |
| Endrin Aldehyde | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 |
| Methoxychlor | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 |
| Endrin Ketone | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 |
| Isodrin | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 |
| Mirex | mg/kg | 0.1 | <0.1 | <0.1 | <0.1 |

## PCBs in Soil [AN420] Tested: 5/11/2019

| PARAMETER | UOM | LOR | BH4<br>CLAY<br>0.25-0.4<br>31/10/2019<br>SE199654.001 | BH5<br>CLAY<br>0.55-0.7<br>1/11/2019<br>SE199654.002 | BH5<br>CLAY<br>1.55-1.7<br>1/11/2019<br>SE199654.004 |
|---|---|---|---|---|---|
| Arochlor 1016 | mg/kg | 0.2 | <0.2 | <0.2 | <0.2 |
| Arochlor 1221 | mg/kg | 0.2 | <0.2 | <0.2 | <0.2 |
| Arochlor 1232 | mg/kg | 0.2 | <0.2 | <0.2 | <0.2 |
| Arochlor 1242 | mg/kg | 0.2 | <0.2 | <0.2 | <0.2 |
| Arochlor 1248 | mg/kg | 0.2 | <0.2 | <0.2 | <0.2 |
| Arochlor 1254 | mg/kg | 0.2 | <0.2 | <0.2 | <0.2 |
| Arochlor 1260 | mg/kg | 0.2 | <0.2 | <0.2 | <0.2 |
| Arochlor 1262 | mg/kg | 0.2 | <0.2 | <0.2 | <0.2 |
| Arochlor 1268 | mg/kg | 0.2 | <0.2 | <0.2 | <0.2 |
| Total PCBs (Arochlors) | mg/kg | 1 | <1 | <1 | <1 |

## Total Phenolics in Soil [AN289] Tested: 7/11/2019

| PARAMETER | UOM | LOR | BH4<br>CLAY<br>0.25-0.4<br>31/10/2019<br>SE199654.001 | BH5<br>CLAY<br>0.55-0.7<br>1/11/2019<br>SE199654.002 | BH5<br>CLAY<br>1.55-1.7<br>1/11/2019<br>SE199654.004 |
|---|---|---|---|---|---|
| Total Phenols | mg/kg | 5 | <5 | <5 | <5 |

## pH in soil (1:5) [AN101] Tested: 6/11/2019

| PARAMETER | UOM | LOR | BH4<br>CLAY<br>0.25-0.4<br>31/10/2019<br>SE199654.001 | BH5<br>CLAY<br>0.55-0.7<br>1/11/2019<br>SE199654.002 | BH5<br>CLAY<br>1.05-1.2<br>1/11/2019<br>SE199654.003 | BH5<br>CLAY<br>1.55-1.7<br>1/11/2019<br>SE199654.004 | BH5<br>CLAY<br>2.55-2.7<br>1/11/2019<br>SE199654.005 |
|---|---|---|---|---|---|---|---|
| pH | pH Units | 0.1 | 5.6 | 6.4 | 6.5 | 7.3 | 7.7 |

| PARAMETER | UOM | LOR | BH5<br>CLAY<br>3.85-3.95<br>1/11/2019<br>SE199654.006 | BH3<br>CLAY<br>1.75-1.85<br>31/10/2019<br>SE199654.009 |
|---|---|---|---|---|
| pH | pH Units | 0.1 | 7.7 | 7.5 |

## Exchangeable Cations and Cation Exchange Capacity (CEC/ESP/SAR) [AN122] Tested: 7/11/2019

| PARAMETER | UOM | LOR | BH4 CLAY 0.25-0.4 31/10/2019 SE199654.001 | BH5 CLAY 0.55-0.7 1/11/2019 SE199654.002 | BH5 CLAY 1.05-1.2 1/11/2019 SE199654.003 | BH5 CLAY 1.55-1.7 1/11/2019 SE199654.004 | BH5 CLAY 2.55-2.7 1/11/2019 SE199654.005 |
|---|---|---|---|---|---|---|---|
| Exchangeable Sodium, Na | mg/kg | 2 | 260 | 24 | 26 | 1100 | 1200 |
| Exchangeable Sodium, Na | meq/100g | 0.01 | 1.1 | 0.11 | 0.11 | 4.9 | 5.1 |
| Exchangeable Sodium Percentage* | % | 0.1 | 22.6 | 0.8 | 1.6 | 29.8 | 32.0 |
| Exchangeable Potassium, K | mg/kg | 2 | 110 | 190 | 94 | 130 | 140 |
| Exchangeable Potassium, K | meq/100g | 0.01 | 0.27 | 0.50 | 0.24 | 0.34 | 0.36 |
| Exchangeable Potassium Percentage* | % | 0.1 | 5.3 | 3.9 | 3.3 | 2.1 | 2.3 |
| Exchangeable Calcium, Ca | mg/kg | 2 | 260 | 1800 | 990 | 590 | 540 |
| Exchangeable Calcium, Ca | meq/100g | 0.01 | 1.3 | 9.2 | 4.9 | 3.0 | 2.7 |
| Exchangeable Calcium Percentage* | % | 0.1 | 25.9 | 71.3 | 67.9 | 18.2 | 16.9 |
| Exchangeable Magnesium, Mg | mg/kg | 2 | 290 | 380 | 240 | 990 | 960 |
| Exchangeable Magnesium, Mg | meq/100g | 0.02 | 2.4 | 3.1 | 2.0 | 8.2 | 7.8 |
| Exchangeable Magnesium Percentage* | % | 0.1 | 46.2 | 24.1 | 27.2 | 49.9 | 48.9 |
| Cation Exchange Capacity | meq/100g | 0.02 | 5.1 | 13 | 7.3 | 16 | 16 |

| PARAMETER | UOM | LOR | BH5 CLAY 3.85-3.95 1/11/2019 SE199654.006 | BH3 CLAY 1.75-1.85 31/10/2019 SE199654.009 |
|---|---|---|---|---|
| Exchangeable Sodium, Na | mg/kg | 2 | 1500 | 900 |
| Exchangeable Sodium, Na | meq/100g | 0.01 | 6.7 | 3.9 |
| Exchangeable Sodium Percentage* | % | 0.1 | 40.1 | 13.0 |
| Exchangeable Potassium, K | mg/kg | 2 | 210 | 150 |
| Exchangeable Potassium, K | meq/100g | 0.01 | 0.53 | 0.39 |
| Exchangeable Potassium Percentage* | % | 0.1 | 3.2 | 1.3 |
| Exchangeable Calcium, Ca | mg/kg | 2 | 560 | 4000 |
| Exchangeable Calcium, Ca | meq/100g | 0.01 | 2.8 | 20 |
| Exchangeable Calcium Percentage* | % | 0.1 | 16.9 | 67.3 |
| Exchangeable Magnesium, Mg | mg/kg | 2 | 810 | 670 |
| Exchangeable Magnesium, Mg | meq/100g | 0.02 | 6.6 | 5.5 |
| Exchangeable Magnesium Percentage* | % | 0.1 | 39.8 | 18.4 |
| Cation Exchange Capacity | meq/100g | 0.02 | 17 | 30 |

## Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES [AN040/AN320] Tested: 5/11/2019

| PARAMETER | UOM | LOR | BH4<br>CLAY<br>0.25-0.4<br>31/10/2019<br>SE199654.001 | BH5<br>CLAY<br>0.55-0.7<br>1/11/2019<br>SE199654.002 | BH5<br>CLAY<br>1.05-1.2<br>1/11/2019<br>SE199654.003 | BH5<br>CLAY<br>1.55-1.7<br>1/11/2019<br>SE199654.004 | BH5<br>CLAY<br>2.55-2.7<br>1/11/2019<br>SE199654.005 |
|---|---|---|---|---|---|---|---|
| Arsenic, As | mg/kg | 1 | 5 | 10 | 7 | 6 | 3 |
| Cadmium, Cd | mg/kg | 0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Chromium, Cr | mg/kg | 0.5 | 9.8 | 13 | 13 | 14 | 7.6 |
| Copper, Cu | mg/kg | 0.5 | 11 | 35 | 25 | 21 | 14 |
| Lead, Pb | mg/kg | 1 | 9 | 130 | 88 | 23 | 9 |
| Nickel, Ni | mg/kg | 0.5 | 1.2 | 8.0 | 7.3 | 14 | 5.9 |
| Zinc, Zn | mg/kg | 2 | 10 | 260 | 170 | 66 | 24 |

| PARAMETER | UOM | LOR | BH5<br>CLAY<br>3.85-3.95<br>1/11/2019<br>SE199654.006 | BH3<br>CLAY<br>1.75-1.85<br>31/10/2019<br>SE199654.009 |
|---|---|---|---|---|
| Arsenic, As | mg/kg | 1 | 7 | 42 |
| Cadmium, Cd | mg/kg | 0.3 | <0.3 | <0.3 |
| Chromium, Cr | mg/kg | 0.5 | 6.8 | 8.3 |
| Copper, Cu | mg/kg | 0.5 | 33 | 23 |
| Lead, Pb | mg/kg | 1 | 20 | 10 |
| Nickel, Ni | mg/kg | 0.5 | 17 | 8.8 |
| Zinc, Zn | mg/kg | 2 | 71 | 190 |

## Mercury in Soil [AN312] Tested: 5/11/2019

| PARAMETER | UOM | LOR | BH4<br>CLAY<br>0.25-0.4<br>31/10/2019<br>SE199654.001 | BH5<br>CLAY<br>0.55-0.7<br>1/11/2019<br>SE199654.002 | BH5<br>CLAY<br>1.05-1.2<br>1/11/2019<br>SE199654.003 | BH5<br>CLAY<br>1.55-1.7<br>1/11/2019<br>SE199654.004 | BH5<br>CLAY<br>2.55-2.7<br>1/11/2019<br>SE199654.005 |
|---|---|---|---|---|---|---|---|
| Mercury | mg/kg | 0.05 | <0.05 | **0.20** | **0.21** | <0.05 | <0.05 |

| PARAMETER | UOM | LOR | BH5<br>CLAY<br>3.85-3.95<br>1/11/2019<br>SE199654.006 | BH3<br>CLAY<br>1.75-1.85<br>31/10/2019<br>SE199654.009 |
|---|---|---|---|---|
| Mercury | mg/kg | 0.05 | <0.05 | <0.05 |

## Moisture Content [AN002] Tested: 5/11/2019

| PARAMETER | UOM | LOR | BH4<br>CLAY<br>0.25-0.4<br>31/10/2019<br>SE199654.001 | BH5<br>CLAY<br>0.55-0.7<br>1/11/2019<br>SE199654.002 | BH5<br>CLAY<br>1.05-1.2<br>1/11/2019<br>SE199654.003 | BH5<br>CLAY<br>1.55-1.7<br>1/11/2019<br>SE199654.004 | BH5<br>CLAY<br>2.55-2.7<br>1/11/2019<br>SE199654.005 |
|---|---|---|---|---|---|---|---|
| % Moisture | %w/w | 1 | **9.3** | **13.8** | **6.8** | **15.5** | **20.2** |

| PARAMETER | UOM | LOR | BH5<br>CLAY<br>3.85-3.95<br>1/11/2019<br>SE199654.006 | BH3<br>CLAY<br>1.75-1.85<br>31/10/2019<br>SE199654.009 |
|---|---|---|---|---|
| % Moisture | %w/w | 1 | **19.1** | **8.3** |

## Fibre Identification in soil [AN602] Tested: 6/11/2019

| PARAMETER | UOM | LOR | BH5<br>CLAY<br>0.55-0.7<br>1/11/2019<br>SE199654.002 | BH5<br>CLAY<br>1.55-1.7<br>1/11/2019<br>SE199654.004 |
|---|---|---|---|---|
| Asbestos Detected | No unit | - | No | No |
| Estimated Fibres* | %w/w | 0.01 | <0.01 | <0.01 |

## Gravimetric Determination of Asbestos in Soil [AN605] Tested: 6/11/2019

| PARAMETER | UOM | LOR | BH5<br>CLAY<br>0.55-0.7<br>1/11/2019<br>SE199654.002 | BH5<br>CLAY<br>1.55-1.7<br>1/11/2019<br>SE199654.004 |
|---|---|---|---|---|
| Total Sample Weight* | g | 1 | **367** | **497** |
| ACM in >7mm Sample* | g | 0.01 | <0.01 | <0.01 |
| AF/FA in >2mm to <7mm Sample* | g | 0.0001 | <0.0001 | <0.0001 |
| AF/FA in <2mm Sample* | g | 0.0001 | <0.0001 | <0.0001 |
| Asbestos in soil ( >7mm ACM)* | %w/w | 0.01 | <0.01 | <0.01 |
| Asbestos in soil (>2mm to <7mm AF/FA)* | %w/w | 0.001 | <0.001 | <0.001 |
| Asbestos in soil (<2mm AF/FA)* | %w/w | 0.001 | <0.001 | <0.001 |
| Asbestos in soil (<7mm AF/FA)* | %w/w | 0.001 | <0.001 | <0.001 |
| Fibre Type* | No unit | - | - | - |

## Metals in Water (Dissolved) by ICPOES [AN320] Tested: 6/11/2019

| PARAMETER | UOM | LOR | RS3 WATER - 1/11/2019 SE199654.007 |
|---|---|---|---|
| Arsenic, As | mg/L | 0.02 | <0.02 |
| Cadmium, Cd | mg/L | 0.001 | <0.001 |
| Chromium, Cr | mg/L | 0.005 | <0.005 |
| Copper, Cu | mg/L | 0.005 | <0.005 |
| Lead, Pb | mg/L | 0.02 | <0.02 |
| Nickel, Ni | mg/L | 0.005 | <0.005 |
| Zinc, Zn | mg/L | 0.01 | <0.01 |

## Mercury (dissolved) in Water [AN311(Perth)/AN312] Tested: 6/11/2019

| PARAMETER | UOM | LOR | RS3 WATER - 1/11/2019 SE199654.007 |
|---|---|---|---|
| Mercury | mg/L | 0.0001 | <0.0001 |

| METHOD | METHODOLOGY SUMMARY |
|---|---|
| AN002 | The test is carried out by drying (at either 40°C or 105°C) a known mass of sample in a weighed evaporating basin. After fully dry the sample is re-weighed. Samples such as sludge and sediment having high percentages of moisture will take some time in a drying oven for complete removal of water. |
| AN020 | Unpreserved water sample is filtered through a 0.45µm membrane filter and acidified with nitric acid similar to APHA3030B. |
| AN040/AN320 | A portion of sample is digested with nitric acid to decompose organic matter and hydrochloric acid to complete the digestion of metals. The digest is then analysed by ICP OES with metals results reported on the dried sample basis. Based on USEPA method 200.8 and 6010C. |
| AN040 | A portion of sample is digested with Nitric acid to decompose organic matter and Hydrochloric acid to complete the digestion of metals and then filtered for analysis by ASS or ICP as per USEPA Method 200.8. |
| AN101 | pH in Soil Sludge Sediment and Water: pH is measured electrometrically using a combination electrode and is calibrated against 3 buffers purchased commercially. For soils, sediments and sludges, an extract with water (or 0.01M CaCl2) is made at a ratio of 1:5 and the pH determined and reported on the extract. Reference APHA 4500-H+. |
| AN122 | Exchangeable Cations, CEC and ESP: Soil sample is extracted in 1M Ammonium Acetate at pH=7 (or 1M Ammonium Chloride at pH=7) with cations (Na, K, Ca & Mg) then determined by ICP OES/ICP MS and reported as Exchangeable Cations. For saline soils, these results can be corrected for water soluble cations and reported as Exchangeable cations in meq/100g or soil can be pre-treated (aqueous ethanol/aqueous glycerol) prior to extraction. Cation Exchange Capacity (CEC) is the sum of the exchangeable cations in meq/100g. |
| AN122 | The Exchangeable Sodium Percentage (ESP) is calculated as the exchangeable sodium divided by the CEC (all in meq/100g) times 100.<br>ESP can be used to categorise the sodicity of the soil as below:<br><br>ESP < 6% non-sodic<br>ESP 6-15% sodic<br>ESP >15% strongly sodic<br><br>Method is referenced to Rayment and Lyons, 2011, sections 15D3 and 15N1.- |
| AN289 | Analysis of Total Phenols in Soil Sediment and Water: Steam distillable phenols react with 4-aminoantipyrine at pH 7.9±0.1 in the presence of potassium ferricyanide to form a coloured antipyrine dye analysed by Discrete Analyser. Reference APHA 5530 B/D. |
| AN311(Perth)/AN312 | Mercury by Cold Vapour AAS in Waters: Mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500. |
| AN312 | Mercury by Cold Vapour AAS in Soils: After digestion with nitric acid, hydrogen peroxide and hydrochloric acid, mercury ions are reduced by stannous chloride reagent in acidic solution to elemental mercury. This mercury vapour is purged by nitrogen into a cold cell in an atomic absorption spectrometer or mercury analyser. Quantification is made by comparing absorbances to those of the calibration standards. Reference APHA 3112/3500 |
| AN320 | Metals by ICP-OES: Samples are preserved with 10% nitric acid for a wide range of metals and some non-metals. This solution is measured by Inductively Coupled Plasma. Solutions are aspirated into an argon plasma at 8000-10000K and emit characteristic energy or light as a result of electron transitions through unique energy levels. The emitted light is focused onto a diffraction grating where it is separated into components. |
| AN320 | Photomultipliers or CCDs are used to measure the light intensity at specific wavelengths. This intensity is directly proportional to concentration. Corrections are required to compensate for spectral overlap between elements. Reference APHA 3120 B. |
| AN403 | Total Recoverable Hydrocarbons: Determination of Hydrocarbons by gas chromatography after a solvent extraction. Detection is by flame ionisation detector (FID) that produces an electronic signal in proportion to the combustible matter passing through it. Total Recoverable Hydrocarbons (TRH) are routinely reported as four alkane groupings based on the carbon chain length of the compounds: C6-C9, C10-C14, C15-C28 and C29-C36 and in recognition of the NEPM 1999 (2013), >C10-C16 (F2), >C16-C34 (F3) and >C34-C40 (F4). F2 is reported directly and also corrected by subtracting Naphthalene (from VOC method AN433) where available. |
| AN403 | Additionally, the volatile C6-C9 fraction may be determined by a purge and trap technique and GC/MS because of the potential for volatiles loss. Total Recoverable Hydrocarbons - Silica (TRH-Si) follows the same method of analysis after silica gel cleanup of the solvent extract. Aliphatic/Aromatic Speciation follows the same method of analysis after fractionation of the solvent extract over silica with differential polarity of the eluent solvents. |
| AN403 | The GC/FID method is not well suited to the analysis of refined high boiling point materials (ie lubricating oils or greases) but is particularly suited for measuring diesel, kerosene and petrol if care to control volatility is taken. This method will detect naturally occurring hydrocarbons, lipids, animal fats, phenols and PAHs if they are present at sufficient levels, dependent on the use of specific cleanup/fractionation techniques. Reference USEPA 3510B, 8015B. |

| | |
|---|---|
| AN420 | (SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols (etc) in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D). |
| AN420 | SVOC Compounds: Semi-Volatile Organic Compounds (SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D). |
| AN433 | VOCs and C6-C9 Hydrocarbons by GC-MS P&T: VOC`s are volatile organic compounds. The sample is presented to a gas chromatograph via a purge and trap (P&T) concentrator and autosampler and is detected with a Mass Spectrometer (MSD). Solid samples are initially extracted with methanol whilst liquid samples are processed directly. References: USEPA 5030B, 8020A, 8260. |
| AN602 | Qualitative identification of chrysotile, amosite and crocidolite in bulk samples by polarised light microscopy (PLM) in conjunction with dispersion staining (DS). AS4964 provides the basis for this document. Unequivocal identification of the asbestos minerals present is made by obtaining sufficient diagnostic `clues`, which provide a reasonable degree of certainty, dispersion staining is a mandatory `clue` for positive identification. If sufficient `clues` are absent, then positive identification of asbestos is not possible. This procedure requires removal of suspect fibres/bundles from the sample which cannot be returned. |
| AN602 | Fibres/material that cannot be unequivocably identified as one of the three asbestos forms, will be reported as unknown mineral fibres (umf) The fibres detected may or may not be asbestos fibres. |
| AN602 | AS4964.2004 Method for the Qualitative Identification of Asbestos in Bulk Samples, Section 8.4, Trace Analysis Criteria, Note 4 states:"Depending upon sample condition and fibre type, the detection limit of this technique has been found to lie generally in the range of 1 in 1,000 to 1 in 10,000 parts by weight, equivalent to 1 to 0.1 g/kg." |
| AN602 | The sample can be reported “no asbestos found at the reporting limit of 0.1 g/kg” (<0.01%w/w) where AN602 section 4.5 of this method has been followed, and if-<br><br>(a) no trace asbestos fibres have been detected (i.e. no ‘respirable’ fibres):<br>(b) the estimated weight of non-respirable asbestos fibre bundles and/or the estimated weight of asbestos in asbestos-containing materials are found to be less than 0.1g/kg: and<br>(c) these non-respirable asbestos fibre bundles and/or the asbestos containing materials are only visible under stereo-microscope viewing conditions. |
| AN605 | This technique gravimetrically determines the mass of Asbestos Containing Material retained on a 7mm Sieve and assumes that 15% of this ACM is asbestos. This calculated asbestos weight is then calculated as a percentage of the total sample weight. |
| AN605 | This technique also gravimetrically determines the mass of Fibrous Asbestos (FA) and Asbestos Fines (AF) Containing Material retained on and passing a 2mm sieve post 7mm sieving. Assumes that FA and AF are 100% asbestos containing. This calculated asbestos weight is then calculated as a percentage of the total sample weight. This does not include free fibres which are only observed by standard trace analysis as per AN 602. |
| AN605 | Insofar as is technically feasible, this report is consistent with the analytical reporting recommendations in the Western Australian Department of Health Guidelines for the Assessment Remediation and Management of Asbestos - Contaminated Sites in Western Australia - May 2009. |

FOOTNOTES

| | | | | | |
|---|---|---|---|---|---|
| * | NATA accreditation does not cover the performance of this service. | - | Not analysed. | UOM | Unit of Measure. |
| | | NVL | Not validated. | LOR | Limit of Reporting. |
| ** | Indicative data, theoretical holding time exceeded. | IS | Insufficient sample for analysis. | ↑↓ | Raised/lowered Limit of Reporting. |
| | | LNR | Sample listed, but not received. | | |

Unless it is reported that sampling has been performed by SGS, the samples have been analysed as received.
Solid samples expressed on a dry weight basis.

Where "Total" analyte groups are reported (for example, Total PAHs, Total OC Pesticides) the total will be calculated as the sum of the individual analytes, with those analytes that are reported as <LOR being assumed to be zero. The summed (Total) limit of reporting is calculated by summing the individual analyte LORs and dividing by two. For example, where 16 individual analytes are being summed and each has an LOR of 0.1 mg/kg, the "Totals" LOR will be 1.6 / 2 (0.8 mg/kg). Where only 2 analytes are being summed, the "Total" LOR will be the sum of those two LORs.

Some totals may not appear to add up because the total is rounded after adding up the raw values.

If reported, measurement uncertainty follow the ± sign after the analytical result and is expressed as the expanded uncertainty calculated using a coverage factor of 2, providing a level of confidence of approximately 95%, unless stated otherwise in the comments section of this report.

Results reported for samples tested under test methods with codes starting with ARS-SOP, radionuclide or gross radioactivity concentrations are expressed in becquerel (Bq) per unit of mass or volume or per wipe as stated on the report. Becquerel is the SI unit for activity and equals one nuclear transformation per second.
Note that in terms of units of radioactivity:

a. 1 Bq is equivalent to 27 pCi
b. 37 MBq is equivalent to 1 mCi

For results reported for samples tested under test methods with codes starting with ARS-SOP, less than (<) values indicate the detection limit for each radionuclide or parameter for the measurement system used. The respective detection limits have been calculated in accordance with ISO 11929.

The QC and MU criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: www.sgs.com.au.pv.sgsvr/en-gb/environment.

This document is issued by the Company under its General Conditions of Service accessible at www.sgs.com/en/Terms-and-Conditions.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client only. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law .

This report must not be reproduced, except in full.

# STATEMENT OF QA/QC PERFORMANCE

**SE199654 R0**

## CLIENT DETAILS

| | |
|---|---|
| Contact | Anwar Barbhuyia |
| Client | Geotechnique |
| Address | P.O. Box 880<br>PENRITH NSW 2751 |
| Telephone | 02 4722 2700 |
| Facsimile | 02 4722 6161 |
| Email | anwar@geotech.com.au |
| Project | **14561/1 Penrith** |
| Order Number | (Not specified) |
| Samples | 9 |

## LABORATORY DETAILS

| | |
|---|---|
| Manager | Huong Crawford |
| Laboratory | SGS Alexandria Environmental |
| Address | Unit 16, 33 Maddox St<br>Alexandria NSW 2015 |
| Telephone | +61 2 8594 0400 |
| Facsimile | +61 2 8594 0499 |
| Email | au.environmental.sydney@sgs.com |
| SGS Reference | **SE199654 R0** |
| Date Received | 04 Nov 2019 |
| Date Reported | 07 Nov 2019 |

## COMMENTS

All the laboratory data for each environmental matrix was compared to SGS' stated Data Quality Objectives (DQO). Comments arising from the comparison were made and are reported below.

The data relating to sampling was taken from the Chain of Custody document.
This QA/QC Statement must be read in conjunction with the referenced Analytical Report.
The Statement and the Analytical Report must not be reproduced except in full.

All Data Quality Objectives were met (within the SGS Alexandria Environmental laboratory).

## SAMPLE SUMMARY

# HOLDING TIME SUMMARY

SE199654 R0

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

## Exchangeable Cations and Cation Exchange Capacity (CEC/ESP/SAR)

Method: ME-(AU)-[ENV]AN122

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH4 | SE199654.001 | LB187146 | 31 Oct 2019 | 04 Nov 2019 | 28 Nov 2019 | 07 Nov 2019 | 28 Nov 2019 | 07 Nov 2019 |
| BH5 | SE199654.002 | LB187146 | 01 Nov 2019 | 04 Nov 2019 | 29 Nov 2019 | 07 Nov 2019 | 29 Nov 2019 | 07 Nov 2019 |
| BH5 | SE199654.003 | LB187146 | 01 Nov 2019 | 04 Nov 2019 | 29 Nov 2019 | 07 Nov 2019 | 29 Nov 2019 | 07 Nov 2019 |
| BH5 | SE199654.004 | LB187146 | 01 Nov 2019 | 04 Nov 2019 | 29 Nov 2019 | 07 Nov 2019 | 29 Nov 2019 | 07 Nov 2019 |
| BH5 | SE199654.005 | LB187146 | 01 Nov 2019 | 04 Nov 2019 | 29 Nov 2019 | 07 Nov 2019 | 29 Nov 2019 | 07 Nov 2019 |
| BH5 | SE199654.006 | LB187146 | 01 Nov 2019 | 04 Nov 2019 | 29 Nov 2019 | 07 Nov 2019 | 29 Nov 2019 | 07 Nov 2019 |
| BH3 | SE199654.009 | LB187146 | 31 Oct 2019 | 04 Nov 2019 | 28 Nov 2019 | 07 Nov 2019 | 28 Nov 2019 | 07 Nov 2019 |

## Fibre Identification in soil

Method: ME-(AU)-[ENV]AN602

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH5 | SE199654.002 | LB187086 | 01 Nov 2019 | 04 Nov 2019 | 31 Oct 2020 | 06 Nov 2019 | 31 Oct 2020 | 07 Nov 2019 |
| BH5 | SE199654.004 | LB187086 | 01 Nov 2019 | 04 Nov 2019 | 31 Oct 2020 | 06 Nov 2019 | 31 Oct 2020 | 07 Nov 2019 |

## Gravimetric Determination of Asbestos in Soil

Method: ME-(AU)-[ENV]AN605

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH5 | SE199654.002 | LB187086 | 01 Nov 2019 | 04 Nov 2019 | 29 Apr 2020 | 06 Nov 2019 | 29 Apr 2020 | 07 Nov 2019 |
| BH5 | SE199654.004 | LB187086 | 01 Nov 2019 | 04 Nov 2019 | 29 Apr 2020 | 06 Nov 2019 | 29 Apr 2020 | 07 Nov 2019 |

## Mercury (dissolved) in Water

Method: ME-(AU)-[ENV]AN311(Perth)/AN312

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| RS3 | SE199654.007 | LB187052 | 01 Nov 2019 | 04 Nov 2019 | 29 Nov 2019 | 06 Nov 2019 | 29 Nov 2019 | 06 Nov 2019 |

## Mercury in Soil

Method: ME-(AU)-[ENV]AN312

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH4 | SE199654.001 | LB187028 | 31 Oct 2019 | 04 Nov 2019 | 28 Nov 2019 | 05 Nov 2019 | 28 Nov 2019 | 06 Nov 2019 |
| BH5 | SE199654.002 | LB187028 | 01 Nov 2019 | 04 Nov 2019 | 29 Nov 2019 | 05 Nov 2019 | 29 Nov 2019 | 06 Nov 2019 |
| BH5 | SE199654.003 | LB187028 | 01 Nov 2019 | 04 Nov 2019 | 29 Nov 2019 | 05 Nov 2019 | 29 Nov 2019 | 06 Nov 2019 |
| BH5 | SE199654.004 | LB187028 | 01 Nov 2019 | 04 Nov 2019 | 29 Nov 2019 | 05 Nov 2019 | 29 Nov 2019 | 06 Nov 2019 |
| BH5 | SE199654.005 | LB187028 | 01 Nov 2019 | 04 Nov 2019 | 29 Nov 2019 | 05 Nov 2019 | 29 Nov 2019 | 06 Nov 2019 |
| BH5 | SE199654.006 | LB187028 | 01 Nov 2019 | 04 Nov 2019 | 29 Nov 2019 | 05 Nov 2019 | 29 Nov 2019 | 06 Nov 2019 |
| BH3 | SE199654.009 | LB187122 | 31 Oct 2019 | 04 Nov 2019 | 28 Nov 2019 | 06 Nov 2019 | 28 Nov 2019 | 07 Nov 2019 |

## Metals in Water (Dissolved) by ICPOES

Method: ME-(AU)-[ENV]AN320

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| RS3 | SE199654.007 | LB187031 | 01 Nov 2019 | 04 Nov 2019 | 29 Apr 2020 | 06 Nov 2019 | 29 Apr 2020 | 06 Nov 2019 |

## Moisture Content

Method: ME-(AU)-[ENV]AN002

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH4 | SE199654.001 | LB187026 | 31 Oct 2019 | 04 Nov 2019 | 14 Nov 2019 | 05 Nov 2019 | 10 Nov 2019 | 07 Nov 2019 |
| BH5 | SE199654.002 | LB187026 | 01 Nov 2019 | 04 Nov 2019 | 15 Nov 2019 | 05 Nov 2019 | 10 Nov 2019 | 07 Nov 2019 |
| BH5 | SE199654.003 | LB187026 | 01 Nov 2019 | 04 Nov 2019 | 15 Nov 2019 | 05 Nov 2019 | 10 Nov 2019 | 07 Nov 2019 |
| BH5 | SE199654.004 | LB187026 | 01 Nov 2019 | 04 Nov 2019 | 15 Nov 2019 | 05 Nov 2019 | 10 Nov 2019 | 07 Nov 2019 |
| BH5 | SE199654.005 | LB187026 | 01 Nov 2019 | 04 Nov 2019 | 15 Nov 2019 | 05 Nov 2019 | 10 Nov 2019 | 07 Nov 2019 |
| BH5 | SE199654.006 | LB187026 | 01 Nov 2019 | 04 Nov 2019 | 15 Nov 2019 | 05 Nov 2019 | 10 Nov 2019 | 07 Nov 2019 |
| BH3 | SE199654.009 | LB187124 | 31 Oct 2019 | 04 Nov 2019 | 14 Nov 2019 | 06 Nov 2019 | 11 Nov 2019 | 07 Nov 2019 |

## OC Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH4 | SE199654.001 | LB187025 | 31 Oct 2019 | 04 Nov 2019 | 14 Nov 2019 | 05 Nov 2019 | 15 Dec 2019 | 07 Nov 2019 |
| BH5 | SE199654.002 | LB187025 | 01 Nov 2019 | 04 Nov 2019 | 15 Nov 2019 | 05 Nov 2019 | 15 Dec 2019 | 07 Nov 2019 |
| BH5 | SE199654.004 | LB187025 | 01 Nov 2019 | 04 Nov 2019 | 15 Nov 2019 | 05 Nov 2019 | 15 Dec 2019 | 07 Nov 2019 |
| BH5 | SE199654.006 | LB187025 | 01 Nov 2019 | 04 Nov 2019 | 15 Nov 2019 | 05 Nov 2019 | 15 Dec 2019 | 07 Nov 2019 |
| BH3 | SE199654.009 | LB187126 | 31 Oct 2019 | 04 Nov 2019 | 14 Nov 2019 | 06 Nov 2019 | 16 Dec 2019 | 07 Nov 2019 |

## PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN420

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH4 | SE199654.001 | LB187025 | 31 Oct 2019 | 04 Nov 2019 | 14 Nov 2019 | 05 Nov 2019 | 15 Dec 2019 | 07 Nov 2019 |
| BH5 | SE199654.002 | LB187025 | 01 Nov 2019 | 04 Nov 2019 | 15 Nov 2019 | 05 Nov 2019 | 15 Dec 2019 | 07 Nov 2019 |
| BH5 | SE199654.004 | LB187025 | 01 Nov 2019 | 04 Nov 2019 | 15 Nov 2019 | 05 Nov 2019 | 15 Dec 2019 | 07 Nov 2019 |
| BH5 | SE199654.006 | LB187025 | 01 Nov 2019 | 04 Nov 2019 | 15 Nov 2019 | 05 Nov 2019 | 15 Dec 2019 | 07 Nov 2019 |
| BH3 | SE199654.009 | LB187126 | 31 Oct 2019 | 04 Nov 2019 | 14 Nov 2019 | 06 Nov 2019 | 16 Dec 2019 | 07 Nov 2019 |

# HOLDING TIME SUMMARY

SE199654 R0

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

## PCBs in Soil

Method: ME-(AU)-[ENV]AN420

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH4 | SE199654.001 | LB187025 | 31 Oct 2019 | 04 Nov 2019 | 14 Nov 2019 | 05 Nov 2019 | 15 Dec 2019 | 07 Nov 2019 |
| BH5 | SE199654.002 | LB187025 | 01 Nov 2019 | 04 Nov 2019 | 15 Nov 2019 | 05 Nov 2019 | 15 Dec 2019 | 07 Nov 2019 |
| BH5 | SE199654.004 | LB187025 | 01 Nov 2019 | 04 Nov 2019 | 15 Nov 2019 | 05 Nov 2019 | 15 Dec 2019 | 07 Nov 2019 |
| BH5 | SE199654.006 | LB187025 | 01 Nov 2019 | 04 Nov 2019 | 15 Nov 2019 | 05 Nov 2019 | 15 Dec 2019 | 07 Nov 2019 |
| BH3 | SE199654.009 | LB187126 | 31 Oct 2019 | 04 Nov 2019 | 14 Nov 2019 | 06 Nov 2019 | 16 Dec 2019 | 07 Nov 2019 |

## pH in soil (1:5)

Method: ME-(AU)-[ENV]AN101

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH4 | SE199654.001 | LB187074 | 31 Oct 2019 | 04 Nov 2019 | 07 Nov 2019 | 06 Nov 2019 | 07 Nov 2019 | 06 Nov 2019 |
| BH5 | SE199654.002 | LB187074 | 01 Nov 2019 | 04 Nov 2019 | 08 Nov 2019 | 06 Nov 2019 | 07 Nov 2019 | 06 Nov 2019 |
| BH5 | SE199654.003 | LB187074 | 01 Nov 2019 | 04 Nov 2019 | 08 Nov 2019 | 06 Nov 2019 | 07 Nov 2019 | 06 Nov 2019 |
| BH5 | SE199654.004 | LB187074 | 01 Nov 2019 | 04 Nov 2019 | 08 Nov 2019 | 06 Nov 2019 | 07 Nov 2019 | 06 Nov 2019 |
| BH5 | SE199654.005 | LB187074 | 01 Nov 2019 | 04 Nov 2019 | 08 Nov 2019 | 06 Nov 2019 | 07 Nov 2019 | 06 Nov 2019 |
| BH5 | SE199654.006 | LB187074 | 01 Nov 2019 | 04 Nov 2019 | 08 Nov 2019 | 06 Nov 2019 | 07 Nov 2019 | 06 Nov 2019 |
| BH3 | SE199654.009 | LB187173 | 31 Oct 2019 | 04 Nov 2019 | 07 Nov 2019 | 07 Nov 2019 | 08 Nov 2019 | 07 Nov 2019 |

## Total Phenolics in Soil

Method: ME-(AU)-[ENV]AN289

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH4 | SE199654.001 | LB187157 | 31 Oct 2019 | 04 Nov 2019 | 14 Nov 2019 | 07 Nov 2019 | 14 Nov 2019 | 07 Nov 2019 |
| BH5 | SE199654.002 | LB187157 | 01 Nov 2019 | 04 Nov 2019 | 15 Nov 2019 | 07 Nov 2019 | 15 Nov 2019 | 07 Nov 2019 |
| BH5 | SE199654.004 | LB187157 | 01 Nov 2019 | 04 Nov 2019 | 15 Nov 2019 | 07 Nov 2019 | 15 Nov 2019 | 07 Nov 2019 |

## Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

Method: ME-(AU)-[ENV]AN040/AN320

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH4 | SE199654.001 | LB187027 | 31 Oct 2019 | 04 Nov 2019 | 28 Apr 2020 | 05 Nov 2019 | 28 Apr 2020 | 07 Nov 2019 |
| BH5 | SE199654.002 | LB187027 | 01 Nov 2019 | 04 Nov 2019 | 29 Apr 2020 | 05 Nov 2019 | 29 Apr 2020 | 07 Nov 2019 |
| BH5 | SE199654.003 | LB187027 | 01 Nov 2019 | 04 Nov 2019 | 29 Apr 2020 | 05 Nov 2019 | 29 Apr 2020 | 07 Nov 2019 |
| BH5 | SE199654.004 | LB187027 | 01 Nov 2019 | 04 Nov 2019 | 29 Apr 2020 | 05 Nov 2019 | 29 Apr 2020 | 07 Nov 2019 |
| BH5 | SE199654.005 | LB187027 | 01 Nov 2019 | 04 Nov 2019 | 29 Apr 2020 | 05 Nov 2019 | 29 Apr 2020 | 07 Nov 2019 |
| BH5 | SE199654.006 | LB187027 | 01 Nov 2019 | 04 Nov 2019 | 29 Apr 2020 | 05 Nov 2019 | 29 Apr 2020 | 07 Nov 2019 |
| BH3 | SE199654.009 | LB187121 | 31 Oct 2019 | 04 Nov 2019 | 28 Apr 2020 | 06 Nov 2019 | 28 Apr 2020 | 07 Nov 2019 |

## TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH4 | SE199654.001 | LB187025 | 31 Oct 2019 | 04 Nov 2019 | 14 Nov 2019 | 05 Nov 2019 | 15 Dec 2019 | 07 Nov 2019 |
| BH5 | SE199654.002 | LB187025 | 01 Nov 2019 | 04 Nov 2019 | 15 Nov 2019 | 05 Nov 2019 | 15 Dec 2019 | 07 Nov 2019 |
| BH5 | SE199654.004 | LB187025 | 01 Nov 2019 | 04 Nov 2019 | 15 Nov 2019 | 05 Nov 2019 | 15 Dec 2019 | 07 Nov 2019 |
| BH5 | SE199654.006 | LB187025 | 01 Nov 2019 | 04 Nov 2019 | 15 Nov 2019 | 05 Nov 2019 | 15 Dec 2019 | 07 Nov 2019 |
| BH3 | SE199654.009 | LB187126 | 31 Oct 2019 | 04 Nov 2019 | 14 Nov 2019 | 06 Nov 2019 | 16 Dec 2019 | 07 Nov 2019 |

## VOC's in Soil

Method: ME-(AU)-[ENV]AN433

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH4 | SE199654.001 | LB187130 | 31 Oct 2019 | 04 Nov 2019 | 14 Nov 2019 | 06 Nov 2019 | 16 Dec 2019 | 07 Nov 2019 |
| BH5 | SE199654.002 | LB187130 | 01 Nov 2019 | 04 Nov 2019 | 15 Nov 2019 | 06 Nov 2019 | 16 Dec 2019 | 07 Nov 2019 |
| BH5 | SE199654.004 | LB187130 | 01 Nov 2019 | 04 Nov 2019 | 15 Nov 2019 | 06 Nov 2019 | 16 Dec 2019 | 07 Nov 2019 |
| BH5 | SE199654.006 | LB187130 | 01 Nov 2019 | 04 Nov 2019 | 15 Nov 2019 | 06 Nov 2019 | 16 Dec 2019 | 07 Nov 2019 |
| TS3 | SE199654.008 | LB187130 | 01 Nov 2019 | 04 Nov 2019 | 15 Nov 2019 | 06 Nov 2019 | 16 Dec 2019 | 07 Nov 2019 |
| BH3 | SE199654.009 | LB187130 | 31 Oct 2019 | 04 Nov 2019 | 14 Nov 2019 | 06 Nov 2019 | 16 Dec 2019 | 07 Nov 2019 |

## Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-[ENV]AN433

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH4 | SE199654.001 | LB187130 | 31 Oct 2019 | 04 Nov 2019 | 14 Nov 2019 | 06 Nov 2019 | 16 Dec 2019 | 07 Nov 2019 |
| BH5 | SE199654.002 | LB187130 | 01 Nov 2019 | 04 Nov 2019 | 15 Nov 2019 | 06 Nov 2019 | 16 Dec 2019 | 07 Nov 2019 |
| BH5 | SE199654.004 | LB187130 | 01 Nov 2019 | 04 Nov 2019 | 15 Nov 2019 | 06 Nov 2019 | 16 Dec 2019 | 07 Nov 2019 |
| BH5 | SE199654.006 | LB187130 | 01 Nov 2019 | 04 Nov 2019 | 15 Nov 2019 | 06 Nov 2019 | 16 Dec 2019 | 07 Nov 2019 |
| TS3 | SE199654.008 | LB187130 | 01 Nov 2019 | 04 Nov 2019 | 15 Nov 2019 | 06 Nov 2019 | 16 Dec 2019 | 07 Nov 2019 |
| BH3 | SE199654.009 | LB187130 | 31 Oct 2019 | 04 Nov 2019 | 14 Nov 2019 | 06 Nov 2019 | 16 Dec 2019 | 07 Nov 2019 |

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

## OC Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| Tetrachloro-m-xylene (TCMX) (Surrogate) | BH4 | SE199654.001 | % | 60 - 130% | 79 |
| | BH5 | SE199654.002 | % | 60 - 130% | 83 |
| | BH5 | SE199654.004 | % | 60 - 130% | 81 |

## PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN420

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| 2-fluorobiphenyl (Surrogate) | BH4 | SE199654.001 | % | 70 - 130% | 90 |
| | BH5 | SE199654.002 | % | 70 - 130% | 90 |
| | BH5 | SE199654.004 | % | 70 - 130% | 92 |
| | BH5 | SE199654.006 | % | 70 - 130% | 94 |
| | BH3 | SE199654.009 | % | 70 - 130% | 98 |
| d14-p-terphenyl (Surrogate) | BH4 | SE199654.001 | % | 70 - 130% | 92 |
| | BH5 | SE199654.002 | % | 70 - 130% | 90 |
| | BH5 | SE199654.004 | % | 70 - 130% | 100 |
| | BH5 | SE199654.006 | % | 70 - 130% | 96 |
| | BH3 | SE199654.009 | % | 70 - 130% | 94 |
| d5-nitrobenzene (Surrogate) | BH4 | SE199654.001 | % | 70 - 130% | 76 |
| | BH5 | SE199654.002 | % | 70 - 130% | 76 |
| | BH5 | SE199654.004 | % | 70 - 130% | 78 |
| | BH5 | SE199654.006 | % | 70 - 130% | 82 |
| | BH3 | SE199654.009 | % | 70 - 130% | 92 |

## PCBs in Soil

Method: ME-(AU)-[ENV]AN420

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| Tetrachloro-m-xylene (TCMX) (Surrogate) | BH4 | SE199654.001 | % | 60 - 130% | 79 |
| | BH5 | SE199654.002 | % | 60 - 130% | 83 |
| | BH5 | SE199654.004 | % | 60 - 130% | 81 |

## VOC's in Soil

Method: ME-(AU)-[ENV]AN433

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| Bromofluorobenzene (Surrogate) | BH4 | SE199654.001 | % | 60 - 130% | 82 |
| | BH5 | SE199654.002 | % | 60 - 130% | 69 |
| | BH5 | SE199654.004 | % | 60 - 130% | 80 |
| | BH5 | SE199654.006 | % | 60 - 130% | 74 |
| | TS3 | SE199654.008 | % | 60 - 130% | 73 |
| | BH3 | SE199654.009 | % | 60 - 130% | 73 |
| d4-1,2-dichloroethane (Surrogate) | BH4 | SE199654.001 | % | 60 - 130% | 84 |
| | BH5 | SE199654.002 | % | 60 - 130% | 74 |
| | BH5 | SE199654.004 | % | 60 - 130% | 83 |
| | BH5 | SE199654.006 | % | 60 - 130% | 80 |
| | TS3 | SE199654.008 | % | 60 - 130% | 79 |
| | BH3 | SE199654.009 | % | 60 - 130% | 79 |
| d8-toluene (Surrogate) | BH4 | SE199654.001 | % | 60 - 130% | 89 |
| | BH5 | SE199654.002 | % | 60 - 130% | 78 |
| | BH5 | SE199654.004 | % | 60 - 130% | 88 |
| | BH5 | SE199654.006 | % | 60 - 130% | 85 |
| | TS3 | SE199654.008 | % | 60 - 130% | 84 |
| | BH3 | SE199654.009 | % | 60 - 130% | 84 |

## Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-[ENV]AN433

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| Bromofluorobenzene (Surrogate) | BH4 | SE199654.001 | % | 60 - 130% | 82 |
| | BH5 | SE199654.002 | % | 60 - 130% | 69 |
| | BH5 | SE199654.004 | % | 60 - 130% | 80 |
| | BH5 | SE199654.006 | % | 60 - 130% | 74 |
| | BH3 | SE199654.009 | % | 60 - 130% | 73 |
| d4-1,2-dichloroethane (Surrogate) | BH4 | SE199654.001 | % | 60 - 130% | 84 |
| | BH5 | SE199654.002 | % | 60 - 130% | 74 |
| | BH5 | SE199654.004 | % | 60 - 130% | 83 |
| | BH5 | SE199654.006 | % | 60 - 130% | 80 |
| | BH3 | SE199654.009 | % | 60 - 130% | 79 |
| d8-toluene (Surrogate) | BH4 | SE199654.001 | % | 60 - 130% | 89 |
| | BH5 | SE199654.002 | % | 60 - 130% | 78 |

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

**Volatile Petroleum Hydrocarbons in Soil (continued)** — **Method: ME-(AU)-[ENV]AN433**

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| d8-toluene (Surrogate) | BH5 | SE199654.004 | % | 60 - 130% | 88 |
| | BH5 | SE199654.006 | % | 60 - 130% | 85 |
| | BH3 | SE199654.009 | % | 60 - 130% | 84 |

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

### Exchangeable Cations and Cation Exchange Capacity (CEC/ESP/SAR)

Method: ME-(AU)-[ENV]AN122

| Sample Number | Parameter | Units | LOR | Result |
|---|---|---|---|---|
| LB187146.001 | Exchangeable Sodium, Na | mg/kg | 2 | 0 |
| | Exchangeable Potassium, K | mg/kg | 2 | 0 |
| | Exchangeable Calcium, Ca | mg/kg | 2 | 0 |
| | Exchangeable Magnesium, Mg | mg/kg | 2 | 0 |

### Mercury (dissolved) in Water

Method: ME-(AU)-[ENV]AN311(Perth)/AN312

| Sample Number | Parameter | Units | LOR | Result |
|---|---|---|---|---|
| LB187052.001 | Mercury | mg/L | 0.0001 | <0.0001 |

### Mercury in Soil

Method: ME-(AU)-[ENV]AN312

| Sample Number | Parameter | Units | LOR | Result |
|---|---|---|---|---|
| LB187028.001 | Mercury | mg/kg | 0.05 | <0.05 |
| LB187122.001 | Mercury | mg/kg | 0.05 | <0.05 |

### Metals in Water (Dissolved) by ICPOES

Method: ME-(AU)-[ENV]AN320

| Sample Number | Parameter | Units | LOR | Result |
|---|---|---|---|---|
| LB187031.001 | Arsenic, As | mg/L | 0.02 | <0.02 |
| | Cadmium, Cd | mg/L | 0.001 | <0.001 |
| | Chromium, Cr | mg/L | 0.005 | <0.005 |
| | Copper, Cu | mg/L | 0.005 | <0.005 |
| | Lead, Pb | mg/L | 0.02 | <0.02 |
| | Nickel, Ni | mg/L | 0.005 | <0.005 |
| | Zinc, Zn | mg/L | 0.01 | <0.01 |

### OC Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB187025.001 | | Hexachlorobenzene (HCB) | mg/kg | 0.1 | <0.1 |
| | | Alpha BHC | mg/kg | 0.1 | <0.1 |
| | | Lindane | mg/kg | 0.1 | <0.1 |
| | | Heptachlor | mg/kg | 0.1 | <0.1 |
| | | Aldrin | mg/kg | 0.1 | <0.1 |
| | | Beta BHC | mg/kg | 0.1 | <0.1 |
| | | Delta BHC | mg/kg | 0.1 | <0.1 |
| | | Heptachlor epoxide | mg/kg | 0.1 | <0.1 |
| | | Alpha Endosulfan | mg/kg | 0.2 | <0.2 |
| | | Gamma Chlordane | mg/kg | 0.1 | <0.1 |
| | | Alpha Chlordane | mg/kg | 0.1 | <0.1 |
| | | p,p'-DDE | mg/kg | 0.1 | <0.1 |
| | | Dieldrin | mg/kg | 0.05 | <0.05 |
| | | Endrin | mg/kg | 0.2 | <0.2 |
| | | Beta Endosulfan | mg/kg | 0.2 | <0.2 |
| | | p,p'-DDD | mg/kg | 0.1 | <0.1 |
| | | p,p'-DDT | mg/kg | 0.1 | <0.1 |
| | | Endosulfan sulphate | mg/kg | 0.1 | <0.1 |
| | | Endrin Aldehyde | mg/kg | 0.1 | <0.1 |
| | | Methoxychlor | mg/kg | 0.1 | <0.1 |
| | | Endrin Ketone | mg/kg | 0.1 | <0.1 |
| | | Isodrin | mg/kg | 0.1 | <0.1 |
| | | Mirex | mg/kg | 0.1 | <0.1 |
| | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | % | - | 72 |

### PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN420

| Sample Number | Parameter | Units | LOR | Result |
|---|---|---|---|---|
| LB187025.001 | Naphthalene | mg/kg | 0.1 | <0.1 |
| | 2-methylnaphthalene | mg/kg | 0.1 | <0.1 |
| | 1-methylnaphthalene | mg/kg | 0.1 | <0.1 |
| | Acenaphthylene | mg/kg | 0.1 | <0.1 |
| | Acenaphthene | mg/kg | 0.1 | <0.1 |
| | Fluorene | mg/kg | 0.1 | <0.1 |
| | Phenanthrene | mg/kg | 0.1 | <0.1 |

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

## PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)

Method: ME-(AU)-[ENV]AN420

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB187025.001 | | Anthracene | mg/kg | 0.1 | <0.1 |
| | | Fluoranthene | mg/kg | 0.1 | <0.1 |
| | | Pyrene | mg/kg | 0.1 | <0.1 |
| | | Benzo(a)anthracene | mg/kg | 0.1 | <0.1 |
| | | Chrysene | mg/kg | 0.1 | <0.1 |
| | | Benzo(a)pyrene | mg/kg | 0.1 | <0.1 |
| | | Indeno(1,2,3-cd)pyrene | mg/kg | 0.1 | <0.1 |
| | | Dibenzo(ah)anthracene | mg/kg | 0.1 | <0.1 |
| | | Benzo(ghi)perylene | mg/kg | 0.1 | <0.1 |
| | | Total PAH (18) | mg/kg | 0.8 | <0.8 |
| | Surrogates | d5-nitrobenzene (Surrogate) | % | - | 94 |
| | | 2-fluorobiphenyl (Surrogate) | % | - | 100 |
| | | d14-p-terphenyl (Surrogate) | % | - | 100 |
| LB187126.001 | | Naphthalene | mg/kg | 0.1 | <0.1 |
| | | 2-methylnaphthalene | mg/kg | 0.1 | <0.1 |
| | | 1-methylnaphthalene | mg/kg | 0.1 | <0.1 |
| | | Acenaphthylene | mg/kg | 0.1 | <0.1 |
| | | Acenaphthene | mg/kg | 0.1 | <0.1 |
| | | Fluorene | mg/kg | 0.1 | <0.1 |
| | | Phenanthrene | mg/kg | 0.1 | <0.1 |
| | | Anthracene | mg/kg | 0.1 | <0.1 |
| | | Fluoranthene | mg/kg | 0.1 | <0.1 |
| | | Pyrene | mg/kg | 0.1 | <0.1 |
| | | Benzo(a)anthracene | mg/kg | 0.1 | <0.1 |
| | | Chrysene | mg/kg | 0.1 | <0.1 |
| | | Benzo(a)pyrene | mg/kg | 0.1 | <0.1 |
| | | Indeno(1,2,3-cd)pyrene | mg/kg | 0.1 | <0.1 |
| | | Dibenzo(ah)anthracene | mg/kg | 0.1 | <0.1 |
| | | Benzo(ghi)perylene | mg/kg | 0.1 | <0.1 |
| | | Total PAH (18) | mg/kg | 0.8 | <0.8 |
| | Surrogates | d5-nitrobenzene (Surrogate) | % | - | 90 |
| | | 2-fluorobiphenyl (Surrogate) | % | - | 92 |
| | | d14-p-terphenyl (Surrogate) | % | - | 96 |

## PCBs in Soil

Method: ME-(AU)-[ENV]AN420

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB187025.001 | | Arochlor 1016 | mg/kg | 0.2 | <0.2 |
| | | Arochlor 1221 | mg/kg | 0.2 | <0.2 |
| | | Arochlor 1232 | mg/kg | 0.2 | <0.2 |
| | | Arochlor 1242 | mg/kg | 0.2 | <0.2 |
| | | Arochlor 1248 | mg/kg | 0.2 | <0.2 |
| | | Arochlor 1254 | mg/kg | 0.2 | <0.2 |
| | | Arochlor 1260 | mg/kg | 0.2 | <0.2 |
| | | Arochlor 1262 | mg/kg | 0.2 | <0.2 |
| | | Arochlor 1268 | mg/kg | 0.2 | <0.2 |
| | | Total PCBs (Arochlors) | mg/kg | 1 | <1 |
| | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | % | - | 72 |

## Total Phenolics in Soil

Method: ME-(AU)-[ENV]AN289

| Sample Number | Parameter | Units | LOR | Result |
|---|---|---|---|---|
| LB187157.001 | Total Phenols | mg/kg | 5 | <5 |

## Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

Method: ME-(AU)-[ENV]AN040/AN320

| Sample Number | Parameter | Units | LOR | Result |
|---|---|---|---|---|
| LB187027.001 | Arsenic, As | mg/kg | 1 | <1 |
| | Cadmium, Cd | mg/kg | 0.3 | <0.3 |
| | Chromium, Cr | mg/kg | 0.5 | <0.5 |
| | Copper, Cu | mg/kg | 0.5 | <0.5 |
| | Nickel, Ni | mg/kg | 0.5 | <0.5 |
| | Lead, Pb | mg/kg | 1 | <1 |

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

### Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES (continued)

Method: ME-(AU)-[ENV]AN040/AN320

| Sample Number | Parameter | Units | LOR | Result |
|---|---|---|---|---|
| LB187027.001 | Zinc, Zn | mg/kg | 2 | <2 |
| LB187121.001 | Arsenic, As | mg/kg | 1 | <1 |
| | Cadmium, Cd | mg/kg | 0.3 | <0.3 |
| | Chromium, Cr | mg/kg | 0.5 | <0.5 |
| | Copper, Cu | mg/kg | 0.5 | <0.5 |
| | Nickel, Ni | mg/kg | 0.5 | <0.5 |
| | Lead, Pb | mg/kg | 1 | <1 |
| | Zinc, Zn | mg/kg | 2 | <2 |

### TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

| Sample Number | Parameter | Units | LOR | Result |
|---|---|---|---|---|
| LB187025.001 | TRH C10-C14 | mg/kg | 20 | <20 |
| | TRH C15-C28 | mg/kg | 45 | <45 |
| | TRH C29-C36 | mg/kg | 45 | <45 |
| | TRH C37-C40 | mg/kg | 100 | <100 |
| | TRH C10-C36 Total | mg/kg | 110 | <110 |
| LB187126.001 | TRH C10-C14 | mg/kg | 20 | <20 |
| | TRH C15-C28 | mg/kg | 45 | <45 |
| | TRH C29-C36 | mg/kg | 45 | <45 |
| | TRH C37-C40 | mg/kg | 100 | <100 |
| | TRH C10-C36 Total | mg/kg | 110 | <110 |

### VOC's in Soil

Method: ME-(AU)-[ENV]AN433

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB187130.001 | Monocyclic Aromatic Hydrocarbons | Benzene | mg/kg | 0.1 | <0.1 |
| | | Toluene | mg/kg | 0.1 | <0.1 |
| | | Ethylbenzene | mg/kg | 0.1 | <0.1 |
| | | m/p-xylene | mg/kg | 0.2 | <0.2 |
| | | o-xylene | mg/kg | 0.1 | <0.1 |
| | Polycyclic VOCs | Naphthalene | mg/kg | 0.1 | <0.1 |
| | Surrogates | d4-1,2-dichloroethane (Surrogate) | % | - | 78 |
| | | d8-toluene (Surrogate) | % | - | 83 |
| | | Bromofluorobenzene (Surrogate) | % | - | 76 |
| | Totals | Total BTEX | mg/kg | 0.6 | <0.6 |

### Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-[ENV]AN433

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB187130.001 | | TRH C6-C9 | mg/kg | 20 | <20 |
| | Surrogates | d4-1,2-dichloroethane (Surrogate) | % | - | 78 |

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

### Mercury (dissolved) in Water

Method: ME-(AU)-[ENV]AN311(Perth)/AN312

| Original | Duplicate | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|
| SE199654.007 | LB187052.006 | Mercury | µg/L | 0.0001 | <0.0001 | <0.0001 | 200 | 0 |

### Mercury in Soil

Method: ME-(AU)-[ENV]AN312

| Original | Duplicate | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|
| SE199652.011 | LB187028.014 | Mercury | mg/kg | 0.05 | <0.05 | <0.05 | 144 | 0 |
| SE199654.006 | LB187028.022 | Mercury | mg/kg | 0.05 | <0.05 | 0.05 | 137 | 7 |
| SE199654.009 | LB187122.012 | Mercury | mg/kg | 0.05 | <0.05 | <0.05 | 200 | 0 |

### Metals in Water (Dissolved) by ICPOES

Method: ME-(AU)-[ENV]AN320

| Original | Duplicate | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|
| SE199654.007 | LB187031.006 | Arsenic, As | mg/L | 0.02 | <0.02 | <0.02 | 200 | 0 |
| | | Cadmium, Cd | mg/L | 0.001 | <0.001 | <0.001 | 200 | 0 |
| | | Chromium, Cr | mg/L | 0.005 | <0.005 | <0.005 | 200 | 0 |
| | | Copper, Cu | mg/L | 0.005 | <0.005 | <0.005 | 200 | 0 |
| | | Lead, Pb | mg/L | 0.02 | <0.02 | <0.02 | 200 | 0 |
| | | Nickel, Ni | mg/L | 0.005 | <0.005 | <0.005 | 200 | 0 |
| | | Zinc, Zn | mg/L | 0.01 | <0.01 | <0.01 | 200 | 0 |

### Moisture Content

Method: ME-(AU)-[ENV]AN002

| Original | Duplicate | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|
| SE199641.004 | LB187026.011 | % Moisture | %w/w | 1 | 7.09366391187.5722092115 | | 44 | 7 |
| SE199644.004 | LB187026.020 | % Moisture | %w/w | 1 | 4.64919695684.3340380549 | | 52 | 7 |
| SE199717.004 | LB187124.007 | % Moisture | %w/w | 1 | 6.3 | 7.3 | 45 | 14 |

### OC Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE199641.005 | LB187025.022 | | Hexachlorobenzene (HCB) | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | | Alpha BHC | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | | Lindane | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | | Heptachlor | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | | Aldrin | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | | Beta BHC | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | | Delta BHC | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | | Heptachlor epoxide | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | | o,p'-DDE | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | | Alpha Endosulfan | mg/kg | 0.2 | 0 | 0 | 200 | 0 |
| | | | Gamma Chlordane | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | | Alpha Chlordane | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | | trans-Nonachlor | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | | p,p'-DDE | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | | Dieldrin | mg/kg | 0.05 | 0 | 0 | 200 | 0 |
| | | | Endrin | mg/kg | 0.2 | 0 | 0 | 200 | 0 |
| | | | o,p'-DDD | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | | o,p'-DDT | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | | Beta Endosulfan | mg/kg | 0.2 | 0 | 0 | 200 | 0 |
| | | | p,p'-DDD | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | | p,p'-DDT | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | | Endosulfan sulphate | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | | Endrin Aldehyde | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | | Methoxychlor | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | | Endrin Ketone | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | | Isodrin | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | | Mirex | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | mg/kg | - | 0.126 | 0.12 | 30 | 5 |

### PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN420

| Original | Duplicate | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|
| SE199641.005 | LB187025.022 | Naphthalene | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | 2-methylnaphthalene | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | 1-methylnaphthalene | mg/kg | 0.1 | 0 | 0 | 200 | 0 |

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

**PAH (Polynuclear Aromatic Hydrocarbons) in Soil (continued)** — Method: ME-(AU)-[ENV]AN420

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE199641.005 | LB187025.022 | | Acenaphthylene | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | | Acenaphthene | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | | Fluorene | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | | Phenanthrene | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | | Anthracene | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | | Fluoranthene | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | | Pyrene | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | | Benzo(a)anthracene | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | | Chrysene | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | | Benzo(b&j)fluoranthene | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | | Benzo(k)fluoranthene | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | | Benzo(a)pyrene | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | | Indeno(1,2,3-cd)pyrene | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | | Dibenzo(ah)anthracene | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | | Benzo(ghi)perylene | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=0 | mg/kg | 0.2 | 0 | 0 | 200 | 0 |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=LOR | mg/kg | 0.3 | 0.242 | 0.242 | 134 | 0 |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=LOR/2 | mg/kg | 0.2 | 0.121 | 0.121 | 175 | 0 |
| | | | Total PAH (18) | mg/kg | 0.8 | 0 | 0 | 200 | 0 |
| | | Surrogates | d5-nitrobenzene (Surrogate) | mg/kg | - | 0.41 | 0.4 | 30 | 2 |
| | | | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.49 | 0.46 | 30 | 6 |
| | | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.49 | 0.47 | 30 | 4 |
| SE199644.003 | LB187025.023 | | Naphthalene | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | | 2-methylnaphthalene | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | | 1-methylnaphthalene | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | | Acenaphthylene | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | | Acenaphthene | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | | Fluorene | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | | Phenanthrene | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | | Anthracene | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | | Fluoranthene | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | | Pyrene | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | | Benzo(a)anthracene | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | | Chrysene | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | | Benzo(b&j)fluoranthene | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | | Benzo(k)fluoranthene | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | | Benzo(a)pyrene | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | | Indeno(1,2,3-cd)pyrene | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | | Dibenzo(ah)anthracene | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | | Benzo(ghi)perylene | mg/kg | 0.1 | 0 | 0 | 200 | 0 |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=0 | mg/kg | 0.2 | 0 | 0 | 200 | 0 |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=LOR | mg/kg | 0.3 | 0.242 | 0.242 | 134 | 0 |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=LOR/2 | mg/kg | 0.2 | 0.121 | 0.121 | 175 | 0 |
| | | | Total PAH (18) | mg/kg | 0.8 | 0 | 0 | 200 | 0 |
| | | Surrogates | d5-nitrobenzene (Surrogate) | mg/kg | - | 0.37 | 0.47 | 30 | 24 |
| | | | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.46 | 0.54 | 30 | 16 |
| | | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.49 | 0.54 | 30 | 10 |

**PCBs in Soil** — Method: ME-(AU)-[ENV]AN420

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE199641.005 | LB187025.022 | | Arochlor 1016 | mg/kg | 0.2 | 0 | 0 | 200 | 0 |
| | | | Arochlor 1221 | mg/kg | 0.2 | 0 | 0 | 200 | 0 |
| | | | Arochlor 1232 | mg/kg | 0.2 | 0 | 0 | 200 | 0 |
| | | | Arochlor 1242 | mg/kg | 0.2 | 0 | 0 | 200 | 0 |
| | | | Arochlor 1248 | mg/kg | 0.2 | 0 | 0 | 200 | 0 |
| | | | Arochlor 1254 | mg/kg | 0.2 | 0 | 0 | 200 | 0 |
| | | | Arochlor 1260 | mg/kg | 0.2 | 0 | 0 | 200 | 0 |
| | | | Arochlor 1262 | mg/kg | 0.2 | 0 | 0 | 200 | 0 |
| | | | Arochlor 1268 | mg/kg | 0.2 | 0 | 0 | 200 | 0 |
| | | | Total PCBs (Arochlors) | mg/kg | 1 | 0 | 0 | 200 | 0 |
| | | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | mg/kg | - | 0.126 | 0.12 | 30 | 5 |

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

## pH in soil (1:5)

Method: ME-(AU)-[ENV]AN101

| Original | Duplicate | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|
| SE199654.006 | LB187074.011 | pH | pH Units | 0.1 | 7.7 | 7.7 | 31 | 0 |
| SE199654.009 | LB187173.012 | pH | pH Units | 0.1 | 7.5 | 7.4 | 31 | 2 |

## Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

Method: ME-(AU)-[ENV]AN040/AN320

| Original | Duplicate | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|
| SE199652.011 | LB187027.014 | Arsenic, As | mg/kg | 1 | 6 | 6 | 47 | 3 |
| | | Cadmium, Cd | mg/kg | 0.3 | <0.3 | 0.4 | 136 | 29 |
| | | Chromium, Cr | mg/kg | 0.5 | 18 | 18 | 33 | 0 |
| | | Copper, Cu | mg/kg | 0.5 | 23 | 26 | 32 | 11 |
| | | Nickel, Ni | mg/kg | 0.5 | 25 | 27 | 32 | 6 |
| | | Lead, Pb | mg/kg | 1 | 31 | 25 | 34 | 20 |
| | | Zinc, Zn | mg/kg | 2 | 68 | 69 | 33 | 1 |
| SE199654.006 | LB187027.022 | Arsenic, As | mg/kg | 1 | 7 | 6 | 45 | 10 |
| | | Cadmium, Cd | mg/kg | 0.3 | <0.3 | <0.3 | 200 | 0 |
| | | Chromium, Cr | mg/kg | 0.5 | 6.8 | 7.8 | 37 | 14 |
| | | Copper, Cu | mg/kg | 0.5 | 33 | 33 | 32 | 0 |
| | | Nickel, Ni | mg/kg | 0.5 | 17 | 17 | 33 | 1 |
| | | Lead, Pb | mg/kg | 1 | 20 | 20 | 35 | 1 |
| | | Zinc, Zn | mg/kg | 2 | 71 | 65 | 33 | 8 |
| SE199717.001 | LB187121.014 | Lead, Pb | mg/kg | 1 | 400 | 420 | 30 | 4 |
| | | Zinc, Zn | mg/kg | 2 | 180 | 240 | 31 | 27 |
| SE199717.004 | LB187121.018 | Zinc, Zn | mg/kg | 2 | 36 | 30 | 36 | 19 |

## TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE199641.005 | LB187025.023 | | TRH C10-C14 | mg/kg | 20 | 0 | 0 | 200 | 0 |
| | | | TRH C15-C28 | mg/kg | 45 | 0 | 0 | 200 | 0 |
| | | | TRH C29-C36 | mg/kg | 45 | 0 | 0 | 200 | 0 |
| | | | TRH C37-C40 | mg/kg | 100 | 0 | 0 | 200 | 0 |
| | | | TRH C10-C36 Total | mg/kg | 110 | 0 | 0 | 200 | 0 |
| | | | TRH >C10-C40 Total (F bands) | mg/kg | 210 | 0 | 0 | 200 | 0 |
| | | TRH F Bands | TRH >C10-C16 | mg/kg | 25 | 0 | 0 | 200 | 0 |
| | | | TRH >C10-C16 - Naphthalene (F2) | mg/kg | 25 | 0 | 0 | 200 | 0 |
| | | | TRH >C16-C34 (F3) | mg/kg | 90 | 0 | 0 | 200 | 0 |
| | | | TRH >C34-C40 (F4) | mg/kg | 120 | 0 | 0 | 200 | 0 |
| SE199644.003 | LB187025.024 | | TRH C10-C14 | mg/kg | 20 | 0 | 0 | 200 | 0 |
| | | | TRH C15-C28 | mg/kg | 45 | 0 | 0 | 200 | 0 |
| | | | TRH C29-C36 | mg/kg | 45 | 76 | 51 | 101 | 39 |
| | | | TRH C37-C40 | mg/kg | 100 | 0 | 0 | 200 | 0 |
| | | | TRH C10-C36 Total | mg/kg | 110 | 76 | 51 | 200 | 0 |
| | | | TRH >C10-C40 Total (F bands) | mg/kg | 210 | 0 | 0 | 200 | 0 |
| | | TRH F Bands | TRH >C10-C16 | mg/kg | 25 | 0 | 0 | 200 | 0 |
| | | | TRH >C10-C16 - Naphthalene (F2) | mg/kg | 25 | 0 | 0 | 200 | 0 |
| | | | TRH >C16-C34 (F3) | mg/kg | 90 | 0 | 0 | 200 | 0 |
| | | | TRH >C34-C40 (F4) | mg/kg | 120 | 0 | 0 | 200 | 0 |

## VOC's in Soil

Method: ME-(AU)-[ENV]AN433

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE199654.009 | LB187130.023 | Monocyclic Aromatic | Benzene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Toluene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Ethylbenzene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | m/p-xylene | mg/kg | 0.2 | <0.2 | <0.2 | 200 | 0 |
| | | | o-xylene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Polycyclic | Naphthalene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | 7.9 | 8.6 | 50 | 8 |
| | | | d8-toluene (Surrogate) | mg/kg | - | 8.4 | 9.2 | 50 | 9 |
| | | | Bromofluorobenzene (Surrogate) | mg/kg | - | 7.3 | 7.8 | 50 | 7 |
| | | Totals | Total Xylenes | mg/kg | 0.3 | <0.3 | <0.3 | 200 | 0 |
| | | | Total BTEX | mg/kg | 0.6 | <0.6 | <0.6 | 200 | 0 |

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

**Volatile Petroleum Hydrocarbons in Soil** — **Method: ME-(AU)-[ENV]AN433**

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE199654.009 | LB187130.023 | | TRH C6-C10 | mg/kg | 25 | <25 | <25 | 200 | 0 |
| | | | TRH C6-C9 | mg/kg | 20 | <20 | <20 | 200 | 0 |
| | | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | 7.9 | 8.6 | 30 | 8 |
| | | | d8-toluene (Surrogate) | mg/kg | - | 8.4 | 9.2 | 30 | 9 |
| | | | Bromofluorobenzene (Surrogate) | mg/kg | - | 7.3 | 7.8 | 30 | 7 |
| | | VPH F Bands | Benzene (F0) | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | TRH C6-C10 minus BTEX (F1) | mg/kg | 25 | <25 | <25 | 200 | 0 |

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

## Mercury in Soil

Method: ME-(AU)-[ENV]AN312

| Sample Number | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|
| LB187028.002 | Mercury | mg/kg | 0.05 | 0.20 | 0.2 | 70 - 130 | 100 |
| LB187122.002 | Mercury | mg/kg | 0.05 | 0.21 | 0.2 | 70 - 130 | 105 |

## Metals in Water (Dissolved) by ICPOES

Method: ME-(AU)-[ENV]AN320

| Sample Number | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|
| LB187031.002 | Arsenic, As | mg/L | 0.02 | 0.54 | 0.5 | 80 - 120 | 108 |
| | Cadmium, Cd | mg/L | 0.001 | 0.46 | 0.5 | 80 - 120 | 91 |
| | Chromium, Cr | mg/L | 0.005 | 0.50 | 0.5 | 80 - 120 | 100 |
| | Copper, Cu | mg/L | 0.005 | 0.49 | 0.5 | 80 - 120 | 97 |
| | Lead, Pb | mg/L | 0.02 | 0.49 | 0.5 | 80 - 120 | 99 |
| | Nickel, Ni | mg/L | 0.005 | 0.49 | 0.5 | 80 - 120 | 97 |
| | Zinc, Zn | mg/L | 0.01 | 0.50 | 0.5 | 80 - 120 | 100 |

## OC Pesticides in Soil

Method: ME-(AU)-[ENV]AN420

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB187025.002 | | Heptachlor | mg/kg | 0.1 | 0.2 | 0.2 | 60 - 140 | 83 |
| | | Aldrin | mg/kg | 0.1 | 0.2 | 0.2 | 60 - 140 | 80 |
| | | Delta BHC | mg/kg | 0.1 | 0.2 | 0.2 | 60 - 140 | 80 |
| | | Dieldrin | mg/kg | 0.05 | 0.15 | 0.2 | 60 - 140 | 76 |
| | | Endrin | mg/kg | 0.2 | <0.2 | 0.2 | 60 - 140 | 77 |
| | | p,p'-DDT | mg/kg | 0.1 | 0.2 | 0.2 | 60 - 140 | 82 |
| | Surrogates | Tetrachloro-m-xylene (TCMX) (Surrogate) | mg/kg | - | 0.11 | 0.15 | 40 - 130 | 74 |

## PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN420

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB187025.002 | | Naphthalene | mg/kg | 0.1 | 4.2 | 4 | 60 - 140 | 106 |
| | | Acenaphthylene | mg/kg | 0.1 | 4.4 | 4 | 60 - 140 | 110 |
| | | Acenaphthene | mg/kg | 0.1 | 4.1 | 4 | 60 - 140 | 103 |
| | | Phenanthrene | mg/kg | 0.1 | 4.6 | 4 | 60 - 140 | 114 |
| | | Anthracene | mg/kg | 0.1 | 4.2 | 4 | 60 - 140 | 106 |
| | | Fluoranthene | mg/kg | 0.1 | 4.2 | 4 | 60 - 140 | 106 |
| | | Pyrene | mg/kg | 0.1 | 4.5 | 4 | 60 - 140 | 112 |
| | | Benzo(a)pyrene | mg/kg | 0.1 | 5.1 | 4 | 60 - 140 | 127 |
| | Surrogates | d5-nitrobenzene (Surrogate) | mg/kg | - | 0.5 | 0.5 | 40 - 130 | 90 |
| | | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | 40 - 130 | 102 |
| | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | 40 - 130 | 94 |
| LB187126.002 | | Naphthalene | mg/kg | 0.1 | 4.2 | 4 | 60 - 140 | 105 |
| | | Acenaphthylene | mg/kg | 0.1 | 4.4 | 4 | 60 - 140 | 110 |
| | | Acenaphthene | mg/kg | 0.1 | 4.0 | 4 | 60 - 140 | 100 |
| | | Phenanthrene | mg/kg | 0.1 | 4.4 | 4 | 60 - 140 | 110 |
| | | Anthracene | mg/kg | 0.1 | 4.3 | 4 | 60 - 140 | 107 |
| | | Fluoranthene | mg/kg | 0.1 | 4.0 | 4 | 60 - 140 | 101 |
| | | Pyrene | mg/kg | 0.1 | 4.3 | 4 | 60 - 140 | 108 |
| | | Benzo(a)pyrene | mg/kg | 0.1 | 4.7 | 4 | 60 - 140 | 118 |
| | Surrogates | d5-nitrobenzene (Surrogate) | mg/kg | - | 0.5 | 0.5 | 40 - 130 | 90 |
| | | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.4 | 0.5 | 40 - 130 | 88 |
| | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.4 | 0.5 | 40 - 130 | 86 |

## PCBs in Soil

Method: ME-(AU)-[ENV]AN420

| Sample Number | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|
| LB187025.002 | Arochlor 1260 | mg/kg | 0.2 | 0.4 | 0.4 | 60 - 140 | 110 |

## pH in soil (1:5)

Method: ME-(AU)-[ENV]AN101

| Sample Number | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|
| LB187074.003 | pH | pH Units | 0.1 | 7.4 | 7.415 | 98 - 102 | 100 |
| LB187173.003 | pH | pH Units | 0.1 | 7.4 | 7.415 | 98 - 102 | 100 |

## Total Phenolics in Soil

Method: ME-(AU)-[ENV]AN289

| Sample Number | Parameter | Units | LOR |
|---|---|---|---|

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

### Total Phenolics in Soil (continued)

Method: ME-(AU)-[ENV]AN289

| Sample Number | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|
| LB187157.002 | Total Phenols | mg/kg | 5 | <5 | 2.5 | 70 - 130 | 94 |

### Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

Method: ME-(AU)-[ENV]AN040/AN320

| Sample Number | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|
| LB187027.002 | Arsenic, As | mg/kg | 1 | 320 | 318.22 | 80 - 120 | 100 |
| | Cadmium, Cd | mg/kg | 0.3 | 3.8 | 4.62 | 80 - 120 | 83 |
| | Chromium, Cr | mg/kg | 0.5 | 32 | 38.31 | 80 - 120 | 83 |
| | Copper, Cu | mg/kg | 0.5 | 280 | 290 | 80 - 120 | 97 |
| | Nickel, Ni | mg/kg | 0.5 | 170 | 187 | 80 - 120 | 93 |
| | Lead, Pb | mg/kg | 1 | 95 | 89.9 | 80 - 120 | 105 |
| | Zinc, Zn | mg/kg | 2 | 260 | 273 | 80 - 120 | 94 |
| LB187121.002 | Arsenic, As | mg/kg | 1 | 320 | 318.22 | 80 - 120 | 102 |
| | Cadmium, Cd | mg/kg | 0.3 | 3.9 | 4.62 | 80 - 120 | 84 |
| | Chromium, Cr | mg/kg | 0.5 | 35 | 38.31 | 80 - 120 | 91 |
| | Copper, Cu | mg/kg | 0.5 | 280 | 290 | 80 - 120 | 97 |
| | Nickel, Ni | mg/kg | 0.5 | 180 | 187 | 80 - 120 | 96 |
| | Lead, Pb | mg/kg | 1 | 94 | 89.9 | 80 - 120 | 105 |
| | Zinc, Zn | mg/kg | 2 | 270 | 273 | 80 - 120 | 99 |

### TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB187025.002 | | TRH C10-C14 | mg/kg | 20 | 46 | 40 | 60 - 140 | 115 |
| | | TRH C15-C28 | mg/kg | 45 | <45 | 40 | 60 - 140 | 110 |
| | | TRH C29-C36 | mg/kg | 45 | <45 | 40 | 60 - 140 | 100 |
| | TRH F Bands | TRH >C10-C16 | mg/kg | 25 | 46 | 40 | 60 - 140 | 115 |
| | | TRH >C16-C34 (F3) | mg/kg | 90 | <90 | 40 | 60 - 140 | 105 |
| | | TRH >C34-C40 (F4) | mg/kg | 120 | <120 | 20 | 60 - 140 | 100 |
| LB187126.002 | | TRH C10-C14 | mg/kg | 20 | 48 | 40 | 60 - 140 | 120 |
| | | TRH C15-C28 | mg/kg | 45 | <45 | 40 | 60 - 140 | 95 |
| | | TRH C29-C36 | mg/kg | 45 | <45 | 40 | 60 - 140 | 65 |
| | TRH F Bands | TRH >C10-C16 | mg/kg | 25 | 47 | 40 | 60 - 140 | 118 |
| | | TRH >C16-C34 (F3) | mg/kg | 90 | <90 | 40 | 60 - 140 | 73 |
| | | TRH >C34-C40 (F4) | mg/kg | 120 | <120 | 20 | 60 - 140 | 65 |

### VOC's in Soil

Method: ME-(AU)-[ENV]AN433

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB187130.002 | Monocyclic Aromatic | Benzene | mg/kg | 0.1 | 4.2 | 5 | 60 - 140 | 83 |
| | | Toluene | mg/kg | 0.1 | 4.2 | 5 | 60 - 140 | 84 |
| | | Ethylbenzene | mg/kg | 0.1 | 4.4 | 5 | 60 - 140 | 87 |
| | | m/p-xylene | mg/kg | 0.2 | 8.8 | 10 | 60 - 140 | 88 |
| | | o-xylene | mg/kg | 0.1 | 4.4 | 5 | 60 - 140 | 87 |
| | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | 7.7 | 10 | 70 - 130 | 77 |
| | | d8-toluene (Surrogate) | mg/kg | - | 8.1 | 10 | 70 - 130 | 81 |
| | | Bromofluorobenzene (Surrogate) | mg/kg | - | 7.6 | 10 | 70 - 130 | 76 |

### Volatile Petroleum Hydrocarbons in Soil

Method: ME-(AU)-[ENV]AN433

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB187130.002 | | TRH C6-C10 | mg/kg | 25 | 68 | 92.5 | 60 - 140 | 73 |
| | | TRH C6-C9 | mg/kg | 20 | 59 | 80 | 60 - 140 | 74 |
| | Surrogates | d4-1,2-dichloroethane (Surrogate) | mg/kg | - | 7.7 | 10 | 70 - 130 | 77 |
| | | Bromofluorobenzene (Surrogate) | mg/kg | - | 7.6 | 10 | 70 - 130 | 76 |
| | VPH F Bands | TRH C6-C10 minus BTEX (F1) | mg/kg | 25 | 42 | 62.5 | 60 - 140 | 67 |

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

## Mercury in Soil

Method: ME-(AU)-[ENV]AN312

| QC Sample | Sample Number | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|
| SE199652.001 | LB187028.004 | Mercury | mg/kg | 0.05 | 0.22 | <0.05 | 0.2 | 99 |
| SE199706.001 | LB187122.004 | Mercury | mg/kg | 0.05 | 0.24 | 0.02615051302 | 0.2 | 105 |

## Metals in Water (Dissolved) by ICPOES

Method: ME-(AU)-[ENV]AN320

| QC Sample | Sample Number | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|
| SE199652.012 | LB187031.004 | Arsenic, As | mg/L | 0.02 | 0.53 | <0.02 | 0.5 | 107 |
| | | Cadmium, Cd | mg/L | 0.001 | 0.48 | <0.001 | 0.5 | 96 |
| | | Chromium, Cr | mg/L | 0.005 | 0.53 | <0.005 | 0.5 | 106 |
| | | Copper, Cu | mg/L | 0.005 | 0.51 | <0.005 | 0.5 | 102 |
| | | Lead, Pb | mg/L | 0.02 | 0.52 | <0.02 | 0.5 | 104 |
| | | Nickel, Ni | mg/L | 0.005 | 0.51 | <0.005 | 0.5 | 101 |
| | | Zinc, Zn | mg/L | 0.01 | 0.53 | <0.01 | 0.5 | 106 |

## PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN420

| QC Sample | Sample Number | | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|---|
| SE199654.001 | LB187025.004 | | Naphthalene | mg/kg | 0.1 | 4.3 | <0.1 | 4 | 107 |
| | | | 2-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | 1-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Acenaphthylene | mg/kg | 0.1 | 4.2 | <0.1 | 4 | 104 |
| | | | Acenaphthene | mg/kg | 0.1 | 4.1 | <0.1 | 4 | 102 |
| | | | Fluorene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Phenanthrene | mg/kg | 0.1 | 4.6 | <0.1 | 4 | 116 |
| | | | Anthracene | mg/kg | 0.1 | 4.2 | <0.1 | 4 | 106 |
| | | | Fluoranthene | mg/kg | 0.1 | 4.1 | <0.1 | 4 | 104 |
| | | | Pyrene | mg/kg | 0.1 | 4.6 | <0.1 | 4 | 115 |
| | | | Benzo(a)anthracene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Chrysene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Benzo(b&j)fluoranthene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Benzo(k)fluoranthene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Benzo(a)pyrene | mg/kg | 0.1 | 5.0 | <0.1 | 4 | 126 |
| | | | Indeno(1,2,3-cd)pyrene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Dibenzo(ah)anthracene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Benzo(ghi)perylene | mg/kg | 0.1 | <0.1 | <0.1 | - | - |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=0 | TEQ (mg/kg) | 0.2 | 5.0 | <0.2 | - | - |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=LOR | TEQ (mg/kg) | 0.3 | 5.2 | <0.3 | - | - |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=LOR/2 | TEQ (mg/kg) | 0.2 | 5.1 | <0.2 | - | - |
| | | | Total PAH (18) | mg/kg | 0.8 | 35 | <0.8 | - | - |
| | | Surrogates | d5-nitrobenzene (Surrogate) | mg/kg | - | 0.4 | 0.4 | - | 78 |
| | | | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | - | 94 |
| | | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | - | 94 |

## Total Recoverable Elements in Soil/Waste Solids/Materials by ICPOES

Method: ME-(AU)-[ENV]AN040/AN320

| QC Sample | Sample Number | Parameter | Units | LOR | Result | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|
| SE199652.001 | LB187027.004 | Arsenic, As | mg/kg | 1 | 52 | 2 | 50 | 99 |
| | | Cadmium, Cd | mg/kg | 0.3 | 45 | <0.3 | 50 | 89 |
| | | Chromium, Cr | mg/kg | 0.5 | 58 | 7.7 | 50 | 100 |
| | | Copper, Cu | mg/kg | 0.5 | 73 | 25 | 50 | 96 |
| | | Nickel, Ni | mg/kg | 0.5 | 84 | 46 | 50 | 76 |
| | | Lead, Pb | mg/kg | 1 | 58 | 14 | 50 | 89 |
| | | Zinc, Zn | mg/kg | 2 | 93 | 56 | 50 | 74 |
| SE199706.001 | LB187121.004 | Arsenic, As | mg/kg | 1 | 38 | 2.51796538854 | 50 | 70 |
| | | Cadmium, Cd | mg/kg | 0.3 | 45 | -0.03094706064 | 50 | 90 |
| | | Chromium, Cr | mg/kg | 0.5 | 63 | 17.01103656072 | 50 | 92 |
| | | Copper, Cu | mg/kg | 0.5 | 47 | 2.04813274062 | 50 | 91 |
| | | Nickel, Ni | mg/kg | 0.5 | 46 | 1.14269676943 | 50 | 89 |
| | | Lead, Pb | mg/kg | 1 | 54 | 9.62734922861 | 50 | 88 |
| | | Zinc, Zn | mg/kg | 2 | 53 | 6.19456997171 | 50 | 93 |

## TRH (Total Recoverable Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN403

| QC Sample | Sample Number | Parameter | Units | LOR |
|---|---|---|---|---|

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

**TRH (Total Recoverable Hydrocarbons) in Soil (continued)** — **Method: ME-(AU)-[ENV]AN403**

| QC Sample | Sample Number | | Parameter | Units | LOR | Original | Spike | Recovery% |
|---|---|---|---|---|---|---|---|---|
| SE199654.001 | LB187025.022 | | TRH C10-C14 | mg/kg | 20 | <20 | 40 | 105 |
| | | | TRH C15-C28 | mg/kg | 45 | <45 | 40 | 98 |
| | | | TRH C29-C36 | mg/kg | 45 | <45 | 40 | 83 |
| | | | TRH C37-C40 | mg/kg | 100 | <100 | - | - |
| | | | TRH C10-C36 Total | mg/kg | 110 | <110 | - | - |
| | | | TRH >C10-C40 Total (F bands) | mg/kg | 210 | <210 | - | - |
| | | TRH F Bands | TRH >C10-C16 | mg/kg | 25 | <25 | 40 | 103 |
| | | | TRH >C10-C16 - Naphthalene (F2) | mg/kg | 25 | <25 | - | - |
| | | | TRH >C16-C34 (F3) | mg/kg | 90 | <90 | 40 | 90 |
| | | | TRH >C34-C40 (F4) | mg/kg | 120 | <120 | - | - |

Matrix spike duplicates are calculated as Relative Percent Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The original result is the analyte concentration of the matrix spike. The Duplicate result is the analyte concentration of the matrix spike duplicate.

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

No matrix spike duplicates were required for this job.

Samples analysed as received.

Solid samples expressed on a dry weight basis.

QC criteria are subject to internal review according to the SGS QA/QC plan and may be provided on request or alternatively can be found here: https://www.sgs.com.au/~/media/Local/Australia/Documents/ Technical Documents/MP-AU-ENV-QU-022 QA QC Plan.pdf

| | |
|---|---|
| * | NATA accreditation does not cover the performance of this service. |
| ** | Indicative data, theoretical holding time exceeded. |
| - | Sample not analysed for this analyte. |
| IS | Insufficient sample for analysis. |
| LNR | Sample listed, but not received. |
| LOR | Limit of reporting. |
| QFH | QC result is above the upper tolerance. |
| QFL | QC result is below the lower tolerance. |

| | |
|---|---|
| ① | At least 2 of 3 surrogates are within acceptance criteria. |
| ② | RPD failed acceptance criteria due to sample heterogeneity. |
| ③ | Results less than 5 times LOR preclude acceptance criteria for RPD. |
| ④ | Recovery failed acceptance criteria due to matrix interference. |
| ⑤ | Recovery failed acceptance criteria due to the presence of significant concentration of analyte (i.e. the concentration of analyte exceeds the spike level). |
| ⑥ | LOR was raised due to sample matrix interference. |
| ⑦ | LOR was raised due to dilution of significantly high concentration of analyte in sample. |
| ⑧ | Reanalysis of sample in duplicate confirmed sample heterogeneity and inconsistency of results. |
| ⑨ | Recovery failed acceptance criteria due to sample heterogeneity. |
| ⑩ | LOR was raised due to high conductivity of the sample (required dilution). |
| † | Refer to Analytical Report comments for further information. |

This document is issued by the Company under its General Conditions of Service accessible at www.sgs.com/en/Terms-and-Conditions.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client only. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

This test report shall not be reproduced, except in full.

# ANALYTICAL REPORT

Accreditation No. 2562

## CLIENT DETAILS

| | |
|---|---|
| Contact | Anwar Barbhuyia |
| Client | Geotechnique |
| Address | P.O. Box 880<br>PENRITH NSW 2751 |
| Telephone | 02 4722 2700 |
| Facsimile | 02 4722 6161 |
| Email | anwar@geotech.com.au |
| Project | **14561/1 Penrith** |
| Order Number | (Not specified) |
| Samples | 2 |

## LABORATORY DETAILS

| | |
|---|---|
| Manager | Huong Crawford |
| Laboratory | SGS Alexandria Environmental |
| Address | Unit 16, 33 Maddox St<br>Alexandria NSW 2015 |
| Telephone | +61 2 8594 0400 |
| Facsimile | +61 2 8594 0499 |
| Email | au.environmental.sydney@sgs.com |
| SGS Reference | **SE199654 R0** |
| Date Received | 04 Nov 2019 |
| Date Reported | 07 Nov 2019 |

## COMMENTS

Accredited for compliance with ISO/IEC 17025 - Testing. NATA accredited laboratory 2562(4354).

No respirable fibres detected in all soil samples using trace analysis technique.

Asbestos analysed by Approved Identifier Yusuf Kuthpudin.

## SIGNATORIES

Dong LIANG
Metals/Inorganics Team Leader

Kamrul AHSAN
Senior Chemist

Ly Kim HA
Organic Section Head

Ravee SIVASUBRAMANIAM
Hygiene Team Leader

RESULTS

Fibre Identification in soil — Method AN602

| Laboratory Reference | Client Reference | Matrix | Sample Description | Date Sampled | Fibre Identification | Est.%w/w* |
|---|---|---|---|---|---|---|
| SE199654.002 | BH5 | Other | 367g Clay,Rocks | 01 Nov 2019 | No Asbestos Found | <0.01 |
| SE199654.004 | BH5 | Other | 497g Clay,Rocks | 01 Nov 2019 | No Asbestos Found | <0.01 |

## Gravimetric Determination of Asbestos in Soil [AN605] Tested: 6/11/2019

| PARAMETER | UOM | LOR | BH5<br>CLAY<br>0.55-0.7<br>1/11/2019<br>SE199654.002 | BH5<br>CLAY<br>1.55-1.7<br>1/11/2019<br>SE199654.004 |
|---|---|---|---|---|
| Total Sample Weight* | g | 1 | **367** | **497** |
| ACM in >7mm Sample* | g | 0.01 | <0.01 | <0.01 |
| AF/FA in >2mm to <7mm Sample* | g | 0.0001 | <0.0001 | <0.0001 |
| AF/FA in <2mm Sample* | g | 0.0001 | <0.0001 | <0.0001 |
| Asbestos in soil ( >7mm ACM)* | %w/w | 0.01 | <0.01 | <0.01 |
| Asbestos in soil (>2mm to <7mm AF/FA)* | %w/w | 0.001 | <0.001 | <0.001 |
| Asbestos in soil (<2mm AF/FA)* | %w/w | 0.001 | <0.001 | <0.001 |
| Asbestos in soil (<7mm AF/FA)* | %w/w | 0.001 | <0.001 | <0.001 |
| Fibre Type* | No unit | - | - | - |

# METHOD SUMMARY

| METHOD | METHODOLOGY SUMMARY |
|---|---|
| AN602 | Qualitative identification of chrysotile, amosite and crocidolite in bulk samples by polarised light microscopy (PLM) in conjunction with dispersion staining (DS). AS4964 provides the basis for this document. Unequivocal identification of the asbestos minerals present is made by obtaining sufficient diagnostic `clues`, which provide a reasonable degree of certainty, dispersion staining is a mandatory `clue` for positive identification. If sufficient `clues` are absent, then positive identification of asbestos is not possible. This procedure requires removal of suspect fibres/bundles from the sample which cannot be returned. |
| AN602 | Fibres/material that cannot be unequivocably identified as one of the three asbestos forms, will be reported as unknown mineral fibres (umf) The fibres detected may or may not be asbestos fibres. |
| AN602 | AS4964.2004 Method for the Qualitative Identification of Asbestos in Bulk Samples , Section 8.4, Trace Analysis Criteria, Note 4 states:"Depending upon sample condition and fibre type, the detection limit of this technique has been found to lie generally in the range of 1 in 1,000 to 1 in 10,000 parts by weight, equivalent to 1 to 0.1 g/kg." |
| AN602 | The sample can be reported “no asbestos found at the reporting limit of 0.1 g/kg” (<0.01%w/w) where AN602 section 4.5 of this method has been followed, and if-<br><br>(a) no trace asbestos fibres have been detected (i.e. no ‘respirable’ fibres):<br>(b) the estimated weight of non-respirable asbestos fibre bundles and/or the estimated weight of asbestos in asbestos-containing materials are found to be less than 0.1g/kg: and<br>(c) these non-respirable asbestos fibre bundles and/or the asbestos containing materials are only visible under stereo-microscope viewing conditions. |
| AN605 | This technique gravimetrically determines the mass of Asbestos Containing Material retained on a 7mm Sieve and assumes that 15% of this ACM is asbestos. This calculated asbestos weight is then calculated as a percentage of the total sample weight. |
| AN605 | This technique also gravimetrically determines the mass of Fibrous Asbestos (FA) and Asbestos Fines (AF) Containing Material retained on and passing a 2mm sieve post 7mm sieving. Assumes that FA and AF are 100% asbestos containing. This calculated asbestos weight is then calculated as a percentage of the total sample weight. This does not include free fibres which are only observed by standard trace analysis as per AN 602. |
| AN605 | Insofar as is technically feasible, this report is consistent with the analytical reporting recommendations in the Western Australian Department of Health Guidelines for the Assessment Remediation and Management of Asbestos - Contaminated Sites in Western Australia - May 2009. |

FOOTNOTES

| | | | | | |
|---|---|---|---|---|---|
| Amosite | - | Brown Asbestos | NA | - | Not Analysed |
| Chrysotile | - | White Asbestos | LNR | - | Listed, Not Required |
| Crocidolite | - | Blue Asbestos | * | - | NATA accreditation does not cover the performance of this service. |
| Amphiboles | - | Amosite and/or Crocidolite | ** | - | Indicative data, theoretical holding time exceeded. |

(In reference to soil samples only) This report does not comply with the analytical reporting recommendations in the Western Australian Department of Health Guidelines for the Assessment and Remediation and Management of Asbestos Contaminated sites in Western Australia - May 2009.

Unless it is reported that sampling has been performed by SGS, the samples have been analysed as received.

Where reported: 'Asbestos Detected': Asbestos detected by polarised light microscopy, including dispersion staining.
Where reported: 'No Asbestos Found': No Asbestos Found by polarised light microscopy, including dispersion staining.
Where reported: 'UMF Detected': Mineral fibres of unknown type detected by polarised light microscopy, including dispersion staining. Confirmation by another independent analytical technique may be necessary.

Even after disintegration it can be very difficult, or impossible, to detect the presence of asbestos in some asbestos-containing bulk materials using polarised light microscopy. This is due to the low grade or small length or diameter of asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials.

The QC and MU criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: www.sgs.com.au.pv.sgsvr/en-gb/environment.

This document is issued by the Company under its General Conditions of Service accessible at www.sgs.com/en/Terms-and-Conditions.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client only. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

This test report shall not be reproduced, except in full.

source: [Untitled].pdf page: 1 SGS Ref: SE199654_COC



E-MAILED
4/11/19 @ 1.37pm

SGS EHS Alexandria Laboratory

SE199654 COC
Received: 04 – Nov – 2019

# GEOTECHNIQUE PTY LTD

1 LEMKO PLACE PENRITH NSW 2750 Tel: (02) 4722 2700

## CHAIN OF CUSTODY

**Results Required By:** Normal Turnaround — **Date:** Thursday, 7 November 2019

**Except pH Results Required By** 2 days — **Date:** Wednesday, 6 November 2019

TO: SGS
UNIT 16, 33 MADDOX STREET
ALEXANDRIA NSW 2015
Tel: 02 8594 0400

Sampled By: RI | Ref No: 14561/1 | Project Manager: ANWAR BARBHUYIA | Location: Penrith

| | Location | Depth (m) | Date | Soil | Water | Material | Metals As Cd Cr Cu Pb Hg Ni Zn | pH | CEC | CL8 TRH BTEX PAH | CL10 Metals* TRH BTEX PAH | CL16 Metals* TRH BTEX PAH OC PCB | Be B Co Mn Se | Mn | Asbestos 0.001% w/w | Asbestos | BTEX | TRH & BTEX | PAH | OCP | OCP & PCB | Phenol | Cyanide | VOC | OCP OPP & PCB |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 | BH3 | 1.75-1.85 | 31/10/19 | G | | Clay | | ✓ | ✓ | | ✓ | | | | | | | | | | | | | | |
| 1 | BH4 | 0.25-0.4 | 01/11/19 | G | | Clay | | ✓ | ✓ | | | ✓ | | | | | | | | | | | ✓ | | | |
| 2 | BH5 | 0.55-0.7 | 01/11/19 | GP | | Clay | | ✓ | ✓ | | | ✓ | | | ✓ | | | | | | | | ✓ | | | |
| 3 | BH5 | 1.05-1.2 | 01/11/19 | GP | | Clay | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | |
| 4 | BH5 | 1.55-1.7 | 01/11/19 | GP | | Clay | | ✓ | ✓ | | | ✓ | | | ✓ | | | | | | | | ✓ | | | |
| 5 | BH5 | 2.55-2.7 | 01/11/19 | GP | | Clay | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | |
| 6 | BH5 | 3.55-3.7 | 01/11/19 | GP | | Clay | | | | | | | | | | | | | | | | | | | | |
| 16 | BH5 | 3.85-3.95 | 01/11/19 | G | | Clay | | ✓ | ✓ | | ✓ | | | | | | | | | | | | | | | |
| 8 | DSS2 | | 01/11/19 | G | | | | | | | | | | | | | | | | | | | | | | |
| 7 | RS3 | | 01/11/19 | | WG/Vial | | ✓ | | | | | | | | | | | | | | | | | | | |
| 18 | TS3 | | | | | Sand | | | | | | | | | | | ✓ | | | | | | | | | |

| Relinquished by | | | Received by | | |
|---|---|---|---|---|---|
| Name | Signature | Date | Name | Signature | Date |
| ANWAR BARBHUYIA | AB | 04/11/19 | J.L | J.L | 4/11/19 3:50pm |

WG: Water sample (glass bottle) G Soil sample (glass jar) FCP Fibro Cement Piece (plastic bag) *: As,Cd,Cr,Cu,Pb,Hg,Ni & Zn (8 metals)
WP: Water sample (plastic bottle) P Soil sample (plastic bag) ✓ Test required

# SAMPLE RECEIPT ADVICE

SE199654

## CLIENT DETAILS

| | |
|---|---|
| Contact | Anwar Barbhuyia |
| Client | Geotechnique |
| Address | P.O. Box 880<br>PENRITH NSW 2751 |
| Telephone | 02 4722 2700 |
| Facsimile | 02 4722 6161 |
| Email | anwar@geotech.com.au |
| Project | **14561/1 Penrith** |
| Order Number | (Not specified) |
| Samples | 9 |

## LABORATORY DETAILS

| | |
|---|---|
| Manager | Huong Crawford |
| Laboratory | SGS Alexandria Environmental |
| Address | Unit 16, 33 Maddox St<br>Alexandria NSW 2015 |
| Telephone | +61 2 8594 0400 |
| Facsimile | +61 2 8594 0499 |
| Email | au.environmental.sydney@sgs.com |
| Samples Received | Mon 4/11/2019 |
| Report Due | Thu 7/11/2019 |
| SGS Reference | **SE199654** |

## SUBMISSION DETAILS

This is to confirm that 9 samples were received on Monday 4/ 11/2019. Results are expected to be ready by COB Thursday 7/11/2019. Please quote SGS reference SE199654 when making enquiries. Refer below for details relating to sample integrity upon receipt.

| | | | |
|---|---|---|---|
| Samples clearly labelled | Yes | Complete documentation received | Yes |
| Sample container provider | SGS | Sample cooling method | Ice Bricks |
| Samples received in correct containers | Yes | Sample counts by matrix | 7 Clay,1 Sand,1 Water |
| Date documentation received | 04/11/2019@01:37pm | Type of documentation received | COC |
| Samples received in good order | Yes | Samples received without headspace | Yes |
| Sample temperature upon receipt | 18.2°C | Sufficient sample for analysis | Yes |
| Turnaround time requested | 2 Day/Three Days | | |

Unless otherwise instructed, water and bulk samples will be held for one month from date of report, and soil samples will be held for two months.

## COMMENTS

2 soil samples have been placed on hold as no tests have been assigned for them by the client. These samples will not be processed.

This document is issued by the Company under its General Conditions of Service accessible at www.sgs.com/en/Terms-and-Conditions.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

# SAMPLE RECEIPT ADVICE

SE199654

CLIENT DETAILS

Client Geotechnique

Project 14561/1 Penrith

SUMMARY OF ANALYSIS

| No. | Sample ID | OC Pesticides in Soil | PAH (Polynuclear Aromatic Hydrocarbons) in Soil | PCBs in Soil | pH in soil (1:5) | Total Phenolics in Soil | TRH (Total Recoverable Hydrocarbons) in Soil | VOC's in Soil | Volatile Petroleum Hydrocarbons in Soil |
|---|---|---|---|---|---|---|---|---|---|
| 001 | BH4 0.25-0.4 | 28 | 26 | 11 | 1 | 1 | 10 | 11 | 7 |
| 002 | BH5 0.55-0.7 | 28 | 26 | 11 | 1 | 1 | 10 | 11 | 7 |
| 003 | BH5 1.05-1.2 | - | - | - | 1 | - | - | - | - |
| 004 | BH5 1.55-1.7 | 28 | 26 | 11 | 1 | 1 | 10 | 11 | 7 |
| 005 | BH5 2.55-2.7 | - | - | - | 1 | - | - | - | - |
| 006 | BH5 3.85-3.95 | - | 26 | - | 1 | - | 10 | 11 | 7 |
| 008 | TS3 | - | - | - | - | - | - | 11 | - |
| 009 | BH3 1.75-1.85 | - | 26 | - | 1 | - | 10 | 11 | 7 |

CONTINUED OVERLEAF

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.
The numbers shown in the table indicate the number of results requested in each package.
Please indicate as soon as possible should your request differ from these details .
Testing as per this table shall commence immediately unless the client intervenes with a correction .

# SAMPLE RECEIPT ADVICE

SE199654

CLIENT DETAILS

Client Geotechnique

Project 14561/1 Penrith

SUMMARY OF ANALYSIS

| No. | Sample ID | Exchangeable Cations and Cation Exchange Capacity | Fibre Identification in soil | Gravimetric Determination of Asbestos in Soil | Mercury in Soil | Moisture Content | Total Recoverable Elements in Soil/Waste |
|---|---|---|---|---|---|---|---|
| 001 | BH4 0.25-0.4 | 13 | - | - | 1 | 1 | 7 |
| 002 | BH5 0.55-0.7 | 13 | 2 | 9 | 1 | 1 | 7 |
| 003 | BH5 1.05-1.2 | 13 | - | - | 1 | 1 | 7 |
| 004 | BH5 1.55-1.7 | 13 | 2 | 9 | 1 | 1 | 7 |
| 005 | BH5 2.55-2.7 | 13 | - | - | 1 | 1 | 7 |
| 006 | BH5 3.85-3.95 | 13 | - | - | 1 | 1 | 7 |
| 009 | BH3 1.75-1.85 | 13 | - | - | 1 | 1 | 7 |

CONTINUED OVERLEAF

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.
The numbers shown in the table indicate the number of results requested in each package.
Please indicate as soon as possible should your request differ from these details .
Testing as per this table shall commence immediately unless the client intervenes with a correction .

# SAMPLE RECEIPT ADVICE

SE199654

CLIENT DETAILS

Client Geotechnique

Project 14561/1 Penrith

SUMMARY OF ANALYSIS

| No. | Sample ID | Mercury (dissolved) in Water | Metals in Water (Dissolved) by ICPOES |
|---|---|---|---|
| 007 | RS3 | 1 | 7 |

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.
The numbers shown in the table indicate the number of results requested in each package.
Please indicate as soon as possible should your request differ from these details .
Testing as per this table shall commence immediately unless the client intervenes with a correction .

# ANALYTICAL REPORT

Accreditation No. 2562

## CLIENT DETAILS

| | |
|---|---|
| Contact | Anwar Barbhuyia |
| Client | Geotechnique |
| Address | P.O. Box 880<br>PENRITH NSW 2751 |
| Telephone | 02 4722 2700 |
| Facsimile | 02 4722 6161 |
| Email | anwar@geotech.com.au |
| Project | **14561/1 Penrith - Additional** |
| Order Number | **PE139550** |
| Samples | 9 |

## LABORATORY DETAILS

| | |
|---|---|
| Manager | Huong Crawford |
| Laboratory | SGS Alexandria Environmental |
| Address | Unit 16, 33 Maddox St<br>Alexandria NSW 2015 |
| Telephone | +61 2 8594 0400 |
| Facsimile | +61 2 8594 0499 |
| Email | au.environmental.sydney@sgs.com |
| SGS Reference | **SE199654A R0** |
| Date Received | 27/11/2019 |
| Date Reported | 28/11/2019 |

## COMMENTS

Accredited for compliance with ISO/IEC 17025 - Testing. NATA accredited laboratory 2562(4354).

## SIGNATORIES

**Akheeqar BENIAMEEN**
Chemist

**Ly Kim HA**
Organic Section Head

## PAH (Polynuclear Aromatic Hydrocarbons) in Soil [AN420] Tested: 27/11/2019

| PARAMETER | UOM | LOR | BH5<br>CLAY<br>1.05-1.2<br>1/11/2019<br>SE199654A.003 |
|---|---|---|---|
| Naphthalene | mg/kg | 0.1 | <0.1 |
| 2-methylnaphthalene | mg/kg | 0.1 | <0.1 |
| 1-methylnaphthalene | mg/kg | 0.1 | <0.1 |
| Acenaphthylene | mg/kg | 0.1 | **0.2** |
| Acenaphthene | mg/kg | 0.1 | <0.1 |
| Fluorene | mg/kg | 0.1 | <0.1 |
| Phenanthrene | mg/kg | 0.1 | **1.2** |
| Anthracene | mg/kg | 0.1 | **0.3** |
| Fluoranthene | mg/kg | 0.1 | **2.2** |
| Pyrene | mg/kg | 0.1 | **2.0** |
| Benzo(a)anthracene | mg/kg | 0.1 | **1.0** |
| Chrysene | mg/kg | 0.1 | **1.0** |
| Benzo(b&j)fluoranthene | mg/kg | 0.1 | **1.5** |
| Benzo(k)fluoranthene | mg/kg | 0.1 | **0.4** |
| Benzo(a)pyrene | mg/kg | 0.1 | **1.0** |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.1 | **0.5** |
| Dibenzo(ah)anthracene | mg/kg | 0.1 | <0.1 |
| Benzo(ghi)perylene | mg/kg | 0.1 | **0.4** |
| Carcinogenic PAHs, BaP TEQ <LOR=0 | TEQ (mg/kg) | 0.2 | **1.3** |
| Carcinogenic PAHs, BaP TEQ <LOR=LOR/2 | TEQ (mg/kg) | 0.2 | **1.4** |
| Carcinogenic PAHs, BaP TEQ <LOR=LOR | TEQ (mg/kg) | 0.3 | **1.4** |
| Total PAH (18) | mg/kg | 0.8 | **11** |
| Total PAH (NEPM/WHO 16) | mg/kg | 0.8 | **11** |

## PAH (Polynuclear Aromatic Hydrocarbons) in Water [AN420] Tested: 28/11/2019

| PARAMETER | UOM | LOR | RS3 WATER - 1/11/2019 SE199654A.007 |
|---|---|---|---|
| Naphthalene | µg/L | 0.1 | <0.1 |
| 2-methylnaphthalene | µg/L | 0.1 | <0.1 |
| 1-methylnaphthalene | µg/L | 0.1 | <0.1 |
| Acenaphthylene | µg/L | 0.1 | <0.1 |
| Acenaphthene | µg/L | 0.1 | <0.1 |
| Fluorene | µg/L | 0.1 | <0.1 |
| Phenanthrene | µg/L | 0.1 | <0.1 |
| Anthracene | µg/L | 0.1 | <0.1 |
| Fluoranthene | µg/L | 0.1 | <0.1 |
| Pyrene | µg/L | 0.1 | <0.1 |
| Benzo(a)anthracene | µg/L | 0.1 | <0.1 |
| Chrysene | µg/L | 0.1 | <0.1 |
| Benzo(b&j)fluoranthene | µg/L | 0.1 | <0.1 |
| Benzo(k)fluoranthene | µg/L | 0.1 | <0.1 |
| Benzo(a)pyrene | µg/L | 0.1 | <0.1 |
| Indeno(1,2,3-cd)pyrene | µg/L | 0.1 | <0.1 |
| Dibenzo(ah)anthracene | µg/L | 0.1 | <0.1 |
| Benzo(ghi)perylene | µg/L | 0.1 | <0.1 |
| Total PAH (18) | µg/L | 1 | <1 |

| METHOD | METHODOLOGY SUMMARY |
|---|---|
| AN420 | (SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates and Speciated Phenols (etc) in soils, sediments and waters are determined by GCMS/ECD technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D). |
| AN420 | Carcinogenic PAHs may be expressed as Benzo(a)pyrene equivalents by applying the BaP toxicity equivalence factor (NEPM 1999, June 2013, B7). These can be reported as the individual PAHs and as a sum of carcinogenic PAHs. The sum is reported three ways, the first assuming all <LOR results are zero, the second assuming all < LOR results are half the LOR and the third assuming all <LOR results are the LOR. |

FOOTNOTES

| | | | | | |
|---|---|---|---|---|---|
| * | NATA accreditation does not cover the performance of this service. | - | Not analysed. | UOM | Unit of Measure. |
| | | NVL | Not validated. | LOR | Limit of Reporting. |
| ** | Indicative data, theoretical holding time exceeded. | IS | Insufficient sample for analysis. | ↑↓ | Raised/lowered Limit of Reporting. |
| | | LNR | Sample listed, but not received. | | |

Unless it is reported that sampling has been performed by SGS, the samples have been analysed as received.
Solid samples expressed on a dry weight basis.

Where "Total" analyte groups are reported (for example, Total PAHs, Total OC Pesticides) the total will be calculated as the sum of the individual analytes, with those analytes that are reported as <LOR being assumed to be zero. The summed (Total) limit of reporting is calculated by summing the individual analyte LORs and dividing by two. For example, where 16 individual analytes are being summed and each has an LOR of 0.1 mg/kg, the "Totals" LOR will be 1.6 / 2 (0.8 mg/kg). Where only 2 analytes are being summed, the " Total" LOR will be the sum of those two LORs.

Some totals may not appear to add up because the total is rounded after adding up the raw values.

If reported, measurement uncertainty follow the ± sign after the analytical result and is expressed as the expanded uncertainty calculated using a coverage factor of 2, providing a level of confidence of approximately 95%, unless stated otherwise in the comments section of this report.

Results reported for samples tested under test methods with codes starting with ARS-SOP, radionuclide or gross radioactivity concentrations are expressed in becquerel (Bq) per unit of mass or volume or per wipe as stated on the report. Becquerel is the SI unit for activity and equals one nuclear transformation per second.
Note that in terms of units of radioactivity:

a. 1 Bq is equivalent to 27 pCi
b. 37 MBq is equivalent to 1 mCi

For results reported for samples tested under test methods with codes starting with ARS-SOP, less than (<) values indicate the detection limit for each radionuclide or parameter for the measurement system used. The respective detection limits have been calculated in accordance with ISO 11929.

The QC and MU criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: www.sgs.com.au.pv.sgsvr/en-gb/environment.

This document is issued by the Company under its General Conditions of Service accessible at www.sgs.com/en/Terms-and-Conditions.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client only. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law .

This report must not be reproduced, except in full.

# STATEMENT OF QA/QC PERFORMANCE

**SE199654A R0**

## CLIENT DETAILS

| | |
|---|---|
| Contact | Anwar Barbhuyia |
| Client | Geotechnique |
| Address | P.O. Box 880<br>PENRITH NSW 2751 |
| Telephone | 02 4722 2700 |
| Facsimile | 02 4722 6161 |
| Email | anwar@geotech.com.au |
| Project | **14561/1 Penrith - Additional** |
| Order Number | **PE139550** |
| Samples | 9 |

## LABORATORY DETAILS

| | |
|---|---|
| Manager | Huong Crawford |
| Laboratory | SGS Alexandria Environmental |
| Address | Unit 16, 33 Maddox St<br>Alexandria NSW 2015 |
| Telephone | +61 2 8594 0400 |
| Facsimile | +61 2 8594 0499 |
| Email | au.environmental.sydney@sgs.com |
| SGS Reference | **SE199654A R0** |
| Date Received | 27 Nov 2019 |
| Date Reported | 28 Nov 2019 |

## COMMENTS

All the laboratory data for each environmental matrix was compared to SGS' stated Data Quality Objectives (DQO). Comments arising from the comparison were made and are reported below.

The data relating to sampling was taken from the Chain of Custody document.
This QA/QC Statement must be read in conjunction with the referenced Analytical Report.
The Statement and the Analytical Report must not be reproduced except in full.

All Data Quality Objectives were met with the exception of the following:

| | | |
|---|---|---|
| Extraction Date | PAH (Polynuclear Aromatic Hydrocarbons) in Soil | 1 item |
| | PAH (Polynuclear Aromatic Hydrocarbons) in Water | 1 item |

## SAMPLE SUMMARY

# HOLDING TIME SUMMARY

SE199654A R0

SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS “Field Sampling Guide for Containers and Holding Time” (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

## PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN420

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| BH5 | SE199654A.003 | LB188585 | 01 Nov 2019 | 27 Nov 2019 | 15 Nov 2019 | 27 Nov 2019† | 06 Jan 2020 | 28 Nov 2019 |

## PAH (Polynuclear Aromatic Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN420

| Sample Name | Sample No. | QC Ref | Sampled | Received | Extraction Due | Extracted | Analysis Due | Analysed |
|---|---|---|---|---|---|---|---|---|
| RS3 | SE199654A.007 | LB188600 | 01 Nov 2019 | 27 Nov 2019 | 08 Nov 2019 | 28 Nov 2019† | 07 Jan 2020 | 28 Nov 2019 |

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

**PAH (Polynuclear Aromatic Hydrocarbons) in Soil** — Method: ME-(AU)-[ENV]AN420

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| 2-fluorobiphenyl (Surrogate) | BH5 | SE199654A.003 | % | 70 - 130% | 94 |
| d14-p-terphenyl (Surrogate) | BH5 | SE199654A.003 | % | 70 - 130% | 90 |
| d5-nitrobenzene (Surrogate) | BH5 | SE199654A.003 | % | 70 - 130% | 84 |

**PAH (Polynuclear Aromatic Hydrocarbons) in Water** — Method: ME-(AU)-[ENV]AN420

| Parameter | Sample Name | Sample Number | Units | Criteria | Recovery % |
|---|---|---|---|---|---|
| 2-fluorobiphenyl (Surrogate) | RS3 | SE199654A.007 | % | 40 - 130% | 60 |
| d14-p-terphenyl (Surrogate) | RS3 | SE199654A.007 | % | 40 - 130% | 80 |
| d5-nitrobenzene (Surrogate) | RS3 | SE199654A.007 | % | 40 - 130% | 58 |

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

**PAH (Polynuclear Aromatic Hydrocarbons) in Soil** — Method: ME-(AU)-[ENV]AN420

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB188585.001 | | Naphthalene | mg/kg | 0.1 | <0.1 |
| | | 2-methylnaphthalene | mg/kg | 0.1 | <0.1 |
| | | 1-methylnaphthalene | mg/kg | 0.1 | <0.1 |
| | | Acenaphthylene | mg/kg | 0.1 | <0.1 |
| | | Acenaphthene | mg/kg | 0.1 | <0.1 |
| | | Fluorene | mg/kg | 0.1 | <0.1 |
| | | Phenanthrene | mg/kg | 0.1 | <0.1 |
| | | Anthracene | mg/kg | 0.1 | <0.1 |
| | | Fluoranthene | mg/kg | 0.1 | <0.1 |
| | | Pyrene | mg/kg | 0.1 | <0.1 |
| | | Benzo(a)anthracene | mg/kg | 0.1 | <0.1 |
| | | Chrysene | mg/kg | 0.1 | <0.1 |
| | | Benzo(a)pyrene | mg/kg | 0.1 | <0.1 |
| | | Indeno(1,2,3-cd)pyrene | mg/kg | 0.1 | <0.1 |
| | | Dibenzo(ah)anthracene | mg/kg | 0.1 | <0.1 |
| | | Benzo(ghi)perylene | mg/kg | 0.1 | <0.1 |
| | | Total PAH (18) | mg/kg | 0.8 | <0.8 |
| | Surrogates | d5-nitrobenzene (Surrogate) | % | - | 92 |
| | | 2-fluorobiphenyl (Surrogate) | % | - | 96 |
| | | d14-p-terphenyl (Surrogate) | % | - | 88 |

**PAH (Polynuclear Aromatic Hydrocarbons) in Water** — Method: ME-(AU)-[ENV]AN420

| Sample Number | | Parameter | Units | LOR | Result |
|---|---|---|---|---|---|
| LB188600.001 | | Naphthalene | µg/L | 0.1 | <0.1 |
| | | 2-methylnaphthalene | µg/L | 0.1 | <0.1 |
| | | 1-methylnaphthalene | µg/L | 0.1 | <0.1 |
| | | Acenaphthylene | µg/L | 0.1 | <0.1 |
| | | Acenaphthene | µg/L | 0.1 | <0.1 |
| | | Fluorene | µg/L | 0.1 | <0.1 |
| | | Phenanthrene | µg/L | 0.1 | <0.1 |
| | | Anthracene | µg/L | 0.1 | <0.1 |
| | | Fluoranthene | µg/L | 0.1 | <0.1 |
| | | Pyrene | µg/L | 0.1 | <0.1 |
| | | Benzo(a)anthracene | µg/L | 0.1 | <0.1 |
| | | Chrysene | µg/L | 0.1 | <0.1 |
| | | Benzo(a)pyrene | µg/L | 0.1 | <0.1 |
| | | Indeno(1,2,3-cd)pyrene | µg/L | 0.1 | <0.1 |
| | | Dibenzo(ah)anthracene | µg/L | 0.1 | <0.1 |
| | | Benzo(ghi)perylene | µg/L | 0.1 | <0.1 |
| | Surrogates | d5-nitrobenzene (Surrogate) | % | - | 40 |
| | | 2-fluorobiphenyl (Surrogate) | % | - | 46 |
| | | d14-p-terphenyl (Surrogate) | % | - | 76 |

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

**PAH (Polynuclear Aromatic Hydrocarbons) in Soil** — Method: ME-(AU)-[ENV]AN420

| Original | Duplicate | | Parameter | Units | LOR | Original | Duplicate | Criteria % | RPD % |
|---|---|---|---|---|---|---|---|---|---|
| SE199654A.003 | LB188585.024 | | Naphthalene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | 2-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | 1-methylnaphthalene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Acenaphthylene | mg/kg | 0.1 | 0.2 | 0.3 | 70 | 24 |
| | | | Acenaphthene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Fluorene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Phenanthrene | mg/kg | 0.1 | 1.2 | 1.4 | 38 | 21 |
| | | | Anthracene | mg/kg | 0.1 | 0.3 | 0.4 | 63 | 33 |
| | | | Fluoranthene | mg/kg | 0.1 | 2.2 | 2.7 | 34 | 22 |
| | | | Pyrene | mg/kg | 0.1 | 2.0 | 2.5 | 34 | 20 |
| | | | Benzo(a)anthracene | mg/kg | 0.1 | 1.0 | 1.3 | 39 | 30 |
| | | | Chrysene | mg/kg | 0.1 | 1.0 | 1.1 | 39 | 7 |
| | | | Benzo(b&j)fluoranthene | mg/kg | 0.1 | 1.5 | 1.8 | 36 | 19 |
| | | | Benzo(k)fluoranthene | mg/kg | 0.1 | 0.4 | 0.4 | 56 | 10 |
| | | | Benzo(a)pyrene | mg/kg | 0.1 | 1.0 | 1.2 | 39 | 18 |
| | | | Indeno(1,2,3-cd)pyrene | mg/kg | 0.1 | 0.5 | 0.6 | 50 | 18 |
| | | | Dibenzo(ah)anthracene | mg/kg | 0.1 | <0.1 | <0.1 | 200 | 0 |
| | | | Benzo(ghi)perylene | mg/kg | 0.1 | 0.4 | 0.4 | 56 | 16 |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=0 | mg/kg | 0.2 | 1.3 | 1.6 | 24 | 19 |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=LOR/2 | mg/kg | 0.2 | 1.4 | 1.7 | 23 | 18 |
| | | | Carcinogenic PAHs, BaP TEQ <LOR=LOR | mg/kg | 0.3 | 1.4 | 1.7 | 29 | 18 |
| | | | Total PAH (18) | mg/kg | 0.8 | 11 | 14 | 36 | 20 |
| | | Surrogates | d5-nitrobenzene (Surrogate) | mg/kg | - | 0.4 | 0.4 | 30 | 5 |
| | | | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.5 | 0.5 | 30 | 2 |
| | | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.5 | 0.4 | 30 | 2 |

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

### PAH (Polynuclear Aromatic Hydrocarbons) in Soil

Method: ME-(AU)-[ENV]AN420

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB188585.002 | | Naphthalene | mg/kg | 0.1 | 4.2 | 4 | 60 - 140 | 104 |
| | | Acenaphthylene | mg/kg | 0.1 | 4.2 | 4 | 60 - 140 | 104 |
| | | Acenaphthene | mg/kg | 0.1 | 4.4 | 4 | 60 - 140 | 111 |
| | | Phenanthrene | mg/kg | 0.1 | 4.3 | 4 | 60 - 140 | 107 |
| | | Anthracene | mg/kg | 0.1 | 4.2 | 4 | 60 - 140 | 104 |
| | | Fluoranthene | mg/kg | 0.1 | 4.0 | 4 | 60 - 140 | 100 |
| | | Pyrene | mg/kg | 0.1 | 4.2 | 4 | 60 - 140 | 106 |
| | | Benzo(a)pyrene | mg/kg | 0.1 | 4.2 | 4 | 60 - 140 | 105 |
| | Surrogates | d5-nitrobenzene (Surrogate) | mg/kg | - | 0.4 | 0.5 | 40 - 130 | 84 |
| | | 2-fluorobiphenyl (Surrogate) | mg/kg | - | 0.4 | 0.5 | 40 - 130 | 88 |
| | | d14-p-terphenyl (Surrogate) | mg/kg | - | 0.4 | 0.5 | 40 - 130 | 84 |

### PAH (Polynuclear Aromatic Hydrocarbons) in Water

Method: ME-(AU)-[ENV]AN420

| Sample Number | | Parameter | Units | LOR | Result | Expected | Criteria % | Recovery % |
|---|---|---|---|---|---|---|---|---|
| LB188600.002 | | Naphthalene | µg/L | 0.1 | 25 | 40 | 60 - 140 | 62 |
| | | Acenaphthylene | µg/L | 0.1 | 32 | 40 | 60 - 140 | 81 |
| | | Acenaphthene | µg/L | 0.1 | 26 | 40 | 60 - 140 | 66 |
| | | Phenanthrene | µg/L | 0.1 | 34 | 40 | 60 - 140 | 85 |
| | | Anthracene | µg/L | 0.1 | 31 | 40 | 60 - 140 | 78 |
| | | Fluoranthene | µg/L | 0.1 | 33 | 40 | 60 - 140 | 83 |
| | | Pyrene | µg/L | 0.1 | 35 | 40 | 60 - 140 | 88 |
| | | Benzo(a)pyrene | µg/L | 0.1 | 32 | 40 | 60 - 140 | 81 |
| | Surrogates | d5-nitrobenzene (Surrogate) | µg/L | - | 0.2 | 0.5 | 40 - 130 | 46 |
| | | 2-fluorobiphenyl (Surrogate) | µg/L | - | 0.3 | 0.5 | 40 - 130 | 64 |
| | | d14-p-terphenyl (Surrogate) | µg/L | - | 0.4 | 0.5 | 40 - 130 | 78 |

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

| QC Sample | Sample Number | Parameter | Units | LOR |
|---|---|---|---|---|

Matrix spike duplicates are calculated as Relative Percent Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The original result is the analyte concentration of the matrix spike. The Duplicate result is the analyte concentration of the matrix spike duplicate.

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

No matrix spike duplicates were required for this job.

Samples analysed as received.

Solid samples expressed on a dry weight basis.

QC criteria are subject to internal review according to the SGS QA/QC plan and may be provided on request or alternatively can be found here: https://www.sgs.com.au/~/media/Local/Australia/Documents/ Technical Documents/MP-AU-ENV-QU-022 QA QC Plan.pdf

| | |
|---|---|
| * | NATA accreditation does not cover the performance of this service. |
| ** | Indicative data, theoretical holding time exceeded. |
| - | Sample not analysed for this analyte. |
| IS | Insufficient sample for analysis. |
| LNR | Sample listed, but not received. |
| LOR | Limit of reporting. |
| QFH | QC result is above the upper tolerance. |
| QFL | QC result is below the lower tolerance. |

| | |
|---|---|
| ① | At least 2 of 3 surrogates are within acceptance criteria. |
| ② | RPD failed acceptance criteria due to sample heterogeneity. |
| ③ | Results less than 5 times LOR preclude acceptance criteria for RPD. |
| ④ | Recovery failed acceptance criteria due to matrix interference. |
| ⑤ | Recovery failed acceptance criteria due to the presence of significant concentration of analyte (i.e. the concentration of analyte exceeds the spike level). |
| ⑥ | LOR was raised due to sample matrix interference. |
| ⑦ | LOR was raised due to dilution of significantly high concentration of analyte in sample. |
| ⑧ | Reanalysis of sample in duplicate confirmed sample heterogeneity and inconsistency of results. |
| ⑨ | Recovery failed acceptance criteria due to sample heterogeneity. |
| ⑩ | LOR was raised due to high conductivity of the sample (required dilution). |
| † | Refer to Analytical Report comments for further information. |

This document is issued by the Company under its General Conditions of Service accessible at www.sgs.com/en/Terms-and-Conditions.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client only. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

This test report shall not be reproduced, except in full.

# GEOTECHNIQUE PTY LTD

1 LEMKO PLACE PENRITH NSW 2750 Tel: (02) 4722 2700

## CHAIN OF CUSTODY

**Results Required By:** 24 hrs **Date:** Thursday, 28 November 2019

**Except pH Results Required By** **Date:**

**Your Reference No.:** SE199654

TO: SGS
UNIT 16, 33 MADDOX STREET
ALEXANDRIA NSW 2015
Tel: 02 8594 0400

Sampled By: **RI** Ref No: **14561/1** Project Manager: **ANWAR BARBHUYIA**

Location: **Penrith**

| Location | Depth (m) | Date | Soil | Water | Material | Metals As Cd Cr Cu Pb Hg Ni Zn | pH | CEC | CL8 TRH BTEX PAH | CL10 **Metals*** TRH BTEX PAH | CL16 Metals* TRH BTEX PAH **OC PCB** | Be B Co Mn Se | Mn | Asbestos 0.001% w/w | Asbestos | BTEX | TRH & BTEX | PAH | OCP | OCP & PCB | Phenol | Cyanide | VOC | OCP OPP & PCB |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BH3 | 1.75-1.85 | 31/10/19 | G | | Clay | | | | | | | | | | | | | | | | | | | |
| BH4 | 0.25-0.4 | 01/11/19 | G | | Clay | | | | | | | | | | | | | | | | | | | |
| BH5 | 0.55-0.7 | 01/11/19 | GP | | Clay | | | | | | | | | | | | | | | | | | | |
| BH5 | 1.05-1.2 | 01/11/19 | GP | | Clay | | | | | | | | | | | | | ✓ | | | | | | |
| BH5 | 1.55-1.7 | 01/11/19 | GP | | Clay | | | | | | | | | | | | | | | | | | | |
| BH5 | 2.55-2.7 | 01/11/19 | GP | | Clay | | | | | | | | | | | | | | | | | | | |
| BH5 | 3.55-3.7 | 01/11/19 | GP | | Clay | | | | | | | | | | | | | | | | | | | |
| BH5 | 3.85-3.95 | 01/11/19 | G | | Clay | | | | | | | | | | | | | | | | | | | |
| DSS2 | | 01/11/19 | G | | | | | | | | | | | | | | | | | | | | | |
| RS3 | | 01/11/19 | | WG/Vial | | | | | | | | | | | | | | ✓ | | | | | | |
| TS3 | | | | | Sand | | | | | | | | | | | | | | | | | | | |

| Relinquished by | | | Received by | | |
|---|---|---|---|---|---|
| Name | Signature | Date | Name | Signature | Date |
| **ANWAR BARBHUYIA** | AB | **27/11/19** | | | |

WG: Water sample (glass bottle) G Soil sample (glass jar) FCP Fibro Cement Piece (plastic bag) *: As,Cd,Cr,Cu,Pb,Hg,Ni & Zn (8 metals)

WP: Water sample (plastic bottle) P Soil sample (plastic bag) ✓ Test required

# SAMPLE RECEIPT ADVICE

SE199654A

## CLIENT DETAILS

| | |
|---|---|
| Contact | Anwar Barbhuyia |
| Client | Geotechnique |
| Address | P.O. Box 880<br>PENRITH NSW 2751 |
| Telephone | 02 4722 2700 |
| Facsimile | 02 4722 6161 |
| Email | anwar@geotech.com.au |
| Project | **14561/1 Penrith - Additional** |
| Order Number | **PE139550** |
| Samples | 9 |

## LABORATORY DETAILS

| | |
|---|---|
| Manager | Huong Crawford |
| Laboratory | SGS Alexandria Environmental |
| Address | Unit 16, 33 Maddox St<br>Alexandria NSW 2015 |
| Telephone | +61 2 8594 0400 |
| Facsimile | +61 2 8594 0499 |
| Email | au.environmental.sydney@sgs.com |
| Samples Received | Wed 27/11/2019 |
| Report Due | Thu 28/11/2019 |
| SGS Reference | **SE199654A** |

## SUBMISSION DETAILS

This is to confirm that 9 samples were received on Wednesday 27/11/2019. Results are expected to be ready by COB Thursday 28/11/2019.
Please quote SGS reference SE199654A when making enquiries. Refer below for details relating to sample integrity upon receipt.

| | | | |
|---|---|---|---|
| Samples clearly labelled | Yes | Complete documentation received | Yes |
| Sample container provider | SGS | Sample cooling method | None |
| Samples received in correct containers | Yes | Sample counts by matrix | 2 Water |
| Date documentation received | 27/11/2019@3:54pm | Type of documentation received | COC |
| Number of eskies/boxes received | None | Samples received in good order | Yes |
| Samples received without headspace | Yes | Sample temperature upon receipt | 22°C |
| Sufficient sample for analysis | Yes | Turnaround time requested | 24hrs |

Unless otherwise instructed, water and bulk samples will be held for one month from date of report, and soil samples will be held for two months.

## COMMENTS

This document is issued by the Company under its General Conditions of Service accessible at www.sgs.com/en/Terms-and-Conditions.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

# SAMPLE RECEIPT ADVICE

SE199654A

CLIENT DETAILS

Client Geotechnique

Project 14561/1 Penrith - Additional

SUMMARY OF ANALYSIS

| No. | Sample ID | PAH (Polynuclear Aromatic Hydrocarbons) in Soil | PAH (Polynuclear Aromatic Hydrocarbons) in Water |
|---|---|---|---|
| 003 | BH5 1.05-1.2 | 26 | - |
| 007 | RS3 | - | 22 |

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.
The numbers shown in the table indicate the number of results requested in each package.
Please indicate as soon as possible should your request differ from these details .
Testing as per this table shall commence immediately unless the client intervenes with a correction .

**Envirolab Services Pty Ltd**
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

# CERTIFICATE OF ANALYSIS 230041

## Client Details

| | |
|---|---|
| **Client** | Geotechnique Pty Ltd |
| **Attention** | Anwar Barbhuyia |
| **Address** | PO Box 880, Penrith, NSW, 2751 |

## Sample Details

| | |
|---|---|
| **Your Reference** | **14561/1, Penrith** |
| **Number of Samples** | 2 Soil |
| **Date samples received** | 04/11/2019 |
| **Date completed instructions received** | 04/11/2019 |

## 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.

## Report Details

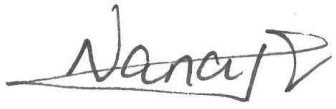
| | |
|---|---|
| **Date results requested by** | 11/11/2019 |
| **Date of Issue** | 07/11/2019 |

NATA Accreditation Number 2901. This document shall not be reproduced except in full.

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

**Results Approved By**
Diego Bigolin, Team Leader, Inorganics
Jaimie Loa-Kum-Cheung, Metals Supervisor
Josh Williams, Senior Chemist

**Authorised By**



Nancy Zhang, Laboratory Manager

| vTRH(C6-C10)/BTEXN in Soil | | |
|---|---|---|
| Our Reference | | 230041-1 |
| Your Reference | UNITS | DSS1 |
| Date Sampled | | 01/11/2019 |
| Type of sample | | Soil |
| Date extracted | - | 05/11/2019 |
| Date analysed | - | 07/11/2019 |
| TRH $C_6$ - $C_9$ | mg/kg | <25 |
| TRH $C_6$ - $C_{10}$ | mg/kg | <25 |
| vTPH $C_6$ - $C_{10}$ less BTEX (F1) | mg/kg | <25 |
| Benzene | mg/kg | <0.2 |
| Toluene | mg/kg | <0.5 |
| Ethylbenzene | mg/kg | <1 |
| m+p-xylene | mg/kg | <2 |
| o-Xylene | mg/kg | <1 |
| naphthalene | mg/kg | <1 |
| Total +ve Xylenes | mg/kg | <3 |
| *Surrogate* aaa-Trifluorotoluene | % | 102 |

| svTRH (C10-C40) in Soil | | |
|---|---|---|
| Our Reference | | 230041-1 |
| Your Reference | UNITS | DSS1 |
| Date Sampled | | 01/11/2019 |
| Type of sample | | Soil |
| Date extracted | - | 05/11/2019 |
| Date analysed | - | 05/11/2019 |
| TRH $C_{10}$ - $C_{14}$ | mg/kg | <50 |
| TRH $C_{15}$ - $C_{28}$ | mg/kg | <100 |
| TRH $C_{29}$ - $C_{36}$ | mg/kg | <100 |
| TRH >$C_{10}$ -$C_{16}$ | mg/kg | <50 |
| TRH >$C_{10}$ - $C_{16}$ less Naphthalene (F2) | mg/kg | <50 |
| TRH >$C_{16}$ -$C_{34}$ | mg/kg | <100 |
| TRH >$C_{34}$ -$C_{40}$ | mg/kg | <100 |
| Total +ve TRH (>C10-C40) | mg/kg | <50 |
| *Surrogate* o-Terphenyl | % | 74 |

| PAHs in Soil | | |
|---|---|---|
| Our Reference | | 230041-1 |
| Your Reference | UNITS | DSS1 |
| Date Sampled | | 01/11/2019 |
| Type of sample | | Soil |
| Date extracted | - | 05/11/2019 |
| Date analysed | - | 06/11/2019 |
| Naphthalene | mg/kg | <0.1 |
| Acenaphthylene | mg/kg | 0.1 |
| Acenaphthene | mg/kg | <0.1 |
| Fluorene | mg/kg | <0.1 |
| Phenanthrene | mg/kg | 0.9 |
| Anthracene | mg/kg | 0.2 |
| Fluoranthene | mg/kg | 2.1 |
| Pyrene | mg/kg | 1.9 |
| Benzo(a)anthracene | mg/kg | 1.0 |
| Chrysene | mg/kg | 0.8 |
| Benzo(b,j+k)fluoranthene | mg/kg | 2 |
| Benzo(a)pyrene | mg/kg | 0.92 |
| Indeno(1,2,3-c,d)pyrene | mg/kg | 0.5 |
| Dibenzo(a,h)anthracene | mg/kg | 0.1 |
| Benzo(g,h,i)perylene | mg/kg | 0.5 |
| Total +ve PAH's | mg/kg | 11 |
| Benzo(a)pyrene TEQ calc (zero) | mg/kg | 1.4 |
| Benzo(a)pyrene TEQ calc(half) | mg/kg | 1.4 |
| Benzo(a)pyrene TEQ calc(PQL) | mg/kg | 1.4 |
| *Surrogate p*-Terphenyl-d14 | % | 109 |

| Organochlorine Pesticides in soil | | |
|---|---|---|
| Our Reference | | 230041-1 |
| Your Reference | UNITS | DSS1 |
| Date Sampled | | 01/11/2019 |
| Type of sample | | Soil |
| Date extracted | - | 05/11/2019 |
| Date analysed | - | 06/11/2019 |
| alpha-BHC | mg/kg | <0.1 |
| HCB | mg/kg | <0.1 |
| beta-BHC | mg/kg | <0.1 |
| gamma-BHC | mg/kg | <0.1 |
| Heptachlor | mg/kg | <0.1 |
| delta-BHC | mg/kg | <0.1 |
| Aldrin | mg/kg | <0.1 |
| Heptachlor Epoxide | mg/kg | <0.1 |
| gamma-Chlordane | mg/kg | <0.1 |
| alpha-chlordane | mg/kg | <0.1 |
| Endosulfan I | mg/kg | <0.1 |
| pp-DDE | mg/kg | <0.1 |
| Dieldrin | mg/kg | <0.1 |
| Endrin | mg/kg | <0.1 |
| Endosulfan II | mg/kg | <0.1 |
| pp-DDD | mg/kg | <0.1 |
| Endrin Aldehyde | mg/kg | <0.1 |
| pp-DDT | mg/kg | <0.1 |
| Endosulfan Sulphate | mg/kg | <0.1 |
| Methoxychlor | mg/kg | <0.1 |
| Total +ve DDT+DDD+DDE | mg/kg | <0.1 |
| *Surrogate* TCMX | % | 97 |

| PCBs in Soil | | |
|---|---|---|
| Our Reference | | 230041-1 |
| Your Reference | UNITS | DSS1 |
| Date Sampled | | 01/11/2019 |
| Type of sample | | Soil |
| Date extracted | - | 05/11/2019 |
| Date analysed | - | 06/11/2019 |
| Aroclor 1016 | mg/kg | <0.1 |
| Aroclor 1221 | mg/kg | <0.1 |
| Aroclor 1232 | mg/kg | <0.1 |
| Aroclor 1242 | mg/kg | <0.1 |
| Aroclor 1248 | mg/kg | <0.1 |
| Aroclor 1254 | mg/kg | <0.1 |
| Aroclor 1260 | mg/kg | <0.1 |
| Total +ve PCBs (1016-1260) | mg/kg | <0.1 |
| *Surrogate* TCMX | % | 97 |

| Acid Extractable metals in soil | | |
|---|---|---|
| Our Reference | | 230041-1 |
| Your Reference | UNITS | DSS1 |
| Date Sampled | | 01/11/2019 |
| Type of sample | | Soil |
| Date prepared | - | 05/11/2019 |
| Date analysed | - | 05/11/2019 |
| Arsenic | mg/kg | 8 |
| Cadmium | mg/kg | 0.6 |
| Chromium | mg/kg | 14 |
| Copper | mg/kg | 34 |
| Lead | mg/kg | 93 |
| Mercury | mg/kg | 0.3 |
| Nickel | mg/kg | 9 |
| Zinc | mg/kg | 180 |

| Misc Soil - Inorg | | |
|---|---|---|
| Our Reference | | 230041-1 |
| Your Reference | UNITS | DSS1 |
| Date Sampled | | 01/11/2019 |
| Type of sample | | Soil |
| Date prepared | - | 05/11/2019 |
| Date analysed | - | 05/11/2019 |
| Total Phenolics (as Phenol) | mg/kg | <5 |

| Moisture | | |
|---|---|---|
| Our Reference | | 230041-1 |
| Your Reference | UNITS | DSS1 |
| Date Sampled | | 01/11/2019 |
| Type of sample | | Soil |
| Date prepared | - | 05/11/2019 |
| Date analysed | - | 06/11/2019 |
| Moisture | % | 7.1 |

| Method ID | Methodology Summary |
|---|---|
| **Inorg-008** | Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours. |
| **Inorg-031** | Total Phenolics by segmented flow analyser (in line distillation with colourimetric finish).<br>Solids are extracted in a caustic media prior to analysis. |
| **Metals-020** | Determination of various metals by ICP-AES. |
| **Metals-021** | Determination of Mercury by Cold Vapour AAS. |
| **Org-003** | Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID.<br>F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. |
| **Org-003** | Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID.<br><br>F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.<br><br>Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40). |
| **Org-006** | Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD. |
| **Org-006** | Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.<br>Note, the Total +ve PCBs PQL is reflective of the lowest individual PQL and is therefore" Total +ve PCBs" is simply a sum of the positive individual PCBs. |
| **Org-012/017** | Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS and/or GC-MS/MS. |
| **Org-012/017** | Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-MS and/or GC-MS/MS.<br><br>Note, the Total +ve reported DDD+DDE+DDT PQL is reflective of the lowest individual PQL and is therefore simply a sum of the positive individually report DDD+DDE+DDT. |

| Method ID | Methodology Summary |
|---|---|
| Org-012/017 | Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS and/or GC-MS/MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.<br>For soil results:-<br>1. 'EQ PQL'values are assuming all contributing PAHs reported as <PQL are actually at the PQL. This is the most conservative approach and can give false positive TEQs given that PAHs that contribute to the TEQ calculation may not be present.<br>2. 'EQ zero'values are assuming all contributing PAHs reported as <PQL are zero. This is the least conservative approach and is more susceptible to false negative TEQs when PAHs that contribute to the TEQ calculation are present but below PQL.<br>3. 'EQ half PQL'values are assuming all contributing PAHs reported as <PQL are half the stipulated PQL. Hence a mid-point between the most and least conservative approaches above.<br>Note, the Total +ve PAHs PQL is reflective of the lowest individual PQL and is therefore "Total +ve PAHs" is simply a sum of the positive individual PAHs. |
| Org-014 | Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. |
| Org-016 | Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. |
| Org-016 | Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.<br>Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes. |

| QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil | | | | | Duplicate | | | | Spike Recovery % | |
|---|---|---|---|---|---|---|---|---|---|---|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-4 | [NT] |
| Date extracted | - | | | 05/11/2019 | [NT] | [NT] | [NT] | [NT] | 05/11/2019 | [NT] |
| Date analysed | - | | | 07/11/2019 | [NT] | [NT] | [NT] | [NT] | 07/11/2019 | [NT] |
| TRH $C_6$ - $C_9$ | mg/kg | 25 | Org-016 | <25 | [NT] | [NT] | [NT] | [NT] | 105 | [NT] |
| TRH $C_6$ - $C_{10}$ | mg/kg | 25 | Org-016 | <25 | [NT] | [NT] | [NT] | [NT] | 105 | [NT] |
| Benzene | mg/kg | 0.2 | Org-016 | <0.2 | [NT] | [NT] | [NT] | [NT] | 87 | [NT] |
| Toluene | mg/kg | 0.5 | Org-016 | <0.5 | [NT] | [NT] | [NT] | [NT] | 123 | [NT] |
| Ethylbenzene | mg/kg | 1 | Org-016 | <1 | [NT] | [NT] | [NT] | [NT] | 100 | [NT] |
| m+p-xylene | mg/kg | 2 | Org-016 | <2 | [NT] | [NT] | [NT] | [NT] | 107 | [NT] |
| o-Xylene | mg/kg | 1 | Org-016 | <1 | [NT] | [NT] | [NT] | [NT] | 104 | [NT] |
| naphthalene | mg/kg | 1 | Org-014 | <1 | [NT] | [NT] | [NT] | [NT] | [NT] | [NT] |
| *Surrogate* aaa-Trifluorotoluene | % | | Org-016 | 100 | [NT] | [NT] | [NT] | [NT] | 90 | [NT] |

| QUALITY CONTROL: svTRH (C10-C40) in Soil | | | | | | Duplicate | | | Spike Recovery % | |
|---|---|---|---|---|---|---|---|---|---|---|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-4 | [NT] |
| Date extracted | - | | | 05/11/2019 | [NT] | [NT] | [NT] | [NT] | 05/11/2019 | [NT] |
| Date analysed | - | | | 05/11/2019 | [NT] | [NT] | [NT] | [NT] | 05/11/2019 | [NT] |
| TRH $C_{10}$ - $C_{14}$ | mg/kg | 50 | Org-003 | <50 | [NT] | [NT] | [NT] | [NT] | 118 | [NT] |
| TRH $C_{15}$ - $C_{28}$ | mg/kg | 100 | Org-003 | <100 | [NT] | [NT] | [NT] | [NT] | 101 | [NT] |
| TRH $C_{29}$ - $C_{36}$ | mg/kg | 100 | Org-003 | <100 | [NT] | [NT] | [NT] | [NT] | 125 | [NT] |
| TRH >$C_{10}$-$C_{16}$ | mg/kg | 50 | Org-003 | <50 | [NT] | [NT] | [NT] | [NT] | 118 | [NT] |
| TRH >$C_{16}$-$C_{34}$ | mg/kg | 100 | Org-003 | <100 | [NT] | [NT] | [NT] | [NT] | 101 | [NT] |
| TRH >$C_{34}$-$C_{40}$ | mg/kg | 100 | Org-003 | <100 | [NT] | [NT] | [NT] | [NT] | 125 | [NT] |
| *Surrogate* o-Terphenyl | % | | Org-003 | 81 | [NT] | [NT] | [NT] | [NT] | 93 | [NT] |

| QUALITY CONTROL: PAHs in Soil | | | | | | Duplicate | | | Spike Recovery % | |
|---|---|---|---|---|---|---|---|---|---|---|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-4 | [NT] |
| Date extracted | - | | | 05/11/2019 | [NT] | [NT] | [NT] | [NT] | 05/11/2019 | [NT] |
| Date analysed | - | | | 06/11/2019 | [NT] | [NT] | [NT] | [NT] | 06/11/2019 | [NT] |
| Naphthalene | mg/kg | 0.1 | Org-012/017 | <0.1 | [NT] | [NT] | [NT] | [NT] | 106 | [NT] |
| Acenaphthylene | mg/kg | 0.1 | Org-012/017 | <0.1 | [NT] | [NT] | [NT] | [NT] | [NT] | [NT] |
| Acenaphthene | mg/kg | 0.1 | Org-012/017 | <0.1 | [NT] | [NT] | [NT] | [NT] | [NT] | [NT] |
| Fluorene | mg/kg | 0.1 | Org-012/017 | <0.1 | [NT] | [NT] | [NT] | [NT] | 98 | [NT] |
| Phenanthrene | mg/kg | 0.1 | Org-012/017 | <0.1 | [NT] | [NT] | [NT] | [NT] | 102 | [NT] |
| Anthracene | mg/kg | 0.1 | Org-012/017 | <0.1 | [NT] | [NT] | [NT] | [NT] | [NT] | [NT] |
| Fluoranthene | mg/kg | 0.1 | Org-012/017 | <0.1 | [NT] | [NT] | [NT] | [NT] | 98 | [NT] |
| Pyrene | mg/kg | 0.1 | Org-012/017 | <0.1 | [NT] | [NT] | [NT] | [NT] | 100 | [NT] |
| Benzo(a)anthracene | mg/kg | 0.1 | Org-012/017 | <0.1 | [NT] | [NT] | [NT] | [NT] | [NT] | [NT] |
| Chrysene | mg/kg | 0.1 | Org-012/017 | <0.1 | [NT] | [NT] | [NT] | [NT] | 100 | [NT] |
| Benzo(b,j+k)fluoranthene | mg/kg | 0.2 | Org-012/017 | <0.2 | [NT] | [NT] | [NT] | [NT] | [NT] | [NT] |
| Benzo(a)pyrene | mg/kg | 0.05 | Org-012/017 | <0.05 | [NT] | [NT] | [NT] | [NT] | 100 | [NT] |
| Indeno(1,2,3-c,d)pyrene | mg/kg | 0.1 | Org-012/017 | <0.1 | [NT] | [NT] | [NT] | [NT] | [NT] | [NT] |
| Dibenzo(a,h)anthracene | mg/kg | 0.1 | Org-012/017 | <0.1 | [NT] | [NT] | [NT] | [NT] | [NT] | [NT] |
| Benzo(g,h,i)perylene | mg/kg | 0.1 | Org-012/017 | <0.1 | [NT] | [NT] | [NT] | [NT] | [NT] | [NT] |
| *Surrogate p*-Terphenyl-d14 | % | | Org-012/017 | 107 | [NT] | [NT] | [NT] | [NT] | 100 | [NT] |

| QUALITY CONTROL: Organochlorine Pesticides in soil | | | | | | Duplicate | | | Spike Recovery % | |
|---|---|---|---|---|---|---|---|---|---|---|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-4 | [NT] |
| Date extracted | - | | | 05/11/2019 | [NT] | [NT] | [NT] | [NT] | 05/11/2019 | [NT] |
| Date analysed | - | | | 06/11/2019 | [NT] | [NT] | [NT] | [NT] | 06/11/2019 | [NT] |
| alpha-BHC | mg/kg | 0.1 | Org-012/017 | <0.1 | [NT] | [NT] | [NT] | [NT] | 100 | [NT] |
| HCB | mg/kg | 0.1 | Org-012/017 | <0.1 | [NT] | [NT] | [NT] | [NT] | [NT] | [NT] |
| beta-BHC | mg/kg | 0.1 | Org-012/017 | <0.1 | [NT] | [NT] | [NT] | [NT] | 92 | [NT] |
| gamma-BHC | mg/kg | 0.1 | Org-012/017 | <0.1 | [NT] | [NT] | [NT] | [NT] | [NT] | [NT] |
| Heptachlor | mg/kg | 0.1 | Org-012/017 | <0.1 | [NT] | [NT] | [NT] | [NT] | 90 | [NT] |
| delta-BHC | mg/kg | 0.1 | Org-012/017 | <0.1 | [NT] | [NT] | [NT] | [NT] | [NT] | [NT] |
| Aldrin | mg/kg | 0.1 | Org-012/017 | <0.1 | [NT] | [NT] | [NT] | [NT] | 102 | [NT] |
| Heptachlor Epoxide | mg/kg | 0.1 | Org-012/017 | <0.1 | [NT] | [NT] | [NT] | [NT] | 94 | [NT] |
| gamma-Chlordane | mg/kg | 0.1 | Org-012/017 | <0.1 | [NT] | [NT] | [NT] | [NT] | [NT] | [NT] |
| alpha-chlordane | mg/kg | 0.1 | Org-012/017 | <0.1 | [NT] | [NT] | [NT] | [NT] | [NT] | [NT] |
| Endosulfan I | mg/kg | 0.1 | Org-012/017 | <0.1 | [NT] | [NT] | [NT] | [NT] | [NT] | [NT] |
| pp-DDE | mg/kg | 0.1 | Org-012/017 | <0.1 | [NT] | [NT] | [NT] | [NT] | 98 | [NT] |
| Dieldrin | mg/kg | 0.1 | Org-012/017 | <0.1 | [NT] | [NT] | [NT] | [NT] | 108 | [NT] |
| Endrin | mg/kg | 0.1 | Org-012/017 | <0.1 | [NT] | [NT] | [NT] | [NT] | 106 | [NT] |
| Endosulfan II | mg/kg | 0.1 | Org-012/017 | <0.1 | [NT] | [NT] | [NT] | [NT] | [NT] | [NT] |
| pp-DDD | mg/kg | 0.1 | Org-012/017 | <0.1 | [NT] | [NT] | [NT] | [NT] | 96 | [NT] |
| Endrin Aldehyde | mg/kg | 0.1 | Org-012/017 | <0.1 | [NT] | [NT] | [NT] | [NT] | [NT] | [NT] |
| pp-DDT | mg/kg | 0.1 | Org-012/017 | <0.1 | [NT] | [NT] | [NT] | [NT] | [NT] | [NT] |
| Endosulfan Sulphate | mg/kg | 0.1 | Org-012/017 | <0.1 | [NT] | [NT] | [NT] | [NT] | 94 | [NT] |
| Methoxychlor | mg/kg | 0.1 | Org-012/017 | <0.1 | [NT] | [NT] | [NT] | [NT] | [NT] | [NT] |
| *Surrogate* TCMX | % | | Org-012/017 | 90 | [NT] | [NT] | [NT] | [NT] | 105 | [NT] |

| QUALITY CONTROL: PCBs in Soil | | | | | | Duplicate | | | Spike Recovery % | |
|---|---|---|---|---|---|---|---|---|---|---|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-4 | [NT] |
| Date extracted | - | | | 05/11/2019 | [NT] | [NT] | [NT] | [NT] | 05/11/2019 | [NT] |
| Date analysed | - | | | 06/11/2019 | [NT] | [NT] | [NT] | [NT] | 06/11/2019 | [NT] |
| Aroclor 1016 | mg/kg | 0.1 | Org-006 | <0.1 | [NT] | [NT] | [NT] | [NT] | [NT] | [NT] |
| Aroclor 1221 | mg/kg | 0.1 | Org-006 | <0.1 | [NT] | [NT] | [NT] | [NT] | [NT] | [NT] |
| Aroclor 1232 | mg/kg | 0.1 | Org-006 | <0.1 | [NT] | [NT] | [NT] | [NT] | [NT] | [NT] |
| Aroclor 1242 | mg/kg | 0.1 | Org-006 | <0.1 | [NT] | [NT] | [NT] | [NT] | [NT] | [NT] |
| Aroclor 1248 | mg/kg | 0.1 | Org-006 | <0.1 | [NT] | [NT] | [NT] | [NT] | [NT] | [NT] |
| Aroclor 1254 | mg/kg | 0.1 | Org-006 | <0.1 | [NT] | [NT] | [NT] | [NT] | 66 | [NT] |
| Aroclor 1260 | mg/kg | 0.1 | Org-006 | <0.1 | [NT] | [NT] | [NT] | [NT] | [NT] | [NT] |
| *Surrogate* TCMX | % | | Org-006 | 90 | [NT] | [NT] | [NT] | [NT] | 105 | [NT] |

| QUALITY CONTROL: Acid Extractable metals in soil | | | | | | Duplicate | | | Spike Recovery % | |
|---|---|---|---|---|---|---|---|---|---|---|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-4 | [NT] |
| Date prepared | - | | | 05/11/2019 | [NT] | [NT] | [NT] | [NT] | 05/11/2019 | [NT] |
| Date analysed | - | | | 05/11/2019 | [NT] | [NT] | [NT] | [NT] | 05/11/2019 | [NT] |
| Arsenic | mg/kg | 4 | Metals-020 | <4 | [NT] | [NT] | [NT] | [NT] | 109 | [NT] |
| Cadmium | mg/kg | 0.4 | Metals-020 | <0.4 | [NT] | [NT] | [NT] | [NT] | 106 | [NT] |
| Chromium | mg/kg | 1 | Metals-020 | <1 | [NT] | [NT] | [NT] | [NT] | 111 | [NT] |
| Copper | mg/kg | 1 | Metals-020 | <1 | [NT] | [NT] | [NT] | [NT] | 107 | [NT] |
| Lead | mg/kg | 1 | Metals-020 | <1 | [NT] | [NT] | [NT] | [NT] | 113 | [NT] |
| Mercury | mg/kg | 0.1 | Metals-021 | <0.1 | [NT] | [NT] | [NT] | [NT] | 93 | [NT] |
| Nickel | mg/kg | 1 | Metals-020 | <1 | [NT] | [NT] | [NT] | [NT] | 103 | [NT] |
| Zinc | mg/kg | 1 | Metals-020 | <1 | [NT] | [NT] | [NT] | [NT] | 104 | [NT] |

| QUALITY CONTROL: Misc Soil - Inorg | | | | | | Duplicate | | | Spike Recovery % | |
|---|---|---|---|---|---|---|---|---|---|---|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-4 | [NT] |
| Date prepared | - | | | 05/11/2019 | [NT] | [NT] | [NT] | [NT] | 05/11/2019 | [NT] |
| Date analysed | - | | | 05/11/2019 | [NT] | [NT] | [NT] | [NT] | 05/11/2019 | [NT] |
| Total Phenolics (as Phenol) | mg/kg | 5 | Inorg-031 | <5 | [NT] | [NT] | [NT] | [NT] | 99 | [NT] |

## Result Definitions

| | |
|---|---|
| **NT** | Not tested |
| **NA** | Test not required |
| **INS** | Insufficient sample for this test |
| **PQL** | Practical Quantitation Limit |
| **<** | Less than |
| **>** | Greater than |
| **RPD** | Relative Percent Difference |
| **LCS** | Laboratory Control Sample |
| **NS** | Not specified |
| **NEPM** | National Environmental Protection Measure |
| **NR** | Not Reported |

## 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. |

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

## 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: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics 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 sam

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.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 230041

Date Received: 04/11/19
Time Received: 1705
Received by: SB
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

# GEOTECHNIQUE PTY LTD

## Laboratory Test Request / Chain of Custody Record

Lemko Place
PENRITH NSW 2750
Tel: (02) 4722 2700



TO: ENVIROLAB SERVICES PTY LD
12 ASHLEY STREET
CHATSWOOD NSW 2067

PH: 02 9910 6200

ATTN: MS AILEEN HIE

Sampling By: RI
Ref No: 14561/1
Project:
Project Manager: AB
Location: Penrith

**Results required by: NORMAL TURNAROUND TIME**

| Sampling details | | | | Sample type | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Location | Depth (m) | Date | Time | Soil | | METALS As, Cd, Cr, Cu, Pb, Hg, Ni and Zn | TRH & BTEX | PAH | OCP | PCB | PHENOL | CYANIDE | COMBO NO | | |
| DSS1 | 1 | 1/11/2019 | - | G | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | 7 | | |
| DSS2 | 2 | 1/11/2019 | - | G | | | | | | | | | | | |

| Relinquished by | | | Received by | | |
|---|---|---|---|---|---|
| Name | Signature | Date | Name | Signature | Date |
| ANWAR BARBHUYIA | AB | 4/11/2019 | S. Bolton | | 04/11/19 |

Legend:
G Soil sample (glass jar)
P Soil sample (plastic bag)
✓ Test required

**Envirolab Services Pty Ltd**
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

# SAMPLE RECEIPT ADVICE

| Client Details | |
|---|---|
| **Client** | Geotechnique Pty Ltd |
| **Attention** | Anwar Barbhuyia |

| Sample Login Details | |
|---|---|
| **Your reference** | 14561/1, Penrith |
| **Envirolab Reference** | 230041 |
| **Date Sample Received** | 04/11/2019 |
| **Date Instructions Received** | 04/11/2019 |
| **Date Results Expected to be Reported** | 11/11/2019 |

| Sample Condition | |
|---|---|
| **Samples received in appropriate condition for analysis** | Yes |
| **No. of Samples Provided** | 2 Soil |
| **Turnaround Time Requested** | Standard |
| **Temperature on Receipt (°C)** | 16.1 |
| **Cooling Method** | Ice Pack |
| **Sampling Date Provided** | YES |

| Comments |
|---|
| Nil |

Please direct any queries to:

| Aileen Hie | Jacinta Hurst |
|---|---|
| **Phone: 02 9910 6200** | **Phone: 02 9910 6200** |
| **Fax: 02 9910 6201** | **Fax: 02 9910 6201** |
| **Email: ahie@envirolab.com.au** | **Email: jhurst@envirolab.com.au** |

*Analysis Underway, details on the following page:*

**Envirolab Services Pty Ltd**
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

| Sample ID | vTRH(C6-C10)/BTEXN in Soil | svTRH (C10-C40) in Soil | PAHs in Soil | Organochlorine Pesticides in soil | PCBsin Soil | Acid Extractable metalsin soil | Misc Soil - Inorg | On Hold |
|---|---|---|---|---|---|---|---|---|
| DSS1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| DSS2 | | | | | | | | ✓ |

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

## Additional Info

| |
|---|
| Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt. |
| Requests for longer term sample storage must be received in writing. |
| Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default. |
| TAT for Micro is dependent on incubation. This varies from 3 to 6 days. |

**APPENDIX J**

---

**UNEXPECTED FINDS MANAGEMENT PROTOCOL**

GEOTECHNIQUE® PTY LTD

ABN 64 002 841 063

# UNEXPECTED FINDS MANAGEMENT PROTOCOL

## Lot 1 in DP771927
## 61-79 HENRY STREET, PENRITH

In the event that unexpected finds and/or suspect materials (identified by unusual staining, odour, discolouration or inclusions such as building rubble, asbestos sheeting/pieces/pipes, ash material, imported fill, etc.) are encountered during future earthworks/demolitions or in between sampling locations, the following actions are to be undertaken.

**Management of unexpected finds and/or suspect materials**
If unexpected finds and/or suspect materials are encountered:

- Works are to be ceased.
- An Environmental consultant is to be engaged to take appropriate sampling and testing of contaminants of potential concern at a nominated rate in accordance with current NSW EPA guidelines.
- If contamination is identified, the contaminated materials must be disposed of at an EPA licensed landfill facility with an appropriate waste classification.

**Management of bonded asbestos containing material (ACM)**
If ACM is encountered, the following measures are implemented:

- Engage a Class B Licence for bonded asbestos contractor.
- Removal of the asbestos waste must be carried out in accordance with the requirements of the regulators, such as SafeWork NSW and NSW EPA.
- Competent personnel or a SafeWork NSW Licensed Asbestos Assessor or a Professional Hygienist should be engaged to provide a clearance certificate.

**Management of friable asbestos within the soil**
It is recommended that the following measures are implemented if friable asbestos is encountered:

- Engage a Class A licensed contractor for friable asbestos
- Removal of the asbestos waste must be carried out in accordance with the requirements of the regulators, such as SafeWork NSW and NSW EPA
- A SafeWork NSW Licensed Asbestos Assessor or a Professional Hygienist must be engaged to provide a clearance certificate

Lemko Place, Penrith NSW 2750 PO Box 880, Penrith NSW 2751
Telephone (02) 4722 2700
e-mail: info@geotech.com.au www.geotech.com.au

**APPENDIX K**

---

**ENVIRONMENTAL NOTES**

# IMPORTANT INFORMATION REGARDING YOUR ENVIRONMENTAL SITE ASSESSMENT

These notes have been prepared by Geotechnique Pty Ltd, using guidelines prepared by the ASFE (Associated Soil and Foundation Engineers). The notes are offered to assist in the interpretation of your environmental site assessment report.

## REASONS FOR AN ENVIRONMENTAL ASSESSMENT

Environmental site assessments are typically, though not exclusively, performed in the following circumstances:

- As a pre-acquisition assessment on behalf of either a purchaser or a vendor, when a property is to be sold
- As a pre-development assessment, when a property or area of land is to be redeveloped, or the land use has changed e.g. from a factory to a residential subdivision
- As a pre-development assessment of greenfield sites, to establish baseline conditions and assess environmental, geological and hydrological constraints to the development of e.g. a landfill
- As an audit of the environmental effects of previous and present site usage

Each circumstance requires a specific approach to the assessment of soil and groundwater contamination. In all cases the objective is to identify and if possible quantify the risks that unrecognised contamination poses to the ongoing proposed activity. Such risks may be both financial (clean-up costs or limitations in site use) and physical (health risks to site users or the public).

## ENVIRONMENTAL SITE ASSESSMENT LIMITATIONS

Although information provided by an environmental site assessment can reduce exposure to the risk of the presence of contamination, no environmental site assessment can eliminate the risk. Even a rigorous professional assessment may not detect all contamination within a site. Contaminants may be present in areas that were not surveyed or sampled, or may migrate to areas which did not show signs of contamination when sampled. Contaminant analysis cannot possibly cover every type of contaminant that may occur; only the most likely contaminants are screened.

## AN ENVIRONMENTAL SITE ASSESSMENT REPORT IS BASED ON A UNIQUE SET OF PROJECT SPECIFIC FACTORS

In the following events and in order to avoid cost problems, you should ask your consultant to assess any changes in the conclusion and recommendations made in the assessment:

- When the nature of the proposed development is changed e.g. if a residential development is proposed, rather than a commercial development
- When the size or configuration of the proposed development is altered e.g. if a basement is added
- When the location or orientation of the proposed structure is modified
- When there is a change of land ownership, or
- For application to an adjacent site

## ENVIRONMENTAL SITE ASSESSMENT FINDINGS ARE PROFESSIONAL ESTIMATES

Site assessment identifies actual sub-surface conditions only at those points where samples are taken, when they are taken. Data obtained from the sampling and subsequent laboratory analyses are interpreted by geologists, engineers or scientists and opinions are drawn about the overall sub-surface conditions, the nature and extent of contamination, the likely impact on any proposed development and appropriate remediation measures. Actual conditions may differ from those inferred, because no professional, no matter how qualified and no sub-surface exploration program, no matter how comprehensive, can reveal what is hidden by earth, rock and time. The actual interface between materials may be far more gradual or abrupt than an assessment indicates. Actual conditions in areas not sampled may differ from predictions. Nothing can be done to prevent the unanticipated, however, steps can be taken to help minimise the impact. For this reason site owners should retain the services of their consultants throughout the development stages of the project in order to identify variances, conduct additional tests that may be necessary and to recommend solutions to problems encountered on site.

Soil and groundwater contamination is a field in which legislation and interpretation of legislation by government departments is changing rapidly. Whilst every attempt is made by Geotechnique Pty Ltd to be familiar with current policy, our interpretation of the investigation findings should not be taken to be that of the relevant authority. When approval from a statutory authority is required for a project, approval should be directly sought.

**STABILITY OF SUB-SURFACE CONDITIONS**

Sub-surface conditions can change by natural processes and site activities. As an environmental site assessment is based on conditions existing at the time of the investigation, project decisions should not be based on environmental site assessment data that may have been affected by time. The consultant should be requested to advise if additional tests are required.

**ENVIRONMENTAL SITE ASSESSMENTS ARE PERFORMED FOR SPECIFIC PURPOSES AND CLIENTS**

Environmental site assessments are prepared in response to a specific scope of work required to meet the specific needs of specific individuals e.g. an assessment prepared for a consulting civil engineer may not be adequate to a construction contractor or another consulting civil engineer.

An assessment should not be used by other persons for any purpose or by the client for a different purpose. No individual, other than the client, should apply an assessment, even for its intended purpose, without first conferring with the consultant. No person should apply an assessment for any purpose other than that originally contemplated, without first conferring with the consultant.

**MISINTERPRETATION OF ENVIRONMENTAL SITE ASSESSMENTS**

Costly problems can occur when design professionals develop plans based on misinterpretation of an environmental site assessment. In order to minimise problems, the environmental consultant should be retained to work with appropriate design professionals, to explain relevant findings and to review the adequacy of plans and specifications relative to contamination issues.

**LOGS SHOULD NOT BE SEPARATED FROM THE REPORT**

Borehole and test pit logs are prepared by environmental scientists, engineers or geologists, based upon interpretation of field conditions and laboratory evaluation of field samples. Logs are normally provided in our reports and these would not be redrawn for inclusion in site remediation or other design drawings, as subtle but significant drafting errors or omissions may occur in the transfer process. Photographic reproduction can eliminate this problem, however, contractors can still misinterpret the logs during bid preparation if separated from the text of the assessment. Should this occur, delays and disputes, or unanticipated costs may result.

To reduce the likelihood of borehole and test pit log misinterpretation, the complete assessment should be available to persons or organisations involved in the project, such as contractors, for their use. Denial of such access and disclaiming responsibility for the accuracy of sub-surface information does not insulate an owner from the attendant liability. It is critical that the site owner provides all available site information to persons and organisations, such as contractors.

**READ RESPONSIBILITY CLAUSES CLOSELY**

An environmental site assessment is based extensively on judgement and opinion; therefore, it is necessarily less exact than other disciplines. This situation has resulted in wholly unwarranted claims being lodged against consultants. In order to aid in prevention of this problem, model clauses have been developed for use in written transmittals. These are definitive clauses, designed to indicate consultant responsibility. Their use helps all parties involved recognise individual responsibilities and formulate appropriate action. Some of these definitive clauses are likely to appear in the environmental site assessment and you are encouraged to read them closely. Your consultant will be happy to give full and frank answers to any questions you may have.

GEOTECHNIQUE® PTY LTD

ABN 64 002 841 063

Job No: 14561/1
Our Ref: 14561/1-L1
14 April 2020

BCM Property Real Estate and Development
35/111 Railway Terrace
SCHOFIELDS NSW 2762
Email: matthew@bcmproperty.com.au

Attention: Mr M Bennett

Dear Sir

re: **Proposed Multi Storey Mixed Development**
**Lot 1 in DP771927; 61-79 Henry Street, Penrith**
**Contamination Issue**

Preliminary contamination assessment (PCA) (Report Ref: 14561/1-AA dated 2 December 2019) for the above site, carried out by Geotechnique Pty Ltd, revealed asbestos contamination in the fill profile at one location (BH3) and elevated Benzo(a)Pyrene (an isomer of PAH) concentrations in the fill profile at another location (BH5), as shown on the attached Drawing No 14561/1-AA2. Asbestos presents a risk of harm to human health, whilst elevated Benzo(a)Pyrene concentrations might impact on terrestrial ecosystem.

In response to point 22 of attached Council letter regarding planning proposal for the above site (Ref: ECM 9084385 dated 1 April 2020), please note that asbestos contamination at BH3 does not require immediate action as no respirable fibre is detected in any analysed soil sample, as mentioned in the SGS Analytical Report SE199558 (page 430 of 531 of PCA Report 14561/1-AA). Moreover, the soil at BH3 is currently covered with concrete.

We recommend to carry out detailed sampling at the vicinity of BH3 and BH5 to delineate the extent of asbestos and PAH contamination after demolition and removal of hardstand and buildings from the site plus additional sampling and testing of soils at 21 locations in the remainder of the site to satisfy EPA sampling guidelines for 1.62ha. Based on the further assessment, a remedial action plan will be prepared to remediate asbestos and/or PAH contaminated fill materials plus any other contamination identified through the recommended additional sampling and testing, followed by appropriate validation.

As asbestos was detected in the soil beneath the concrete layer at one location, we recommend to use appropriate personal protective equipment (PPE) for all workers to be involved in the demolition and removal of the hardstand and buildings from the site and no public should be allowed to enter the site during demolitions and removal of hardstand and buildings from the site. All site visitors must wear appropriate PPE during demolition and removal works. Air monitoring for asbestos will be required during demolition works.

If you have any questions, please do not hesitate to contact the undersigned.

Yours faithfully
GEOTECHNIQUE PTY LTD



ANWAR BARBHUYIA
Senior Associate
B.E (Civil), MEngSc (Enviro), MIEAust

Attached: Drawing No 14561/1-AA2 (Locations of Concern)
Council Letter




Imagery ©2019 NearMap.com

N

| Sample Location | Depth (m) | Contaminant | Concentration |
|---|---|---|---|
| BH3 | 0.1-0.25 | Asbestos (<7mm AF/FA) | **0.004% w/w** |
| BH5 | 0.55-0.7 | Benzo(a)Pyrene (BaP) | **1.9mg/kg** |
| BH5 | 1.05-1.2 | BaP | **1.0mg/kg** |
| **Assessment Criteria** | **0.04% w/w** for ACM in soil for residential land use<br>**0.001% w/w** for AF & FA in soil<br>**No visual asbestos (ACM)** for surface soil<br>BaP = **0.7mg/kg** (ESL- Fine-grained soil) | | |

Notes:

ACM: Asbestos Containing Material

AF / FA: Asbestos Fine / Fibrous Asbestos

ESL : Ecological Screening Level for urban residential land use

LEGEND

Slope

0 15 30 45 60 75m

Scale 1:1500

GEOTECHNIQUE® PTY LTD
PO Box 880
Penrith NSW 2750
Tel: 02 4722 2700
Fax: 02 4722 2777
e-mail:info@geotech.com.au
www.geotech.com.au

NOTES

1. Site features are indicative and are not to scale.
2. This drawing has been produced using a base plan provided by others to which additional information e.g test pits, borehole locations or notes have been added. Some or all of the plan may not be relevant at the time of producing this drawing

J Wyndham Prince Pty Ltd
Proposed Multi Storey Mixed Development
61-79 Henry Street
Penrith

Locations of Concern

Drawing No: 14561/1-AA2
Job No: 14561/1
Drawn By: MH
Date: 2 December 2019
Checked By: AB

File No: 14561-1
Layers: 0, AA2