

Report on Preliminary Site Investigation

Proposed Aged Care Facility Redevelopment 1 – 11 Emerald Street Emu Plains NSW

Prepared for Uniting Care Ageing

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Integrated Practical Solutions



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The undersigned, on behalf of Douglas Partners Pty Ltd, confirm that this document and all attached drawings, logs and test results have been checked and reviewed for errors, omissions and inaccuracies.

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Abbreviations

ABC ambient background concentration

ACL added contaminant limits

AEC area of environmental concern

As arsenic

BaP benzo(a)pyrene

BaP TEQ benzo(a)pyrene toxic equivalent

bgl below ground level

BTEX benzene, toluene, ethyl benzene, xylenes

Cd cadmium

CLM Act Contaminated Land Management Act

COC chain of custody

Cr chromium

Cr(III) chromium with oxidation state III (stable in normal environments)

Cr(VI) chromium with oxidation state VI (typically not stable in normal environments)

CRC Care Co-operative Research Centre for Contamination Assessment and Remediation of the

Environment

CSM conceptual site model

Cu copper

DA development application

DCE dichlororethene

DDD dichlorodiphenyldichloroethane
DDE dichlorodiphenyldichloroethylene
DDT dichlorodiphenyltrichloroethane

DECCW NSW Department of Environment, Climate Change and Water (now superceded)

DP Douglas Partners
D.P. Deposited Plan
DQI data quality indicator
DQO data quality objective

DSI detailed site (contamination) investigation

EIL ecological investigation levels
ELS Envirolab Services Pty Ltd

EPA NSW Environment Protection Authority

ESL ecological screening level
F1 TPH fraction C6-C10
F2 TPH fraction >C10-C16
F3 TPH fraction >C16-C34
F4 TPH fraction >C34-C40

ha hectares Hg mercury

HIL heath investigation level HSL health screening level

m metre

mg/kg milligrams per kilogram

N/A not applicable

NATA National Association of Testing Authorities
ND(nd) not detected above the practical quantitation limit
NHMRC National Health and Medical Research Council



NEPC National Environment Protection Council

NEPM National Environmental Protection (Assessment of Site Contamination) Measure

Ni nickel NL not limiting

OCP organochlorine pesticides

OEH NSW Office of Environment and Heritage

PAH polycyclic aromatic hydrocarbons

Pb Lead

PCB polychlorinated biphenyls

pH unit measure of acidity/ alkalinity

PID photoionisation detector

POEO Act Protection of the Environment Operations Act

PSI preliminary site investigation PQL practical quantitation limit

QA quality assurance

QA/QC quality assurance/ quality control

QC quality control

RPD relative percentage difference

SAC site assessment criteria

SAQP sampling and analysis quality plan

TEQ toxicity equivalency quotient
TPH total petroleum hydrocarbons
TRH total recoverable hydrocarbons

US EPA United States Environmental Protection Agency

VOC volatile organic compounds

Zn zinc % percent < less than

≤ equal to or less than

> greater than

≥ equal to or greater than



Executive Summary

This report presents the results of a preliminary site investigation (PSI) for contamination undertaken for a proposed redevelopment of an existing aged care facility at 1 – 11 Emerald Street, Emu Plains NSW (the 'Site'). The investigation was undertaken in accordance with Douglas Partners' proposal dated 10 September 2014.

The brief provided by the client indicates that the new development may include up to three levels of residential aged care bed facilities, individual living units and support facilities. Up to one basement level is being considered, although not confirmed, as well as associated paving and landscaping reconfigurations.

The objectives of the PSI were to assess the potential for contamination of the site based on past and present site uses, provide preliminary soil contamination information, and to comment on the need for further investigation and/or management of contamination (if required).

The site is identified as Lot 16 in deposited plan 232740, Lot 1 in deposited plan 650543, Lot 9 in deposited plan 230580 and Lots 3 and 4 in deposited plan 758387. The street address is 1 – 11 Emerald Street, Emu Plains NSW, and is located approximately 57 km west of the Sydney CBD. The site is located within Penrith City Council local government area (LGA), Parish of Strathdon, County of Cook. The site is an irregular shaped parcel covering an area of approximately 1.8 ha.

Reference to the Sydney 1:100 000 Geological Series Sheet indicates that the site is underlain by Quaternary Sediments of the Cranebrook Formation. This is a fluvial deposit comprising sand, silt and clay. The site is relatively flat. The anticipated groundwater flow direction is to the south, south east towards the Nepean River.

The desktop study identified that the site has been used as a market garden/open space until sometime during the 1970s, after which the site was developed into an aged care facility. A church (Emu Plains Uniting Church) has been present on the eastern portion of the site since the early 1800s.

The potential sources of contamination at the site have been identified as fill (likely to be minimal), asbestos and lead paint used in construction materials, and possible pesticides used throughout landscaped and former market gardening areas. There appeared to overall be a low potential for contamination across the site as a result of the desktop study. It is also noted that no regulatory notices existed for the site under any of the publically accessible databases or matters arising under the CLM Act.

A total of eight (8) bores were drilled systematically across the accessible areas of the site in order to recover soil samples for chemical testing. All results for the soil analysis were within the adopted site assessment criteria (SAC). One location (BH3/0.2) had a detectable level of TPH C16-34 and C34-40, but was within the adopted SAC. No ACM or fibres in soil were found during the investigation.

The PSI consisted of a limited sampling programme and did not include sample points within the footprints of the existing buildings. Prior to any redevelopment works DP recommends that a Detailed Site Investigation (DSI) be undertaken following the demolition of the existing buildings. The objective of the DSI would be primarily to assess post-demolition surface conditions (e.g. presence of asbestos) and to more comprehensively assess the nature of the fill beneath the buildings.



It is concluded that the site is suitable for continued use as a residential aged care facility, and would be suitable for the proposed development subject to implementation of the above recommendation.



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Preliminary Site Investigation Aged Care Facility Redevelopment 1 – 11 Emerald Street, Emu Plains NSW

1. Introduction

This report presents the results of a preliminary site investigation (PSI) for contamination undertaken for a proposed redevelopment of an existing aged care facility at 1 – 11 Emerald Street, Emu Plains NSW (the 'Site'). The investigation was commissioned by Mr John Phillpott of Uniting Care Ageing (the 'Client') and was undertaken in accordance with Douglas Partners' proposal dated 10 September 2014.

The brief provided by the client indicates that the new development may include up to three levels of residential aged care bed facilities, individual living units and support facilities. Up to one basement level is being considered, although not confirmed, as well as associated paving and landscaping reconfigurations. It is understood that the site covers an approximate area of 1.8 hectares (ha).

The objectives of the PSI were to assess the potential for contamination of the site based on past and present site uses, and to comment on the need for further investigation and/or management of contamination (if required).

The investigation included utilisation of information and samples collected from eight soil bores conducted as part of a combined environmental and geotechnical investigation. The geotechnical investigation has been reported separately (DP project 84503.00, Geotechnical Investigation). The details of the environmental fieldwork and findings of the PSI are presented in this report together with comments and recommendations.

2. Scope of Works

The scope of the PSI involved a desktop study and site walkover to identify potential contaminants of concern (presented in Sections 3-8 of this report) and limited intrusive fieldwork for assessment of actual contaminant levels in soil (presented in Sections 9-12 of this report). The works comprised the following:

2.1 Desktop Study and Site Walkover

- Identification of the property street address and property descriptions(s), name and address of the owner:
- Search of the current and historical titles and deposited plans to identify previous owners and associated potentially contaminating activities;
- Review of historical aerial photographs;



- Search of the contaminated lands register for notices issued under the Contaminated Lands
 Management Act 1997 (the CLM Act), and the public register of notices and licences issued
 under the Protection of the Environment Operations Act 1997 (POEO Act);
- Conduct a search of the NSW Office of Water database for groundwater bores in the vicinity of the site;
- Search the WorkCover database records of any current or historical Dangerous Goods Licences;
- Obtain and review Section 149 (2) and (5) planning certificates for the lots that form the site; and
- Review general site information, including geographical and hydrogeological information.

2.2 Fieldwork

- Conduct a site walkover and record observations:
- Utilise two geotechnical bores to collect environmental soil samples. The bores were extended to a depth of 5.2 m below ground level (bgl);
- Drilling of an additional six shallow environmental bores using a hand auger to a maximum depth of 1.2 mbgl;
- Collection of soil samples from the geotechnical and environmental test bores at broadly regular intervals and based on potential indicators of contamination, such as staining or olfactory signs;
- Screening of all samples using a calibrated photo-ionisation detector (PID) for volatile organic compounds (VOC);
- Despatch of 9 selected samples to a NATA accredited laboratory for analysis of the following contaminants of concern (COC):
 - o Metals (arsenic, cadmium, chromium, copper, lead, mercury, nickel, zinc) 9 samples
 - o Total recoverable hydrocarbons (TRH) 9 samples
 - o Monocyclic aromatic hydrocarbons (benzene, ethylbenzene, toluene, xylenes [BTEX]) 9 samples;
 - o Polycyclic aromatic hydrocarbons (PAH) 9 samples
 - o Phenols 9 samples
 - o Volatile organic compounds (VOC) 2 samples
 - o Organochlorine pesticides (OCP) 9 samples
 - o Asbestos 9 samples
 - QA/QC samples (1 trip spike and 1 trip blank analysed for TRH and BTEX, 1 intra-laboratory replicate analysed for metals and PAH);
- An additional two samples were sent to the laboratory and analysed for electrical conductivity (EC), chlorides and sulphides.



2.3 Reporting

This PSI report has been prepared, detailing the findings of the investigation with limited soil sampling, fieldwork methodology, results of the assessment, a discussion of the analytical results and recommendations for further work (if required). The report has been prepared in general accordance with NSW EPA endorsed guidelines.

3. Site Identification and Location

3.1 Site Identification

The site is identified as Lot 16 in deposited plan 232740, Lot 1 in deposited plan 650543, Lot 9 in deposited plan 230580 and Lots 3 and 4 in deposited plan 758387. The street address is 1 – 11 Emerald Street, Emu Plains NSW. The site is located within Penrith City Council local government area (LGA), Parish of Strathdon, County of Cook. The site is an irregular shaped parcel covering an area of approximately 1.8 ha.

3.2 Site Location

The site is located approximately 57 km west of the Sydney CBD (see site plan, Appendix A). The site is bordered by the Great Western Highway to the north, Emerald Street to the east, Emu Plains primary school to the south and residential and Troy Street to the west.

4. Geology, Topography and Hydrogeology

4.1 Geology and Topography

Reference to the Sydney 1:100 000 Geological Series Sheet indicates that the site is underlain by Quaternary Sediments of the Cranebrook Formation. This is a fluvial deposit comprising sand, silt and clay.

The Department of Lands NSW 2 m Contour Index Map indicates that the site is relatively flat.

4.2 Groundwater

A search of the NSW Office of Water database (previously held by the Department of Natural Resources) was conducted on 2 October 2014 for any registered water bores within a 1 km radius of the site. Work summaries were available for six of the bores and full details are supplied in Appendix B.



Details of the six bores are as follows:

- GW075124 was identified as a test bore for the town water supply, no standing water level (SWL)
 was recorded;
- GW075126 was identified as a monitoring bore, no SWL was recorded;
- GW110572 was identified as a monitoring bore, no SWL was recorded;
- GW110573 was identified as a monitoring bore, no SWL was recorded;
- GW075129 was identified as a monitoring bore, no SWL was recorded;
- GW100011 was identified as a recreational bore, with a SWL of 7.00 m bgl.

The anticipated groundwater flow direction is to the south, south east towards the Nepean River.

4.3 Acid Sulphate Soils

Based on a review of the NSW Acid Sulphate Soils Map the site does not appear to be in an area of potential acid sulphate soils (ASS). No areas of ASS were identified nearby.

5. Site History

A review of the site history was based on historical aerial photographs, historical title deeds, a WorkCover dangerous goods search, a search for regulatory notices (issued under the CLM Act 1997 and POEO Act 1997), and a review of Council's Section 149 (2 and 5) planning certificates.

5.1 Aerial Photograph Record

Historical aeria photographs for the years 1947, 1961, 1970, 1982, 2002 and 2009 were obtained from the NSW Department of Lands Office, Google Earth and SixViewer websites. These photographs were studied in order to identify the likely past uses and changes to the site, particularly those of a potentially contaminating nature. The findings are summarised below and the photographs are provided in Appendix C.

- The site is largely open space and market gardens. A church is located on the eastern boundary, adjacent to Emerald Street. The surrounding area is also largely comprised of market gardens.
- The site and surrounding area is largely unchanged since the 1947 photograph.
- 1970 The market gardens are gone and the site is largely paddock and still contains the church. Market gardens in the surrounding areas are disappearing and a number of buildings have been constructed.



1	982	The aged care facility has been constructed, the church remains. Buildings across the site appear to be low rise. More houses and buildings are located within the surround area.	
2	002	The site is largely covered by buildings and hardstand, with some courtyard and landscaped areas having been added since 1982. The surrounding area appears to be largely residential.	
2	009	The site is largely unchanged since 2002.	

5.2 Historical Title Deed Records

A historical title deeds search was undertaken for the site. Searches were undertaken by Mr Mark Groll of Legal Liaison Searching Services. Tables 1A to 1E below summarises the reported title deed information an possible site uses are indicated. A full copy is provided in Appendix D.

Table 1A: Lot 16, Deposited Plan 232740 (Edinglassie Village)

Date of Acquisition	Registered Proprietor(s) & Occupations	Possible Site Use	
04.10.1876	George Walker (Farmer)	Agricultural/Market Gardens	
(1987 to 1925)	George Warker (Farmer)	/ Ignoditaral/Market Cardens	
09.03.1925	Percy George Walker (Orchardist) - & his	Agricultural/Market Gardens	
(1925 to 1965)	deceased estate	Agricultural/warket Gardens	
21.10.1965	Remyerrin Contracting Dty Limited	Onen Space	
(1965 to 1968)	Benwerrin Contracting Pty Limited	Open Space	
16.08.1968	Kennard E. King & Co Pty Limited	Open Space	
(1968 to 1969)	Refinald E. King & Co Fty Limited	Open Space	
28.07.1969	Caroline Mary Rowlings (Dress Maker)	Onen Space	
(1969 to 1977)	Sheila Eileen King (Married Woman)	Open Space	
10.10.1977	# The Uniting Church in Australia Property	Nursing Home / Retirement	
(1977 to date)	Trust (N.S.W.)	Village / Church	

Denotes Current Registered Proprietor

Leases: - NIL

Easements: 27.09.1972 - Easement for Stormwater Drainage six feet wide (M 809648 & D.P. 556154)



Table 1B: Lot 9, Deposited Plan 230580

Date of Acquisition	Registered Proprietor(s) & Occupations	Possible Site Use	
04.10.1876	George Walker (Farmer)	Agricultural/Market Gardens	
(1987 to 1925)	George Warker (Farmer)	, ignocitardi/ivaricet cardens	
09.03.1925	Percy George Walker (Orchardist) - & his	Agricultural/Market Gardens	
(1925 to 1965)	deceased estate	Agricultural/ivialitet Gardens	
21.10.1965	Popularin Contracting Dtv Limited	Open Space	
(1965 to 1968)	Benwerrin Contracting Pty Limited		
16.08.1968	Kennard E. King & Co Pty Limited	Onen Space	
(1968 to 1969)	Refinald E. King & Co Pty Limited	Open Space	
28.07.1969	Caroline Mary Rowlings (Dress Maker)	Open Space	
(1969 to 1977)	Sheila Eileen King (Married Woman)	Open Space	
10.10.1977	# The Uniting Church in Australia Property	Nursing Home / Retirement	
(1977 to date)	Trust (N.S.W.)	Village / Church	

[#] Denotes Current Registered Proprietor Leases: - NIL Easements: - NIL

Table 1C: Lot 1 Deposited Plan 650543 (Wesleyan Methodist Chapel)

Date of Acquisition	Registered Proprietor(s) & Occupations	Potential Site Use
07.02.1872 (1872 to 1889)	Reverend George Hurst	
23.12.1889 (1889 to 1972)	William Lucas (also others) (Trustees for Church Purposes)	Agricultural/Market Gardens/Church
12.12.1972 (1972 to date)	# Methodist Church (N.S.W.) Property Trust Now # The Uniting Church in Australia Property Trust (N.S.W.)	Nursing Home / Retirement Village / Church

[#] Denotes Current Registered Proprietor Leases: - NIL Easements: - NIL



Table 1D: Lot 3, Deposited Plan 758387 (Edinglassie Retirement Village)

Date of Acquisition	Registered Proprietor(s) & Occupations	Possible Site Use
07.02.1872	Reverend Stephen Rabone	A ani a distributa I/A/a ulcat
(1872 to 1889)	Reverend George Hurst	Agricultural/Market Gardens/Church
	Reverend Benjamin Chapman	Cardens/Orldron
23.12.1889	William Lucas (also others)	Agricultural/Market
(1889 to 1972)	(Trustees for Church Purposes)	Gardens/Church
12.12.1972 (1972 to date)	# Methodist Church (N.S.W.) Property Trust Now # The Uniting Church in Australia Property Trust (N.S.W.)	Nursing Home / Retirement Village / Church

[#] Denotes Current Registered Proprietor Leases: - NIL Easements: - NIL

Table 1E: Lot 4 Section 21 Deposited Plan 758387 (Edinglassie Village)

Date of Acquisition	Registered Proprietor(s) & Occupations	Possible Site Use
27.02.1931	Dedicated for Methodist School Site	Agricultural/Market Gardens/Church
26.05.1931	Henry Lucas (also others)	Agricultural/Market
(1931 to 1931)	(Trustees for Church Purposes)	Gardens/Church
22.06.1931	William Kessell Hall (also others)	Agricultural/Market
(1931 to 1972)	(Trustees for Church Purposes)	Gardens/Church
	# Methodist Church (N.S.W.) Property Trust	
12.12.1972	Now	Nursing Home / Retirement
(1972 to date)	# The Uniting Church in Australia Property Trust (N.S.W.)	Village / Church

Denotes Current Registered Proprietor Leases: - NIL Easements: - NIL

The site has historically been used as agricultural land (largely market gardens / orchards) and as church grounds until the 1970s. The site appears to have then been redeveloped into an aged care home (with the church remaining) during the mid to late 1970s to early 1980s.

5.3 NSW WorkCover Dangerous Goods Database

A search of the NSW WorkCover Dangerous Goods database indicated that no dangerous goods were stored on the site. The WorkCover Certificate is provided in Appendix E.



5.4 Council Section 149 (2 and 5) Planning Certificates

The Section 149 (2 and 5) planning certificates were obtained from Penrith City Council for Lot 16 in DP232740, Lot 1 in DP650543, Lot 9 in DP230580, and Lots 3 and 4 DP758387. The certificates are dated 30 September 2014 and are provided in Appendix F.

The certificates indicate that all five lots are zoned as Zone No. 2(c) Residential (Low-Medium Density). Under the Penrith City Council Local Environment Plan 1998, the objectives of this zone are to:

- To reinforce the importance of natural landscape settings and area with conservation value
- To protect the character of traditional cottage development and streetscapes
- To consolidate population and housing densities
- To expand housing choices by allowing multi-unit housing with a single storey appearance
- To promote a variety of housing types or forms upon the site of each proposed development
- To allow a range of compatible non-residential uses.

In regard to contaminated land, no applicable matters arise under the *Contaminated Land Management Act*, 1997 (CLM Act).

5.5 Regulatory Notices Search

The EPA publishes records of contaminated sites under section 58 of the CLM Act on a public database accessed via the internet. The notices relate to investigation and/or remediation of site contamination considered to be significantly contaminated under the definition in the CLM Act. More specifically the notices cover the following:

- Actions taken by the EPA under sections 15, 17, 19, 21, 23, 26 or 28 of the CLM Act;
- Actions taken by the EPA under sections 35 or 36 of the Environmentally Hazardous Chemicals Act 1985;
- Site audit statements provided to the EPA under section 52 of the CLM Act on sites subject to an in-force remediation order.

A search of the public database on the 13 October 2014 indicated that the subject site is not listed (Appendix G).

It should be noted that the EPA record of notices for contaminated land does not provide a record of all contaminated land in NSW.

There are no properties that have been listed as contaminated sites and notified to the EPA within Emu Plains, however these are significant distance from the site and have no bearing on the contamination status of the site.



The NSW EPA also issues environmental protection licenses under Section 308 of the POEO Act. The register contains:

- Environmental protection licenses;
- Applications for new licenses and to transfer or vary existing licenses;
- Environment protection and noise control licenses;
- Convictions in prosecutions under the POEO Act;
- The result of civil proceedings;
- License review information;
- Exemptions from the provisions of the POEO Act or Regulation;
- Approvals granted under Clause 9 of the POEO (Control of Burning) Regulation;
- Approvals granted under Clause 7a of the POEO (Clean Air) Regulation.

A search of the public register indicates that no license exist for the subject site. Four notices were issued for properties in Emu Plains. These were to:

- Boral Roofing in Mackeller Street for concrete works;
- Rocla Pipeline Products in Old Bathurst Road for concrete works;
- Boral Emu Plains Quarry in Railway Street for crushing, grinding or separating; and
- No Fuss Liquid Waste in Smith Street for non-thermal treatment of hazardous and other waste.

6. Site Inspection

The site walkover was completed by an environmental scientist from DP on 26 September 2014. Key observations from the site walkover are summarised below. Photographs are attached in Appendix G.

- The site was observed to be generally flat with a slight slope towards the south west. Shallow soil
 mounds had been created around the northeast side of the site (presumably for draingage
 purposes) as well as for garden areas around the site (Photo 1);
- An old historic church was noted adjacent Emerald Drive on the east side of site, circa 1800s (Photo 2);
- A plaque on the administration building entrance indicated the site was opened in 1982 (Photo 3);
- The site is an aged care facility which offers varying levels of care from high care to independent premises;
- The site was observed to have a small substation located in the eastern portion of the site, towards Emerald Street (Photo 4, Drawing 1);
- The site had a large amount of stormwater drains throughout its external garden and path areas (Photo 5). All drains were generally observed to be clean without staining. A large underground water or sewer pipe was also observed running along the southern boundary of the site (Photo 6);
- The facility was fitted with a large kitchen (Photo 7). Staff indicated there was no known greasetrap for the kitchen or site. It was indicated, any oils used in fryers etc in the kitchen are changed by an external contractor;



- A workshop was observed in the southwest corner of the site. Staff indicated wood and metal
 works are undertaken in the workshop, however, no access was possible at the time of
 inspection. A Dangerous Goods sign on the door of the workshop indicated storage of flammable
 liquid (Photo 8 and Photo 9);
- Concrete across the site was generally observed to be in good condition with limited staining;
- Chemical stores were observed throughout the facility (Photo 10). No particular chemicals of concern were observed and all chemical stores were in an ordered condition. It was indicated to DP by staff that caustic may be used for cleaning of bed pans however the product could not be confirmed:
- Staff at the site were unaware of any chemical Manifests (or comprehensive list of material safety data sheets) or Hazardous Building Materials Register that exist for the site;
- Although no suspected hazardous building materials were observed, a hazardous building materials inspection was part of the project scope and it is possible given the age of the site that some may exist.

7. Preliminary Conceptual Site Model

A conceptual site model (CSM) is a representation of site-related information regarding contamination sources, receptors and exposure pathways between those sources and receptors. The CSM provides the framework for identifying how a site became contaminated and how potential receptors may be exposed to contamination either in the present or in the future i.e. it enables an assessment of the potential source – pathway – receptor linkages.

7.1 Potential Contamination Sources and Contaminants of Concern

Based on the current investigation, the following potential sources of contamination and associated contaminants of potential concern (COPC) have been identified (Table 2).

Table 2: Potential Contamination Sources and COPC

Potential Source	Description of Potential Contaminating Activity	COPC
Imported fill of unknown origin	Fill may have been used for site levelling and landscaping and was encountered to shallow depths in the bores	Common contaminants associated with fill are metals, TRH, BTEX, PAH, PCB, OCP, OPP, phenol and asbestos
Building Materials	Based on the age of the buildings it is possible that hazardous materials such as asbestos containing materials (ACM) and lead paint may be present	Asbestos, lead



Potential Source	Description of Potential Contaminating Activity	COPC
Market gardens, orchards, grounds and garden maintenance	Pesticides and herbicides may have historically and currently been used on landscaped areas across the site, and during the market gardening period	OCP, OPP, metals
Substation	The substation has the potential to contain PCBs	PCBs
Chemical stores	The sort of chemicals used across the site is unknown, however it is noted that chemical stores exist on the grounds. Chemicals are most likely to be fuels and cleaning agents	Actual chemicals stored are unknown, assume may be caustic in nature for cleaning purposes. TRH, BTEX, PAH, VOC

The identified potential contamination sources (S) are represented as follows:

- S1 Fill
- S2 Building materials
- S3 Pesticide application
- S4 Substation
- S5 Chemicals / fuels

7.2 Potential Receptors

7.2.1 Human Health Receptors

- R1 current site users (workers, visitors and residents of aged care facility)
- R2 construction and maintenance workers
- R3 final end users (workers, visitors and residents of aged care facility)
- R4 land users in adjacent areas (residential and commercial)

7.2.2 Environmental Receptors

- R5 groundwater
- R6 surface water (urban canals draining to the Nepean River)
- R7 ecology



7.3 Potential Pathways

Potential pathways for contamination include the following:

- P1 direct contact with soil (ingestion and dermal)
- P2 inhalation of dust and/or vapours
- P3 leaching of contaminants and vertical migration into groundwater
- P4 Surface water runoff
- P5 lateral migration of groundwater
- P6 direct contact with groundwater (ingestion and dermal)

7.4 Summary of Preliminary CSM

A 'source-pathway-receptor' approach has been used to assess the potential risks of harm being caused to human, water or environmental receptors from contamination sources on or in the vicinity of the site, via exposure pathways. The possible pathways between the above sources (S1 to S5) and receptors (R1 to R7) are provided in Table 3 below.



Table 3: Preliminary Conceptual Site Model

Source	Transport Pathway	Receptor	Risk Management Action Recommended
S1: Fill Metals, TRH, BTEX, PAH, PCB, OCP, OPP, phenol and asbestos S2: Building	P1: Direct contact with soil (ingestion and dermal)	R1: Current site users R2: Construction and maintenance workers R3: Future users R7: Ecology	An intrusive investigation is required to quantify and characterise possible contamination including chemical testing of the soils
Materials Asbestos, lead S3: Pesticides OCP, OPP, metals S4: Substation PCBs	P2: Inhalation of dust and vapours	R1: Current site users R2: Construction and maintenance workers R3: Future users R4: Adjacent land users	An intrusive investigation is required to quantify and characterise possible contamination including chemical testing of the soils and groundwater. Construction also needs to be carried out with minimal dust generation
S5: Chemicals and Fuels TRH, BTEX,	P3: Leaching of contaminants and vertical migration into groundwater	R5: groundwater R6: surface water R7: ecology	An investigation is required to ascertain the actual presence of a source and potential for vertical migration (i.e. soil properties).
PAH, VOC	P4: Surface water runoff	R6: surface water R7: ecology	An investigation is required to assess the potential for surface water to contain contaminants.
	P5: Lateral migration to groundwater	R5: groundwater R7: ecology	An investigation is required to ascertain the actual presence of a source and potential for vertical migration (i.e. soil properties).
	P6: Direct contact with groundwater	R2: Construction and maintenance workers R3: Future users R4: Adjacent I;and users R7: Ecology	An investigation is required to assess whether groundwater at the site is or has the potential to become contaminated.



8. Fieldwork

Due to the preliminary nature of this investigation, the soil sampling programme involved only limited soil sampling and testing at non-targeted locations across accessible areas of the site. The number of samples was not in compliance with the NSW EPA's *Sampling Design Guidelines* 1995 (EPA 1995) for a site of this size, which recommends 27 to 28 sampling locations, as a minimum.

The PSI has been devised broadly in accordance with the seven step data quality objective (DQO) process as specified in Schedule B2 of the *National Environment Protection (Assessment of Site Contamination) Measure* 1999, as amended 2013 (NEPC 2013). The DQO process is outlined in Appendix H. Field and laboratory procedures were assessed against data quality indicators (DQIs) also presented in Appendix H.

8.1 Soil Sampling Locations and Rationale

Environmental fieldwork, including drilling and soil sampling was conducted on the 26 September 2014, simultaneously with DP's geotechnical investigation. The results of the geotechnical investigation are reported separately. Samples were collected from eight boreholes (BH1 – BH8).

Selected soil samples were analysed for a range of COPCs, as described in Section 7. These samples were selected based on site observations (odour, staining etc), PID readings and their location within the subsoil strata (i.e. fill or natural).

Borehole test locations are shown on Drawing 1, Appendix A.

8.2 Drilling Methods

Drilling was undertaken using a truck-mounted drill rig fitted with solid flight augers for two locations, BH1 and BH2 to a maximum depth of 5.2 m bgl, and a hand auger for locations BH3 – BH8 to a maximum depth of 1.2 m bgl. Borehole logs are provided in Appendix I.

The boreholes were backfilled and/or reinstated with concrete.

8.3 Soil Sampling Procedures

Environmental sampling was performed according to standard operating procedures outlined in the DP *Field Procedures Manual*. All sampling data was recorded on borehole logs presented in Appendix I and selected samples for laboratory analysis were recorded on DP chain-of-custody (COC) sheets. The general soil sampling procedure comprised:

- Decontamination of re-useable sampling equipment using a 3% solution of phosphate free detergent (Decon 90) and distilled water prior to collecting each sample or use of disposable sampling equipment;
- Use of disposable sampling equipment including disposable nitrile gloves and disposable groundwater tubing;



- Transfer of samples into laboratory-prepared glass jars and capping immediately with Teflon lined lids;
- Labelling of sampling containers with individual and unique identification, including project number sample location and sample depth;
- Field screening of replicate soil samples collected in sealed plastic bags for Total Photoionsable Compounds (TOPIC) using a calibrated photoionisation detector (PID); and
- Placement of sample containers and bags into a cooled, insulated and sealed container for transport to the laboratory.

Envirolab Services Pty Ltd, accredited by NATA, was employed to conduct the sample analysis. The laboratory is required to carry out in-house QC procedures.

8.4 Analytical Rationale

The analytical scheme was designed to obtain an indication of the potential presence and possible distribution of identified contaminants of concern based on information obtained for past and present activities and features within the site. The COPC as identified in Section 7 are TRH, BTEX, PAH, metals, VOC, phenols, asbestos, OCP, and PCB. The samples selected for analysis comprised predominantly fill, being the medium most likely to contain contaminants (if present).

9. Assessment Criteria

The assessment criteria have been sourced from the National Environment Protection Council (NEPC) National Environment Protection Measure (Assessment of Site Contamination) 1999, as amended 2013 (NEPC 2013).

The site assessment criteria (SAC) comprise health-based investigation levels (HILs), health screening levels (HSLs), Ecological Investigation Levels (EILs), Ecological Screening Limits (ESLs) and management limits for TRH. The laboratory Practical Quantitation Limit (PQL) has also been adopted as a screening level for some contaminants.

9.1 Soils

9.1.1 Health-based Investigation Levels (Non-Petroleum Chemical Contaminants)

Table 4 shows the HILs that have been adopted by NEPC (2013) Schedule B1, Table 1A(1) for assessing the human health risk from a contaminant via relevant pathways of exposure as detailed in the CSM (Section 7), and for a residential form of development with accessible soils (HIL A). Table 4 only includes contaminants analysed in this assessment and not the full list provided in NEPC (2013).



Table 4: Health Investigation Levels for Soil Contaminants

Contaminant	HIL A (mg/kg)
Metals and Inorganics	
Arsenic	100
Cadmium	20
Chromium (VI)	100
Copper	6000
Lead	300
Mercury (inorganic)	40
Nickel	400
Zinc	7400
PAH	
Carcinogenic PAH (as Benzo(a)pyrene TEQ)	3
Total PAH	300
PhenoIs	3000
Phenol	3333
ОСР	and strategy
DDT+DDE+DDD	240
Aldrin + Dieldrin	6
Chlordane	50
Endosulfan (total)	270
Endrin	10
Heptachlor	6
HCB	10
Methoxychlor	300
Other Pesticides	
Chlorpyrifos	160
Other Organics	
PCB	1

9.1.2 Ecological Investigation Levels

Ecological Investigation Levels (EIL) have been derived for selected metals and organic compounds and are applicable for assessing risk to terrestrial ecosystems (NEPC, 2013). EIL depend on specific soil physiochemical properties and land use scenarios and generally apply to the top 2 m of soil, which corresponds to the root zone and habitation zone of many species. The EIL is determined for a contaminant based on the sum of the ambient background concentration (ABC) and an added contaminant limit (ACL). The ABC of a contaminant is the soil concentration in a specific locality that is the sum of naturally occurring background levels and the contaminants levels that have been introduced from diffuse or non-point sources (e.g. motor vehicle emissions). The ACL is the added concentration (above the ABC) of a contaminant above which further appropriate investigation and evaluation of the impact on ecological values is required.



The EIL is calculated using the following formula:

EIL = ABC + ACL,

The ABC is determined through direct measurement at an appropriate reference site (preferred) or through the use of methods defined by Olszowy et al *Trace element concentrations in soils from rural and urban areas of Australia*, Contaminated Sites monograph no. 4, South Australian Health Commission, Adelaide, Australia 1995 (Olszowy, 1995) or Hamon et al, *Geochemical indices allow estimation of heavy metal background concentrations in soils*, Global Biogeochemical Cycles, vol. 18, GB1014, (Hamon, 2004). ACL is based on the soil characteristics of pH, CEC and clay content.

EIL (and ACLs where appropriate) have been derived in NEPC (2013) for only a short list of contaminants comprising As, Cu, Cr (III), DDT, naphthalene, Ni, Pb and Zn. An *Interactive (Excel) Calculation Spreadsheet* may be used for calculating site-specific EIL for these contaminants, and has been provided in the ASC NEPM Toolbox available on the SCEW (Standing Council on Environment and Water) website (http://www.scew.gov.au/node/941).

The adopted EIL, derived from Tables 1B(1) to 1B(5), Schedule B1 of NEPC (2013) the *Interactive* (Excel) Calculation Spreadsheet are shown in the following Table 5. The following site specific data and assumptions have been used to determine the EILs:

- a protection level of 80% has been adopted;
- the EILs will apply to the top 2 m of the soil profile;
- given the likely source of soil contaminants i.e. historical site use as open space/market gardens and potential fill, the contamination is considered as "aged" (>2 years);
- ABCs have been derived using the *Interactive (Excel) Calculation Spreadsheet* using input parameters of aged soil for the State in which the site is located, and low for traffic volumes;
- Site specific pH, and CEC values have been used as input parameters in the Interactive (Excel)
 Calculation Spreadsheet. Based on median pH and CEC values for clay and sand collected
 across the site, the soil profile (in the upper layers) has an average pH of 8.9 and CEC of
 13.5 cmol/kg. The Calculation Spreadsheet is included in Appendix H.

Table 5: Ecological Investigation Levels (EIL) in mg/kg

	Analyte	EIL	Comments
Metals	Arsenic	100	Adopted pH of 8.9 and
	Copper	220	CEC of 13.5 cmol _c /kg];
	Nickel	210	assumed clay content [10%] for aged soil
	Chromium III	410	
	Lead	1100	
	Zinc	590	
PAH	Naphthalene	170	
ОСР	DDT	180	



9.1.3 Ecological Screening Levels – Petroleum Hydrocarbons

Ecological Screening Levels (ESL) are used to assess the risk of selected petroleum hydrocarbon compounds, BTEX and benzo(a)pyrene to terrestrial ecosystems. ESL apply to the top 2 m of the soil profile as for EIL.

ESL have been derived in NEPC (2013) for petroleum fractions F1 to F4 as well as BTEX and Benzo(a)pyrene. Site specific data and assumptions as summarised in Table 6 have been used to determine the ESL. The adopted ESL, from Table 1B(6), Schedule B1 of NEPC (2013) are shown in Table 7.

Table 6: Inputs to the Derivation of ESL

Variable	Input	Rationale
Depth of ESL application	Top 2 m of the soil profile	The top 2 m depth below ground level corresponds to the root zone and habitation zone of many species.
Land use	Urban residential and public open space	
Soil Texture	Coarse	

Table 7: Ecological Screening Levels (ESL) in mg/kg

	Analyte	ESL	Comments					
TRH	C6 – C10 (less BTEX) [F1]	180*	All ESLs are low					
	>C10-C16 (less Naphthalene) [F2]	reliability apart from those marked with *						
	>C16-C34 [F3]	300	which are moderate					
	>C34-C40 [F4]	2800	reliability					
ВТЕХ	Benzene	50						
	Toluene	85						
	Ethylbenzene	70						
	Xylenes	105						
PAH	Benzo(a)pyrene	0.7						

9.1.4 Petroleum Contaminants (Health Screening Levels and Management Limits)

Health Screening Levels

Table 8 shows the HSLs for petroleum hydrocarbon compounds adopted from NEPC (2013) Schedule B1, Table 1A(3) and are based on the exposure to petroleum hydrocarbons through the dominant vapour inhalation exposure pathway only (*i.e.* not direct contact to soils). The screening levels are adopted given the exposure risk as detailed in the CSM (Section 7). The proposed development



incorporates residential space potentially occupying the ground floor. Thus, the relevant and adopted HSLs are HSL A & B, Low – high density residential.

The HSLs are based on overlying soil type and depth. HSLs for both sand and clay have been included here based on the materials encountered on site (refer to Section 10), and results were assessed against the appropriate HSL based on the depth of the detected contamination and the predominant soil type.

Direct contact HSLs have not been included as NEPC (2013) Schedule B1 Section 2.4.11 states that HSLs for direct contact are significantly higher than most other soil screening levels and are unlikely to become drivers for further investigation or site management.

Table 8: Soil Health Screening Levels for Vapour Intrusion

	Soil	HSL A (mg/kg)									
Contaminant		depth	depth	depth	depth						
	Type	0m to <1m	1m to <2m	2m to 4m	4m+						
Toluene		160	220	310	540						
Ethylbenzene		55	NL	NL	NL						
Xylenes		40	60	95	170						
Naphthalene	Sand	3	NL	NL	NL						
Benzene	Sanu	0.5	0.5	0.5	0.5						
		45	70	110	200						
TRH C ₆ -C ₁₀ less BTEX [F1] TRH >C ₁₀ -C ₁₆ less Naphthalene [F2]		110	240	440	NL						
TKH 2010-016 less Naphthalene [F2]											
Toluene		390	NL	NL	NL						
Ethylbenzene		NL	NL	NL	NL						
Xylenes		95	210	NL	NL						
Naphthalene	Clay	4	NL	NL	NL						
Benzene	Clay	0.6	0.7	1	2						
TRH C ₆ -C ₁₀ less BTEX [F1]		40	65	100	190						
TRH C_{6} - C_{10} less B1EX [F1] TRH $>$ C ₁₀ - C_{16} less Naphthalene [F2]		230	NL	NL	NL						

Note: NL – "Not limiting" to human health for the proposed land use for vapour intrusion from petroleum hydrocarbons

Management Limits (TPH Only)

NEPC (2013) Table 1B(7) provides 'management limits' for TPH fractions, which are applied after consideration of relevant HSLs. The management limits have been adopted to avoid or minimise the following potential effects of petroleum hydrocarbons:

- Formation of light non-aqueous phase liquids (LNAPL);
- Fire and explosive hazards; and
- Effects on buried infrastructure e.g. penetration of, or damage to, in-ground services by hydrocarbons.

The presence of site TPH contamination at the levels of the management limits does not imply that these is no need for administrative notification or controls in accordance with jurisdictional



requirements. The adopted management limits are shown in Table 9 and have been selected based on the CSM (Section 7).

Management limits for coarse material is presented in Table 9 due to the presence of both clayey and sandy soils at the site, however, management limits for coarse soil textures are adopted as the first level for comparison as this is more conservative of the two.

Table 9: Management Limits for TPH Fractions in Soil

TPH Fraction	Soil Texture	Management Limit Residential, Parkland, Open Space (mg/kg)
C ₆ -C ₉	Coarse	700
>C ₁₀ -C ₁₆	Coarse	1,000
>C ₁₆ -C ₃₄	Coarse	2,500
>C ₃₄ -C ₄₀	Coarse	10,000

9.1.5 Asbestos

Presence/ absence testing for asbestos has been conducted as a screening assessment. If asbestos or indicators of asbestos (e.g. significant inclusions of building debris) are observed, further assessment and/ or management for asbestos in accordance with NEPC (2013) will be recommended.

9.2 Contaminants with No Assessment Criteria

Where no guidance is provided in NEPC (2013) for a specific analyte, the PQL has been used as the initial screening criteria.

If concentrations are recorded above the PQL, reference criteria were to be sourced from other national and international guidance as relevant and use to determine the significance of the detected analyte.

The referenced criteria are provided in the results summary tables (Section 11, Laboratory Results).

10. Fieldwork Observations

The subsurface conditions encountered in the boreholes are presented in the borehole logs in Appendix I.

A summary of the typical sequence of subsurface conditions encountered at site is presented below:

Filling:

Asphaltic concrete at both boreholes BH 1 to BH2 to 0.05 m depth. No asphalt at BH3 to BH8. Grey and brown silty fine to coarse sand filling below the asphaltic concrete to 0.3 m. Grey gravelly clay/ripped shale filling below the silty sand filling to 0.7 m in BH2. Brown silty sand followed by clay at the other locations.



Fluvial Sediments:

Interbedded layers of very stiff and hard silty and silty sandy clay and medium dense and dense silty and clayey sand encountered below the filling layers in both boreholes. Boreholes refused on river gravels at 5.2 m depth in BH1, 3.7 m depth in BH2, 0.7 m depth in BH3, and 1.0 m depth in BH5A. Target depth reached at other locations.

No free groundwater was observed during auger drilling at any of the borehole locations.

The PID field screening results were all <1 ppm.

11. Results Summary

The results of the laboratory analysis undertaken are presented in Table 10. The full NATA laboratory reports, together with COC and sample recipt documentation are provided in Appendix J.



Table 10: Summary of Laboratory Results - All Samples

			Metals (total)										-	TRH				ВТ	EX			PA	Н						
Sample ID	Sampled Date	Fill/ Natural	Applicable Soil Type ^b	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Zinc	C6-C10 less BTEX (F1)	>C10-C16-NAPHTHALENE (F2)	C6-C10	>C ₁₀ -C ₁₆	>C16-C34	>C34-C40	Benzene	Toluene	Ethylbenzene	Xylene Total	naphthalene	B(a)P	B(a)P TEQ	Total +ve PAH ^c	Total Phenolics	° do	PCB	Asbestos
BH Depth		er.		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	-
Laboratory Results																													
BH1 / 0.2	26/09/2014	Fill	Sand	<4	<0.4	24	12	13	<0.1	21	32	<25	<50	<25	<50	<100	<100	<0.2	<0.5	<1	<3	<0.1	<0.05	<0.5	NIL	<5	ND	ND	NAD
BH2 / 0.5 BH3 / 0.2	26/09/2014 26/09/2014	Fill Fill	Clay Sand	4 <4	<0.4 <0.4	14	29 8	9 22	<0.1 <0.1	21 5	56 43	<25 <25	<50 <50	<25 <25	<50 <50	<100 290	<100 140	<0.2 <0.2	<0.5 <0.5	<1 <1	<3 <3	0.2 <0.1	<0.05 <0.05	<0.5 <0.5	NIL NIL	<5 <5	ND ND	ND ND	NAD NAD
BH4 / 0.1	26/09/2014	Topsoil	Sand	9	<0.4	17	19	20	<0.1	5	29	<25	<50	<25	<50 <50	<100	<100	<0.2	<0.5	<1	<3	<0.1	<0.05	<0.5	NIL	<5 <5	ND ND	ND	NAD
BH5A / 0.1	26/09/2014	Fill	Sand	<4	<0.4	11	36	13	<0.1	6	31	<25	<50	<25	<50 <50	<100	<100	<0.2	<0.5	<1	<3	<0.1	<0.05	<0.5	NIL	<5	ND ND	ND	NAD
BH5B / 0.5	26/09/2014	Fill	Sand	4	<0.4	11	33	15	<0.1	14	66	<25	<50	<25	<50	<100	<100	<0.2	<0.5	<1	<3	<0.1	<0.05	<0.5	NIL	<5	ND	ND	NAD
BH6 / 0.3	26/09/2014	Natural	Sand	<4	<0.4	11	7	9	<0.1	6	30	<25	<50	<25	<50	<100	<100	<0.2	<0.5	<1	<3	<0.1	<0.05	<0.5	NIL	<5	ND	ND	NAD
BD2/260914 / 0.3	26/09/2014	Natural	Sand	8	<0.4	11	6	7	<0.1	5.5	27	-	-	-	-	-100	-	-	-		-	<0.5	<0.5	<0.5	NIL	-		-	-
BH7 / 0.2	26/09/2014	Natural	Clav	<4	<0.4	10	8	26	<0.1	5	29	<25	<50	<25	<50	<100	<100	<0.2	<0.5	<1	<3	<0.1	<0.05	<0.5	NIL	<5	ND	ND	NAD
BH8 / 0.5	26/09/2014	Fill	Clay	<4	<0.4	13	9	21	<0.1	6	23	<25	<50	<25	<50	<100	<100	<0.2	<0.5	<1	<3	<0.1	< 0.05	<0.5	NIL	<5	ND	ND	NAD
TS / -	26/09/2014	<u> </u>	-	-	-	-		-	-		-	-	191	-		· **	-	118%	118%	118%	118%	~		-	191	-	-	-	-
TB / -	26/09/2014	В	-	-	-	-		-	-	-	-	-	-	-	-	-	12	<0.2	<0.5	<1	<3	-	-	-	-	-	-	-	8
1																													
Guideline Criteria																													
Site Assessment Criteria & Re	ference Levels																												
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HSL A,	0 to <1m ^d		Sand	-	-	-	-	-	-	-	-	45	110	-		-	-	0.5	160	55	40	3	-	-	-	-	-	-	=
HSL A Vapour	Screening Levels (0 to <1m ^f	Sand	121	120	-		-	3 4 3	-	(**)	180	130	14	12	(=)	(12)	1	1300	330	220	0.8	02	20	-	-	-	-	-
Manager	nent Limit ^g	_	Coarse	1=3	-	-	-	-	()	-	-	700	1000	-	18	2,500	10,000	- 1		-	-1	(=)	0.4	-	-	-	-	-	-
E	IL ^h		-	100	-	410	220	1100	-	210	590	-	-	-	-	141	-	1	-	-	ě	170	-	-	-	-	180		-
ESL, 0	to < 2m ⁱ		Coarse	-	120	=	820	-	-	-	120	180	120	19	-	300	2800	50	85	70	105	NEC .	0.7	-	-	말	-	120	=

Notes

- National Environment Protection (Assessment of Site Contamination) Measure 2013 (as amended). Health investigation levels for Residential with garden/accessible soil (HIL A)
- Overlying material applying for HSL and management limit. Coarse soil type adopted on conservative basis
- Sum of detectable, or where none detected, less than the PQL of the majority of compounds

 National Environment Protection (Assessment of Site Contamination) Measure 2013 (as amended). Health screening levels for vapour intrusion Residential with garden/accessible soil (HSL A)
- Various available, not listed as not detected above PQL (refer Table 4 in report text)
- Co-operative Research Centre (CRC) for Contamination Assessment and Remediation of the Environment (CARE), Technical Report Series No. 10, Health screening levels for petroleum hydrocarbons in soil and groundwater health screening level, vapour intrusion. September 2011 (CRC CARE Series 10). National Environment Protection (Assessment of Site Contamination) Measure 2013 (as amended). Table 1 B(7) Management Limits for TPH fractions F1-F4 in soil for coarse soil texture and residential National Environment Protection (Assessment of Site Contamination) Measure 2013 (as amended). Ecological investigation Levels Tables 1B(1) to 1B(5) residential.

- National Environment Protection (Assessment of Site Contamination) Measure 2013 (as amended) . Ecological Screening Levels Table 1B(6), Schedule B1
- Not defined/ not analysed/ not applicable

Acronyms

Benzo(a)pyrene

B(a)P TEQ BTEX

Benzo(a)pyrene toxic equivalent
Benzene, toluene, ethyl benzene, total xylenes

Health investigation level

HSL Health screening level

NAD No asbestos detected at the limit of reporting (0.1g/kg)

N/A Not applicable

"Not limiting" to human health for the proposed land use for vapour intrusion from petroleum hydrocarbons

OCP Organochlorine pesticides OPP Organophosphorus pesticides Polycyclic aromatic hydrocarbons

PAH PQL Practical quantitation limit

Total recoverable hydrocarbons, including total petroleum hydrocarbons (TPH)



12. Discussion

12.1 Desktop Study

The desktop study identified that the site has been used as a market garden/open space until sometime during the 1970s. A church (Emu Plains Uniting Church) has been present on the eastern portion of the site since the early 1800s. The site was developed for aged care sometime during the 1970s. These features were apparent in the historical aerial photographs and title records.

A review of the geological and topographical features maps have indicated that the site in underlain by sand, silt and clay, and is relatively flat. It is inferred that the groundwater flow direction would be south south east towards the Nepean River. No regulatory notices existed for the site under any of the publically accessible databases or matters arising under the CLM Act.

The desktop study and site walkover indicated potential COPC included fill (likely to be minimal), asbestos and lead paint used in construction materials, and possible pesticides used throughout landscaped areas. There appeared to overall be a low potential for contamination across the site as a result of the desktop study.

12.2 Contaminants in Soil

All results for the soil analysis across the site were within the adopted SAC. One location (BH3/0.2) had a detectable level of TPH C16-34 and C34-40, but was within the adopted criteria.

No ACM or fibres in soil were found during the investigation.

13. Recommendations and Conclusions

The PSI consisted of a limited sampling programme and did not include sample points within the footprints of the existing buildings. Prior to any redevelopment works DP recommends that a Detailed Site Investigation (DSI) be undertaken following the demolition of the existing buildings. The objective of the DSI would be primarily to assess post-demolition surface conditions (e.g. presence of asbestos) and to more comprehensively assess the nature of the fill beneath the buildings.

It is concluded that the site is suitable for continued use as a residential aged care facility, and would be suitable for the proposed development subject to implementation of the above recommendation.

14. Limitations

Douglas Partners (DP) has prepared this report for this project at 1 – 11 Emerald Street, Emu Plains in accordance with DP's proposal dated 10 September 2014 and acceptance received from Mr John Phillpott of UnitingCare Ageing. The work was carried out under DP's conditions of Engagement. This report is provided for the exclusive use of UnitingCare Ageing for the specific project and purpose as described in the report. It should not be used by or relied upon for other projects or purposes on



the same or other site or by a third party. DP has necessarily relied upon information provided by the client and/or their agents.

The results provided in the report are considered to be indicative of the sub-surface conditions on the site only to the depths investigated at the specific sampling and/or testing locations, and only at the time the work was carried out. Sub-surface conditions can change abruptly due to variable geological processes and also as a result of human influences. Such changes may occur after DP's field testing has been completed.

DP's advice is based upon the conditions encountered during this investigation. The accuracy of the advice provided by DP in this report may be affected by undetected variations in ground conditions across the site between and beyond the sampling and/or testing locations. The advice may also be limited by budget constraints imposed by others or by site accessibility.

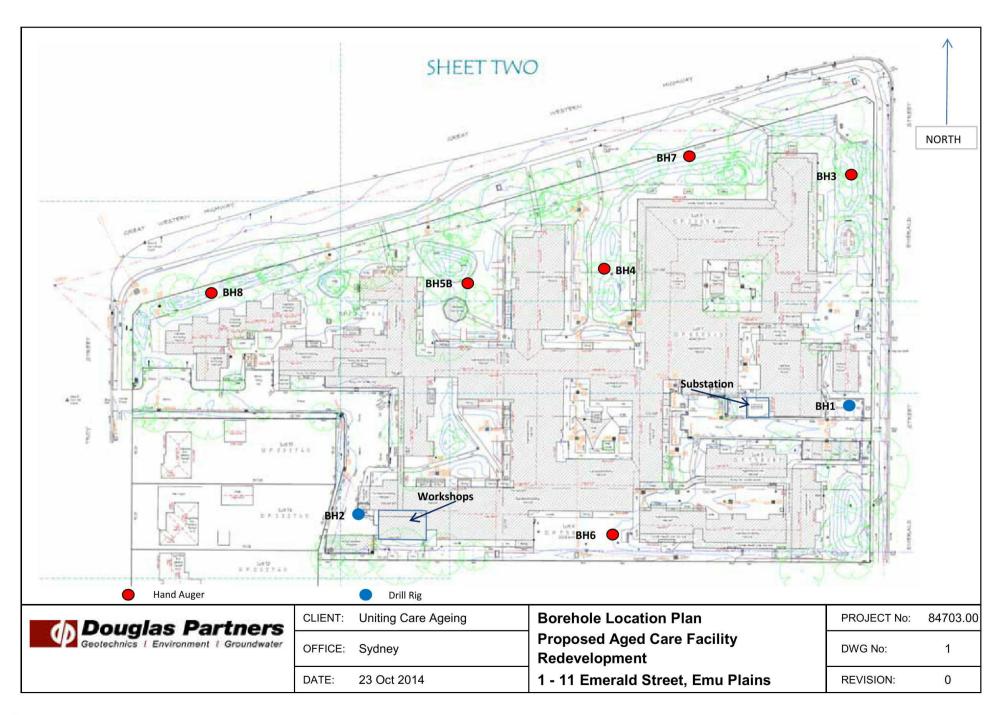
This report must be read in conjunction with all the attached and should be kept in its entirety without separation of individual pages or sections. DP cannot be held responsible for interpretations or conclusions made by others unless they are supported by an expressed statement, interpretation, outcome or conclusion stated in this report.

This report, or sections from this report, should not be used as part of a specification for a project, without review and agreement by DP. This is because this report has been written as advice and opinion rather than instructions for construction.

Douglas Partners Pty Ltd

Appendix A Drawings

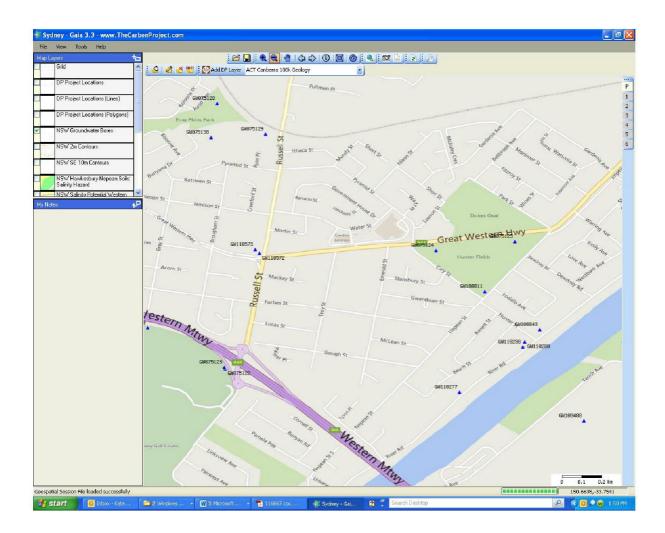
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Appendix B

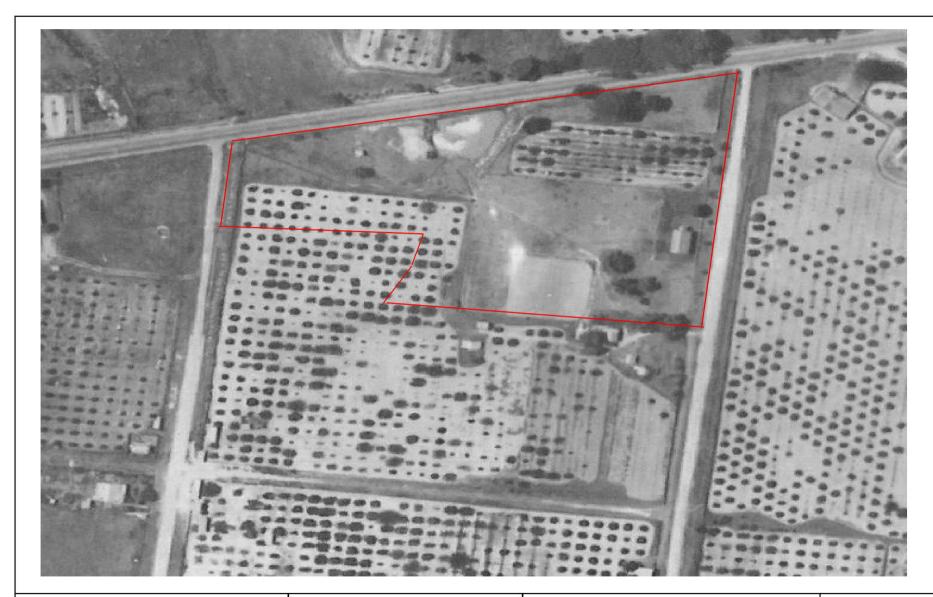
Groundwater Bore Logs

Document Set ID: 8116173 Version: 1, Version Date: 29/03/2018



Appendix C

Aerial Photographs



Douglas Partners
Geotechnics | Environment | Groundwater

CLIENT: Uniting Care Ageing

OFFICE: Sydney

DATE: 15 Oct 2014

1947 Aerial Photograph
PSI with Limited Sampling
Emerald Street, Emu Plains NSW

PROJECT No: 84503.00

PLATE No: 1

REVISION: 0



do	Douglas Partners Geotechnics Environment Groundwater
	Geotechnics Environment Groundwater

CLIENT:	Uniting Care Ageing
OFFICE:	Sydney
DATE:	15 Oct 2014

1961 Aerial Photograph
PSI with Limited Sampling
Emerald Street, Emu Plains NSW

PROJECT No:	84503.00	
PLATE No:	2	
REVISION:	0	



do	Douglas Partners Geotechnics Environment Groundwater
	Geotechnics Environment Groundwater

CLIENT: Uniting Care Ageing

OFFICE: Sydney

DATE: 15 Oct 2014

1970 Aerial Photograph
PSI with Limited Sampling
Emerald Street, Emu Plains NSW

PROJECT No: 84503.00

PLATE No: 3

REVISION: 0



Douglas Partners
Geotechnics | Environment | Groundwater

CLIENT: Uniting Care Ageing

OFFICE: Sydney

DATE: 15 Oct 2014

1982 Aerial Photograph
PSI with Limited Sampling
Emerald Street, Emu Plains NSW

PROJECT No: 84503.00

PLATE No: 4

REVISION: 0





CLIENT: Uniting Care Ageing

OFFICE: Sydney

DATE: 15 Oct 2014

2002 Aerial Photograph
PSI with Limited Sampling
Emerald Street, Emu Plains NSW

PROJECT No: 84503.00

PLATE No: 5

REVISION: 0





CLIENT: Uniting Care Ageing

OFFICE: Sydney

DATE: 15 Oct 2014

2009 Aerial Photograph
PSI with Limited Sampling
Emerald Street, Emu Plains NSW

PROJECT No: 84503.00

PLATE No: 6

REVISION: 0

Appendix D

Historical Title Deeds

Legal Liaison Searching Services

ABN: 52832569710 Ph: 02 9233 5800 Fax: 02 9221 2827 Level 4, 70 Castlereagh Street, Sydney 2000 PO Box 2513 Sydney NSW 2000 DX 1019 Sydney

Summary of Owners Report

LPI

Sydney

Address: - 1 to 11 Emerald Street, Emu Plains

<u>Description: - Lot 16 D.P. 232740, Lot 9 D.P. 230580, Lot 1 D.P. 650543</u> <u>Also</u> <u>Lots 3 & 4 Section 21 D.P. 758387</u>

As regards Lot 16 D.P. 232740

Part of this land is used as a Retirement Village under the Retirement Villages Act 1999 known as Edinglassie Village (Vide AF 531063, plan annexed – 07.09.2010)

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale	
04.10.1876 (1987 to 1925)	George Walker (Farmer)	Vol 287 Fol's 5 to 8 (inclusive)	
09.03.1925 (1925 to 1965)	Percy George Walker (Orchardist) - & his deceased estate (Transmission Application not investigated)	Vol 287 Fol's 5 to 8 (inclusive)	
21.10.1965 (1965 to 1968) Benwerrin Contracting Pty Limited		Vol 287 Fol's 5 to 8 (inclusive) Now Vol 10544 Fol 55	
16.08.1968 (1968 to 1969)	Kennard E. King & Co Pty Limited	Vol 10544 Fol 55	
28.07.1969 (1969 to 1977)	Caroline Mary Rowlings (Dress Maker) Sheila Eileen King (Married Woman)	Vol 10544 Fol 55	
10.10.1977 (1977 to date)	# The Uniting Church in Australia Property Trust (N.S.W.)	Vol 10544 Fol 55 Now 16/232740	

Denotes Current Registered Proprietor

Leases: - NIL

Easements: -

• 27.09.1972 – Easement for Stormwater Drainage six feet wide (M 809648 & D.P. 556154)

As regards Lot 9 D.P. 230580

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale Vol 287 Fol's 5 to 8 (inclusive)	
04.10.1876 (1987 to 1925)	George Walker (Farmer)		
09.03.1925 (1925 to 1965)	Percy George Walker (Orchardist) - & his deceased estate (Transmission Application not investigated)	Vol 287 Fol's 5 to 8 (inclusive)	
21.10.1965 (1965 to 1968)	Benwerrin Contracting Pty Limited	Vol 287 Fol's 5 to 8 (inclusive) Now Vol 10424 Fol 144	

Email: grolly1@bigpond.net.au

Legal Liaison Searching Services

ABN: 52832569710 Ph: 02 9233 5800

Fax: 02 9221 2827

Level 4, 70 Castlereagh Street, Sydney 2000 PO Box 2513 Sydney NSW 2000 DX 1019 Sydney

Search continued as regards Lot 9 D.P. 230580

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale	
16.08.1968 (1968 to 1969)	Kennard E. King & Co Pty Limited	Vol 10424 Fol 144	
28.07.1969 (1969 to 1977)	Caroline Mary Rowlings (Dress Maker) Sheila Eileen King (Married Woman)	Vol 10424 Fol 144	
10.10.1977 (1977 to date)	# The Uniting Church in Australia Property Trust (N.S.W.)	Vol 10424 Fol 144 Now 9/230580	

Denotes Current Registered Proprietor

Leases: - NIL

Easements: - NIL

As regards Lot 1 D.P. 650543

Dedicated as a site for the erection of a Wesleyan Methodist Chapel

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale Vol 140 Fol 192	
07.02.1872 (1872 to 1889)	Reverend Stephen Rabone Reverend George Hurst Reverend Benjamin Chapman		
23.12.1889 (1889 to 1972)	William Lucas (also others) (Trustees for Church Purposes)	Vol 140 Fol 192	
12.12.1972 (1972 to date)	# Methodist Church (N.S.W.) Property Trust Now # The Uniting Church in Australia Property Trust (N.S.W.)	Vol 140 Fol 192 Now 1/650543	

Denotes Current Registered Proprietor

Leases: - NIL

Easements: - NIL

As regards Lot 3 Section 21 D.P. 758387

Dedicated as a site for the erection of a Wesleyan Methodist Ministers Residence

Part of this land is used as a Retirement Village under the Retirement Villages Act 1999 known as Edinglassie Village (Vide AF 531063, plan annexed – 07.09.2010)

Date of Acquisition and term held Registered Proprietor(s) & Occupations where available		Reference to Title at Acquisition and sale	
07.02.1872 (1872 to 1889)	Reverend Stephen Rabone Reverend George Hurst Reverend Benjamin Chapman	Vol 140 Fol 193	
23.12.1889 (1889 to 1972)	William Lucas (also others) (Trustees for Church Purposes)	Vol 140 Fol 193	

Email: grolly1@bigpond.net.au

Legal Liaison Searching Services

ABN: 52832569710 Ph: 02 9233 5800 Fax: 02 9221 2827 Level 4, 70 Castlereagh Street, Sydney 2000 PO Box 2513 Sydney NSW 2000 DX 1019 Sydney

Search continued as regards Lot 3 Section 21 D.P. 758387

<u>Date of Acquisition</u> and term held <u>Registered Proprietor(s) & Occupations where a</u>		Reference to Title at Acquisition and sale	
12.12.1972 (1972 to date)	# Methodist Church (N.S.W.) Property Trust Now # The Uniting Church in Australia Property Trust (N.S.W.)	Vol 140 Fol 193 Now 3/21/758387	

Denotes Current Registered Proprietor

Leases: - NIL

Easements: - NIL

As regards Lot 4 Section 21 D.P. 758387

Part of this land is used as a Retirement Village under the Retirement Villages Act 1999 known as Edinglassie Village (Vide AF 531063, plan annexed – 07.09.2010)

The early title to this land was Crown Title

We are aware of the following: -

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale	
27.02.1931	Dedicated for Methodist School Site		
26.05.1931	Henry Lucas (also others)	X7-1-4494 E-1007	
(1931 to 1931) (Trustees for Church Purposes)		Vol 4481 Fol 206	
22.06.1931	William Kessell Hall (also others)	Val. 4491 Eal 206	
(1931 to 1972)	(Trustees for Church Purposes)	Vol 4481 Fol 206	
12.12.1972	# Methodist Church (N.S.W.) Property Trust	Vol 4481 Fol 206	
	Now	Now	
(1972 to date)	# The Uniting Church in Australia Property Trust (N.S.W.)	1/650543	

Denotes Current Registered Proprietor

Leases: - NIL

Easements: - NIL

Yours Sincerely Mark Groll 30 September 2014 (Ph: 0412 199 304) N

Email: grolly1@bigpond.net.au

NSW Land & Property Information

Cadastral Records Enquiry Report

Parish: STRATHDON

Identified Parcel: Lot 9 DP 230580

County: COOK

Requested Parcel: Lot 9 DP 230580

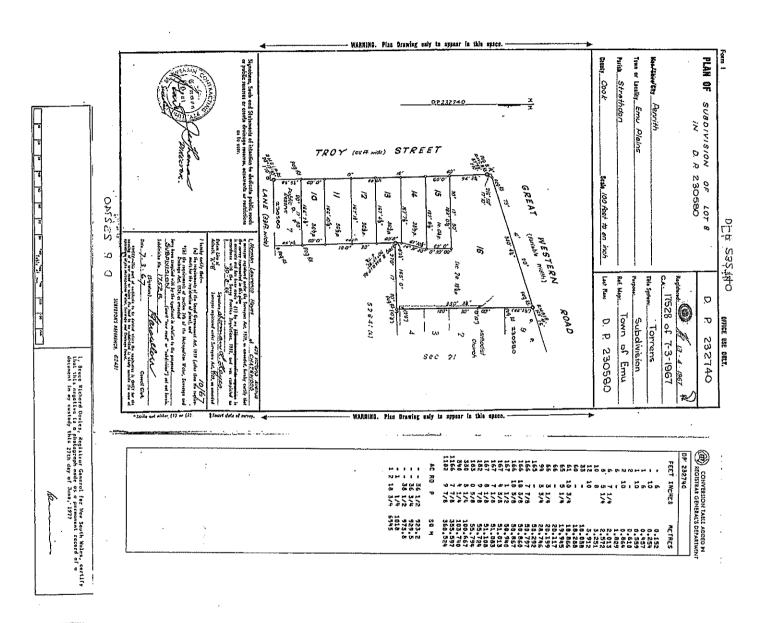
LGA: PENRITH

104 359 Report Generated 1:05:37 PM, 29 September, 2014
Copyright © Land and Property Information ABN: 84 104 377 806 660 Locality : EMU PLAINS 0 5 2 FENRINE H 11 Copyright (c) Land and Property Information. Map Projection: MGA Zone TROYST 11 12 13 14 15 DP 232740 6 WATER ST This information is provided as a searching aid only. While every endeavour is made to ensure the current cadastral pattern is accurately reflected, the Registrar General cannot guarantee the information provided. For all ACTIVITY PRIOR to SEPT 2002 you must refer to the RGs Charting and Reference Maps. GREAT WESTERN HWY DP 610862 DP 758387 DP 650543 DP 230580 1 4 3 1 6 EMERALD ST DP 239861 202 522 521 5DP 519656 STANSBURY ST 4 DP 525457 2 DP 543739 DP 226736 301 304 302 303 SA VA PEARCE PL T2 CIMAAY9 1250 9-18-27 309 308 150 307 250 36 Metres 7,500 STANCE ورجي 378

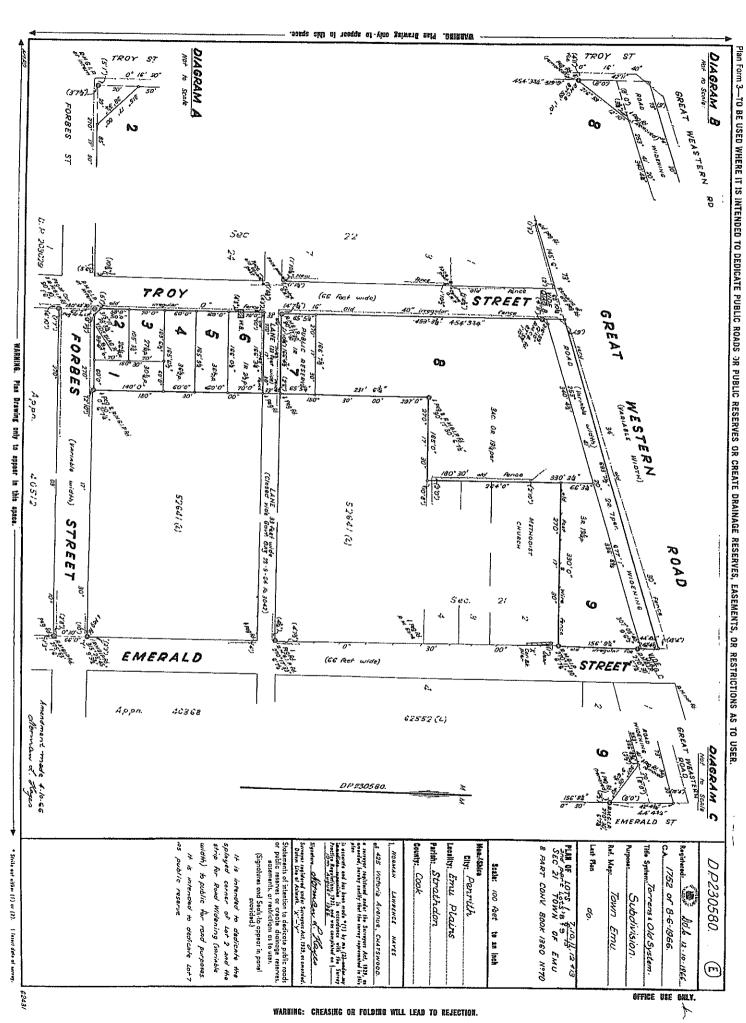
Page 1 of 3 402 Document Set ID: 8116173 Version: 1, Version Date: 29/03/2018

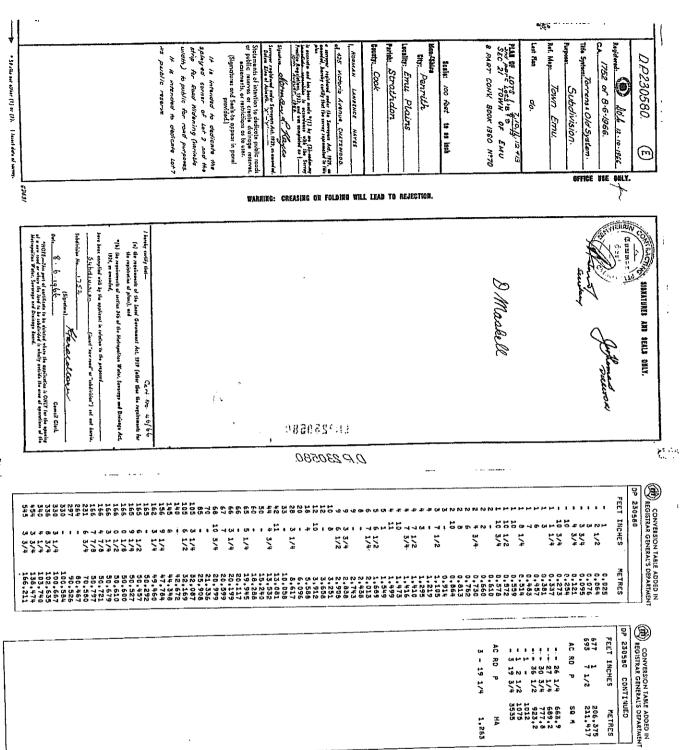
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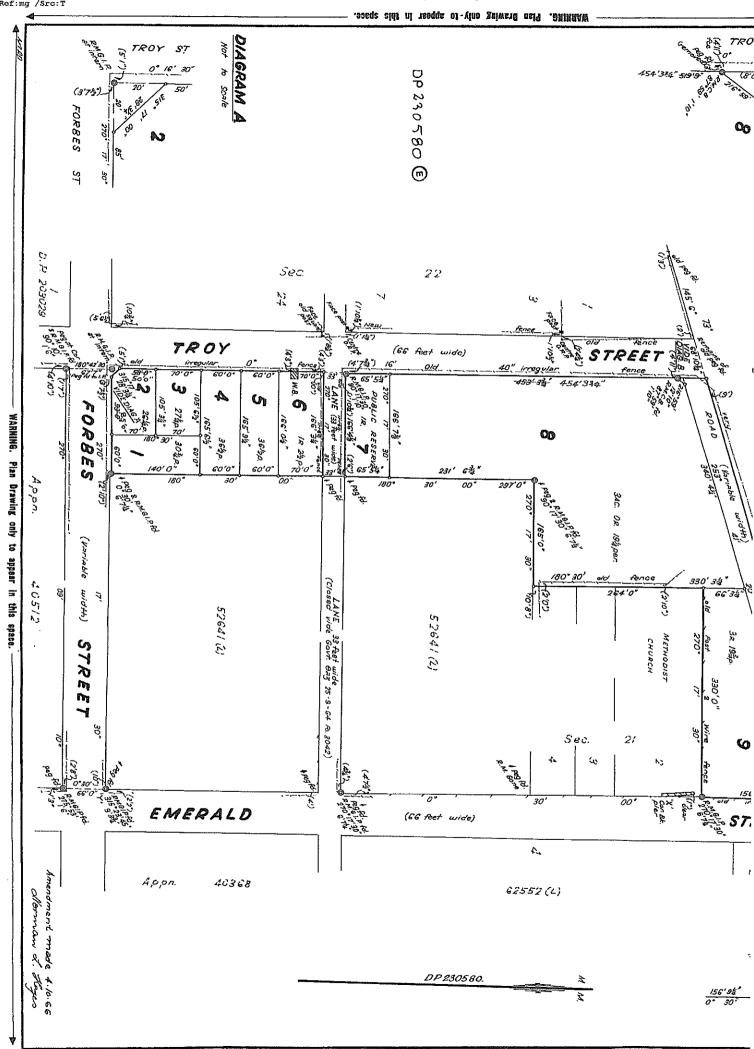
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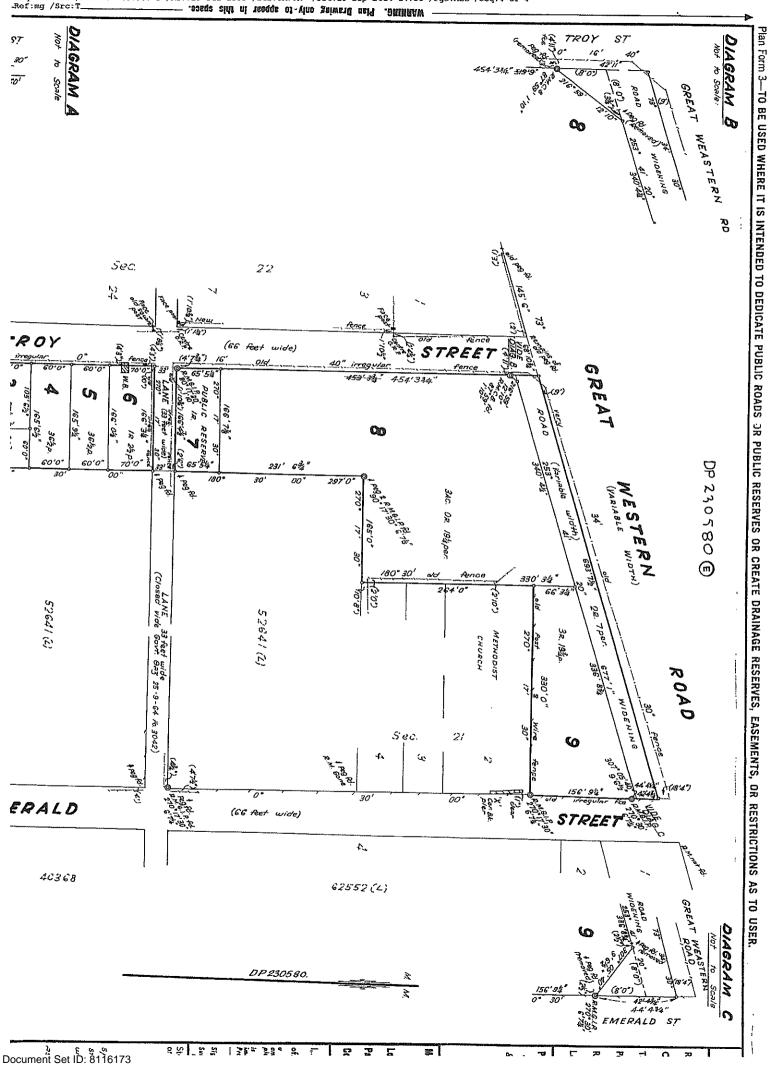


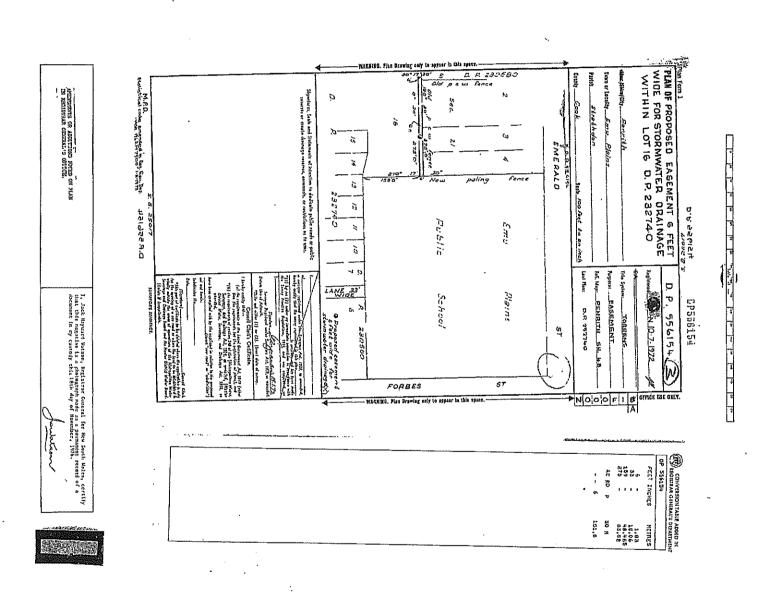




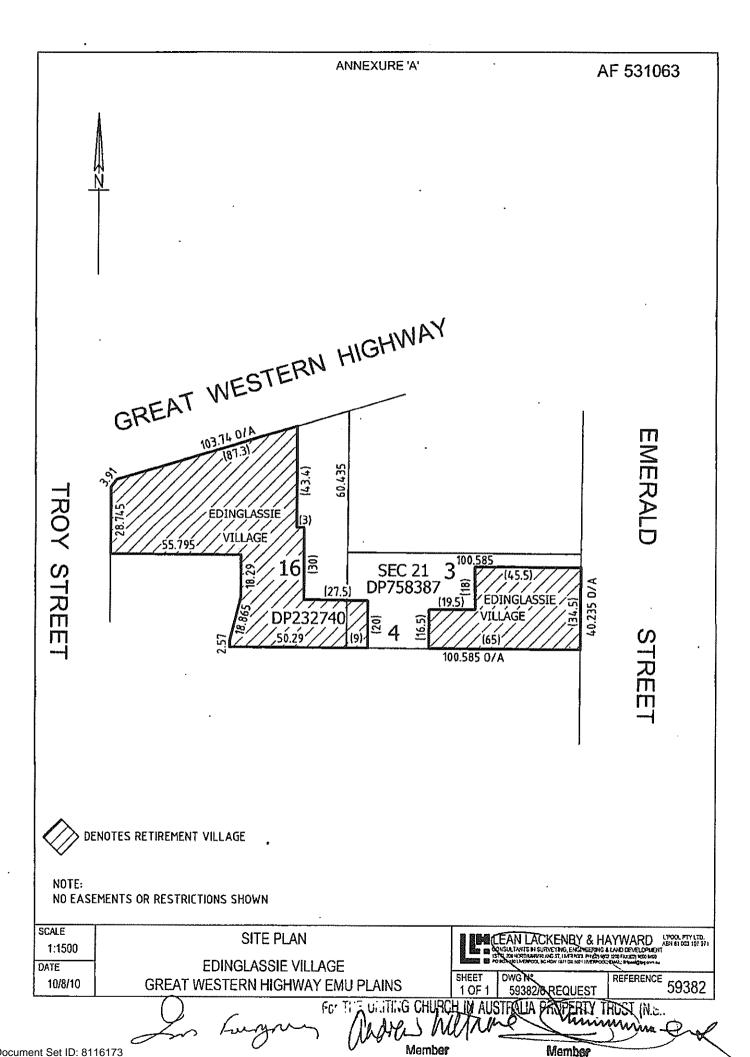




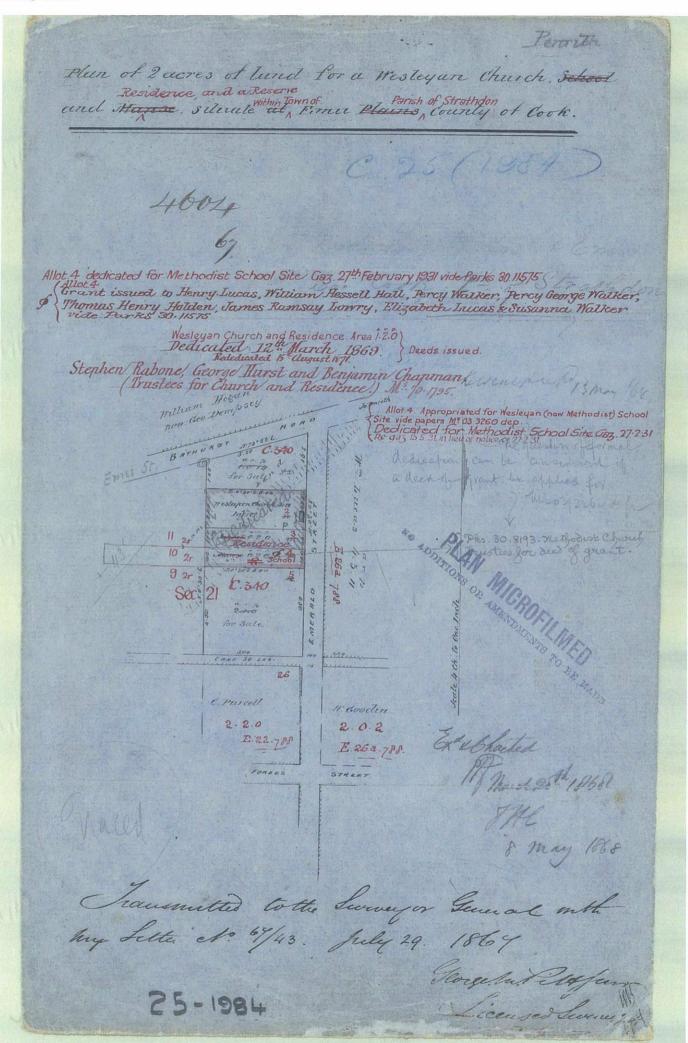


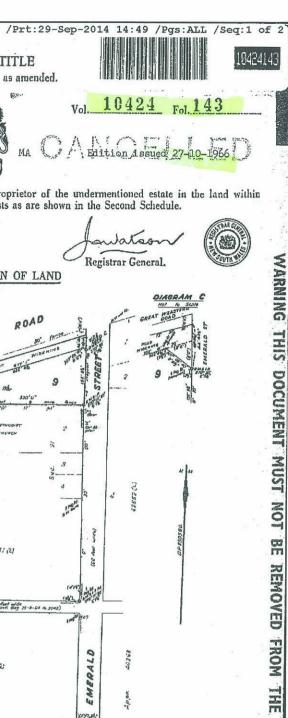


Req:R2	90336 /Doc:DL AF5	31063 /Rev:10-	Sep-2010 /Sts:No	O.OK /Prt:30-Sep	0-2014 13:48 /Pgs:ALL /	seq:1 of 2	
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	CSB2	<i>9.</i>		•	-		
	required by this for the Register is made	rm for the estab de available to a	ishment and mail	ntenance of the Rea	uuthorises the Registrar (al Property Act Register. of a fee, if any.	seneral to collect the Section 96B RP Ac	ne information at requires that
(A)	STAMP DUTY	If applicable.	Office of State Re	venue use only			· <u>-</u> · · · · · · · · · · · · · · · · · · ·
(D)	LAND	T- Tal					ACCESSES AND ACCES
(B)	LAND	Torrens Title FOLIO IDEN	TIFIER 16/2327	40, 3/21/758387 an	d 4/21/758387		
(C)	REGISTERED DEALING	Number			Torrens Title		
(D)	LODGED BY	Delivery	Name, Address o	r DX and Telephor	ie		CODE
		Box					CODE
	•	3974					
			Reference (option	nal): JDF: LZN: 30	603662		R
(E)	APPLICANT	THE UNITIN	G CHURCH IN	AUSTRALIA PRO	OPERTY TRUST (N.S.V	V.) ARBN 134 487	095
(F)	NATURE OF REQUEST	Request to ente	r a notification pu	rsuant to section 24	IA Retirement Villages A	ct 1999	•
		······································					
(G)	TEXT OF REQUEST	The applicant r	equests the Regist	rar General to reco	rd that -	\mathcal{L}	
	#	• the whole	of the land in the	Forrens Title(s) spe	eified above 🕳		
	AN	 part of the the outline 	land in the Torrer I subject site on "	ns Title(s) specified Edinglassie Village	above in 16/232740, 3/2 " Plan annexed to this Re	1/758387 and 4/21/ quest form	758387 being
		is used as a reti	rement village kno	own as Edinglassie	Village.		
	DATE .	31 /		[0			
(H)				,,	Certified correct for the pu	rposes of the Real	Property Act
Cha	THE COMMINION SEAL of THE UNITING CHURCH IN AUSTRAL'A PROPERTY TRUST (N.S.W.) was hereunto offixed on the 31st date of August 2010 pursuant to a resolution of the Trust are duly convened performing in the professione of: Member Australia Representative appears below. Signature: RELODGED Australia Representative appears below. Signature: Signatu						
	7.1 LZN LZN	Salling of	Senl (15)	, - 121(11)	<i>y</i> . <i>3</i>	0 1 SEP 20	
All h	andwriting must be i	•	*/	Page 1 of 1		TIME: (0	.00



Registered: MB 20-4-1994 C.A.: Title System:TORRENS Purpose:DEPARTMENTAL Purpose:DEPARTMENTAL County COOK	Registered: *** MB 20-14-19994* C.A.:	PLAN OF LAND	IN VOL140 FOL 192	DP 650543	LT
Title System: TORRENS TORRENS DEPARTMENTAL Purpose: DEPARTMENTAL	Title System: TORRENS DEPARTMENTAL Town or Locality EMU PLAINS Purpose: DEPARTMENTAL Purpose: DEPARTMENTAL Ref. Map: U 6 4 6 0 - 5 3 O O Lengths are in metres D. P. 2 3 0 5 8 O D. P. 2 3 0 5 8 O 100 5 8		The second secon		t
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LAND

TITLES OFFICE

Ref:mg /Src:T

51

Page 1)

165 and 166 NEW SOUTH WALES

TIFICATE OF TITLE PERTY ACT, 1900, as amended.

Crown Grants Vol. 183 Fols.164, Vol. 287 Fols.5 to b

Req:R281235 /Doc:CT 10424-143 CT /Rev:11-Jan-2011 /Sts:OK.SC

Prior Titles Vol. 183 Fol.164 Vol. 287 Fols 5 to 8 (incl.) Vol.8429 Fols.136 and 137

I certify that the person described in the First Schedule is the registered proprietor of the undermentioned estate in the land within described subject nevertheless to such exceptions encumbrances and interests as are shown in the Second Schedule.

Witness

PLAN SHOWING LOCATION OF LAND

GREAT 52641 (2) LANE 33 feet wide 52641 (2) FORBES STREET 46512

ESTATE AND LAND REFERRED TO

Estate in Fee Simple in Lot 8 in Deposited Plan 230580 at Emu Plains in the City of Penrith Parish of Strathdon and County of Cook.

FIRST SCHEDULE (continued overleaf)

BENWERRIN CONTRACTING PTY. LIMITED.

Registrar General.

SECOND SCHEDULE (continued overleaf)

1. Reservations and conditions, if any, contained in the Crown Grants above referred to. 2. Mortgage No. K146462 to Donald Maskall, of Bateman's Bay, Investor. Entered

28-10-1965.

Registrar General

Document Sevid: 8116173

Version: 1, Version Date: 29/03/2018

PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS CERTIFICATE OR ANY NOTIFICATION HEREON

V.C.N. Blight, Government Printer	Sgnaue of Registrat-General						Property was property and the same and the s	The same of the sa		
	ENTERED		CANCELLATION							
71.119	DAYE		U							
	NUMBER NUMBER		Signature of Registrar-General		and the section of th				-	
	YATURE		ENTERED	Ī	and the same of th				and the state of t	
FIRST SCHEDULE (continued)	No. 232749 as follows: 1947 No. 232749 as follows: 1944 REGISTRAR GENERA!	SECOND SCHEDULE (continued)	PARTICULARS							
	ates of Title have a forth of the forth of t		INSTRUMENT NUMBER DATE							
	Tinis deed is cand New Certificates for loss in Do No lost		NATURE							

NEW SOUTH WALES

FIFICATE OF TITLE PERTY ACT, 1900, as amended.





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LC:

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054

(Page 1)

ALTERING OR ADDING TO THIS CERTIFICATE OR ANY NOTIFICATION HEREON

CAUTIONED AGAINST

PERSONS ARE

Crown Grants Vol.287 Fols. 5, 6, 7 & 8 Prior Title Vol. 10424 Fol. 143

Edition issued 28-4-1967.

I certify that the person described in the First Schedule is the registered proprietor of the undermentioned estate in the land within described subject nevertheless to such exceptions encumbrances and interests as are shown in the Second Schedule.

misalter

Witness

Registrar General.

PLAN SHOWING LOCATION OF LAND

ROAD SEE AUTO FOLIL

WESTERN (Yariable GREAT 16 Melhodist Church 140. 28. 18 p ō. 79.7 0% 15 STREE 10 3854 165' 0 30° 85 (10'87) 361 p 12 TROY (86 7 MICE) 52641(4) 12 3630 167'15 365,0 3670 bcg to 7 230580 LANE (33ff. wide)

2

ESTATE AND LAND REFERRED TO.

16 in Deposited Plan 232740 at Emu Plains in the City of Penrith, Parish Estate in Fee Simple in Lot of Strathdon and County of Cook.

FIRST SCHEDULE (continued overleaf)

SECOND SCHEDULE (continued overleaf)

GPU 1. Reservations and conditions, if any, contained in the Grown Grants above referred to.

–Entor<u>od 28–10–19</u>65. Discharced R 555920 2. Mortgage-No. K146462-to-Denald-Maskall-of-Bateman's Bay: Investor.

Registrar General

DOCUMER SEAD 8 NOTES ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED

Version: 1, Version Date: 29/03/2018

Ref:mg /Sr	9 /Doc:CT 10544-055 CT /Rev:17-Feb-	2011 /Sts:OK.SC /Prt:29-Sep-2014 14:48 /Pgs:ALL /Seq:2
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1,17	69 15-8-1969	(L. SE 5.58 M. Z. 1.2.366, 6.399418
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	Transfer Transfer	16 - 9 - 1948 (5 - 5 - 1948 (6 - 1/4 - 7)
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Legal Liaison Services he reby certifies that the information contained in this document has been provided electronically by the Registrar General.

Information provided through Tri-Search an approved LPINSIV Information Broker

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

SEARCH DATE

29/9/2014 2:51PM

FOLIO: 16/232740

First Title(s): SEE PRIOR TITLE(S)
Prior Title(s): VOL 10544 FOL 55

Recorded Number Type of Instrument C.T. Issue 5/6/1987 TITLE AUTOMATION PROJECT LOT RECORDED FOLIO NOT CREATED 24/3/1988 CONVERTED TO COMPUTER FOLIO FOLIO CREATED CT NOT ISSUED 7/4/1993 AMENDMENT: LOCAL GOVT AREA 7/9/2010 AF531063 REQUEST

*** END OF SEARCH ***

mg

PRINTED ON 29/9/2014

*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.







Legal Liaison Services 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.

Information provided through Tri-Search an approved LPINSW Information Broker

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - TITLE SEARCH

FOLIO: 16/232740

VOL 10544 FOL 55 IS THE CURRENT CERTIFICATE OF TITLE

LAND

LOT 16 IN DEPOSITED PLAN 232740
AT EMU PLAINS
LOCAL GOVERNMENT AREA PENRITH
PARISH OF STRATHDON COUNTY OF COOK
TITLE DIAGRAM DP232740

FIRST SCHEDULE

THE UNITING CHURCH IN AUSTRALIA PROPERTY TRUST (N.S.W.) (T 0399419)

SECOND SCHEDULE (3 NOTIFICATIONS)

1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)

* 2 AF531063 PART OF THE LAND ABOVE DESCRIBED IS USED AS A RETIREMENT VILLAGE UNDER THE RETIREMENT VILLAGES ACT 1999 KNOWN AS EDINGLASSIE VILLAGE SHOWN HATCHED IN PLAN WITH AF531063

3 M809648 EASEMENT FOR STORMWATER DRAINAGE AFFECTING THAT
PART OF THE LAND WITHIN DESCRIBED SHOWN AS PROPOSED
EASEMENT 6 FEET WIDE FOR STORMWATER DRAINAGE IN
DP556154

NOTATIONS

AF531063 NOTE: REFER ALL DEALINGS TO SD2 (RETIREMENT VILLAGE) UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

mg

PRINTED ON 29/9/2014

*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.

Req:R281219 /Doc:CT 10424-144 CT /Rev:15-Feb-2011 /Sts:OK.SC /Prt:29-Sep-2014 14:48 /Pgs:ALL /Seq:1 of 2 Ref:mg /Src:T IDARATA.

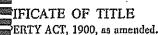
NEW SOUTH WALES

7 \sim

THIS CERTIFICATE OR ANY NOTIFICATION HEREON

PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO

Prior Title (Crown Grant) Vol. 83 Fol: 90







Edition issued 27-10-1966

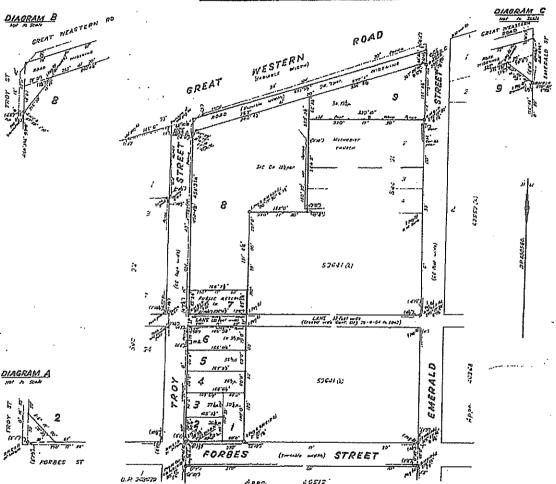
I certify that the person described in the First Schedule is the registered proprietor of the undermentioned estate in described subject nevertheless to such exceptions encumbrances and interests as are shown in the Second Schedule. proprietor of the undermentioned estate in the land within .

Witness 3. OSullman.

SEE AUTO FOL'S Registrar General.



PLAN SHOWING LOCATION OF LAND



ESTATE AND LAND REFERRED TO Estate in Fee Simple in Lot 9 in Deposited Plan 230580 at Emu Plains in the City of Penrith Parish of Strathdon and County of Cook.

FIRST SCHEDULE (continued overleaf)

Registrar General.

SECOND SCHEDULE (continued overleaf)

Reservations and conditions, if any, contained in the Crown Grant above referred to. Mortgage No-K146462 to Donald Maskall, of Bateman's Bay, 28-1041965. DISCHARGED KISSTAD

Registrar General.

DOCUMENTAL SEAL OF THE REGISTRAR GENERAL ARE CANCELLED

Version: 1, Version Date: 29/03/2018







Legal Liaison Services hemeby certifies that the information contained in this document has been provided electronically by the Registrar General.

Information provided through Tri-Search an approved LPINSW Information Broker

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

FOLIO: 9/230580

First Title(s): SEE PRIOR TITLE(S)
Prior Title(s): VOL 10424 FOL 144

Recorded Number Type of Instrument C.T. Issue

5/6/1987 TITLE AUTOMATION PROJECT LOT RECORDED FOLIO NOT CREATED

6/4/1988 CONVERTED TO COMPUTER FOLIO FOLIO CREATED CT NOT ISSUED

7/4/1993 AMENDMENT: LOCAL GOVT AREA

*** END OF SEARCH ***

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LAND AND PROPERTY INFORMATION NEW SOUTH WALES - TITLE SEARCH

FOLIO: 9/230580

 SEARCH DATE
 TIME
 EDITION NO
 DATE

 29/9/2014
 2:51 PM

VOL 10424 FOL 144 IS THE CURRENT CERTIFICATE OF TITLE

LAND

LOT 9 IN DEPOSITED PLAN 230580
AT EMU PLAINS
LOCAL GOVERNMENT AREA PENRITH
PARISH OF STRATHDON COUNTY OF COOK
TITLE DIAGRAM DP230580

FIRST SCHEDULE

THE UNITING CHURCH IN AUSTRALIA PROPERTY TRUST (N.S.W.) (T Q399419)

SECOND SCHEDULE (1 NOTIFICATION)

1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

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LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

FOLIO: 1/650543

First Title(s): VOL 140 FOL 192 Prior Title(s): VOL 140 FOL 192

Number	Type of Instrument	C.T. Issue
	CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
U170991	DEPARTMENTAL DEALING	
	AMENDMENT: TITLE DIAGRAM	
AC994310	APPLICATION	EDITION 1
AH759410	DEPARTMENTAL DEALING	
	U170991 AC994310	CONVERTED TO COMPUTER FOLIO U170991 DEPARTMENTAL DEALING AMENDMENT: TITLE DIAGRAM AC994310 APPLICATION

*** END OF SEARCH ***

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LAND AND PROPERTY INFORMATION NEW SOUTH WALES - TITLE SEARCH

FOLIO: 1/650543

 SEARCH DATE
 TIME
 EDITION NO
 DATE

 29/9/2014
 2:51 PM
 1
 16/4/2007

LAND

LOT 1 IN DEPOSITED PLAN 650543
AT EMU PLAINS
LOCAL GOVERNMENT AREA PENRITH
PARISH OF STRATHDON COUNTY OF COOK
TITLE DIAGRAM DP650543

FIRST SCHEDULE

THE UNITING CHURCH IN AUSTRALIA PROPERTY TRUST (N.S.W) (AP AC994310)

SECOND SCHEDULE (2 NOTIFICATIONS)

- 1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
- * 2 DEDICATED AS A SITE FOR THE ERECTION OF A CHAPEL SEE CROWN GRANT

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

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LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

FOLIO: 3/21/758387

First Title (s): SEE PRIOR TITLE(S)
Prior Title (s): VOL 140 FOL 193

Recorded	Number	Type of Instrument	C.T. Issue
8/3/1990		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
29/4/1991		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
19/7/1999	599867€	DEPARTMENTAL DEALING	
16/4/2007	AC994310	APPLICATION	EDITION 1
7/9/2010	AF531063	REQUEST	
28/11/2012	AH396430	DEPARTMENTAL DEALING	

**** END OF SEARCH ***

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LAND AND PROPERTY INFORMATION NEW SOUTH WALES - TITLE SEARCH

FOLIO: 3/21/758387

LAND

LOT 3 OF SECTION 21 IN DEPOSITED PLAN 758387
AT EMU PLAINS
LOCAL GOVERNMENT AREA PENRITH
PARISH OF STRATHDON COUNTY OF COOK
(FORMERLY KNOWN AS ALLOTMENT 3 OF SECTION 21)
TITLE DIAGRAM CROWN PLAN 25.1984

FIRST SCHEDULE

THE UNITING CHURCH IN AUSTRALIA PROPERTY TRUST (N.S.W) (AP AC994310)

SECOND SCHEDULE (3 NOTIFICATIONS)

- RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
- * 2 AF531063 PART OF THE LAND ABOVE DESCRIBED IS USED AS A
 RETIREMENT VILLAGE UNDER THE RETIREMENT VILLAGES ACT
 1999 KNOWN AS EDINGLASSIE VILLAGE SHOWN HATCHED IN
 PLAN WITH AF531063
- * 3 DEDICATED AS A SITE FOR A WESLEYAN METHODIST MINISTERS RESIDENCE

NOTATIONS

AF531063 NOTE: REFER ALL DEALINGS TO SD2 (RETIREMENT VILLAGE) UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

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LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

FOLIO: 4/21/758387

_ _ -- -- -- --- ---

First Title(s): SEE PRIOR TITLE(S)
Prior Title(s): VOL 4481 FOL 206

Recorded	Number	Type of Instrument	C.T. Issue				
23/3/1990		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED				
21/7/1993		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED				
10/11/1994		AMENDMENT: TITLE DIAGRAM					
16/4/2007	AC994310	APPLICATION	EDITION 1				
7/9/2010	AF531063	REQUEST					
28/11/2012	АН396669	DEPARTMENTAL DEALING					

*** END OF SEARCH ***

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LAND AND PROPERTY INFORMATION NEW SOUTH WALES - TITLE SEARCH

FOLIO: 4/21/758387

LAND

LOT 4 OF SECTION 21 IN DEPOSITED PLAN 758387
AT EMU PLAINS
LOCAL GOVERNMENT AREA PENRITH
PARISH OF STRATHDON COUNTY OF COOK
(FORMERLY KNOWN AS ALLOTMENT 4 OF SECTION 21)
TITLE DIAGRAM CROWN PLAN 25.1984

FIRST SCHEDULE

.....

THE UNITING CHURCH IN AUSTRALIA PROPERTY TRUST (N.S.W) (AP AC994310)

SECOND SCHEDULE (3 NOTIFICATIONS)

- 1 LAND EXCLUDES MINERALS AND IS SUBJECT TO RESERVATIONS AND CONDITIONS IN FAVOUR OF THE CROWN SEE CROWN GRANT(S)
- * 2 AF531063 PART OF THE LAND ABOVE DESCRIBED IS USED AS A
 RETIREMENT VILLAGE UNDER THE RETIREMENT VILLAGES ACT
 1999 KNOWN AS EDINGLASSIE VILLAGE SHOWN HATCHED IN
 PLAN WITH AF531063
- * 3 DEDICATED AS SITE FOR A SCHOOL BY GOV GAZ 15.5.1931

NOTATIONS

AF531063 NOTE: REFER ALL DEALINGS TO SD2 (RETIREMENT VILLAGE) UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

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Appendix E

WorkCover Search





Our Ref: D14/128798 Your Ref: Jessica Little

8th October 2014

d 3 OCT 2014

Attention: Jessica Little Douglas Partners Pty Ltd 96 Hermitage Road, West Ryde NSW 2114

Dear Jessica Little,

RE SITE: 1-11 Emerald Road, Emu Plains, NSW, 2750

I refer to your site search request received by WorkCover NSW on 30th September 2014 requesting information on licences to keep dangerous goods for the above site.

A search of the Stored Chemical Information Database (SCID) and the microfiche records held by WorkCover NSW has not located any records pertaining to the above mentioned premises.

If you have any further queries please contact the Dangerous Goods Licensing Team on (02) 4321 5500.

Yours Sincerely

Michelle Kidd

Customer Service Officer

Dangerous Goods Team

Safety, Return to Work and Support Division

WC03116 0313

Appendix F

Sections 149 (2&5) Certificates



PO Box 60 Penrith NSW 2751

Telephone: 02 4732 7777 Facsimile: 02 4732 7958

2 007 2014

Email: pencit(a)penrithcity.nsw.gov.au

PLANNING CERTIFICATE UNDER SECTION 149

Environmental Planning and Assessment Act, 1979

Property No:

783523

Your Reference:

emu plains post

Contact No:

98090666

Issue Date:

30/09/2014

Certificate No: 14/05088

Receipt Date:

30/09/2014

Receipt No:

2530890

Issued to:

Douglas Partners Pty Ltd/Jessica Little

PO Box 472

WEST RYDE NSW 1685

PRECINCT 356

DESCRIPTION OF LAND

County:

COOK

Parish:

STRATHDON

Location:

11 Emerald Street EMU PLAINS NSW 2750

Land Description:

Lot 4 Sec 21 DP 758387

- PART 1 PRESCRIBED MATTERS -

In accordance with the provisions of Section 149(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 1998 (Urban Land), gazetted 8 January 1999, as amended, applies to the land.

Penrith Local Environmental Plan No. 255 - Exempt and Complying Development, gazetted 24 March 2000, as amended, applies to land within the City of Penrith. (Note: This plan does not apply to the land to which Sydney Regional Environmental Plan No.30 - St Marys applies, except as provided by clause 43 of SREP No. 30 - St Marys.)

Penrith Local Environmental Plan No. 258 - Consent for Dwelling Houses and Other Development, gazetted 29 June 2001, 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 Sydney Regional Environmental Plan No. 11 - Penrith Lakes Scheme applies).

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Email: pencit@penrithcity.nsw.gov.au

PLANNING CERTIFICATE UNDER SECTION 149

Environmental Planning and Assessment Act, 1979

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 City Centre Local Environmental Plan 2008, Penrith Local Environmental Plan (Caddens) 2009, Penrith Local Environmental Plan (Glenmore Park Stage 2) 2009, Penrith Local Environmental Plan (South Werrington Urban Village) 2009, 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.30 - Intensive Agriculture.

State Environmental Planning Policy No.32 - Urban Consolidation (Redevelopment of Urban Land). (Note: This policy does not apply to land identified as coastal protection, environmental protection, escarpment, floodway, natural hazard, non-urban, rural, rural residential, water catchment or wetland.)

State Environmental Planning Policy No.33 - Hazardous and Offensive Development.

State Environmental Planning Policy No.50 - Canal Estate Development. (Note: This policy does not apply to the land to which Penrith Local Environmental Plan 1998 (Lakes Environs) or State Environmental Planning Policy (Penrith Lakes Scheme) 1989 apply.

State Environmental Planning Policy No.55 - Remediation of Land.

State Environmental Planning Policy No.62 - Sustainable Aquaculture.

State Environmental Planning Policy No.64 - Advertising and Signage.

State Environmental Planning Policy No.65 - Design Quality of Residential Flat 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 (Major Development) 2005.

State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007.

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.

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:

The Planning Proposal for the Penrith City-wide Local Environmental Plan applies to the subject land. (See www.penrithcity.nsw.gov.au/ for details.)

Draft State Environmental Planning Policy (Competition) 2010 applies to the land.

Draft State Environmental Planning Policy (Infrastructure) Amendment (Shooting Ranges) 2013 applies to the land.

Draft State Environmental Planning Policy (Exempt and Complying Development Codes) Amendment (Commercial and Industrial) 2014 applies to the land.

Draft State Environmental Planning Policy No. 65 - Design Quality of Residential Flat Development (Amendment No. 3) applies to the land.

Certificate No. 14/05088

Lot 4 Sec 21 DP 758387

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PLANNING CERTIFICATE UNDER SECTION 149

Environmental Planning and Assessment Act, 1979

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

Penrith Development Control Plan 2010 applies to all land subject to Penrith Local Environmental Plan 2010. Penrith Development Control Plan 2006 applies to all land not subject to Penrith Local Environmental Plan 2010.

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).)

Under the terms of Penrith Local Environmental Plan 1998 (Urban Land) the land is zoned as Zone No.2(c) Residential (Low-Medium Density).

- (a) Objectives of the zone
- (i) to reinforce the importance of natural landscape settings and areas with heritage conservation value, and
- (ii) to protect the character of traditional cottage development and streetscapes, and
- (iii) to consolidate population and housing densities, and
- (iv) to expand housing choices by allowing multi-unit housing with a single storey appearance, and
- (v) to promote a variety of housing types or forms upon the site of each proposed development, and
- (vi) to allow a range of compatible non-residential uses.
- (b)(i) Without development consent

bed and breakfast establishments; bushfire hazard reduction; family day-care homes; home activities

(b)(ii) Only with development consent

buildings or other structures ordinarily associated with dwelling houses; changes of building use (as defined in the Act); child care centres; community facilities; demolition of buildings or other structures; drains; dual occupancies; dwelling houses; educational establishments; general stores; guesthouses; health care consulting rooms; home businesses; hospitals; internal structural work in bed and breakfast establishments; multi-unit housing; places of worship; recreation areas; roads; utility installations; utility undertakings

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Lot 4 Sec 21 DP 758387

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PLANNING CERTIFICATE UNDER SECTION 149

Environmental Planning and Assessment Act, 1979

(b)(iii) Prohibited

Any land use other than those included in items (b)(i) and (b)(ii).

Note:

- (1) Despite any other provisions of Penrith Local Environmental Plan 1998 (Urban Land), a person may carry out de velopment for the purpose of any one or more of the following on any land to which this plan applies without the consent of the Council:
- (a) an internal window display;
- (b) any advertisement er ected on land that is not visible from outside the land (but not an advertisement on a herit age item or on a site within a heritage conservation area);
- (c) a temporary advertisement, being one which is displayed for a period not exceeding 2 months in total in any one year;
- (d) a public notice in a public place;
- (e) a road safety or advisory sign;
- (f) a specific sign directing the travelling public to buildings or places of tourist interest. (Clause 31 of the LEP.)
- (2) Land to which Penrith Local Environmental Plan 1998 (Urban Land) applies may be subdivided only with development consent. (Clause 34 of the LEP.)

Penrith Local Environmental Plan No. 258 - Consent for Dwelling Houses and Other Development

In addition to any controls detailed above Penrith Local Environmental Plan No. 258 - Consent for Dwelling Houses and Other Development sets out further circumstances where development consent will be required for particular development. A copy of this LEP is attached.

Under the provisions of the Planning Proposal for the Penrith City-wide Local Environmental Plan the land is affected by the following draft zone:

Zone R3 Medium Den sity Residential

1 Objectives of zone

- To provide for the housing needs of the community within a medium density residential environment.
- To provide a variety of housing types within a medium density residential environment.
- To enable other land uses that provide facilities or services to meet the day to day needs of residents.
- To provide for a concentration of housing with access to services and facilities.
- To enhance the essential character and identity of established residential areas.
- To ensure that a high level of residential amenity is achieved and maintained.

2 Permitted without consent

Home occupations

3 Permitted with consent

Attached dwellings; Bed and breakfast accommodation; Boarding houses; Building identification signs; Business identification signs; Child care centres; Community facilities; Dual occupancies; Dwelling houses; Emergency services facilities; Environmental protection works; Exhibition homes; Exhibition villages; Flood mitigation works; Group homes; Home-based child care; Home businesses; Home industries; Information and

Certificate No. 14/05088

Lot 4 Sec 21 DP 758387

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PLANNING CERTIFICATE UNDER SECTION 149

Environmental Planning and Assessment Act, 1979

education facilities; Multi dwelling housing; Neighbourhood shops; Places of public worship; Recreation areas; Respite day care centres; Roads; Secondary dwellings; Semi-detached dwellings; Seniors housing; Shop top housing

4 Prohibited

Any development not specified in item 2 or 3

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:

No minimum land area provisions for the erection of a dwelling-house apply to the land. Note: There are also certain performance requirements with regard to land dimensions affecting the construction of a dwelling-house on the land. In this regard Council has not considered the physical configuration or suitability of this particular land for the erection of a dwelling-house.

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

GENERAL HOUSING CODE

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

Complying development under the General 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 the Planning Proposal for the Penrith City-wide Local Environmental Plan, or an equivalent zone in a non standard template planning instrument.)

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PLANNING CERTIFICATE UNDER SECTION 149

Environmental Planning and Assessment Act, 1979

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

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.

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 the Planning Proposal for the Penrith City-wide Local Environmental Plan, 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.

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Email: pencit@penrithcity.nsw.gov.au

PLANNING CERTIFICATE UNDER SECTION 149

Environmental Planning and Assessment Act, 1979

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 2010 Section C3.5 Flood Liable Lands and/or Penrith Development Control Plan 2006 Section 2.10 Flood Liable Land. On application and

Certificate No. 14/05088

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PLANNING CERTIFICATE UNDER SECTION 149

Environmental Planning and Assessment Act, 1979

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 27 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 2007 applies to the land if residential development is permissible on the land.

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.

9A BIODIVERSITY CERTIFIED LAND

(Information is provided in this section only if the land is biodiversity certified land (within the meaning of Part 7AA of the *Threatened Species Conservation Act 1995*).)

10 BIOBANKING AGREEMENTS

(Information is provided in this section only if Council has been notified by the Director-General of the Department of Environment, Climate Change and Water that the land is land to which a biobanking agreement under Part 7A of the *Threatened Species Conservation Act 1995* 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 under the Native Vegetation Act 2003 applies.)

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.)

Certificate No. 14/05088

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PLANNING CERTIFICATE UNDER SECTION 149

Environmental Planning and Assessment Act, 1979

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 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

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PLANNING CERTIFICATE UNDER SECTION 149

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- (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 149(5) information for this property may contain additional information regarding contamination issues.

Note: The Environmental Planning and Assessment Amendment Act 1997 commenced operation on the 1 July 1998. 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 (Amendment) Regulation 1998, Environmental Planning and Assessment (Further Amendment) Regulation 1998 and Environmental Planning and Assessment (Savings and Transitional) Regulation 1998 and Environmental Planning and Assessment Regulation 2000.

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

149(5) Certificate This Certificate is directed to the following relevant matters affecting the land

When information pursuant to section 149(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 149(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 149(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.

Certificate No. 14/05088

Lot 4 Sec 21 DP 758387



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PLANNING CERTIFICATE UNDER SECTION 149

Environmental Planning and Assessment Act, 1979

* When considering any development application Council must have regard to the Threatened Species														
Conservati	ion Act 199	5. Pleas	e note t	hat this	s legis	lation	may have	ap	plicatio	n to	any	/ land tl	irougl	hout
the city.	Interested	persons	should	make	their	own	enquiries	in	regard	to	the	impact	that	this
legislation	could have	on this l	and.											

- * The land is subject to minimum building setback requirements. Penrith Development Control Plan 2006 should be consulted to determine exact requirements for the subject land.
- * The land is affected by a Tree Preservation Order.

Alan Stoneham General Manager

PER Alla

Attachment

Penrith Local Environmental Plan No 258 - Consent for Dwelling Houses and Other Development

1 Name of plan

This plan is Penrith Local Environmental Plan No 258 - Consent for Dwelling Houses and Other Development.

2 Aims of plan

This plan aims to:

- (a) require development consent for dwelling houses on residentially zoned land within the City of Penrith, and
- (b) require development consent for dwelling houses on land within the Non-urban zone under the Penrith Planning Scheme Ordinance and on land within the Special Business zone under Penrith Local Environmental Plan 1997 (Penrith City Centre), and
- (c) require development consent for dwelling houses attached to and used in conjunction with shops on land within the Neighbourhood Business zone under the *Penrith Planning Scheme Ordinance*, and
- (d) require development consent for the following:
 - (i) the erection of a building or structure ordinarily associated with a dwelling house,
 - (ii) a change of building use,

Note. At the commencement of this plan, a **change of building use** meant a change of use of a building from a use that the *Building Code of Australia* recognises as appropriate to one class of building to a use that the *Building Code of Australia* recognises as appropriate to a different class of building.

- (iii) demolition of a building or structure,
- (iv) carrying out structural alterations to a building, internal alterations to a building, or external building work in association with business premises, a bed and breakfast establishment, office premises, commercial premises or take away food shops,
- (v) the subdivision of land,

to the extent to which such development does not already require development consent because of another environmental planning instrument in order to be carried out.

3 Land to which plan applies

This plan applies to all land within the City of Penrith.

4 Relationship to other environmental planning instruments

- (1) In the event of an inconsistency between this plan and any other local environmental planning instrument or deemed environmental planning instrument, this plan shall prevail to the extent of the inconsistency, subject to section 36 (4) of the Act.
- (2) This plan amends:
 - (a) Penrith Planning Scheme Ordinance in the manner set out in Schedule 1,
 - (b) Penrith Local Environmental Plan 1997 (Penrith City Centre) in the manner set out in Schedule 2, and
 - (c) Penrith Local Environmental Plan 1998 (Urban Land) in the manner set out in Schedule 3.
- (3) This plan does not affect the application of:
 - (a) State Environmental Planning Policy No 3 Castlereagh Liquid Waste Disposal Depot,

- (b) State Environmental Planning Policy No 27 Prison Sites,
- Sydney Regional Environmental Plan No 9 Extractive Industry,
- (d) Sydney Regional Environmental Plan No. 11 Penrith Lakes Scheme,
- (e) Sydnev Regional Environmental Plan No 20 Hawkesbury-Nepean River (No 2-1997).
- Sydney Regional Environmental Plan No 30 St Marys, or
- (g) Penrith Local Environmental Plan No 255 Exempt and Complying Development,

to land to which this plan applies.

5 Definitions

(1) In this plan:

> a building or structure ordinarily associated with a dwelling house means a garage, carport, pergola, swimming pool, and the like, and includes alterations and additions to an existing dwelling house.

change of building use has the same meaning as in the Act.

Note. At the commencement of this plan, a change of building use meant a change of use of a building from a use that the Building Code of Australia recognises as appropriate to one class of building to a use that the Building Code of Australia recognises as appropriate to a different class of building.

dwelling means a room or number of rooms occupied or used, or so constructed or adapted as to be capable of being occupied or used, as a separate domicile.

dwelling house means a dwelling which is the only dwelling erected on an allotment of land.

subdivision of land has the same meaning as in the Act.

the Act means the Environmental Planning and Assessment Act 1979.

(2) The list of contents and notes in this plan are not part of this plan.

6 Dwelling houses require development consent

- The erection of a dwelling house must not be carried out without development consent. (1)
- (2)This clause applies to residentially zoned land within the City of Penrith.
- This clause applies if the development: (3)
 - (a) does not require development consent because of another environmental planning instrument, and
 - (b) is not prohibited by another environmental planning instrument.

Miscellaneous development that requires development consent

- The following development must not be carried out without development consent: (1)
 - (a) erection of a building or structure ordinarily associated with a dwelling house, or
 - (b) development that results in a change of building use, or
 - (c) demolition of a building or structure, or
 - (d) structural, internal or external building work in association with business premises, a bed and breakfast establishment, office premises, commercial premises or take away food shops.
- (2) This clause applies if the development:
 - (a) does not require development consent because of another environmental planning instrument, and
 - (b) is not prohibited by another environmental planning instrument, and

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Document Set ID: 8116173

- (c) is not identified in *Penrith Local Environmental Plan No 255 Exempt and Complying Development* as exempt development, and
- (d) does not involve Crown building work as defined in section 116G of the Act.

8 Subdivisions require development consent

- (1) A subdivision of land must not be carried out without development consent.
- (2) This clause applies if the subdivision of land:
 - (a) does not require development consent because of another environmental planning instrument, and
 - (b) is not prohibited by another environmental planning instrument, and
 - (c) is not identified in *Penrith Local Environmental Plan No 255 Exempt and Complying Development* as exempt development, and
 - (d) does not involve Crown building work as defined in section 116G of the Act.

Schedule 1 Amendment of Penrith Planning Scheme Ordinance

(Clause 4 (2) (a))

[1] Clause 4 Interpretation

Omit the definition of Country dwelling.

[2] Clause 26 Erection or use of buildings or works

Omit "country dwellings;" from Column III for Zone No 1 of the Table to the clause.

[3] Clause 26, Table

Omit "dwelling-houses other than country dwellings and rural dwellings;" from Column V for Zone No. 1.

[4] Clause 26, Table

Omit "Dwelling-houses other than semi-detached and terrace buildings." from Column III for Zone No 2(a).

[5] Clause 26, Table

Omit "Residential buildings." from Column III for Zone No 2 (b).

[6] Clause 26, Table

Omit "Dwelling-houses other than semi-detached or terrace buildings." from Column III for Zone No 2 (c).

[7] Clause 26, Table

Omit ";dwelling-houses attached to and used in conjunction with shops" from Column III for Zone No 3 (c).

[8] Clause 26, Table

Omit "Purposes" from Column IV for Zone No 3(c).

Insert instead "Buildings or other structures ordinarily associated with dwelling houses; changes of building use (as defined in the *Environmental Planning and Assessment Act 1979*); dwelling-houses attached to and used in conjunction with shops; demolition of buildings or other structures; land uses and premises".

[9] Clause 26, Table

Insert "; structural or internal alterations to, or external building work in association with, commercial premises or refreshment rooms" after "roads" in Column IV for Zone No 3(c).

[10] Clause 38 Development in residential zones

Omit the clause.

[11] Clause 46 Variation of area required for country dwelling

Omit the clause.

Schedule 2 Amendment of Penrith Local Environmental

Plan 1997 (Penrith City Centre)

(Clause 4 (2) (b))

[1] Clause 9 Zone objectives and development control table

Omit from item (b) (i) Without development consent for Zone No 2 (f) in the Development Control Table:

dwelling-houses

[2] Clause 9, table

Insert in alphabetical order in item (b) (ii) Only with development consent for Zone No 2 (f):

- buildings or other structures ordinarily associated with dwelling-houses
- demolition of buildings or other structures
- dwelling-houses

[3] Clause 20 Development of land within Zone No 3 (a)

Insert "where the new use does not involve structural or internal alterations or external buildings works" after the words "or take away food shops".

Schedule 3 Amendment of Penrith Local Environmental Plan 1998 (Urban Land)

(Clause 4 (2) (c))

[1] Clause 9 Zone objectives and development control table

Omit wherever occurring from item (b) (i) Without development consent for Zones Nos 2 (a1), 2 (a), 2 (b), 2 (c), 2 (d) and 2 (e) in the Development Control Table:

dwelling houses

[2] Clause 9, table

Insert in alphabetical order in item (b) (ii) Only with development consent for Zones Nos 2 (a1), 2 (a), 2 (b), 2 (c), 2 (d) and 2 (e):

- buildings or other structures ordinarily associated with dwelling houses
- changes of building use (as defined in the Act)
- demolition of buildings or other structures
- dwelling houses
- internal structural work in bed and breakfast establishments

[3] Clause 9, table

Insert in alphabetical order in item b (ii) Only with development consent for Zones Nos 2 (r) and 2 (r1);

- buildings or other structures ordinarily associated with dwelling houses
- changes of building use (as defined in the Act)
- demolition of buildings or other structures
- structural or internal alterations to bed and breakfast establishments

[4] Clause 9, table

Insert in alphabetical order in item (b) (ii) Only with development consent for Zone No 3 (f):

- changes of building use (as defined in the Act)
- demolition of buildings or other structures
- external building work associated with an existing land use carried out with consent
- structural or internal alterations to a building or other structure erected with consent or building approval

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PLANNING CERTIFICATE UNDER SECTION 149

Environmental Planning and Assessment Act, 1979

Property No:

783523

Your Reference:

emu plains post

Contact No:

98090666

Issue Date:

30/09/2014

Certificate No: 14/05089

30/02/201

Receipt Date:

30/09/2014

Receipt No:

253890

Issued to:

Douglas Partners Pty Ltd/Jessica Little

PO Box 472

WEST RYDE NSW 1685

PRECINCT 356

DESCRIPTION OF LAND

County:

COOK

Parish:

STRATHDON

Location:

9 Emerald Street EMU PLAINS NSW 2750

Land Description:

Lot 3 Sec 21 DP 758387

- PART 1 PRESCRIBED MATTERS -

In accordance with the provisions of Section 149(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 1998 (Urban Land), gazetted 8 January 1999, as amended, applies to the land.

Penrith Local Environmental Plan No. 255 - Exempt and Complying Development, gazetted 24 March 2000, as amended, applies to land within the City of Penrith. (Note: This plan does not apply to the land to which Sydney Regional Environmental Plan No.30 - St Marys applies, except as provided by clause 43 of SREP No. 30 - St Marys.)

Penrith Local Environmental Plan No. 258 - Consent for Dwelling Houses and Other Development, gazetted 29 June 2001, 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 Sydney Regional Environmental Plan No. 11 - Penrith Lakes Scheme applies).

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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 City Centre Local Environmental Plan 2008, Penrith Local Environmental Plan (Caddens) 2009, Penrith Local Environmental Plan (Glenmore Park Stage 2) 2009, Penrith Local Environmental Plan (South Werrington Urban Village) 2009, 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.30 - Intensive Agriculture.

State Environmental Planning Policy No.32 - Urban Consolidation (Redevelopment of Urban Land). (Note: This policy does not apply to land identified as coastal protection, environmental protection, escarpment, floodway, natural hazard, non-urban, rural, rural residential, water catchment or wetland.)

State Environmental Planning Policy No.33 - Hazardous and Offensive Development.

State Environmental Planning Policy No.50 - Canal Estate Development. (Note: This policy does not apply to the land to which Penrith Local Environmental Plan 1998 (Lakes Environs) or State Environmental Planning Policy (Penrith Lakes Scheme) 1989 apply.

State Environmental Planning Policy No.55 - Remediation of Land.

State Environmental Planning Policy No.62 - Sustainable Aquaculture.

State Environmental Planning Policy No.64 - Advertising and Signage.

State Environmental Planning Policy No.65 - Design Quality of Residential Flat 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 (Major Development) 2005.

State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007.

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.

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:

The Planning Proposal for the Penrith City-wide Local Environmental Plan applies to the subject land. (See www.penrithcity.nsw.gov.au/ for details.)

Draft State Environmental Planning Policy (Competition) 2010 applies to the land.

Draft State Environmental Planning Policy (Infrastructure) Amendment (Shooting Ranges) 2013 applies to the land.

Draft State Environmental Planning Policy (Exempt and Complying Development Codes) Amendment (Commercial and Industrial) 2014 applies to the land.

Draft State Environmental Planning Policy No. 65 - Design Quality of Residential Flat Development (Amendment No. 3) applies to the land.

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PLANNING CERTIFICATE UNDER SECTION 149

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

Penrith Development Control Plan 2010 applies to all land subject to Penrith Local Environmental Plan 2010. Penrith Development Control Plan 2006 applies to all land not subject to Penrith Local Environmental Plan 2010.

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).)

Under the terms of Penrith Local Environmental Plan 1998 (Urban Land) the land is zoned as Zone No.2(c) Residential (Low-Medium Density).

- (a) Objectives of the zone
- (i) to reinforce the importance of natural landscape settings and areas with heritage conservation value, and
- (ii) to protect the character of traditional cottage development and streetscapes, and
- (iii) to consolidate population and housing densities, and
- (iv) to expand housing choices by allowing multi-unit housing with a single storey appearance, and
- (v) to promote a variety of housing types or forms upon the site of each proposed development, and
- (vi) to allow a range of compatible non-residential uses.
- (b)(i) Without development consent

bed and breakfast establishments; bushfire hazard reduction; family day-care homes; home activities

(b)(ii) Only with development consent

buildings or other structures ordinarily associated with dwelling houses; changes of building use (as defined in the Act); child care centres; community facilities; demolition of buildings or other structures; drains; dual occupancies; dwelling houses; educational establishments; general stores; guesthouses; health care consulting rooms; home businesses; hospitals; internal structural work in bed and breakfast establishments; multi-unit housing; places of worship; recreation areas; roads; utility installations; utility undertakings

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PLANNING CERTIFICATE UNDER SECTION 149

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(b)(iii) Prohibited

Any land use other than those included in items (b)(i) and (b)(ii).

Note:

- (1) Despite any other provisions of Penrith Local Environmental Plan 1998 (Urban Land), a person may carry out development for the purpose of any one or more of the following on any land to which this plan applies without the consent of the Council:
- (a) an internal window display;
- (b) any advertisement erected on land that is not visible from outside the land (but not an advertisement on a heritage item or on a site within a heritage conservation area);
- (c) a temporary advertisement, being one which is displayed for a period not exceeding 2 months in total in any one year;
- (d) a public notice in a public place;
- (e) a road safety or advisory sign;
- (f) a specific sign directing the travelling public to buildings or places of tourist interest. (Clause 31 of the LEP.)
- (2) Land to which Penrith Local Environmental Plan 1998 (Urban Land) applies may be subdivided only with development consent. (Clause 34 of the LEP.)

Penrith Local Environmental Plan No. 258 - Consent for Dwelling Houses and Other Development

In addition to any controls detailed above Penrith Local Environmental Plan No. 258 - Consent for Dwelling Houses and Other Development sets out further circumstances where development consent will be required for particular development. A copy of this LEP is attached.

Under the provisions of the Planning Proposal for the Penrith City-wide Local Environmental Plan the land is affected by the following draft zone:

Zone R3 Medium Density Residential

1 Objectives of zone

- To provide for the housing needs of the community within a medium density residential environment.
- To provide a variety of housing types within a medium density residential environment.
- To enable other land uses that provide facilities or services to meet the day to day needs of residents.
- To provide for a concentration of housing with access to services and facilities.
- To enhance the essential character and identity of established residential areas.
- To ensure that a high level of residential amenity is achieved and maintained.

2 Permitted without consent

Home occupations

3 Permitted with consent

Attached dwellings; Bed and breakfast accommodation; Boarding houses; Building identification signs; Business identification signs; Child care centres; Community facilities; Dual occupancies; Dwelling houses; Emergency services facilities; Environmental protection works; Exhibition homes; Exhibition villages; Flood mitigation works; Group homes; Home-based child care; Home businesses; Home industries; Information and

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education facilities; Multi dwelling housing; Neighbourhood shops; Places of public worship; Recreation areas; Respite day care centres; Roads; Secondary dwellings; Semi-detached dwellings; Seniors housing; Shop top housing

4 Prohibited

Any development not specified in item 2 or 3

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:

No minimum land area provisions for the erection of a dwelling-house apply to the land. Note: There are also certain performance requirements with regard to land dimensions affecting the construction of a dwelling-house on the land. In this regard Council has not considered the physical configuration or suitability of this particular land for the erection of a dwelling-house.

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

GENERAL HOUSING CODE

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

Complying development under the General 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 the Planning Proposal for the Penrith City-wide Local Environmental Plan, or an equivalent zone in a non standard template planning instrument.)

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

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.

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 the Planning Proposal for the Penrith City-wide Local Environmental Plan, 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.)

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PLANNING CERTIFICATE UNDER SECTION 149

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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.

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Note: The land is subject to Penrith Development Control Plan 2010 Section C3.5 Flood Liable Lands and/or Penrith Development Control Plan 2006 Section 2.10 Flood Liable Land. 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 27 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 2007 applies to the land if residential development is permissible on the land.

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.

9A BIODIVERSITY CERTIFIED LAND

(Information is provided in this section only if the land is biodiversity certified land (within the meaning of Part 7AA of the *Threatened Species Conservation Act 1995*).)

10 BIOBANKING AGREEMENTS

(Information is provided in this section only if Council has been notified by the Director-General of the Department of Environment, Climate Change and Water that the land is land to which a biobanking agreement under Part 7A of the *Threatened Species Conservation Act 1995* 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 under the Native Vegetation Act 2003 applies.)

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.)

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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 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

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- (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 149(5) information for this property may contain additional information regarding contamination issues.

Note: The Environmental Planning and Assessment Amendment Act 1997 commenced operation on the 1 July 1998. 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 (Amendment) Regulation 1998, Environmental Planning and Assessment (Further Amendment) Regulation 1998 and Environmental Planning and Assessment (Savings and Transitional) Regulation 1998 and Environmental Planning and Assessment Regulation 2000.

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

149(5) Certificate This Certificate is directed to the following relevant matters affecting the land

When information pursuant to section 149(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 149(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 149(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.

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* When co	onsidering a	ny devel	opment	applica	ation (Counc	il must ha	ve 1	egard t	o th	e Th	reatene	d Spe	cies
Conservat	ion Act 199	5. Pleas	e note t	hat this	legis	lation	may have	ap	plicatio	n to	any	land th	rougl	hout
the city.	Interested	persons	should	make	their	own	enquiries	in	regard	to	the	impact	that	this
legislation	could have	on this l	and.											

- * The land is subject to minimum building setback requirements. Penrith Development Control Plan 2006 should be consulted to determine exact requirements for the subject land.
- * The land is affected by a Tree Preservation Order.

Alan Stoneham General Manager

DED Affalling

Certificate No. 14/05089

Lot 3 Sec 21 DP 758387

Attachment

Penrith Local Environmental Plan No 258 - Consent for Dwelling Houses and Other Development

1 Name of plan

This plan is Penrith Local Environmental Plan No 258 - Consent for Dwelling Houses and Other Development.

2 Aims of plan

This plan aims to:

- (a) require development consent for dwelling houses on residentially zoned land within the City of Penrith, and
- (b) require development consent for dwelling houses on land within the Non-urban zone under the Penrith Planning Scheme Ordinance and on land within the Special Business zone under Penrith Local Environmental Plan 1997 (Penrith City Centre), and
- (c) require development consent for dwelling houses attached to and used in conjunction with shops on land within the Neighbourhood Business zone under the *Penrith Planning Scheme Ordinance*, and
- (d) require development consent for the following:
 - the erection of a building or structure ordinarily associated with a dwelling house,
 - (ii) a change of building use,

Note. At the commencement of this plan, a change of building use meant a change of use of a building from a use that the *Building Code of Australia* recognises as appropriate to one class of building to a use that the *Building Code of Australia* recognises as appropriate to a different class of building.

- (iii) demolition of a building or structure,
- (iv) carrying out structural alterations to a building, internal alterations to a building, or external building work in association with business premises, a bed and breakfast establishment, office premises, commercial premises or take away food shops,
- (v) the subdivision of land,

to the extent to which such development does not already require development consent because of another environmental planning instrument in order to be carried out.

3 Land to which plan applies

This plan applies to all land within the City of Penrith.

4 Relationship to other environmental planning instruments

- (1) In the event of an inconsistency between this plan and any other local environmental planning instrument or deemed environmental planning instrument, this plan shall prevail to the extent of the inconsistency, subject to section 36 (4) of the Act.
- (2) This plan amends:
 - (a) Penrith Planning Scheme Ordinance in the manner set out in Schedule 1,
 - (b) Penrith Local Environmental Plan 1997 (Penrith City Centre) in the manner set out in Schedule 2, and
 - (c) Penrith Local Environmental Plan 1998 (Urban Land) in the manner set out in Schedule 3.
- (3) This plan does not affect the application of:
 - (a) State Environmental Planning Policy No 3 Castlereagh Liquid Waste Disposal Depot,

- (b) State Environmental Planning Policy No 27 Prison Sites,
- Sydney Regional Environmental Plan No 9 Extractive Industry,
- Sydney Regional Environmental Plan No. 11 Penrith Lakes Scheme,
- Sydney Regional Environmental Plan No 20 Hawkesbury-Nepean River (No 2-1997).
- Sydney Regional Environmental Plan No 30 St Marys, or
- Penrith Local Environmental Plan No 255 Exempt and Complying Development,

to land to which this plan applies.

5 Definitions

(1) In this plan:

> a building or structure ordinarily associated with a dwelling house means a garage, carport, pergola, swimming pool, and the like, and includes alterations and additions to an existing dwelling house.

change of building use has the same meaning as in the Act.

Note. At the commencement of this plan, a change of building use meant a change of use of a building from a use that the Building Code of Australia recognises as appropriate to one class of building to a use that the Building Code of Australia recognises as appropriate to a different class of building.

dwelling means a room or number of rooms occupied or used, or so constructed or adapted as to be capable of being occupied or used, as a separate domicile.

dwelling house means a dwelling which is the only dwelling erected on an allotment of land.

subdivision of land has the same meaning as in the Act.

the Act means the Environmental Planning and Assessment Act 1979.

(2) The list of contents and notes in this plan are not part of this plan.

Dwelling houses require development consent

- The erection of a dwelling house must not be carried out without development consent. (1)
- (2)This clause applies to residentially zoned land within the City of Penrith.
- This clause applies if the development: (3)
 - does not require development consent because of another environmental planning instrument, and
 - (b) is not prohibited by another environmental planning instrument.

7. Miscellaneous development that requires development consent

- The following development must not be carried out without development consent: (1)
 - (a) erection of a building or structure ordinarily associated with a dwelling house, or
 - (b) development that results in a change of building use, or
 - (c) demolition of a building or structure, or
 - structural, internal or external building work in association with business premises, a bed and breakfast establishment, office premises, commercial premises or take away food shops.
- (2) This clause applies if the development:
 - does not require development consent because of another environmental planning instrument, and
 - is not prohibited by another environmental planning instrument, and

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Document Set ID: 8116173

- (c) is not identified in *Penrith Local Environmental Plan No 255 Exempt and Complying Development* as exempt development, and
- (d) does not involve Crown building work as defined in section 116G of the Act.

8 Subdivisions require development consent

- (1) A subdivision of land must not be carried out without development consent.
- (2) This clause applies if the subdivision of land:
 - (a) does not require development consent because of another environmental planning instrument, and
 - (b) is not prohibited by another environmental planning instrument, and
 - (c) is not identified in *Penrith Local Environmental Plan No 255 Exempt and Complying Development* as exempt development, and
 - (d) does not involve Crown building work as defined in section 116G of the Act.

Schedule 1 Amendment of Penrith Planning Scheme Ordinance

(Clause 4 (2) (a))

[1] Clause 4 Interpretation

Omit the definition of Country dwelling.

[2] Clause 26 Erection or use of buildings or works

Omit "country dwellings;" from Column III for Zone No 1 of the Table to the clause.

[3] Clause 26, Table

Omit "dwelling-houses other than country dwellings and rural dwellings;" from Column V for Zone No. 1.

[4] Clause 26, Table

Omit "Dwelling-houses other than semi-detached and terrace buildings." from Column III for Zone No 2(a).

[5] Clause 26, Table

Omit "Residential buildings." from Column III for Zone No 2 (b).

[6] Clause 26, Table

Omit "Dwelling-houses other than semi-detached or terrace buildings." from Column III for Zone No 2 (c).

[7] Clause 26, Table

Omit ";dwelling-houses attached to and used in conjunction with shops" from Column III for Zone No 3 (c).

[8] Clause 26, Table

Omit "Purposes" from Column IV for Zone No 3(c).

Insert instead "Buildings or other structures ordinarily associated with dwelling houses; changes of building use (as defined in the *Environmental Planning and Assessment Act 1979*); dwelling-houses attached to and used in conjunction with shops; demolition of buildings or other structures; land uses and premises".

[9] Clause 26, Table

Insert "; structural or internal alterations to, or external building work in association with, commercial premises or refreshment rooms" after "roads" in Column IV for Zone No 3(c).

[10] Clause 38 Development in residential zones

Omit the clause.

[11] Clause 46 Variation of area required for country dwelling

Omit the clause.

Schedule 2 Amendment of Penrith Local Environmental

Plan 1997 (Penrith City Centre)

(Clause 4 (2) (b))

[1] Clause 9 Zone objectives and development control table

Omit from item (b) (i) Without development consent for Zone No 2 (f) in the Development Control Table:

dwelling-houses

[2] Clause 9, table

Insert in alphabetical order in item (b) (ii) Only with development consent for Zone No 2 (f):

- buildings or other structures ordinarily associated with dwelling-houses
- demolition of buildings or other structures
- dwelling-houses

[3] Clause 20 Development of land within Zone No 3 (a)

Insert "where the new use does not involve structural or internal alterations or external buildings works" after the words "or take away food shops".

Schedule 3 Amendment of Penrith Local Environmental Plan 1998 (Urban Land)

(Clause 4 (2) (c))

[1] Clause 9 Zone objectives and development control table

Omit wherever occurring from item (b) (i) Without development consent for Zones Nos 2 (a1), 2 (a), 2 (b), 2 (c), 2 (d) and 2 (e) in the Development Control Table:

dwelling houses

[2] Clause 9, table

Insert in alphabetical order in item (b) (ii) Only with development consent for Zones Nos 2 (a1), 2 (a), 2 (b), 2 (c), 2 (d) and 2 (e):

- buildings or other structures ordinarily associated with dwelling houses
- changes of building use (as defined in the Act)
- demolition of buildings or other structures
- dwelling houses
- internal structural work in bed and breakfast establishments

[3] Clause 9, table

Insert in alphabetical order in item b (ii) Only with development consent for Zones Nos 2 (r) and 2 (r1);

- buildings or other structures ordinarily associated with dwelling houses
- changes of building use (as defined in the Act)
- demolition of buildings or other structures
- structural or internal alterations to bed and breakfast establishments

[4] Clause 9, table

Insert in alphabetical order in item (b) (ii) Only with development consent for Zone No 3 (f):

- changes of building use (as defined in the Act)
- demolition of buildings or other structures
- external building work associated with an existing land use carried out with consent
- structural or internal alterations to a building or other structure erected with consent or building approval



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PLANNING CERTIFICATE UNDER SECTION 149

Environmental Planning and Assessment Act, 1979

Property No:

253077

Your Reference:

emu plains piost

Contact No:

98090666

Issue Date:

30/09/2014

Certificate No: 14/05087

14/05007

Receipt Date:

30/09/2014

Receipt No:

2530890

Issued to:

Douglas Partners Pty Ltd/Jessica Little

PO Box 472

WEST RYDE NSW 1685

PRECINCT 356

DESCRIPTION OF LAND

County:

COOK

Parish:

STRATHDON

Location:

1-3 Emerald Street EMU PLAINS NSW 2750

Land Description:

Lot 9 DP 230580

- PART 1 PRESCRIBED MATTERS -

In accordance with the provisions of Section 149(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 1998 (Urban Land), gazetted 8 January 1999, as amended, applies to the land.

Penrith Local Environmental Plan No. 255 - Exempt and Complying Development, gazetted 24 March 2000, as amended, applies to land within the City of Penrith. (Note: This plan does not apply to the land to which Sydney Regional Environmental Plan No.30 - St Marys applies, except as provided by clause 43 of SREP No. 30 - St Marys.)

Penrith Local Environmental Plan No. 258 - Consent for Dwelling Houses and Other Development, gazetted 29 June 2001, 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 Sydney Regional Environmental Plan No. 11 - Penrith Lakes Scheme applies).

Certificate No. 14/05087

Lot 9 DP 230580

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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 City Centre Local Environmental Plan 2008, Penrith Local Environmental Plan (Caddens) 2009, Penrith Local Environmental Plan (Glenmore Park Stage 2) 2009, Penrith Local Environmental Plan (South Werrington Urban Village) 2009, 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.30 - Intensive Agriculture.

State Environmental Planning Policy No.32 - Urban Consolidation (Redevelopment of Urban Land). (Note: This policy does not apply to land identified as coastal protection, environmental protection, escarpment, floodway, natural hazard, non-urban, rural, rural residential, water catchment or wetland.)

State Environmental Planning Policy No.33 - Hazardous and Offensive Development.

State Environmental Planning Policy No.50 - Canal Estate Development. (Note: This policy does not apply to the land to which Penrith Local Environmental Plan 1998 (Lakes Environs) or State Environmental Planning Policy (Penrith Lakes Scheme) 1989 apply.

State Environmental Planning Policy No.55 - Remediation of Land.

State Environmental Planning Policy No.62 - Sustainable Aquaculture.

State Environmental Planning Policy No.64 - Advertising and Signage.

State Environmental Planning Policy No.65 - Design Quality of Residential Flat 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 (Major Development) 2005.

State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007.

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.

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:

The Planning Proposal for the Penrith City-wide Local Environmental Plan applies to the subject land. (See www.penrithcity.nsw.gov.au/ for details.)

Draft State Environmental Planning Policy (Competition) 2010 applies to the land.

Draft State Environmental Planning Policy (Infrastructure) Amendment (Shooting Ranges) 2013 applies to the land.

Draft State Environmental Planning Policy (Exempt and Complying Development Codes) Amendment (Commercial and Industrial) 2014 applies to the land.

Draft State Environmental Planning Policy No. 65 - Design Quality of Residential Flat Development (Amendment No. 3) applies to the land.

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PLANNING CERTIFICATE UNDER SECTION 149

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

Penrith Development Control Plan 2010 applies to all land subject to Penrith Local Environmental Plan 2010. Penrith Development Control Plan 2006 applies to all land not subject to Penrith Local Environmental Plan 2010.

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).)

Under the terms of Penrith Local Environmental Plan 1998 (Urban Land) the land is zoned as Zone No.2(c) Residential (Low-Medium Density).

- (a) Objectives of the zone
- (i) to reinforce the importance of natural landscape settings and areas with heritage conservation value, and
- (ii) to protect the character of traditional cottage development and streetscapes, and
- (iii) to consolidate population and housing densities, and
- (iv) to expand housing choices by allowing multi-unit housing with a single storey appearance, and
- (v) to promote a variety of housing types or forms upon the site of each proposed development, and
- (vi) to allow a range of compatible non-residential uses.
- (b)(i) Without development consent

bed and breakfast establishments; bushfire hazard reduction; family day-care homes; home activities

(b)(ii) Only with development consent

buildings or other structures ordinarily associated with dwelling houses; changes of building use (as defined in the Act); child care centres; community facilities; demolition of buildings or other structures; drains; dual occupancies; dwelling houses; educational establishments; general stores; guesthouses; health care consulting rooms; home businesses; hospitals; internal structural work in bed and breakfast establishments; multi-unit housing; places of worship; recreation areas; roads; utility installations; utility undertakings

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PLANNING CERTIFICATE UNDER SECTION 149

Environmental Planning and Assessment Act, 1979

(b)(iii) Prohibited

Any land use other than those included in items (b)(i) and (b)(ii).

Note:

- (1) Despite any other provisions of Penrith Local Environmental Plan 1998 (Urban Land), a person may carry out development for the purpose of any one or more of the following on any land to which this plan applies without the consent of the Council:
- (a) an internal window display;
- (b) any advertisement erected on land that is not visible from outside the land (but not an advertisement on a heritage item or on a site within a heritage conservation area);
- (c) a temporary advertisement, being one which is displayed for a period not exceeding 2 months in total in any one year;
- (d) a public notice in a public place;
- (e) a road safety or advisory sign;
- (f) a specific sign directing the travelling public to buildings or places of tourist interest. (Clause 31 of the LEP.)
- (2) Land to which Penrith Local Environmental Plan 1998 (Urban Land) applies may be subdivided only with development consent. (Clause 34 of the LEP.)

Penrith Local Environmental Plan No. 258 - Consent for Dwelling Houses and Other Development

In addition to any controls detailed above Penrith Local Environmental Plan No. 258 - Consent for Dwelling Houses and Other Development sets out further circumstances where development consent will be required for particular development. A copy of this LEP is attached.

Under the provisions of the Planning Proposal for the Penrith City-wide Local Environmental Plan the land is affected by the following draft zone:

Zone R3 Medium Density Residential

1 Objectives of zone

- To provide for the housing needs of the community within a medium density residential environment.
- To provide a variety of housing types within a medium density residential environment.
- To enable other land uses that provide facilities or services to meet the day to day needs of residents.
- To provide for a concentration of housing with access to services and facilities.
- To enhance the essential character and identity of established residential areas.
- To ensure that a high level of residential amenity is achieved and maintained.

2 Permitted without consent

Home occupations

3 Permitted with consent

Attached dwellings; Bed and breakfast accommodation; Boarding houses; Building identification signs; Business identification signs; Child care centres; Community facilities; Dual occupancies; Dwelling houses; Emergency services facilities; Environmental protection works; Exhibition homes; Exhibition villages; Flood mitigation works; Group homes; Home-based child care; Home businesses; Home industries; Information and

Certificate No. 14/05087

Lot 9 DP 230580

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PLANNING CERTIFICATE UNDER SECTION 149

Environmental Planning and Assessment Act, 1979

education facilities; Multi dwelling housing; Neighbourhood shops; Places of public worship; Recreation areas; Respite day care centres; Roads; Secondary dwellings; Semi-detached dwellings; Seniors housing; Shop top housing

4 Prohibited

Any development not specified in item 2 or 3

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:

No minimum land area provisions for the erection of a dwelling-house apply to the land. Note: There are also certain performance requirements with regard to land dimensions affecting the construction of a dwelling-house on the land. In this regard Council has not considered the physical configuration or suitability of this particular land for the erection of a dwelling-house.

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

GENERAL HOUSING CODE

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

Complying development under the General 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 the Planning Proposal for the Penrith City-wide Local Environmental Plan, or an equivalent zone in a non standard template planning instrument.)

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

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.

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 the Planning Proposal for the Penrith City-wide Local Environmental Plan, 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.)

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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.

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Note: The land is subject to Penrith Development Control Plan 2010 Section C3.5 Flood Liable Lands and/or Penrith Development Control Plan 2006 Section 2.10 Flood Liable Land. 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 27 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 2007 applies to the land if residential development is permissible on the land.

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.

9A BIODIVERSITY CERTIFIED LAND

(Information is provided in this section only if the land is biodiversity certified land (within the meaning of Part 7AA of the *Threatened Species Conservation Act 1995*).)

10 BIOBANKING AGREEMENTS

(Information is provided in this section only if Council has been notified by the Director-General of the Department of Environment, Climate Change and Water that the land is land to which a biobanking agreement under Part 7A of the *Threatened Species Conservation Act 1995* 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 under the Native Vegetation Act 2003 applies.)

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.)

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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 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

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(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 149(5) information for this property may contain additional information regarding contamination issues.

Note: The Environmental Planning and Assessment Amendment Act 1997 commenced operation on the 1 July 1998. 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 (Amendment) Regulation 1998, Environmental Planning and Assessment (Further Amendment) Regulation 1998 and Environmental Planning and Assessment (Savings and Transitional) Regulation 1998 and Environmental Planning and Assessment Regulation 2000.

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

149(5) Certificate This Certificate is directed to the following relevant matters affecting the land

When information pursuant to section 149(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 149(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 149(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.

Certificate No. 14/05087 Lot 9 DP 230580



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* When co	nsidering a	ny devel	opment	applica	ation (Counc	il must ha	ve r	egard to	o th	e Th	reatene	d Spe	cies
Conservati	on Act 199	5. Pleas	e note t	hat this	legis	lation	may have	apj	olicatio	n to	any	land th	ırougl	hout
the city.	Interested	persons	should	make	their	own	enquiries	in	regard	to	the	impact	that	this
legislation	could have	on this l	and.											

- * The land is subject to minimum building setback requirements. Penrith Development Control Plan 2006 should be consulted to determine exact requirements for the subject land.
- * The land is affected by a Tree Preservation Order.

Alan Stoneham General Manager

PER Aldlier

Attachment

Penrith Local Environmental Plan No 258 - Consent for Dwelling Houses and Other Development

1 Name of plan

This plan is Penrith Local Environmental Plan No 258 - Consent for Dwelling Houses and Other Development.

2 Aims of plan

This plan aims to:

- (a) require development consent for dwelling houses on residentially zoned land within the City of Penrith, and
- (b) require development consent for dwelling houses on land within the Non-urban zone under the Penrith Planning Scheme Ordinance and on land within the Special Business zone under Penrith Local Environmental Plan 1997 (Penrith City Centre), and
- (c) require development consent for dwelling houses attached to and used in conjunction with shops on land within the Neighbourhood Business zone under the *Penrith Planning Scheme Ordinance*, and
- (d) require development consent for the following:
 - (i) the erection of a building or structure ordinarily associated with a dwelling house,
 - (ii) a change of building use,

Note. At the commencement of this plan, a change of building use meant a change of use of a building from a use that the *Building Code of Australia* recognises as appropriate to one class of building to a use that the *Building Code of Australia* recognises as appropriate to a different class of building.

- (iii) demolition of a building or structure,
- (iv) carrying out structural alterations to a building, internal alterations to a building, or external building work in association with business premises, a bed and breakfast establishment, office premises, commercial premises or take away food shops,
- (v) the subdivision of land,

to the extent to which such development does not already require development consent because of another environmental planning instrument in order to be carried out.

3 Land to which plan applies

This plan applies to all land within the City of Penrith.

4 Relationship to other environmental planning instruments

- (1) In the event of an inconsistency between this plan and any other local environmental planning instrument or deemed environmental planning instrument, this plan shall prevail to the extent of the inconsistency, subject to section 36 (4) of the Act.
- (2) This plan amends:
 - (a) Penrith Planning Scheme Ordinance in the manner set out in Schedule 1,
 - (b) Penrith Local Environmental Plan 1997 (Penrith City Centre) in the manner set out in Schedule 2, and
 - (c) Penrith Local Environmental Plan 1998 (Urban Land) in the manner set out in Schedule 3.
- (3) This plan does not affect the application of:
 - (a) State Environmental Planning Policy No 3 Castlereagh Liquid Waste Disposal Depot,

- (b) State Environmental Planning Policy No 27 Prison Sites,
- (c) Sydney Regional Environmental Plan No 9 Extractive Industry,
- (d) Sydney Regional Environmental Plan No. 11 Penrith Lakes Scheme,
- (e) Sydney Regional Environmental Plan No 20 Hawkesbury-Nepean River (No 2-1997),
- (f) Sydney Regional Environmental Plan No 30 St Marys, or
- (g) Penrith Local Environmental Plan No 255 Exempt and Complying Development,

to land to which this plan applies.

5 Definitions

(1) In this plan:

a building or structure ordinarily associated with a dwelling house means a garage, carport, pergola, swimming pool, and the like, and includes alterations and additions to an existing dwelling house.

change of building use has the same meaning as in the Act.

Note. At the commencement of this plan, a **change of building use** meant a change of use of a building from a use that the **Building Code of Australia** recognises as appropriate to one class of building to a use that the **Building Code of Australia** recognises as appropriate to a different class of building.

dwelling means a room or number of rooms occupied or used, or so constructed or adapted as to be capable of being occupied or used, as a separate domicile.

dwelling house means a dwelling which is the only dwelling erected on an allotment of land.

subdivision of land has the same meaning as in the Act.

the Act means the Environmental Planning and Assessment Act 1979.

(2) The list of contents and notes in this plan are not part of this plan.

6 Dwelling houses require development consent

- (1) The erection of a dwelling house must not be carried out without development consent.
- (2) This clause applies to residentially zoned land within the City of Penrith.
- (3) This clause applies if the development:
 - (a) does not require development consent because of another environmental planning instrument, and
 - (b) is not prohibited by another environmental planning instrument.

7. Miscellaneous development that requires development consent

- (1) The following development must not be carried out without development consent:
 - (a) erection of a building or structure ordinarily associated with a dwelling house, or
 - (b) development that results in a change of building use, or
 - (c) demolition of a building or structure, or
 - (d) structural, internal or external building work in association with business premises, a bed and breakfast establishment, office premises, commercial premises or take away food shops.
- (2) This clause applies if the development:
 - (a) does not require development consent because of another environmental planning instrument, and
 - (b) is not prohibited by another environmental planning instrument, and

- (c) is not identified in *Penrith Local Environmental Plan No 255 Exempt and Complying Development* as exempt development, and
- (d) does not involve Crown building work as defined in section 116G of the Act.

8 Subdivisions require development consent

- (1) A subdivision of land must not be carried out without development consent.
- (2) This clause applies if the subdivision of land:
 - (a) does not require development consent because of another environmental planning instrument, and
 - (b) is not prohibited by another environmental planning instrument, and
 - (c) is not identified in *Penrith Local Environmental Plan No 255 Exempt and Complying Development* as exempt development, and
 - (d) does not involve Crown building work as defined in section 116G of the Act.

Schedule 1 Amendment of Penrith Planning Scheme Ordinance

(Clause 4 (2) (a))

[1] Clause 4 Interpretation

Omit the definition of Country dwelling.

[2] Clause 26 Erection or use of buildings or works

Omit "country dwellings;" from Column III for Zone No 1 of the Table to the clause.

[3] Clause 26, Table

Omit "dwelling-houses other than country dwellings and rural dwellings;" from Column V for Zone No. 1.

[4] Clause 26, Table

Omit "Dwelling-houses other than semi-detached and terrace buildings." from Column III for Zone No 2(a).

[5] Clause 26, Table

Omit "Residential buildings." from Column III for Zone No 2 (b).

[6] Clause 26, Table

Omit "Dwelling-houses other than semi-detached or terrace buildings." from Column III for Zone No 2 (c).

[7] Clause 26, Table

Omit ";dwelling-houses attached to and used in conjunction with shops" from Column III for Zone No 3 (c).

[8] Clause 26, Table

Omit "Purposes" from Column IV for Zone No 3(c).

Insert instead "Buildings or other structures ordinarily associated with dwelling houses; changes of building use (as defined in the *Environmental Planning and Assessment Act 1979*); dwelling-houses attached to and used in conjunction with shops; demolition of buildings or other structures; land uses and premises".

[9] Clause 26, Table

Insert "; structural or internal alterations to, or external building work in association with, commercial premises or refreshment rooms" after "roads" in Column IV for Zone No 3(c).

[10] Clause 38 Development in residential zones

Omit the clause.

[11] Clause 46 Variation of area required for country dwelling

Omit the clause.

Schedule 2 Amendment of Penrith Local Environmental

Plan 1997 (Penrith City Centre)

(Clause 4 (2) (b))

[1] Clause 9 Zone objectives and development control table

Omit from item (b) (i) Without development consent for Zone No 2 (f) in the Development Control Table:

dwelling-houses

[2] Clause 9, table

Insert in alphabetical order in item (b) (ii) Only with development consent for Zone No 2 (f):

- buildings or other structures ordinarily associated with dwelling-houses
- demolition of buildings or other structures
- dwelling-houses

[3] Clause 20 Development of land within Zone No 3 (a)

Insert "where the new use does not involve structural or internal alterations or external buildings works" after the words "or take away food shops".

Schedule 3 Amendment of Penrith Local Environmental Plan 1998 (Urban Land)

(Clause 4 (2) (c))

[1] Clause 9 Zone objectives and development control table

Omit wherever occurring from item (b) (i) Without development consent for Zones Nos 2 (a1), 2 (a), 2 (b), 2 (c), 2 (d) and 2 (e) in the Development Control Table:

dwelling houses

[2] Clause 9, table

Insert in alphabetical order in item (b) (ii) Only with development consent for Zones Nos 2 (a1), 2 (a), 2 (b), 2 (c), 2 (d) and 2 (e):

- buildings or other structures ordinarily associated with dwelling houses
- changes of building use (as defined in the Act)
- demolition of buildings or other structures
- dwelling houses
- internal structural work in bed and breakfast establishments

[3] Clause 9, table

Insert in alphabetical order in item b (ii) Only with development consent for Zones Nos 2 (r) and 2 (r1);

- buildings or other structures ordinarily associated with dwelling houses
- changes of building use (as defined in the Act)
- demolition of buildings or other structures
- structural or internal alterations to bed and breakfast establishments

[4] Clause 9, table

Insert in alphabetical order in item (b) (ii) Only with development consent for Zone No 3 (f):

- changes of building use (as defined in the Act)
- demolition of buildings or other structures
- external building work associated with an existing land use carried out with consent
- structural or internal alterations to a building or other structure erected with consent or building approval

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PLANNING CERTIFICATE UNDER SECTION 149

Environmental Planning and Assessment Act, 1979

Property No:

253077

Your Reference:

emu plains post

Contact No:

98090666

Issue Date:

30/09/2014

Certificate No: 14/05085

Receipt Date:

30/09/2014

Receipt No:

2530890

Issued to:

Douglas Partners Pty Ltd/Jessica Little

PO Box 472

WEST RYDE NSW 1685

PRECINCT 356

DESCRIPTION OF LAND

County:

COOK

Parish:

STRATHDON

Location:

208 Great Western Highway EMU PLAINS NSW 2750

Land Description:

Lot 16 DP 232740

- PART 1 PRESCRIBED MATTERS -

In accordance with the provisions of Section 149(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 1998 (Urban Land), gazetted 8 January 1999, as amended, applies to the land.

Penrith Local Environmental Plan No. 255 - Exempt and Complying Development, gazetted 24 March 2000, as amended, applies to land within the City of Penrith. (Note: This plan does not apply to the land to which Sydney Regional Environmental Plan No.30 - St Marys applies, except as provided by clause 43 of SREP No. 30 - St Marys.)

Penrith Local Environmental Plan No. 258 - Consent for Dwelling Houses and Other Development, gazetted 29 June 2001, 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 Sydney Regional Environmental Plan No. 11 - Penrith Lakes Scheme applies).

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PLANNING CERTIFICATE UNDER SECTION 149

Environmental Planning and Assessment Act, 1979

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 City Centre Local Environmental Plan 2008, Penrith Local Environmental Plan (Caddens) 2009, Penrith Local Environmental Plan (Glenmore Park Stage 2) 2009, Penrith Local Environmental Plan (South Werrington Urban Village) 2009, 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.30 - Intensive Agriculture.

State Environmental Planning Policy No.32 - Urban Consolidation (Redevelopment of Urban Land). (Note: This policy does not apply to land identified as coastal protection, environmental protection, escarpment, floodway, natural hazard, non-urban, rural, rural residential, water catchment or wetland.)

State Environmental Planning Policy No.33 - Hazardous and Offensive Development.

State Environmental Planning Policy No.50 - Canal Estate Development. (Note: This policy does not apply to the land to which Penrith Local Environmental Plan 1998 (Lakes Environs) or State Environmental Planning Policy (Penrith Lakes Scheme) 1989 apply.

State Environmental Planning Policy No.55 - Remediation of Land.

State Environmental Planning Policy No.62 - Sustainable Aquaculture.

State Environmental Planning Policy No.64 - Advertising and Signage.

State Environmental Planning Policy No.65 - Design Quality of Residential Flat 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 (Major Development) 2005.

State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007.

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.

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:

The Planning Proposal for the Penrith City-wide Local Environmental Plan applies to the subject land. (See www.penrithcity.nsw.gov.au/ for details.)

Draft State Environmental Planning Policy (Competition) 2010 applies to the land.

Draft State Environmental Planning Policy (Infrastructure) Amendment (Shooting Ranges) 2013 applies to the land.

Draft State Environmental Planning Policy (Exempt and Complying Development Codes) Amendment (Commercial and Industrial) 2014 applies to the land.

Draft State Environmental Planning Policy No. 65 - Design Quality of Residential Flat Development (Amendment No. 3) applies to the land.

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PLANNING CERTIFICATE UNDER SECTION 149

Environmental Planning and Assessment Act, 1979

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

Penrith Development Control Plan 2010 applies to all land subject to Penrith Local Environmental Plan 2010. Penrith Development Control Plan 2006 applies to all land not subject to Penrith Local Environmental Plan 2010.

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).)

Under the terms of Penrith Local Environmental Plan 1998 (Urban Land) the land is zoned as Zone No.2(c) Residential (Low-Medium Density).

- (a) Objectives of the zone
- (i) to reinforce the importance of natural landscape settings and areas with heritage conservation value, and
- (ii) to protect the character of traditional cottage development and streetscapes, and
- (iii) to consolidate population and housing densities, and
- (iv) to expand housing choices by allowing multi-unit housing with a single storey appearance, and
- (v) to promote a variety of housing types or forms upon the site of each proposed development, and
- (vi) to allow a range of compatible non-residential uses.
- (b)(i) Without development consent

bed and breakfast establishments; bushfire hazard reduction; family day-care homes; home activities

(b)(ii) Only with development consent

buildings or other structures ordinarily associated with dwelling houses; changes of building use (as defined in the Act); child care centres; community facilities; demolition of buildings or other structures; drains; dual occupancies; dwelling houses; educational establishments; general stores; guesthouses; health care consulting rooms; home businesses; hospitals; internal structural work in bed and breakfast establishments; multi-unit housing; places of worship; recreation areas; roads; utility installations; utility undertakings

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(b)(iii) Prohibited

Any land use other than those included in items (b)(i) and (b)(ii).

Note:

- (1) Despite any other provisions of Penrith Local Environmental Plan 1998 (Urban Land), a person may carry out development for the purpose of any one or more of the following on any land to which this plan applies without the consent of the Council:
- (a) an internal window display;
- (b) any advertisement erected on land that is not visible from outside the land (but not an advertisement on a heritage item or on a site within a heritage conservation area);
- (c) a temporary advertisement, being one which is displayed for a period not exceeding 2 months in total in any one year;
- (d) a public notice in a public place;
- (e) a road safety or advisory sign;
- (f) a specific sign directing the travelling public to buildings or places of tourist interest. (Clause 31 of the LEP.)
- (2) Land to which Penrith Local Environmental Plan 1998 (Urban Land) applies may be subdivided only with development consent. (Clause 34 of the LEP.)

Penrith Local Environmental Plan No. 258 - Consent for Dwelling Houses and Other Development

In addition to any controls detailed above Penrith Local Environmental Plan No. 258 - Consent for Dwelling Houses and Other Development sets out further circumstances where development consent will be required for particular development. A copy of this LEP is attached.

Under the provisions of the Planning Proposal for the Penrith City-wide Local Environmental Plan the land is affected by the following draft zone:

Zone R3 Medium Density Residential

1 Objectives of zone

- To provide for the housing needs of the community within a medium density residential environment.
- To provide a variety of housing types within a medium density residential environment.
- To enable other land uses that provide facilities or services to meet the day to day needs of residents.
- To provide for a concentration of housing with access to services and facilities.
- To enhance the essential character and identity of established residential areas.
- To ensure that a high level of residential amenity is achieved and maintained.

2 Permitted without consent

Home occupations

3 Permitted with consent

Attached dwellings; Bed and breakfast accommodation; Boarding houses; Building identification signs; Business identification signs; Child care centres; Community facilities; Dual occupancies; Dwelling houses; Emergency services facilities; Environmental protection works; Exhibition homes; Exhibition villages; Flood mitigation works; Group homes; Home-based child care; Home businesses; Home industries; Information and

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education facilities; Multi dwelling housing; Neighbourhood shops; Places of public worship; Recreation areas; Respite day care centres; Roads; Secondary dwellings; Semi-detached dwellings; Seniors housing; Shop top housing

4 Prohibited

Any development not specified in item 2 or 3

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:

No minimum land area provisions for the erection of a dwelling-house apply to the land. Note: There are also certain performance requirements with regard to land dimensions affecting the construction of a dwelling-house on the land. In this regard Council has not considered the physical configuration or suitability of this particular land for the erection of a dwelling-house.

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

GENERAL HOUSING CODE

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

Complying development under the General 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 the Planning Proposal for the Penrith City-wide Local Environmental Plan, or an equivalent zone in a non standard template planning instrument.)

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

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.

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 the Planning Proposal for the Penrith City-wide Local Environmental Plan, 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.)

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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.

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Note: The land is subject to Penrith Development Control Plan 2010 Section C3.5 Flood Liable Lands and/or Penrith Development Control Plan 2006 Section 2.10 Flood Liable Land. 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 27 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 2007 applies to the land if residential development is permissible on the land.

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.

9A BIODIVERSITY CERTIFIED LAND

(Information is provided in this section only if the land is biodiversity certified land (within the meaning of Part 7AA of the *Threatened Species Conservation Act 1995*).)

10 BIOBANKING AGREEMENTS

(Information is provided in this section only if Council has been notified by the Director-General of the Department of Environment, Climate Change and Water that the land is land to which a biobanking agreement under Part 7A of the *Threatened Species Conservation Act 1995* 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 under the Native Vegetation Act 2003 applies.)

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.)

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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 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

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- (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 149(5) information for this property may contain additional information regarding contamination issues.

Note: The Environmental Planning and Assessment Amendment Act 1997 commenced operation on the 1 July 1998. 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 (Amendment) Regulation 1998, Environmental Planning and Assessment (Further Amendment) Regulation 1998 and Environmental Planning and Assessment (Savings and Transitional) Regulation 1998 and Environmental Planning and Assessment Regulation 2000.

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

149(5) Certificate This Certificate is directed to the following relevant matters affecting the land

When information pursuant to section 149(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 149(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 149(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.

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* When co	onsidering a	ny devel	opment	applica	ation (Counc	il must ha	ve i	regard t	o th	e Th	reatene	d Spe	cies
Conservati	ion Act 199	5. Pleas	e note t	hat this	s legis	lation	may have	ap	plicatio	n to	any	land th	rougl	hout
the city.	Interested	persons	should	make	their	own	enquiries	in	regard	to	the	impact	that	this
legislation	could have	on this 1	and.											

- * The land is subject to minimum building setback requirements. Penrith Development Control Plan 2006 should be consulted to determine exact requirements for the subject land.
- * The land is affected by a Tree Preservation Order.

Alan Stoneham General Manager

PER flollier

Attachment

Penrith Local Environmental Plan No 258 - Consent for Dwelling Houses and Other Development

1 Name of plan

This plan is Penrith Local Environmental Plan No 258 - Consent for Dwelling Houses and Other Development.

2 Aims of plan

This plan aims to:

- require development consent for dwelling houses on residentially zoned land within the City of Penrith, and
- (b) require development consent for dwelling houses on land within the Non-urban zone under the Penrith Planning Scheme Ordinance and on land within the Special Business zone under Penrith Local Environmental Plan 1997 (Penrith City Centre), and
- (c) require development consent for dwelling houses attached to and used in conjunction with shops on land within the Neighbourhood Business zone under the *Penrith Planning Scheme Ordinance*, and
- (d) require development consent for the following:
 - (i) the erection of a building or structure ordinarily associated with a dwelling house,
 - (ii) a change of building use,

Note. At the commencement of this plan, a change of building use meant a change of use of a building from a use that the *Building Code of Australia* recognises as appropriate to one class of building to a use that the *Building Code of Australia* recognises as appropriate to a different class of building.

- (iii) demolition of a building or structure.
- (iv) carrying out structural alterations to a building, internal alterations to a building, or external building work in association with business premises, a bed and breakfast establishment, office premises, commercial premises or take away food shops,
- (v) the subdivision of land,

to the extent to which such development does not already require development consent because of another environmental planning instrument in order to be carried out.

3 Land to which plan applies

This plan applies to all land within the City of Penrith.

4 Relationship to other environmental planning instruments

- (1) In the event of an inconsistency between this plan and any other local environmental planning instrument or deemed environmental planning instrument, this plan shall prevail to the extent of the inconsistency, subject to section 36 (4) of the Act.
- (2) This plan amends:
 - (a) Penrith Planning Scheme Ordinance in the manner set out in Schedule 1,
 - (b) Penrith Local Environmental Plan 1997 (Penrith City Centre) in the manner set out in Schedule 2, and
 - (c) Penrith Local Environmental Plan 1998 (Urban Land) in the manner set out in Schedule 3.
- (3) This plan does not affect the application of:
 - (a) State Environmental Planning Policy No 3 Castlereagh Liquid Waste Disposal Depot,

- (b) State Environmental Planning Policy No 27 Prison Sites,
- Sydney Regional Environmental Plan No 9 Extractive Industry,
- (d) Sydney Regional Environmental Plan No. 11 Penrith Lakes Scheme,
- (e) Sydney Regional Environmental Plan No 20 Hawkesbury-Nepean River (No 2-1997).
- Sydney Regional Environmental Plan No 30 St Marys, or
- (g) Penrith Local Environmental Plan No 255 Exempt and Complying Development,

to land to which this plan applies.

5 Definitions

(1) In this plan:

> a building or structure ordinarily associated with a dwelling house means a garage, carport, pergola, swimming pool, and the like, and includes alterations and additions to an existing dwelling house.

change of building use has the same meaning as in the Act.

Note. At the commencement of this plan, a change of building use meant a change of use of a building from a use that the Building Code of Australia recognises as appropriate to one class of building to a use that the Building Code of Australia recognises as appropriate to a different class of building.

dwelling means a room or number of rooms occupied or used, or so constructed or adapted as to be capable of being occupied or used, as a separate domicile.

dwelling house means a dwelling which is the only dwelling erected on an allotment of land.

subdivision of land has the same meaning as in the Act.

the Act means the Environmental Planning and Assessment Act 1979.

(2) The list of contents and notes in this plan are not part of this plan.

6 Dwelling houses require development consent

- The erection of a dwelling house must not be carried out without development consent. (1)
- (2)This clause applies to residentially zoned land within the City of Penrith.
- (3) This clause applies if the development:
 - (a) does not require development consent because of another environmental planning instrument, and
 - (b) is not prohibited by another environmental planning instrument.

7. Miscellaneous development that requires development consent

- The following development must not be carried out without development consent: (1)
 - (a) erection of a building or structure ordinarily associated with a dwelling house, or
 - (b) development that results in a change of building use, or
 - (c) demolition of a building or structure, or
 - (d) structural, internal or external building work in association with business premises, a bed and breakfast establishment, office premises, commercial premises or take away food shops.
- (2) This clause applies if the development:
 - does not require development consent because of another environmental planning instrument, and
 - (b) is not prohibited by another environmental planning instrument, and

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- (c) is not identified in *Penrith Local Environmental Plan No 255 Exempt and Complying Development* as exempt development, and
- (d) does not involve Crown building work as defined in section 116G of the Act.

8 Subdivisions require development consent

- (1) A subdivision of land must not be carried out without development consent.
- (2) This clause applies if the subdivision of land:
 - (a) does not require development consent because of another environmental planning instrument, and
 - (b) is not prohibited by another environmental planning instrument, and
 - (c) is not identified in *Penrith Local Environmental Plan No 255 Exempt and Complying Development* as exempt development, and
 - (d) does not involve Crown building work as defined in section 116G of the Act.

Schedule 1 Amendment of Penrith Planning Scheme Ordinance

(Clause 4 (2) (a))

[1] Clause 4 Interpretation

Omit the definition of Country dwelling.

[2] Clause 26 Erection or use of buildings or works

Omit "country dwellings;" from Column III for Zone No 1 of the Table to the clause.

[3] Clause 26, Table

Omit "dwelling-houses other than country dwellings and rural dwellings;" from Column V for Zone No. 1.

[4] Clause 26, Table

Omit "Dwelling-houses other than semi-detached and terrace buildings." from Column III for Zone No 2(a).

[5] Clause 26, Table

Omit "Residential buildings." from Column III for Zone No 2 (b).

[6] Clause 26, Table

Omit "Dwelling-houses other than semi-detached or terrace buildings." from Column III for Zone No 2 (c).

[7] Clause 26, Table

Omit "; dwelling-houses attached to and used in conjunction with shops" from Column III for Zone No 3 (c).

[8] Clause 26, Table

Omit "Purposes" from Column IV for Zone No 3(c).

Insert instead "Buildings or other structures ordinarily associated with dwelling houses; changes of building use (as defined in the *Environmental Planning and Assessment Act 1979*); dwelling-houses attached to and used in conjunction with shops; demolition of buildings or other structures; land uses and premises".

[9] Clause 26, Table

Insert "; structural or internal alterations to, or external building work in association with, commercial premises or refreshment rooms" after "roads" in Column IV for Zone No 3(c).

[10] Clause 38 Development in residential zones

Omit the clause.

[11] Clause 46 Variation of area required for country dwelling

Omit the clause.

Schedule 2 Amendment of Penrith Local Environmental

Plan 1997 (Penrith City Centre)

(Clause 4 (2) (b))

[1] Clause 9 Zone objectives and development control table

Omit from item (b) (i) Without development consent for Zone No 2 (f) in the Development Control Table:

dwelling-houses

[2] Clause 9, table

Insert in alphabetical order in item (b) (ii) Only with development consent for Zone No 2 (f):

- buildings or other structures ordinarily associated with dwelling-houses
- demolition of buildings or other structures
- dwelling-houses

[3] Clause 20 Development of land within Zone No 3 (a)

Insert "where the new use does not involve structural or internal alterations or external buildings works" after the words "or take away food shops".

Schedule 3 Amendment of Penrith Local Environmental Plan 1998 (Urban Land)

(Clause 4 (2) (c))

[1] Clause 9 Zone objectives and development control table

Omit wherever occurring from item (b) (i) Without development consent for Zones Nos 2 (a1), 2 (a), 2 (b), 2 (c), 2 (d) and 2 (e) in the Development Control Table:

dwelling houses

[2] Clause 9, table

Insert in alphabetical order in item (b) (ii) Only with development consent for Zones Nos 2 (a1), 2 (a), 2 (b), 2 (c), 2 (d) and 2 (e):

- buildings or other structures ordinarily associated with dwelling houses
- changes of building use (as defined in the Act)
- demolition of buildings or other structures
- dwelling houses
- internal structural work in bed and breakfast establishments

[3] Clause 9, table

Insert in alphabetical order in item b (ii) Only with development consent for Zones Nos 2 (r) and 2 (r1);

- buildings or other structures ordinarily associated with dwelling houses
- changes of building use (as defined in the Act)
- demolition of buildings or other structures
- structural or internal alterations to bed and breakfast establishments

[4] Clause 9, table

Insert in alphabetical order in item (b) (ii) Only with development consent for Zone No 3 (f):

- changes of building use (as defined in the Act)
- demolition of buildings or other structures
- external building work associated with an existing land use carried out with consent
- structural or internal alterations to a building or other structure erected with consent or building approval



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Email: pencit@penrithcity.nsw.gov.au

PLANNING CERTIFICATE UNDER SECTION 149

Environmental Planning and Assessment Act, 1979

Property No:

685128

Your Reference:

emu plains post

Contact No:

98090666

Issue Date:

30/09/2014

Certificate No: 14/05086

30/09/2014

Receipt Date:

30/09/2014

Receipt No:

2530890

Issued to:

Douglas Partners Pty Ltd/Jessica Little

PO Box 472

WEST RYDE NSW 1685

PRECINCT 996

DESCRIPTION OF LAND

County:

COOK

Parish:

STRATHDON

Location:

5-7 Emerald Street EMU PLAINS NSW 2750

Land Description:

Lot 1 DP 650543

- PART 1 PRESCRIBED MATTERS -

In accordance with the provisions of Section 149(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 1998 (Urban Land), gazetted 8 January 1999, as amended, and Penrith Local Environmental Plan 1991 (Environmental Heritage Conservation), gazetted 20 December 1991, as amended, apply to the land.

Penrith Local Environmental Plan No. 255 - Exempt and Complying Development, gazetted 24 March 2000, as amended, applies to land within the City of Penrith. (Note: This plan does not apply to the land to which Sydney Regional Environmental Plan No.30 - St Marys applies, except as provided by clause 43 of SREP No. 30 - St Marys.)

Penrith Local Environmental Plan No. 258 - Consent for Dwelling Houses and Other Development, gazetted 29 June 2001, 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 Sydney Regional Environmental Plan No. 11 - Penrith Lakes Scheme applies).

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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 City Centre Local Environmental Plan 2008, Penrith Local Environmental Plan (Caddens) 2009, Penrith Local Environmental Plan (Glenmore Park Stage 2) 2009, Penrith Local Environmental Plan (South Werrington Urban Village) 2009, 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.30 - Intensive Agriculture.

State Environmental Planning Policy No.32 - Urban Consolidation (Redevelopment of Urban Land). (Note: This policy does not apply to land identified as coastal protection, environmental protection, escarpment, floodway, natural hazard, non-urban, rural, rural residential, water catchment or wetland.)

State Environmental Planning Policy No.33 - Hazardous and Offensive Development.

State Environmental Planning Policy No.50 - Canal Estate Development. (Note: This policy does not apply to the land to which Penrith Local Environmental Plan 1998 (Lakes Environs) or State Environmental Planning Policy (Penrith Lakes Scheme) 1989 apply.

State Environmental Planning Policy No.55 - Remediation of Land.

State Environmental Planning Policy No.62 - Sustainable Aquaculture.

State Environmental Planning Policy No.64 - Advertising and Signage.

State Environmental Planning Policy No.65 - Design Quality of Residential Flat 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 (Major Development) 2005.

State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007.

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.

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:

The Planning Proposal for the Penrith City-wide Local Environmental Plan applies to the subject land. (See www.penrithcity.nsw.gov.au/ for details.)

Draft State Environmental Planning Policy (Competition) 2010 applies to the land.

Draft State Environmental Planning Policy (Infrastructure) Amendment (Shooting Ranges) 2013 applies to the land.

Draft State Environmental Planning Policy (Exempt and Complying Development Codes) Amendment (Commercial and Industrial) 2014 applies to the land.

Draft State Environmental Planning Policy No. 65 - Design Quality of Residential Flat Development (Amendment No. 3) applies to the land.

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

Penrith Development Control Plan 2010 applies to all land subject to Penrith Local Environmental Plan 2010. Penrith Development Control Plan 2006 applies to all land not subject to Penrith Local Environmental Plan 2010.

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).)

Under the terms of Penrith Local Environmental Plan 1998 (Urban Land) the land is zoned as Zone No.2(c) Residential (Low-Medium Density).

- (a) Objectives of the zone
- (i) to reinforce the importance of natural landscape settings and areas with heritage conservation value, and
- (ii) to protect the character of traditional cottage development and streetscapes, and
- (iii) to consolidate population and housing densities, and
- (iv) to expand housing choices by allowing multi-unit housing with a single storey appearance, and
- (v) to promote a variety of housing types or forms upon the site of each proposed development, and
- (vi) to allow a range of compatible non-residential uses.
- (b)(i) Without development consent

bed and breakfast establishments; bushfire hazard reduction; family day-care homes; home activities

(b)(ii) Only with development consent

buildings or other structures ordinarily associated with dwelling houses; changes of building use (as defined in the Act); child care centres; community facilities; demolition of buildings or other structures; drains; dual occupancies; dwelling houses; educational establishments; general stores; guesthouses; health care consulting rooms; home businesses; hospitals; internal structural work in bed and breakfast establishments; multi-unit housing; places of worship; recreation areas; roads; utility installations; utility undertakings

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(b)(iii) Prohibited

Any land use other than those included in items (b)(i) and (b)(ii).

Note:

- (1) Despite any other provisions of Penrith Local Environmental Plan 1998 (Urban Land), a person may carry out development for the purpose of any one or more of the following on any land to which this plan applies without the consent of the Council:
- (a) an internal window display;
- (b) any advertisement erected on land that is not visible from outside the land (but not an advertisement on a heritage item or on a site within a heritage conservation area);
- (c) a temporary advertisement, being one which is displayed for a period not exceeding 2 months in total in any one year;
- (d) a public notice in a public place;
- (e) a road safety or advisory sign;
- (f) a specific sign directing the travelling public to buildings or places of tourist interest. (Clause 31 of the LEP.)
- (2) Land to which Penrith Local Environmental Plan 1998 (Urban Land) applies may be subdivided only with development consent. (Clause 34 of the LEP.)

Penrith Local Environmental Plan No. 258 - Consent for Dwelling Houses and Other Development

In addition to any controls detailed above Penrith Local Environmental Plan No. 258 - Consent for Dwelling Houses and Other Development sets out further circumstances where development consent will be required for particular development. A copy of this LEP is attached.

Under the provisions of the Planning Proposal for the Penrith City-wide Local Environmental Plan the land is affected by the following draft zone:

Zone R3 Medium Density Residential

1 Objectives of zone

- To provide for the housing needs of the community within a medium density residential environment.
- To provide a variety of housing types within a medium density residential environment.
- To enable other land uses that provide facilities or services to meet the day to day needs of residents.
- To provide for a concentration of housing with access to services and facilities.
- To enhance the essential character and identity of established residential areas.
- To ensure that a high level of residential amenity is achieved and maintained.

2 Permitted without consent

Home occupations

3 Permitted with consent

Attached dwellings; Bed and breakfast accommodation; Boarding houses; Building identification signs; Business identification signs; Child care centres; Community facilities; Dual occupancies; Dwelling houses; Emergency services facilities; Environmental protection works; Exhibition homes; Exhibition villages; Flood mitigation works; Group homes; Home-based child care; Home businesses; Home industries; Information and

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education facilities; Multi dwelling housing; Neighbourhood shops; Places of public worship; Recreation areas; Respite day care centres; Roads; Secondary dwellings; Semi-detached dwellings; Seniors housing; Shop top housing

4 Prohibited

Any development not specified in item 2 or 3

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:

No minimum land area provisions for the erection of a dwelling-house apply to the land. Note: There are also certain performance requirements with regard to land dimensions affecting the construction of a dwelling-house on the land. In this regard Council has not considered the physical configuration or suitability of this particular land for the erection of a dwelling-house.

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:

An item/Items of environmental heritage (identified in Penrith Local Environmental Plan 1991 (Environmental Heritage Conservation)) is/are situated on the land.

Under the terms of the Planning Proposal for the Penrith City-wide Local Environmental Plan a proposed item of environmental heritage 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

GENERAL HOUSING CODE

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

• The land contains an item of environmental heritage, a heritage item and/or a draft heritage item. If the land is within the relevant zones complying development under the General Housing Code may not be carried out on any part of the land that is identified as an item of environmental heritage or a heritage item by an environmental planning instrument or on

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which is located an item that is so identified, or that comprises, or on which there is, a draft heritage item. Complying development **may** be carried out on any part of the land that is not identified as an item of environmental heritage or a heritage item by an environmental planning instrument or on which is not located an item that is so identified, or that does not comprise, or on which there is not, a draft heritage item. Plans of the above items may be found in the applicable planning instrument(s)/draft planning instrument(s).

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 the Planning Proposal for the Penrith City-wide Local Environmental Plan, or an equivalent zone in a non standard template planning instrument.)

• The land contains an item of environmental heritage, a heritage item and/or a draft heritage item. If the land is within the relevant zones complying development under the Rural Housing Code may not be carried out on any part of the land that is identified as an item of environmental heritage or a heritage item by an environmental planning instrument or on which is located an item that is so identified, or that comprises, or on which there is, a draft heritage item. Complying development may be carried out on any part of the land that is not identified as an item of environmental heritage or a heritage item by an environmental planning instrument or on which is not located an item that is so identified, or that does not comprise, or on which there is not, a draft heritage item. Plans of the above items may be found in the applicable planning instrument(s)/draft planning instrument(s).

HOUSING ALTERATIONS CODE

• The land contains an item of environmental heritage, a heritage item and/or a draft heritage item. Complying development under the Housing Alterations Code may not be carried out on any part of the land that is identified as an item of environmental heritage or a heritage item by an environmental planning instrument or on which is located an item that is so identified, or that comprises, or on which there is, a draft heritage item. Complying development may be carried out on any part of the land that is not identified as an item of environmental heritage or a heritage item by an environmental planning instrument or on which is not located an item that is so identified, or that does not comprise, or on which there is not, a draft heritage item. Plans of the above items may be found in the applicable planning instrument(s)/draft planning instrument(s).

GENERAL DEVELOPMENT CODE

• The land contains an item of environmental heritage, a heritage item and/or a draft heritage item. Complying development under the General Development Code may not be carried out on any part of the land that is identified as an item of environmental heritage or a heritage item by an environmental planning instrument or on which is located an item that is so identified, or that comprises, or on which there is, a draft heritage item. Complying development may be carried out on any part of the land that is not identified as an item of environmental heritage or a heritage item by an environmental planning instrument or on which is not located an item that is so identified, or that does not comprise, or on which there is not, a draft heritage item. Plans of the above items may be found in the applicable planning instrument(s)/draft planning instrument(s).

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COMMERCIAL AND INDUSTRIAL ALTERATIONS CODE

• The land contains an item of environmental heritage, a heritage item and/or a draft heritage item. Complying development under the Commercial and Industrial Alterations Code may not be carried out on any part of the land that is identified as an item of environmental heritage or a heritage item by an environmental planning instrument or on which is located an item that is so identified, or that comprises, or on which there is, a draft heritage item. Complying development may be carried out on any part of the land that is not identified as an item of environmental heritage or a heritage item by an environmental planning instrument or on which is not located an item that is so identified, or that does not comprise, or on which there is not, a draft heritage item. Plans of the above items may be found in the applicable planning instrument(s)/draft planning instrument(s).

SUBDIVISIONS CODE

• The land contains an item of environmental heritage, a heritage item and/or a draft heritage item. Complying development under the Subdivisions Code may not be carried out on any part of the land that is identified as an item of environmental heritage or a heritage item by an environmental planning instrument or on which is located an item that is so identified, or that comprises, or on which there is, a draft heritage item. Complying development may be carried out on any part of the land that is not identified as an item of environmental heritage or a heritage item by an environmental planning instrument or on which is not located an item that is so identified, or that does not comprise, or on which there is not, a draft heritage item. Plans of the above items may be found in the applicable planning instrument(s)/draft planning instrument(s).

DEMOLITION CODE

• The land contains an item of environmental heritage, a heritage item and/or a draft heritage item. Complying development under the Demolition Code may not be carried out on any part of the land that is identified as an item of environmental heritage or a heritage item by an environmental planning instrument or on which is located an item that is so identified, or that comprises, or on which there is, a draft heritage item. Complying development may be carried out on any part of the land that is not identified as an item of environmental heritage or a heritage item by an environmental planning instrument or on which is not located an item that is so identified, or that does not comprise, or on which there is not, a draft heritage item. Plans of the above items may be found in the applicable planning instrument(s)/draft planning instrument(s).

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 the Planning Proposal for the Penrith City-wide Local Environmental Plan, or an equivalent zone in a non standard template planning instrument.)

• The land contains an item of environmental heritage, a heritage item and/or a draft heritage item. If the land is within the relevant zones complying development under the Commercial

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and Industrial (New Buildings and Additions) Code **may not** be carried out on any part of the land that is identified as an item of environmental heritage or a heritage item by an environmental planning instrument or on which is located an item that is so identified, or that comprises, or on which there is, a draft heritage item. Complying development **may** be carried out on any part of the land that is not identified as an item of environmental heritage or a heritage item by an environmental planning instrument or on which is not located an item that is so identified, or that does not comprise, or on which there is not, a draft heritage item. Plans of the above items may be found in the applicable planning instrument(s)/draft planning instrument(s).

FIRE SAFETY CODE

• The land contains an item of environmental heritage, a heritage item and/or a draft heritage item. Complying development under the Fire Safety Code may not be carried out on any part of the land that is identified as an item of environmental heritage or a heritage item by an environmental planning instrument or on which is located an item that is so identified, or that comprises, or on which there is, a draft heritage item. Complying development may be carried out on any part of the land that is not identified as an item of environmental heritage or a heritage item by an environmental planning instrument or on which is not located an item that is so identified, or that does not comprise, or on which there is not, a draft heritage item. Plans of the above items may be found in the applicable planning instrument(s)/draft planning instrument(s).

(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.

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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 2010 Section C3.5 Flood Liable Lands and/or Penrith Development Control Plan 2006 Section 2.10 Flood Liable Land. 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 27 of the Act.

9 CONTRIBUTIONS PLANS

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

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The Penrith City Local Open Space Development Contributions Plan 2007 applies to the land if residential development is permissible on the land.

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.

9A BIODIVERSITY CERTIFIED LAND

(Information is provided in this section only if the land is biodiversity certified land (within the meaning of Part 7AA of the *Threatened Species Conservation Act 1995*).)

10 BIOBANKING AGREEMENTS

(Information is provided in this section only if Council has been notified by the Director-General of the Department of Environment, Climate Change and Water that the land is land to which a biobanking agreement under Part 7A of the *Threatened Species Conservation Act 1995* 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 under the Native Vegetation Act 2003 applies.)

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 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

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(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.)

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(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 149(5) information for this property may contain additional information regarding contamination issues.

Note: The Environmental Planning and Assessment Amendment Act 1997 commenced operation on the 1 July 1998. 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 (Amendment) Regulation 1998, Environmental Planning and Assessment (Further Amendment) Regulation 1998 and Environmental Planning and Assessment (Savings and Transitional) Regulation 1998 and Environmental Planning and Assessment Regulation 2000.

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

149(5) Certificate This Certificate is directed to the following relevant matters affecting the land

When information pursuant to section 149(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 149(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 149(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.
- * 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.
- * The land is subject to minimum building setback requirements. Penrith Development Control Plan 2006 should be consulted to determine exact requirements for the subject land.

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PLANNING CERTIFICATE UNDER SECTION 149

Environmental Planning and Assessment Act, 1979

* The land is affected by a Tree Preservation Order.

Alan Stoneham General Manager

Certificate No. 14/05086

Lot 1 DP 650543

Page No. 13

Attachment

Penrith Local Environmental Plan No 258 - Consent for Dwelling Houses and Other Development

1 Name of plan

This plan is Penrith Local Environmental Plan No 258 - Consent for Dwelling Houses and Other Development.

2 Aims of plan

This plan aims to:

- (a) require development consent for dwelling houses on residentially zoned land within the City of Penrith, and
- (b) require development consent for dwelling houses on land within the Non-urban zone under the *Penrith Planning Scheme Ordinance* and on land within the Special Business zone under *Penrith Local Environmental Plan 1997 (Penrith City Centre)*, and
- (c) require development consent for dwelling houses attached to and used in conjunction with shops on land within the Neighbourhood Business zone under the *Penrith Planning Scheme Ordinance*, and
- (d) require development consent for the following:
 - (i) the erection of a building or structure ordinarily associated with a dwelling house,
 - (ii) a change of building use,

Note. At the commencement of this plan, a change of building use meant a change of use of a building from a use that the *Building Code of Australia* recognises as appropriate to one class of building to a use that the *Building Code of Australia* recognises as appropriate to a different class of building.

- (iii) demolition of a building or structure,
- (iv) carrying out structural alterations to a building, internal alterations to a building, or external building work in association with business premises, a bed and breakfast establishment, office premises, commercial premises or take away food shops,
- (v) the subdivision of land,

to the extent to which such development does not already require development consent because of another environmental planning instrument in order to be carried out.

3 Land to which plan applies

This plan applies to all land within the City of Penrith.

4 Relationship to other environmental planning instruments

- (1) In the event of an inconsistency between this plan and any other local environmental planning instrument or deemed environmental planning instrument, this plan shall prevail to the extent of the inconsistency, subject to section 36 (4) of the Act.
- (2) This plan amends:
 - (a) Penrith Planning Scheme Ordinance in the manner set out in Schedule 1,
 - (b) Penrith Local Environmental Plan 1997 (Penrith City Centre) in the manner set out in Schedule 2, and
 - (c) Penrith Local Environmental Plan 1998 (Urban Land) in the manner set out in Schedule 3.
- (3) This plan does not affect the application of:
 - (a) State Environmental Planning Policy No 3 Castlereagh Liquid Waste Disposal Depot,

- (b) State Environmental Planning Policy No 27 Prison Sites,
- (c) Sydney Regional Environmental Plan No 9 Extractive Industry,
- (d) Sydney Regional Environmental Plan No. 11 Penrith Lakes Scheme,
- (e) Sydney Regional Environmental Plan No 20 Hawkesbury-Nepean River (No 2-1997),
- (f) Sydney Regional Environmental Plan No 30 St Marys, or
- (g) Penrith Local Environmental Plan No 255 Exempt and Complying Development,

to land to which this plan applies.

5 Definitions

(1) In this plan:

a building or structure ordinarily associated with a dwelling house means a garage, carport, pergola, swimming pool, and the like, and includes alterations and additions to an existing dwelling house.

change of building use has the same meaning as in the Act.

Note. At the commencement of this plan, a *change of building use* meant a change of use of a building from a use that the *Building Code of Australia* recognises as appropriate to one class of building to a use that the *Building Code of Australia* recognises as appropriate to a different class of building.

dwelling means a room or number of rooms occupied or used, or so constructed or adapted as to be capable of being occupied or used, as a separate domicile.

dwelling house means a dwelling which is the only dwelling erected on an allotment of land.

subdivision of land has the same meaning as in the Act.

the Act means the Environmental Planning and Assessment Act 1979.

(2) The list of contents and notes in this plan are not part of this plan.

6 Dwelling houses require development consent

- (1) The erection of a dwelling house must not be carried out without development consent.
- (2) This clause applies to residentially zoned land within the City of Penrith.
- (3) This clause applies if the development:
 - (a) does not require development consent because of another environmental planning instrument, and
 - (b) is not prohibited by another environmental planning instrument.

7. Miscellaneous development that requires development consent

- (1) The following development must not be carried out without development consent:
 - (a) erection of a building or structure ordinarily associated with a dwelling house, or
 - (b) development that results in a change of building use, or
 - (c) demolition of a building or structure, or
 - (d) structural, internal or external building work in association with business premises, a bed and breakfast establishment, office premises, commercial premises or take away food shops.
- (2) This clause applies if the development:
 - (a) does not require development consent because of another environmental planning instrument, and
 - (b) is not prohibited by another environmental planning instrument, and

- (c) is not identified in *Penrith Local Environmental Plan No 255 Exempt and Complying Development* as exempt development, and
- (d) does not involve Crown building work as defined in section 116G of the Act.

8 Subdivisions require development consent

- (1) A subdivision of land must not be carried out without development consent.
- (2) This clause applies if the subdivision of land:
 - (a) does not require development consent because of another environmental planning instrument, and
 - (b) is not prohibited by another environmental planning instrument, and
 - (c) is not identified in *Penrith Local Environmental Plan No 255 Exempt and Complying Development* as exempt development, and
 - (d) does not involve Crown building work as defined in section 116G of the Act.

Schedule 1 Amendment of Penrith Planning Scheme Ordinance

(Clause 4 (2) (a))

[1] Clause 4 Interpretation

Omit the definition of Country dwelling.

[2] Clause 26 Erection or use of buildings or works

Omit "country dwellings;" from Column III for Zone No 1 of the Table to the clause.

[3] Clause 26, Table

Omit "dwelling-houses other than country dwellings and rural dwellings;" from Column V for Zone No. 1.

[4] Clause 26, Table

Omit "Dwelling-houses other than semi-detached and terrace buildings." from Column III for Zone No 2(a).

[5] Clause 26, Table

Omit "Residential buildings." from Column III for Zone No 2 (b).

[6] Clause 26, Table

Omit "Dwelling-houses other than semi-detached or terrace buildings." from Column III for Zone No 2 (c).

[7] Clause 26, Table

Omit "; dwelling-houses attached to and used in conjunction with shops" from Column III for Zone No 3 (c).

[8] Clause 26, Table

Omit "Purposes" from Column IV for Zone No 3(c).

Insert instead "Buildings or other structures ordinarily associated with dwelling houses; changes of building use (as defined in the *Environmental Planning and Assessment Act 1979*); dwelling-houses attached to and used in conjunction with shops; demolition of buildings or other structures; land uses and premises".

[9] Clause 26, Table

Insert "; structural or internal alterations to, or external building work in association with, commercial premises or refreshment rooms" after "roads" in Column IV for Zone No 3(c).

[10] Clause 38 Development in residential zones

Omit the clause.

[11] Clause 46 Variation of area required for country dwelling

Omit the clause.

Schedule 2 Amendment of Penrith Local Environmental

Plan 1997 (Penrith City Centre)

(Clause 4 (2) (b))

[1] Clause 9 Zone objectives and development control table

Omit from item (b) (i) Without development consent for Zone No 2 (f) in the Development Control Table:

dwelling-houses

[2] Clause 9, table

Insert in alphabetical order in item (b) (ii) Only with development consent for Zone No 2 (f):

- buildings or other structures ordinarily associated with dwelling-houses
- · demolition of buildings or other structures
- dwelling-houses

[3] Clause 20 Development of land within Zone No 3 (a)

Insert "where the new use does not involve structural or internal alterations or external buildings works" after the words "or take away food shops".

Schedule 3 Amendment of Penrith Local Environmental Plan 1998 (Urban Land)

(Clause 4 (2) (c))

[1] Clause 9 Zone objectives and development control table

Omit wherever occurring from item (b) (i) Without development consent for Zones Nos 2 (a1), 2 (a), 2 (b), 2 (c), 2 (d) and 2 (e) in the Development Control Table:

· dwelling houses

[2] Clause 9, table

Insert in alphabetical order in item (b) (ii) Only with development consent for Zones Nos 2 (a1), 2 (a), 2 (b), 2 (c), 2 (d) and 2 (e):

- buildings or other structures ordinarily associated with dwelling houses
- changes of building use (as defined in the Act)
- demolition of buildings or other structures
- dwelling houses
- internal structural work in bed and breakfast establishments

[3] Clause 9, table

Insert in alphabetical order in item b (ii) Only with development consent for Zones Nos 2 (r) and 2 (r1);

- buildings or other structures ordinarily associated with dwelling houses
- changes of building use (as defined in the Act)
- demolition of buildings or other structures
- structural or internal alterations to bed and breakfast establishments

[4] Clause 9, table

Insert in alphabetical order in item (b) (ii) Only with development consent for Zone No 3 (f):

- changes of building use (as defined in the Act)
- demolition of buildings or other structures
- external building work associated with an existing land use carried out with consent
- structural or internal alterations to a building or other structure erected with consent or building approval

Appendix G

Site Photographs



Photo 1 - Small mounds around site

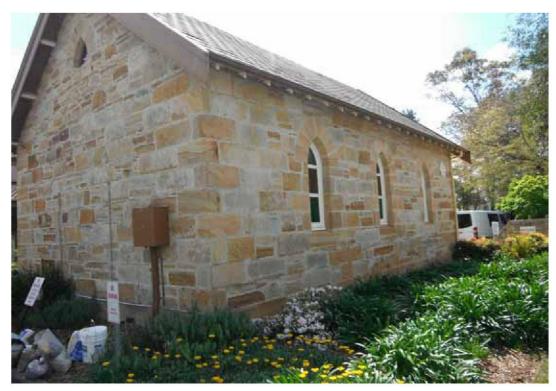


Photo 2 - Historic church circa 1800s adjacent Emerald Street





Photo 3 - Plaque on building indicates opening of facility in 1982



Photo 4 - Substation observed adjacent Emerald Street access driveway





Photo 5 - One of many stormwater drains observed across the site. This drain located in central courtyard.



Photo 6 - Undergounrd sewer or water pipes along southern boundary of the site





Photo 7 - Kitchen area



Photo 8 - Door to workshop was locked during inspection





Photo 9 - Door to workshop indicates storage of flammable liquids



Photo 10 - Internal view of chemical storgae cupboard



Appendix H DQOs/DQIs and Calculations



QA/QC PROCEDURES AND RESULTS

Q1. Data Quality Objectives

The PSI has been devised broadly in accordance with the seven step data quality objective (DQO) process as specified in Schedule B2 of the *National Environment Protection (Assessment of Site Contamination) Measure* 1999 as amended 2013 (NEPC 2013). The DQO process is outlined as follows:

(1) State the Problem

A new development is proposed for the site which may include up to three above ground levels of residential aged care facilities, individual living units, and support facilities. Up to one basement level is being considered, although not confirmed, as are associated pavement and landscaping reconfigurations. The "problem" to be addressed is that the extent and nature of potential contamination is unknown. The objective of the investigation is to characterise the nature and extent of contamination, if any, at the site and, if confirmed, to make recommendations for further investigations and/or remediation to render the site suitable for the proposed development.

The site is surrounded largely by residential premises, open space and roads. The site is within the Local Government Area (LGA) of Penrith City Council. DP's environmental project team includes: Environmental Manager Paul Gorman, and Environmental Scientists Kate Sargent and Jessica Little. The consent authority is Penrith City Council.

(2) Identify the Decision/Goal of the Study

Based on the available site history for 1 – 11 Emerald Street Emu Plains, it is considered that the contaminants of concern are generalised and include metals (including lead from paint), pesticides (OCP), polycyclic aromatic hydrocarbons (PAH), total recoverable hydrocarbons (TRH), monocyclic aromatic hydrocarbons (benzene, ethylbenzene, total xylenes – BTEX), phenols, VOC, and PCB. Asbestos will also be tested in samples considered likely to contain asbestos.

The analytical data for soils will be compared to Health-based investigation levels (HIL) and the Health-based Screening Levels (HSL) for residential use based on the current and proposed land use as per Tables 1A Schedule B1, NEPC (2013). Given that the site is covered largely by buildings and hard stand and the proposed development may add a basement level, Ecological Investigation and Screening Levels were not considered.

The suitability of the site for the proposed residential aged care facility will be based on a comparison of the analytical results for all COC to the adopted site assessment criteria and, if necessary, compared to the 95% UCL of the mean concentrations.

The following specific decisions will be made, as appropriate:

- What is the conceptual site model (i.e. sources, receptors, migration pathways, exposure)?
- Do the existing fill materials and/or natural soils pose a potential risk to identified receptors?



- Is the data sufficient to make a decision regarding the abovementioned risks, the compatibility of the site for the proposed development or are additional investigations required?
- Does contamination at the site, if encountered, trigger the Duty to Report requirements under the CLM Act 1997?
- · Are there any off-site migration issues that need to be considered?
- Is the data sufficient to enable the preparation of a Remediation Action Plan (RAP) and/or Environmental Management Plan (EMP) should the data suggest these are required?

(3) Identify Information Inputs

Inputs into the decisions are as follows:

- Collection and review of site history information including information regarding previous and current activities undertaken on the site and the surrounding areas;
- Regional geology, topography and hydrogeology information including acid sulphate soils,
- Soil samples will be collected across the site in a general grid pattern. Drilling was conducted
 using a truck mounted solid flight auger for two locations, and a hand auger for the remaining six.
 It is noted that at this stage a limited sampling regime has been adopted and is considered
 suitable for initial characterisation of the site. Soil samples will be analysed for the COC;
- The lithology of the site as described in the bore logs;
- If site conditions suggest additional COC i.e. condition of subsurface material encountered during test bores (odours, staining etc.), further analysis will be undertaken;
- Field and laboratory QA/QC data to assess the suitability of the environmental data for the assessment;
- All analysis undertaken at a NATA accredited laboratory; and
- The results will be compared with the NEPC (2013) criteria discussed in DQO section 2.

(4) Define the Study Boundaries

The site is identified as Lots 16 in deposited plan 232740, Lot 1 in deposited plan 650543, Lot 9 in deposited plan 230580, and Lots 3 and 4 in deposited plan 758387 also known as 1 – 11 Emerald Street, Emu Plains, and is located approximately 57 km to the west of the Sydney CBD. The site occupies an approximate area of 1.8 hectares. The lateral site boundaries are defined as Great Western Highway to the north, Emerald Street to the east, open space and commercial/residential to the south and west. The investigation was undertaken to a maximum depth of 5.2 metres bgl across the site due to refusal. The locations of the boreholes were subject to access constraints due to the presence of the existing buildings.

(5) Develop the Analytical Approach (or decision rule)

The information obtained during the assessment will be used to characterise the site in terms of contamination issues and risk to human health and/or the environment. The decision rules used in characterising the site will be as follows:



- Laboratory test results for soil samples will be assessed individually for each analyte or analyte group (of like materials)];
- The adopted site criteria will be the NSW Environment Protection Authority (EPA) endorsed criteria.
- Where such criteria are not available, other recognised national or international standards will be used;
- The contaminant concentrations in soil/fill material should meet the following criteria, or further investigation is required if:
 - The concentration of the contaminant is more than 2.5 times the investigation level. Any location more than 2.5 times the adopted site criteria is classified as a 'hotspot', requiring further assessment/ management; and
 - The calculated 95% Upper Confidence Limit (95% UCL) of average concentrations (excluding any 'hotspot' concentrations) exceeds the adopted investigation level; and
 - The standard deviation of the results is greater than 50% of the investigation level.
- Further investigation, remediation and/or management will be recommended if the site is found to be contaminated or containing contamination "hot spots".

Field and laboratory test results will be considered useable for the assessment after evaluation against the following data quality indicators (DQIs):

- Precision a measure of variability or reproducibility of data;
- Accuracy a measure of closeness of the data to the 'true' value;
- Representativeness the confidence (qualitative) of data representativeness of media present on site;
- Completeness a measure of the amount of usable data from a data collection activity; and
- Comparability the confidence (qualitative) that data may be considered to be equivalent for each sampling and analytical event.

The specific limits (their acceptable range, where applicable) are outlined in the data QA/QC procedures and results below.

(6) Specify the Performance or Acceptable Criteria

Considering that the future site use/development will involve the site continuing to be used for residential purposes and as a residential development, decision errors for the respective COC for fill / soil are:

- 1. Deciding that the site's fill/soil exceeds the HIL/HSL when they truly do not; and
- 2. Deciding that the site's fill/soils are within the HIL/HSL when they are truly not.

Decision errors for the proposed assessment will be minimised and measured by the following:

- Systematic soil sample numbers will comply (where possible) with those recommended in the
 NSW EPA Sampling Design Guidelines (1995), which have risk probabilities already incorporated;
- The sampling regime will target each stratum identified to account for site variability;



- Sample collection and handling techniques will be in accordance with DP's Field Procedures Manual;
- Samples will be prepared and analysed by a NATA-accredited laboratory with the acceptance limits for laboratory QA/QC parameters based on the laboratory reported acceptance limits and those stated in NEPC(2013);
- The analyte selection is based on the available site history, past site activities, site features and the findings of the PSI. The potential for contaminants other than those proposed to be analysed is considered to be low;
- The HSLs/HILs will be adopted from established and NSW EPA endorsed guidelines. Where not
 available, recognised national and international guidelines were used. The HSL and HILs have
 risk probabilities already incorporated;
- A significance level (if required to be assessed) of 0.05 will be adopted for data with statistical analysis of 95% Upper Confidence Limit (95% UCL) of average concentrations; and
- Only NATA accredited laboratories using NATA endorsed methods are used to perform laboratory analysis. Where NATA endorsed methods are not used, the reasons are stated. The effect of using non-NATA methods on the decision making process are explained.

(7) Optimise the design for obtaining data

Sampling design and procedures that will be implemented to optimise data collection for achieving the DQOs included the following;

- Only NATA accredited laboratories using NATA endorsed methods are used to perform laboratory analysis whenever possible;
- Targeted soil sampling will be used to target areas of environmental concern identified during the review of site history;
- Where possible, targeted samples will be incorporated into the grid based sampling to provide a more resource and cost effective sampling program;
- To optimise the selection of soil samples for chemical analysis, all samples collected will be screened using a calibrated photo-ionisation detector (PID) allowing for site assessment and sample selection. In addition, additional soil samples will be collected but kept 'on hold' pending details of initial analysis and will be analysed if further delineation is required;
- Adequately experienced environmental scientists/engineers will be chosen to conduct field work and sample analysis interpretation.



Q2. Data Quality Indicators

Field and laboratory procedures were assessed against the following data quality indicators (DQIs):

- Completeness a measure of the amount of usable data from a data collection activity;
- Comparability the confidence (qualitative) that data may be considered to be equivalent for each sampling and analytical event;
- Representativeness the confidence (qualitative) of data representativeness of media present onsite;
- Precision a measure of variability or reproducibility of data; and
- Accuracy a measure of closeness of the data to the 'true' value.

The DQIs were assessed as outlined in Table Q1.

Table Q1. Data Quality Indicators

DQI	Considerations as specified in NEPM Schedule B2	Comments
Completeness		
Field Considerations	All critical locations sampled	All critical locations (areas of environmental concern) sampled in accordance with DP's proposal and PSI, subject to access constraints.
	All samples collected (from grid and at depth)	Limited grid based and targeted soil sampling has been used to provide coverage of the site in general accordance with DP's proposal. Samples collected from different soil strata at depth.
	Standard operating practices (SOPs) appropriate and complied with	Field staff followed SOPs as defined in the DP Field Procedures Manual.
	Experienced sampler	DP's Environmental Scientist with at least two year's experience led the field team.
	Documentation correct	Field staff followed SOPs as defined in the DP <i>Field Procedures Manual</i> . Documentation reviewed and signed off by a Senior Environmental Engineer.
Laboratory Considerations	All critical samples analysed according to DP's proposal and this PSI	The DP proposal was followed. Any variation to the proposal has been recorded in the report.
	All analytes analysed according to DP's proposal and PSI	All analytes analysed according to the proposal. Any variation has been recorded in the report.



DQI	Considerations as specified in NEPM Schedule B2	Comments
	Appropriate methods and PQLs/LOR	NATA approved methods have been adopted. Limits of reporting (LORs) and practical quantitation limits (PQLs) in accordance with the method have been used by the contract laboratory.
	Sample Documentation complete	Chain-of-custody (COC) maintained and appended to the Certificates of Analysis(s). All Certificates of Analysis are complete and appended to the report.
	Sample holding times complied with	Sample holding times complied with the NATA accredited Laboratory.
Comparability		
Field Considerations	Same SOPs used on each occasion	Field staff followed SOPs for each day of sampling as defined in the DP Field procedures Manual
	Experienced sampler	DP's Geotechnical Engineer and Environmental Scientist with two year's experience led the field team
	Climatic conditions	Climatic conditions at the time of sampling are reported in Section 10
	Same types of samples collected	Field staff followed SOPs as defined in the <i>DP Field Procedures Manual</i> and sampling regime defined in the proposal.
Laboratory Considerations	Sample analytical methods used	Laboratories used are accredited by NATA for the analyses undertaken. Laboratory methods are as stated on the Certificates of Analysis
	Sample PQLs / LORs	PQL or LOR set by the laboratories are below the adopted site criteria or indicate across-the-board lack of detection.
	Same laboratories	EnviroLab Services Pty Ltd was used for sample analysis.
	Same units	All laboratory results are expressed in consistent units for each media type.
Representativeness		
Field Considerations	Appropriate media sampled according to DP's proposal and PSI	Appropriate media were sampled in accordance with the proposal and PSI
	All media identified in DP's proposal and PSI sampled	All media identified in DP's proposal were sampled.



DQI	Considerations as specified in NEPM Schedule B2	Comments	
Laboratory	All samples analysed according to	All samples analysed according to	
Considerations	SAQP	DP's proposal and PSI.	
Precision		T	
Field Considerations	SOPs appropriate and complied with	Field staff followed SOPs as defined in the DP Field Procedures Manual	
Laboratory Considerations	Analysis of: 1) Laboratory duplicates 2) field replicates 3) laboratory-prepared volatile trip spikes	Envirolab Services Pty Ltd acceptance limits are: [1) Average relative percentage difference (RPD) result <5 times PQL, no limit; results >5 times PQL, 0% -50% 2) Recovery of 30% for organics and 50% for inorganics 3) Recovery of 70-130% for inorganics/metals; 60-140% for organics and 10-140 % for SVOC.	
Accuracy (bias)			
Field Considerations	SOPs Appropriate and complied with	Field staff to follow SOPs as defined in the <i>DP Field Procedures Manual</i>	
Laboratory Considerations	Analysis of: 1) field blanks 2) reagent blank/method blank 3) matrix spike 4) surrogate spike 5) reference material	Envirolab Services Pty Ltd acceptance limits are: 1) Concentrations of analytes are <pql (recovery="" 2)="" 3)="" 4)="" 5)="" 60-140%="" 60-140%).="" 70-130%="" acceptable="" acceptance="" analysis="" analysis.<="" and="" are="" as="" by="" certificate="" contained="" for="" generally="" in="" inorganics="" laboratory="" limits="" lor="" material.="" not="" of="" organics).="" reference="" results="" specified="" td="" the="" these="" usually="" within=""></pql>	



DQI	Considerations as specified in NEPM Schedule B2	Comments
	6) laboratory control sample	 6) Results are within acceptance limits as specified by the laboratory (recovery within 70-130% for inorganics and 60-140% for organics). 7) Results are within acceptance
	7) laboratory-prepared spikes	limits as specified by the laboratory (<i>recovery within 60-140%</i>).



Q3. FIELD QUALITY ASSURANCE AND QUALITY CONTROL

The field QC procedures for sampling as prescribed in Douglas Partners' *Field Procedures Manual* were followed at all times during the assessment.

Q3.1 Sampling Team

Field sampling was undertaken by DP Environmental Scientist, Jessica Little. Site works were undertaken on the 26 of September 2014. Sampling was undertaken during fine weather conditions. All members of the team were instructed by the Project Manager regarding the sampling and well installation processes to be adopted. The same approach to the sampling was applied by each team member, minimising the potential for field sampling related variations in test outcomes.

Q3.2 Sample Collection

Soil

Soil samples were collected from SPT returns and auger returns from a drilling rig and hand auger. Further details of the drilling and sampling methodology are presented in Section 8 of the report. The QA/QC samples collected during the course of soil sampling comprised the following:

- Collection of a minimum of 10% replicate samples (inter-laboratory replicate) for QA/QC purposes, with a minimum of one replicate sample collected for each day of fieldwork;
- Collection of a minimum one trip spike and one trip blank per day of sampling.

The field QC procedures for sampling as prescribed in Douglas Partners' *Field Procedures Manual* were followed at all times during the assessment.

Q3.3 Logs and Field Sheets

Logs for each soil sampling location were recorded in the field. The individual samples were recorded on the field logs along with the sample identity, location, depth, initials of sampler, replicate locations, replicate type, and site observations. Analysis to be performed on each sample and the dispatch courier were recorded on the COC, Appendix J. Logs are presented in Appendix I.

Q3.4 Decontamination Procedure

Where stainless steel sampling equipment was required for soil sampling the equipment (e.g. SPT split shoe, hand auger) was decontaminated between use. The decontamination procedure involved a three stage wash. The equipment was first rinsed with tap water to remove sediment followed by a 3% Decon 90 solution. Finally the equipment was rinsed in demineralised water and dried using disposable paper towel.



Q3.5 Chain of Custody

Chain of custody information was recorded on the Chain-of-Custody (COC) sheets and accompanied samples to the analytical laboratory. Signed copies of COCs are presented in Appendix J, following the laboratory certificates of analysis. A complete list of the laboratory certificates of analysis, and a brief description of the analysis undertaken is included in Table Q2 below.

Table Q2. Laboratory Certificates of Analysis

Report No	Analysis Completed	
116867	Soil samples from BH1 – BH8 and trip spikes and blanks	

Q3.6 Sample Splitting Techniques

Replicate samples were collected in the field as a measure of accuracy, precision and repeatability of the results.

Field replicate samples for soil were collected from the same location and an identical depth to the primary sample. Equal portions of the primary sample were placed into the sampling jars and sealed. The sample was split to prevent the loss of volatiles from the soil but not homogenised in a bowl. Replicate samples were labelled with a DP identification number, recorded on DP's bore logs, so as to conceal their relationship to their primary sample from the analytical laboratory.

Q3.7 Replicate Frequency

Field sampling included collection of a minimum of 10% replicate samples (inter-laboratory replicates) for QA/QC purposes, with a minimum of one replicate sample collected per day of sampling.

Q3.8 Field Blank

A field blank is a sample taken as an indication to demonstrate correct field handling. Field blank samples were collected at least once per day during soil and groundwater sampling.

Q3.9 Trip Spike

In accordance with the NSW EPA Guidelines for Consultants Reporting on Contaminated Sites (2011), laboratory prepared trip spike results for volatile analytes are included in this report. The purpose of a trip spike is to assess the potential loss of volatile analytes that may have occurred between the time of collection and transfer of the sample to the laboratory. For the current investigation, a trip spike was taken into the field on each day of sampling with BTEX being the volatile assessed.



For soils, laboratory preparation of the trip spike involved putting 1mL of BTEX (using a 1500ppm BTEX trip spike standard) into two jars which are cross referenced and labelled 'trip spike' and 'control'. Both jars were sealed with electrical tape. The trip spike was taken onto site and subject to the same jar storage and transfer as the field samples. The control stayed refrigerated in the laboratory. Following receipt of the trip spike and field samples, the trip spike and corresponding control are both analysed with results of the trip spike being expressed as the % difference from the control sample.

The acceptance limit for trip spikes is 60-140% in difference compared to the control or standard.

A trip spike was taken into the field on every soil sampling day and dispatched with the batch sampling run.

Q3.10 Relative Percentage Difference

A measure of the consistency of results for field samples is derived by the calculation of relative percentage differences (RPDs) for replicate samples. A RPD of +/- 30% is generally considered typically acceptable for inorganic analytes by NSW EPA, although in general a wider RPD range (50%) may be acceptable for organic analytes. RPDs have only been considered where a concentration is greater than five times the PQL. High RPDs (if applicable) are shown in **bold and shaded** on the relevant tables below.

Replicate samples were collected at a rate of approximately one replicate sample for every ten original samples collected and also analysed at a rate of 10% of primary samples analysed (5% inter- and 5% intra-laboratory replicates), generally with a minimum of one replicate sample collected for each day of sampling.

Q3.10.1 Inter-Laboratory Analysis

An inter-laboratory replicate was analysed as an internal check of the reproducibility within the primary laboratory (Envirolab Pty Ltd) and as a measure of consistency of sampling techniques.

One primary soil sample was analysed to one inter-laboratory soil sample replicate (10%). Therefore the inter-laboratory replicate sampling requirement was met.

The comparative results of analysis between original and replicate samples are summarised in Table Q3.



Table Q3: Inter-laboratory Results – Soils (mg/kg)

Analyte	Primary Sample ID	Replicate Sample ID	Difference	RPD
Arsenic	<4	8	NA	120
Cadmium	<0.4	<0.4	NA	-
Chromium	11	11	0	0
Copper	7	6	1	15
Lead	9	7	2	25
Mercury	<0.1	<0.1	NA	-
Nickel	6	5.5	0.5	9
Zinc	30	27	3	11
Naphthalene	<0.1	<0.5	NA	=
B(a)P	<0.05	<0.5	NA	-
B(a)P TEQ	<0.5	<0.5	NA	=
Total +ve PAH	NIL	NIL	NA	-

The calculated RPD values were within the acceptable range of \pm 30 for inorganic analytes with the exception of those shaded and in bold. However, this is not considered to be significant because:

The majority of RPDs within were within the acceptable limits.

Overall, the inter-laboratory comparisons indicate that the sampling technique was consistent and repeatable and therefore the results are useable and representative of the conditions encountered.

Q3.11 Field Blanks

Laboratory prepared soil field blanks were taken out to the field unopened on each day of sampling, subjected to the same preservation methods as the field samples, then analysed for the purposes of determining whether transfer of contaminants into the blank sample had occurred prior to reaching the laboratory. If this is confirmed then there is also a potential for other samples in the batch to have been impacted. The result of the laboratory analysis for the field blank is shown in Table Q4. One soil blank was analysed over the course of the investigation.



Table Q4: Trip Blank Results - Soils (mg/kg)

Sample ID	Benzene	Toluene	Ethylbenzene	M + P Xylene	O Xylene
TB/260914	<0.2	<0.5	<1	<2	<1

Levels of analytes were all below detection limits indicating that the potential that significant cross contamination had not occurred during the course of the round trip from the site to the laboratory.

Q3.12 Trip Spikes

A trip spike was taken into the field on each day of sampling and dispatched with the batch sampling run. Results (Table 5) indicate that the percentage loss for BTEX during the trip was minimal and therefore appropriate preservation techniques were employed. The results of the laboratory analysis for the trip spikes are shown in Table Q5. A total of one soil spike was analysed over the course of the investigation.

Table Q5: Trip Spike Results - Soils (% Recovery)

Sample ID	Benzene	Toluene	Ethylbenzene	M + P Xylene	O Xylene
TS/260914	118	118	118	118	118

Results indicate that the percentage recovery for BTEX during the trip was acceptable and therefore appropriate preservation techniques were employed.

Q3.13 Field Instrument Calibration

The photoionisation detector (PID) fitted with a 10.6 volt lamp and was calibrated and serviced at ThermoFisher Scientific on 4 April 2014 and in the field with isobutylene gas every week during the course of the drilling programme.



Q4. LABORATORY QUALITY ASSURANCE AND QUALITY CONTROL

Q4.1 Chain of Custody

Chain-of-custody procedures are discussed in Section Q 3.5.

Q4.2 Holding Times

A review of the laboratory certificates of analysis and chain-of-custody documentation indicated that holding times were met, as summarised in Table Q6.

Table Q6: Holding Times

Matrix	Analyte	Recommended maximum holding time	Holding time met
Soil	Heavy Metals: As, Cd, Cr, Cu, Pb, Hg, Ni, Zn	6 months	Yes
	TRH C ₆ -C ₉	14 days	Yes
	TRH C ₁₀ -C ₃₆	14 days	Yes
	BTEX/VOC	14 days	Yes
	PAH	14 days	Yes
	OCP	14 days	Yes
	OPP	14 days	Yes
	РСВ	14 days	Yes
	Phenols	14 days	Yes
	Asbestos	Nil	Yes

Q4.3 Analytical Laboratories

Samples were submitted to the following laboratory for analysis:

- Envirolab Services (Envirolab)
- Eurofins (inter-lab sample)

The laboratories are NATA accredited for the analyses undertaken. Envirolab's accreditation number is 2901 and Eurofins accreditation number is 1261, both are accredited for compliance with ISO 17025. Envirolab's and Eurofins tests comply with NATA and NEPC (2013). In-house procedures are employed by Envirolab and Eurofins in the absence of documented standards.

It is noted, however, that some of the test methods adopted are not NATA accredited where no NATA accredited method exists, however, the best international practice was adopted in the analytical



methods and standard international analytical methods adopted. It is not considered that this will affect the validity of the results for this assessment.

Q4.4 Analytical Methods

The laboratory analytical methods are provided on the laboratory certificates of analysis in Appendix J and summarised below in Table Q7.

Table Q7: Soil Analysis

Analyte	Limit of Reporting (mg/kg)	Reference Method
Heavy Metals Cd, Cr, Cu, Pb, Ni, Zn	1.0	Metals 020 ICP-AES
Arsenic (As)	4.0	Metals 020 ICP-AES
Mercury (Hg)	0.10	Metals 021 ICP-AAS
voc	0.2-1	Org-014
TPH C ₆ -C ₉	25	Org-016
TPH C ₁₀ -C ₃₆	250	Org-003
втех	0.2-2	Org-016
ОСР	0.1	Org-005
РСВ	0.1	Org-006
РАН	0.05-0.1	Org-012 subset
Phenols	5	Inorg-031
Asbestos	qualitative identification	NA

Q4.5 Results of Laboratory QA/QC Procedures

The following QA/QC procedures were conducted by the laboratories. The results are included in the laboratory certificates of analysis in Appendix J.

Q4.5.1 Surrogate Spike

This sample is prepared by adding a known amount of surrogate, which behaves similarly to the analyte, prior to analysis to each sample. The recovery result indicates the proportion of the known



concentration of the surrogate that is detected during analysis. These results are within acceptance limits as specified by Envirolab indicating that the extraction technique was effective.

The laboratory acceptance criteria for surrogate samples is generally 60-140% for organics; and 10-140% for SVOC and speciated phenols.

The laboratory QC for surrogate spikes was within the acceptance standards.

Q4.5.2 Practical Quantitation Limits - PQLs

The PQL is the lowest quantity of an analyte which can be measured with a high degree of confidence that the analyte is present at or above that concentration. PQLs at different analytical laboratories can differ based on the analytical techniques.

Q4.5.3 Reference and Daily Check Sample Results – Laboratory Control Sample (LCS)

This sample comprises spiking either a standard reference material or a control matrix (such as a blank of sand or water) with a known concentration of specific analytes. The LCS is then analysed and results compared against each other to determine how the laboratory has performed with regard to sample preparation and analytical procedure. LCSs are analysed at a frequency of 1 in 20, with a minimum of one analysed per batch.

The laboratory acceptance criteria for LCS samples is generally 70-130% for inorganic/ metals; and 60-140% for organics; and 10-140% for SVOC and speciated phenols.

The laboratory QC for LCS was within the acceptance standards.

Q4.5.4 Laboratory Replicate Results

These are additional portions of a sample which are analysed in exactly the same manner as all other samples. The laboratory acceptance criteria for replicate samples are: in cases where the level is <5xPQL - any RPD is acceptable; and in cases where the level is >5xPQL - 0-50% RPD is acceptable.

The laboratory QC for laboratory replicate results was within the acceptance standards, with the exception of one Eurofins sample for benzo (b&k) fluoranthene. It is considered however that the overall results are acceptable for the current investigation and the result is possibly an anomaly.

Q4.5.5 Laboratory Blank Results

The laboratory blank sometimes referred to as the method blank or reagent blank is the sample prepared and analysed at the beginning of every analytical run, following calibration of the analytical apparatus. This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, it can be determined by processing solvents and reagents in exactly the same manner as for samples. Laboratory blanks are analysed at a frequency of 1 in 20, with a minimum of one per batch.



The laboratory QC for method blanks was within the acceptance standards.

Q4.5.6 Matrix Spike

This is a sample replicate prepared by adding a known amount of analyte prior to analysis, and then treated exactly the same as all other samples. The recovery result indicates the proportion of the known concentration of the analyte that is detected during analysis. The laboratory acceptance criteria for matrix spike samples is generally 70-130% for inorganic/metals; and 60-140% for organics; and 10-140% for SVOC and speciated phenols.

The laboratory QC for matrix spikes were within the acceptance standards.

Q4.6 Laboratory Comments

The laboratory QC for surrogate spikes, LCS, laboratory replicate results, method blanks and matrix spikes were within the acceptance standards.

Appendix I

Borehole Log Results

Notes About this Report

About this Report



Introduction

These notes have been provided to amplify DP's report in regard to classification methods, field procedures and the comments section. Not all are necessarily relevant to all reports.

DP's reports are based on information gained from limited subsurface excavations and sampling, supplemented by knowledge of local geology and experience. For this reason, they must be regarded as interpretive rather than factual documents, limited to some extent by the scope of information on which they rely.

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This report is the property of Douglas Partners Pty Ltd. The report may only be used for the purpose for which it was commissioned and in accordance with the Conditions of Engagement for the commission supplied at the time of proposal. Unauthorised use of this report in any form whatsoever is prohibited.

Borehole and Test Pit Logs

The borehole and test pit logs presented in this report are an engineering and/or geological interpretation of the subsurface conditions, and their reliability will depend to some extent on frequency of sampling and the method of drilling or excavation. Ideally, continuous undisturbed sampling or core drilling will provide the most reliable assessment, but this is not always practicable or possible to justify on economic grounds. In any case the boreholes and test pits represent only a very small sample of the total subsurface profile.

Interpretation of the information and its application to design and construction should therefore take into account the spacing of boreholes or pits, the frequency of sampling, and the possibility of other than 'straight line' variations between the test locations.

Groundwater

Where groundwater levels are measured in boreholes there are several potential problems, namely:

 In low permeability soils groundwater may enter the hole very slowly or perhaps not at all during the time the hole is left open;

- A localised, perched water table may lead to an erroneous indication of the true water table:
- Water table levels will vary from time to time with seasons or recent weather changes.
 They may not be the same at the time of construction as are indicated in the report;
- The use of water or mud as a drilling fluid will mask any groundwater inflow. Water has to be blown out of the hole and drilling mud must first be washed out of the hole if water measurements are to be made.

More reliable measurements can be made by installing standpipes which are read at intervals over several days, or perhaps weeks for low permeability soils. Piezometers, sealed in a particular stratum, may be advisable in low permeability soils or where there may be interference from a perched water table.

Reports

The report has been prepared by qualified personnel, is based on the information obtained from field and laboratory testing, and has been undertaken to current engineering standards of interpretation and analysis. Where the report has been prepared for a specific design proposal, the information and interpretation may not be relevant if the design proposal is changed. If this happens, DP will be pleased to review the report and the sufficiency of the investigation work.

Every care is taken with the report as it relates to interpretation of subsurface conditions, discussion of geotechnical and environmental aspects, and recommendations or suggestions for design and construction. However, DP cannot always anticipate or assume responsibility for:

- Unexpected variations in ground conditions.
 The potential for this will depend partly on borehole or pit spacing and sampling frequency;
- Changes in policy or interpretations of policy by statutory authorities; or
- The actions of contractors responding to commercial pressures.

If these occur, DP will be pleased to assist with investigations or advice to resolve the matter.

About this Report

Site Anomalies

In the event that conditions encountered on site during construction appear to vary from those which were expected from the information contained in the report, DP requests that it be immediately notified. Most problems are much more readily resolved when conditions are exposed rather than at some later stage, well after the event.

Information for Contractual Purposes

Where information obtained from this report is provided for tendering purposes, it is recommended that all information, including the written report and discussion, be made available. In circumstances where the discussion or comments section is not relevant to the contractual situation, it may be appropriate to prepare a specially edited document. DP would be pleased to assist in this regard and/or to make additional report copies available for contract purposes at a nominal charge.

Site Inspection

The company will always be pleased to provide engineering inspection services for geotechnical and environmental aspects of work to which this report is related. This could range from a site visit to confirm that conditions exposed are as expected, to full time engineering presence on site.

Sampling Methods



Sampling

Sampling is carried out during drilling or test pitting to allow engineering examination (and laboratory testing where required) of the soil or rock.

Disturbed samples taken during drilling provide information on colour, type, inclusions and, depending upon the degree of disturbance, some information on strength and structure.

Undisturbed samples are taken by pushing a thinwalled sample tube into the soil and withdrawing it to obtain a sample of the soil in a relatively undisturbed state. Such samples yield information on structure and strength, and are necessary for laboratory determination of shear strength and compressibility. Undisturbed sampling is generally effective only in cohesive soils.

Test Pits

Test pits are usually excavated with a backhoe or an excavator, allowing close examination of the insitu soil if it is safe to enter into the pit. The depth of excavation is limited to about 3 m for a backhoe and up to 6 m for a large excavator. A potential disadvantage of this investigation method is the larger area of disturbance to the site.

Large Diameter Augers

Boreholes can be drilled using a rotating plate or short spiral auger, generally 300 mm or larger in diameter commonly mounted on a standard piling rig. The cuttings are returned to the surface at intervals (generally not more than 0.5 m) and are disturbed but usually unchanged in moisture content. Identification of soil strata is generally much more reliable than with continuous spiral flight augers, and is usually supplemented by occasional undisturbed tube samples.

Continuous Spiral Flight Augers

The borehole is advanced using 90-115 mm diameter continuous spiral flight augers which are withdrawn at intervals to allow sampling or in-situ testing. This is a relatively economical means of drilling in clays and sands above the water table. Samples are returned to the surface, or may be collected after withdrawal of the auger flights, but they are disturbed and may be mixed with soils from the sides of the hole. Information from the drilling (as distinct from specific sampling by SPTs or undisturbed samples) is of relatively low

reliability, due to the remoulding, possible mixing or softening of samples by groundwater.

Non-core Rotary Drilling

The borehole is advanced using a rotary bit, with water or drilling mud being pumped down the drill rods and returned up the annulus, carrying the drill cuttings. Only major changes in stratification can be determined from the cuttings, together with some information from the rate of penetration. Where drilling mud is used this can mask the cuttings and reliable identification is only possible from separate sampling such as SPTs.

Continuous Core Drilling

A continuous core sample can be obtained using a diamond tipped core barrel, usually with a 50 mm internal diameter. Provided full core recovery is achieved (which is not always possible in weak rocks and granular soils), this technique provides a very reliable method of investigation.

Standard Penetration Tests

Standard penetration tests (SPT) are used as a means of estimating the density or strength of soils and also of obtaining a relatively undisturbed sample. The test procedure is described in Australian Standard 1289, Methods of Testing Soils for Engineering Purposes - Test 6.3.1.

The test is carried out in a borehole by driving a 50 mm diameter split sample tube under the impact of a 63 kg hammer with a free fall of 760 mm. It is normal for the tube to be driven in three successive 150 mm increments and the 'N' value is taken as the number of blows for the last 300 mm. In dense sands, very hard clays or weak rock, the full 450 mm penetration may not be practicable and the test is discontinued.

The test results are reported in the following form.

 In the case where full penetration is obtained with successive blow counts for each 150 mm of, say, 4, 6 and 7 as:

> 4,6,7 N=13

 In the case where the test is discontinued before the full penetration depth, say after 15 blows for the first 150 mm and 30 blows for the next 40 mm as:

15, 30/40 mm

Sampling Methods

The results of the SPT tests can be related empirically to the engineering properties of the soils.

Dynamic Cone Penetrometer Tests / Perth Sand Penetrometer Tests

Dynamic penetrometer tests (DCP or PSP) are carried out by driving a steel rod into the ground using a standard weight of hammer falling a specified distance. As the rod penetrates the soil the number of blows required to penetrate each successive 150 mm depth are recorded. Normally there is a depth limitation of 1.2 m, but this may be extended in certain conditions by the use of extension rods. Two types of penetrometer are commonly used.

- Perth sand penetrometer a 16 mm diameter flat ended rod is driven using a 9 kg hammer dropping 600 mm (AS 1289, Test 6.3.3). This test was developed for testing the density of sands and is mainly used in granular soils and filling.
- Cone penetrometer a 16 mm diameter rod with a 20 mm diameter cone end is driven using a 9 kg hammer dropping 510 mm (AS 1289, Test 6.3.2). This test was developed initially for pavement subgrade investigations, and correlations of the test results with California Bearing Ratio have been published by various road authorities.

July 2010

Soil Descriptions Douglas Partners

Description and Classification Methods

The methods of description and classification of soils and rocks used in this report are based on Australian Standard AS 1726, Geotechnical Site Investigations Code. In general, the descriptions include strength or density, colour, structure, soil or rock type and inclusions.

Soil Types

Soil types are described according to the predominant particle size, qualified by the grading of other particles present:

Туре	Particle size (mm)
Boulder	>200
Cobble	63 - 200
Gravel	2.36 - 63
Sand	0.075 - 2.36
Silt	0.002 - 0.075
Clay	<0.002

The sand and gravel sizes can be further subdivided as follows:

Туре	Particle size (mm)
Coarse gravel	20 - 63
Medium gravel	6 - 20
Fine gravel	2.36 - 6
Coarse sand	0.6 - 2.36
Medium sand	0.2 - 0.6
Fine sand	0.075 - 0.2

The proportions of secondary constituents of soils are described as:

Term	Proportion	Example
And	Specify	Clay (60%) and Sand (40%)
Adjective	20 - 35%	Sandy Clay
Slightly	12 - 20%	Slightly Sandy Clay
With some	5 - 12%	Clay with some sand
With a trace of	0 - 5%	Clay with a trace of sand

Definitions of grading terms used are:

- Well graded a good representation of all particle sizes
- Poorly graded an excess or deficiency of particular sizes within the specified range
- Uniformly graded an excess of a particular particle size
- Gap graded a deficiency of a particular particle size with the range

Cohesive Soils

Cohesive soils, such as clays, are classified on the basis of undrained shear strength. The strength may be measured by laboratory testing, or estimated by field tests or engineering examination. The strength terms are defined as follows:

Description	Abbreviation	Undrained shear strength (kPa)
Very soft	vs	<12
Soft	s	12 - 25
Firm	f	25 - 50
Stiff	st	50 - 100
Very stiff	vst	100 - 200
Hard	h	>200

Cohesionless Soils

Cohesionless soils, such as clean sands, are classified on the basis of relative density, generally from the results of standard penetration tests (SPT), cone penetration tests (CPT) or dynamic penetrometers (PSP). The relative density terms are given below:

Relative Density	Abbreviation	SPT N value	CPT qc value (MPa)
Very loose	vl	<4	<2
Loose	l	4 - 10	2 -5
Medium dense	md	10 - 30	5 - 15
Dense	d	30 - 50	15 - 25
Very dense	vd	>50	>25

July 2010

Soil Descriptions

Soil Origin

It is often difficult to accurately determine the origin of a soil. Soils can generally be classified as:

- Residual soil derived from in-situ weathering of the underlying rock;
- Transported soils formed somewhere else and transported by nature to the site; or
- Filling moved by man.

Transported soils may be further subdivided into:

- · Alluvium river deposits
- Lacustrine lake deposits
- · Aeolian wind deposits
- Littoral beach deposits
- Estuarine tidal river deposits
- Talus scree or coarse colluvium
- Slopewash or Colluvium transported downslope by gravity assisted by water. Often includes angular rock fragments and boulders.

July 2010

Rock Descriptions Douglas Partners O

Rock Strength

Rock strength is defined by the Point Load Strength Index $(ls_{(50)})$ and refers to the strength of the rock substance and not the strength of the overall rock mass, which may be considerably weaker due to defects. The test procedure is described by Australian Standard 4133.4.1 - 1993. The terms used to describe rock strength are as follows:

Term	Abbreviation	Point Load Index Is ₍₅₀₎ MPa	Approx Unconfined Compressive Strength MPa*
Extremely low	EL	<0.03	<0.6
Very low	VL	0.03 - 0.1	0.6 - 2
Low	L	0.1 - 0.3	2 - 6
Medium	М	0.3 - 1.0	6 - 20
High	Н	1 - 3	20 - 60
Very high	VH	3 - 10	60 - 200
Extremely high	EH	>10	>200

^{*} Assumes a ratio of 20:1 for UCS to Is(50)

Degree of Weathering

The degree of weathering of rock is classified as follows:

Term	Abbreviation	Description
Extremely weathered	EW	Rock substance has soil properties, i.e. it can be remoulded and classified as a soil but the texture of the original rock is still evident.
Highly weathered	HW	Limonite staining or bleaching affects whole of rock substance and other signs of decomposition are evident. Porosity and strength may be altered as a result of iron leaching or deposition. Colour and strength of original fresh rock is not recognisable
Moderately weathered	MW	Staining and discolouration of rock substance has taken place
Slightly weathered	SW	Rock substance is slightly discoloured but shows little or no change of strength from fresh rock
Fresh stained	Fs	Rock substance unaffected by weathering but staining visible along defects
Fresh	Fr	No signs of decomposition or staining

Degree of Fracturing

The following classification applies to the spacing of natural fractures in diamond drill cores. It includes bedding plane partings, joints and other defects, but excludes drilling breaks.

Term	Description
Fragmented	Fragments of <20 mm
Highly Fractured	Core lengths of 20-40 mm with some fragments
Fractured	Core lengths of 40-200 mm with some shorter and longer sections
Slightly Fractured	Core lengths of 200-1000 mm with some shorter and loner sections
Unbroken	Core lengths mostly > 1000 mm

Rock Descriptions

Rock Quality Designation

The quality of the cored rock can be measured using the Rock Quality Designation (RQD) index, defined as:

RQD % = <u>cumulative length of 'sound' core sections ≥ 100 mm long</u> total drilled length of section being assessed

where 'sound' rock is assessed to be rock of low strength or better. The RQD applies only to natural fractures. If the core is broken by drilling or handling (i.e. drilling breaks) then the broken pieces are fitted back together and are not included in the calculation of RQD.

Stratification Spacing

For sedimentary rocks the following terms may be used to describe the spacing of bedding partings:

Term	Separation of Stratification Planes
Thinly laminated	< 6 mm
Laminated	6 mm to 20 mm
Very thinly bedded	20 mm to 60 mm
Thinly bedded	60 mm to 0.2 m
Medium bedded	0.2 m to 0.6 m
Thickly bedded	0.6 m to 2 m
Very thickly bedded	> 2 m

Symbols & Abbreviations

Introduction

These notes summarise abbreviations commonly used on borehole logs and test pit reports.

Drilling or Excavation Methods

С	Core Drilling
R	Rotary drilling
SFA	Spiral flight augers
NMLC	Diamond core - 52 mm dia
NQ	Diamond core - 47 mm dia
HQ	Diamond core - 63 mm dia
PQ	Diamond core - 81 mm dia

Water

\triangleright	Water seep
∇	Water level

Sampling and Testing

Α	Auger sample
В	Bulk sample
D	Disturbed sample
Е	Environmental sample
0.0	

Undisturbed tube sample (50mm) U_{50}

W Water sample

pocket penetrometer (kPa) pp PID Photo ionisation detector PLPoint load strength Is(50) MPa S Standard Penetration Test

Shear vane (kPa)

Description of Defects in Rock

The abbreviated descriptions of the defects should be in the following order: Depth, Type, Orientation, Coating, Shape, Roughness and Other. Drilling and handling breaks are not usually included on the logs.

Defect Type

.) 0
Bedding plane
Clay seam
Cleavage
Crushed zone
Decomposed seam

F Fault Joint J lamination Lam Pt **Parting** Sz Sheared Zone

Vein

Orientation

The inclination of defects is always measured from the perpendicular to the core axis.

h	horizontal
٧	vertical
sh	sub-horizontal
SV	sub-vertical

Coating or Infilling Term

cln	clean
CO	coating
he	healed
inf	infilled
stn	stained
ti	tight
vn	veneer

Coating Descriptor

ca	calcite
cbs	carbonaceous
cly	clay
fe	iron oxide
mn	manganese
slt	silty

Shape

cu	curved
ir	irregular
pl	planar
st	stepped
un	undulating

Roughness

ро	polished
ro	rough
sl	slickensided
sm	smooth
vr	very rough

Other

fg	fragmented
bnd	band
qtz	quartz

Symbols & Abbreviations

Graphic Symbols for Soil and Rock

General		Sedimentary	Rocks
	Asphalt	Q94	Boulder conglomerate
	Road base		Conglomerate
A. A. A. A. A. A. A. A.	Concrete		Conglomeratic sandstone
	Filling		Sandstone
Soils			Siltstone
	Topsoil		Laminite
	Peat		Mudstone, claystone, shale
	Clay		Coal
	Silty clay		Limestone
	Sandy clay	Metamorphic	Rocks
	Gravelly clay	$\sim\sim\sim\sim\sim$	Slate, phyllite, schist
7-7-7-	Shaly clay	+ + + + + +	Gneiss
	Silt		Quartzite
	Clayey silt	Igneous Roc	ks
	Sandy silt	+++++	Granite
	Sand	<	Dolerite, basalt, andesite
	Clayey sand	× × × × × ×	Dacite, epidote
.[.].[.].[.]	Silty sand	\vee \vee \vee	Tuff, breccia
	Gravel		Porphyry
	Sandy gravel		
	Cobbles, boulders		
	Talus		

CLIENT: Uniting Care Ageing
PROJECT: Proposed Aged Care Facility
LOCATION: Emerald Street, Emu Plains

SURFACE LEVEL: 26.8 AHD EASTING: 283146 NORTHING: 6262605 DIP/AZIMUTH: 90°/--

BORE No: BH1 PROJECT No: 84503 DATE: 26/9/2014 SHEET 1 OF 1

			Description	. <u>©</u>		Sampling & In Situ Testing			L	Well
씸	Dep (m	oth 1)	of	Graphic Log	Туре	Depth	Sample	Results & Comments	Water	Construction
H	(0.05	Strata \[\asphaltic concrete \]	/\^^	-	۵	Sa	Comments		Details
			FILLING - brown, silty, fine to coarse sand filling with trace basalt gravel, humid		E/D	0.2		PID<1		
			SILTY CLAY - very stiff, red silty clay with trace fine to medium sand (MC< <pl)< td=""><td>//</td><td>E/D</td><td>0.5</td><td></td><td>PID<1</td><td></td><td></td></pl)<>	//	E/D	0.5		PID<1		
2	-1		medium sand (MC< <pl)< td=""><td>1/</td><td></td><td>1.0</td><td></td><td></td><td></td><td>-1 -1</td></pl)<>	1/		1.0				-1 -1
					S	1.45		8,13,15 N = 28		
25		1.8				1.45				
-	-2	1.0	SILTY SAND - medium dense, red-brown, slightly clayey, silty, fine to medium sand, damp	·i·i·i						-2
						0.5				
24				·i·i·i	S	2.5		4,6,10 N = 16		
	-3					2.95		PID<1		-3
				$[\cdot]\cdot[\cdot]$						
23				• • • • • •						
	-4					4.0		10,17,18		-4
		4.4	SILTY SANDY CLAY - hard, brown, silty sandy clay///	S	4.45		N = 35 PID<1		
22			(MC< <pl)< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></pl)<>							
	-5	5.2								-5 -
		5.2	Bore discontinued at 5.2m - refusal on river gravel							
21										
	-6									-6 -
76 40 50										
20										
	-7									-7 -
19										
20	-8									-8
										[
18										
	-9									-9
17										
								<u> </u>		<u> </u>

RIG: DT 100 DRILLER: SS LOGGED: JE CASING: Uncased

TYPE OF BORING: Auger to termination

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

ī		SAMPLING & IN SITU TESTING LEGEND										
		3	AWPLING	WIN SITU TESTING	LEGE	:ND						
	Α	Auger sample	G	Gas sample	PID	Photo ionisation detector (ppm)						
	В	Bulk sample	P	Piston sample	PL(A	Point load axial test Is(50) (MPa)						
	BLK	Block sample	U	Tube sample (x mm dia.)	PL(D	Point load diametral test Is(50) (MPa)						
	C	Core drilling	W	Water sample	pp	Pocket penetrometer (kPa)						
	D	Disturbed sample	D	Water seep	S	Standard penetration test						
	_	Course appeared a con-	olo T	Materland	11	Charriage (IrDa)						



CLIENT: Uniting Care Ageing
PROJECT: Proposed Aged Care Facility
LOCATION: Emerald Street, Emu Plains

SURFACE LEVEL: 26.4 AHD EASTING: 283006 NORTHING: 6262595 DIP/AZIMUTH: 90°/--

BORE No: BH2 PROJECT No: 84503 DATE: 26/9/2014 SHEET 1 OF 1

	Description	ji.	Sampling & In Situ Testing			& In Situ Testing	ڀ	Well
군 Depth (m)	of	Graphic Log	Туре	epth	Depth Results & Comments		Water	Construction
0.05	Strata				Sa			Details
	ASPHALTIC CONCRETE FILLING - grey, silty, fine to medium sand with trace fine to medium basalt gravel, humid	$\stackrel{\times\times}{\times}$	E/D	0.2		PID<1 PID<1		
100	FILLING - grey, gravelly clay filling, fine to medium angular shale gravel (MC< <pl)< td=""><td></td><td>E/D</td><td>0.5</td><td></td><td>PIDNI</td><td></td><td></td></pl)<>		E/D	0.5		PIDNI		
- 1 - 29 	SAND - dense, light grey, fine to medium sand with trace silt, humid		E/D S*	1.0		PID<1 8/20mm refusal		-1
1.9	CLAYEY SAND - dense, orange-brown, slightly silty, clayey fine to medium sand, damp		S	2.5		25/100mm refusal PID<1		-2
-3								-3
3.7	Bore discontinued at 3.7m - refusal on river gravel	<i>K., X.,</i>						-4 -5 -6 -7 -8

RIG: DT 100 DRILLER: SS LOGGED: JE CASING: Uncased

TYPE OF BORING: Auger to termination

WATER OBSERVATIONS: No free groundwater observed **REMARKS:** *SPT aborted, concern over services

SAMPLING & IN SITU TESTING LEGEND

A Auger sample
B Bulk sample
B Bulk Shock sample
C Core drilling
D D isturbed sample
E Environmental sample

SAMPLING & IN S11 of LESTING
G as sample
P Piston sample
U, Tube sample (x mm dia.)
W Water sample
Water seep
E Environmental sample

W Water level

LEGEND
PID Photo ionisation detector (ppm)
PL(A) Point load axial test Is(50) (MPa)
PL(D) Point load diametral test Is(50) (MPa)
pp
Pocket penetrometer (kPa)
S standard penetration test
V Shear vane (kPa)



Uniting Care Ageing CLIENT: PROJECT: Proposed Aged Care Facility Emerald Street, Emu Plains LOCATION:

SURFACE LEVEL: 27.0 AHD **EASTING**: 283155 **NORTHING:** 6262667 DIP/AZIMUTH: 90°/--

BORE No: BH3 **PROJECT No: 84503 DATE**: 26/9/2014 SHEET 1 OF 1

	Depth	Description	hic	Sampling & In Situ Testing			& In Situ Testing	- i-	Well
집	(m)	of Strata	Graphic Log	Туре	Depth	Sample	Results & Comments	Water	Construction Details
25 26 27	1	Strata FILLING - brown, sandy silt (topsoil) with bark and rootlets FILLING - light orange-brown, silty sand with trace clay and sticks (<5cm length) (possibly reworked natural) SILTY SAND - light orange-brown, silty sand with trace of clay and ironstone gravel Bore discontinued at 0.7m - refusal on tree root			0.1 0.15 0.2 0.25 0.5 0.6	Sa	PID<1 PID<1 PID<1		Details
23									-3
27									-5
19 20 10 10 10 10 10 10 10 10 10 10 10 10 10									7
	9								9

DRILLER: JAL LOGGED: JAL **CASING:** Uncased RIG: Hand tools

TYPE OF BORING: Hand auger

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

SAMPLING	& IN SITU	TESTING	LEGI	END
G	Gas sample		DID	Pho

A Auger sample
B Bulk sample
BLK Block sample
C Core drilling
D Disturbed sample
E Environmental sample Gas sample
Piston sample
Tube sample (x mm dia.)
Water sample
Water seep
Water level LEGEND
PID Photo ionisation detector (ppm)
PL(A) Point load axial test Is(50) (MPa)
PL(D) Point load diametral test Is(50) (MPa)
pp
Pocket penetrometer (kPa)
S standard penetration test
V Shear vane (kPa)



CLIENT: Uniting Care Ageing
PROJECT: Proposed Aged Care Facility
LOCATION: Emerald Street, Emu Plains

SURFACE LEVEL: 26.8 AHD EASTING: 283083 NORTHING: 6262650 DIP/AZIMUTH: 90°/--

BORE No: BH4
PROJECT No: 84503
DATE: 26/9/2014
SHEET 1 OF 1

П		B			Sam	ınlina 8	& In Situ Testing		W-II
귐	Depth	Description of	Graphic Log	40				Water	Well Construction
	(m)	Strata	Gra	Туре	Depth	Sample	Results & Comments	Š	Details
	0.1	FILLING - brown, sandy silt (topsoil)				Ø	a a		- Details
			$\otimes \otimes$	Ε,	0.1 0.2		PID<1		
	0.4	Sandstone graver		E*	0.5		PID<1		-
56		SILTY CLAYEY SAND - orange-brown, silty, fine to medium clayey sand			0.5 0.6 0.7 —0.8—		PID<1		[
2	0.9	- medium to coarse sand at 0.7m	ואירואו		-0.8				-1
		Bore discontinued at 0.9m							ļ
		- target depth reached							
-									
25	-2								-2
	- 2								
									ļ
									[
24									
-0	-3								-3
									ļ
-23									ļ
	-4								-4
22									-
E	-5								-5
10									
21									
- "	-6								- -6
E									
-									
-8	-7								-7
									<u>'</u>
									[-
19									
	-8								-8 [
									<u> </u>
-8									[
	-9								-9
1									[

RIG: Hand tools DRILLER: JAL LOGGED: JAL CASING: Uncased

TYPE OF BORING: Hand auger

WATER OBSERVATIONS: No free groundwater observed

REMARKS: *BD1/260914

SAMPLING & I	N SITU TESTING	LEGEND

A Auger sample
B Bulk sample
B Bulk Shock sample
C Core drilling
D D isturbed sample
E Environmental sample

SAMPLING & IN S11 of LESTING
G as sample
P Piston sample
U, Tube sample (x mm dia.)
W Water sample
Water seep
E Environmental sample

W Water level

LEGEND
PID Photo ionisation detector (ppm)
PL(A) Point load axial test Is(50) (MPa)
PL(D) Point load diametral test Is(50) (MPa)
pp Pocket penetrometer (kPa)
Standard penetration test
V Shear vane (kPa)



Uniting Care Ageing CLIENT: PROJECT: Proposed Aged Care Facility Emerald Street, Emu Plains LOCATION:

SURFACE LEVEL: 26.4 AHD **EASTING**: 283052 **NORTHING**: 6262656 DIP/AZIMUTH: 90°/--

BORE No: BH5A PROJECT No: 84503 DATE: 26/9/2014 SHEET 1 OF 1

		Description	jic	Sampling & In Situ Testing					Well	
귐	Depth (m)	of	Graphic Log	Туре	Depth	Sample	Results & Comments	Water	Construction	
	0.05	Strata	U	7	De	Sar	Comments		Details	
26	0.05	FILLING - dark brown, sandy silt filling with rootlets FILLING - orange-brown, clayey silty sand filling with some sandstone and shale gravel, quartz and brick		E	0.3 0.4 0.5		PID<1 PID<1			
	0.7 0.9 1 1.0	fragments			0.5					
25	1.0	FILLING - brown, gravelly sand filling with trace clay and shale gravel								
		Bore discontinued at 1.0m - refusal on hard filling								
	2								-2	
24										
	3								-3	
23										
	4								-4	
22										
	5								-5	
21										
	6								-6 -1	
20										
	7								7	
19										
_8	8								-8	
-										
	9								9	
17										

DRILLER: JAL LOGGED: JAL **CASING:** Uncased RIG: Hand tools

TYPE OF BORING: Hand auger

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

SAMPLING & IN SITU	TESTING	LEG	END
G Gas sample		PID	Pho

A Auger sample
B Bulk sample
BLK Block sample
C Core drilling
D Disturbed sample
E Environmental sample Gas sample
Piston sample
Tube sample (x mm dia.)
Water sample
Water seep
Water level LEGEND
PID Photo ionisation detector (ppm)
PL(A) Point load axial test Is(50) (MPa)
PL(D) Point load diametral test Is(50) (MPa)
pp
Pocket penetrometer (kPa)
S standard penetration test
V Shear vane (kPa)



Uniting Care Ageing CLIENT: PROJECT: Proposed Aged Care Facility LOCATION: Emerald Street, Emu Plains

SURFACE LEVEL: 26.3 AHD EASTING: 283048 **NORTHING:** 6262658 **DIP/AZIMUTH**: 90°/--

BORE No: BH5B PROJECT No: 84503 DATE: 26/9/2014 SHEET 1 OF 1

		Description	.je	Sampling & In Situ Testing			101 500		& In Situ Testing	ڀ	Well	
귐	Depth (m)	of	Graphic Log	Туре	Depth	Sample	Results & Comments	Water	Construction			
Ш	0.05	Strata	0	ŕ	ă	Sar	Comments		Details			
26	0.4	fragments FILLING - mottled grey-red-brown, sandy clay filling with		E E	0.5 0.6 0.7 0.8		PID<1 PID<1					
25	-1 1.0	CLAYEY SAND - brown, clayey sand with some ironstone and shale gravel	1 / 1 . / 1						-			
		Bore discontinued at 1.0m										
		- target depth reached										
	-2								-2			
24												
	-3								-3			
23												
	- 4								-4			
	-											
22												
8	-5								-5			
21												
	-6								-6			
20												
	2260											
	-7								-7			
19												
	- 8								-8			
-8												
	-9								- -9			
	,											
-												
Ш			-									

DRILLER: JAL LOGGED: JAL **CASING:** Uncased RIG: Hand tools

TYPE OF BORING: Hand auger

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

SAMPLING & IN SITU TESTING	LEGI	END
G Gas sample	PID	Phot

A Auger sample
B Bulk sample
BLK Block sample
C Core drilling
D Disturbed sample
E Environmental sample Gas sample
Piston sample
Tube sample (x mm dia.)
Water sample
Water seep
Water level LEGEND
PID Photo ionisation detector (ppm)
PL(A) Point load axial test Is(50) (MPa)
PL(D) Point load diametral test Is(50) (MPa)
pp
Pocket penetrometer (kPa)
S standard penetration test
V Shear vane (kPa)



CLIENT: Uniting Care Ageing
PROJECT: Proposed Aged Care Facility
LOCATION: Emerald Street, Emu Plains

SURFACE LEVEL: 26.6 AHD EASTING: 283075 NORTHING: 6262580 DIP/AZIMUTH: 90°/--

BORE No: BH6
PROJECT No: 84503
DATE: 26/9/2014
SHEET 1 OF 1

П		Description	0		Sam	ıpling 8	& In Situ Testing		Well
귒	Depth (m)	of	Graphic Log	Φ	_		740	Water	Construction
	(111)	Strata	ag J	Type	Depth	Sample	Results & Comments	>	Details
-	0.15		XX	Е	0.0 0.15	0,	PID<1		-
		SAND - light brown, sand with medium to coarse river gravel (quartz, etc)		E*	0.3 0.4		PID<1		
- 56		gravei (quariz, etc)			0.4				ļ
	0.8	SANDY CLAY - brown, sandy clay, moist	2.7	E	0.8		PID<1		
	-1	Bore discontinued at 0.9m			0.0				-1 [
		- target depth reached							-
25									-
-0									
	-2								-2
24									
-									
-0 -0	-3								-3 -
E0									
23									[.
	- -4								-4
	4								
									[
-22									
	-5								-5
21									
	-6								-6
									-
20									[
	- 7								-7
-61									
	-8								-8
									[
==									
	-9								-9
7									
-									

RIG: Hand tools DRILLER: JAL LOGGED: JAL CASING: Uncased

TYPE OF BORING: Hand auger

WATER OBSERVATIONS: No free groundwater observed

REMARKS: *BD2/260914

SAMPLING	& IN SITU	TESTING	LEGEND

A Auger sample
B Bulk sample
B Bulk Shock sample
C Core drilling
D D isturbed sample
E Environmental sample

SAMPLING & IN S11 of LESTING
G as sample
P Piston sample
U, Tube sample (x mm dia.)
W Water sample
Water seep
E Environmental sample

W Water level

LEGEND
PID Photo ionisation detector (ppm)
PL(A) Point load axial test Is(50) (MPa)
PL(D) Point load diametral test Is(50) (MPa)
pp
Pocket penetrometer (kPa)
S standard penetration test
V Shear vane (kPa)



Uniting Care Ageing CLIENT: Proposed Aged Care Facility PROJECT: LOCATION: Emerald Street, Emu Plains

SURFACE LEVEL: 25.9 AHD EASTING: 283107 **NORTHING**: 6252681 DIP/AZIMUTH: 90°/--

BORE No: BH7 PROJECT No: 84503 DATE: 26/9/2014 SHEET 1 OF 1

П			Description	0	Sampling & In Situ Testing			& In Situ Testing		Well	
귐	De (m	pth	of	Graphic Log	e e				Water	Construction	
	ζ.,	1)	- 1 1 1 1 1 1 1 1.	<u>ნ</u> _	Туре	Depth	Sample	Results & Comments	5	Details	
		0.1	TOPSOIL - dark brown, silty clay topsoil (MC <pl) (rootlets="" 50mm)<="" td="" to=""><td></td><td>E/D</td><td>0.2</td><td></td><td>PID<1</td><td></td><td></td><td></td></pl)>		E/D	0.2		PID<1			
			SILTY CLAY - light brown-grey, silty clay with some fine to medium sand (MC< <pl)< td=""><td></td><td>E/D</td><td>0.5</td><td></td><td></td><td></td><td>-</td><td></td></pl)<>		E/D	0.5				-	
25	-1	101020			E/D	1.0				-1	
		1.2	Bore discontinued at 1.2m - at target depth								
24	-2									- - -2	
	- 2										
23	-3									-3 -3	
22	- - - 4									-4	
										-	
21	- 5 -									-5	
20	-6									-6	
										-	
- 6											
19	7									-7	
18	-8									-8	
	9									-9	
-0 -0 -0 -0											
16											

DRILLER: SS LOGGED: JE **CASING:** Uncased **RIG:** DT 100

TYPE OF BORING: Auger to termination

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

SAMPLING & IN SITU TESTING LEGEND
G Gas sample
P Piston sample
Uv Tube sample (x mm dia.)
W Water sample
D Water seep
S Water level
V Shea A Auger sample
B Bulk sample
BLK Block sample
C Core drilling
D Disturbed sample
E Environmental sample

LEGEND
PID Photo ionisation detector (ppm)
PL(A) Point load axial test Is(50) (MPa)
PL(D) Point load diametral test Is(50) (MPa)
pp
Pocket penetrometer (kPa)
S standard penetration test
V Shear vane (kPa)



CLIENT: Uniting Care Ageing
PROJECT: Proposed Aged Care Facility
LOCATION: Emerald Street, Emu Plains

SURFACE LEVEL: 26.5 AHD EASTING: 282988 NORTHING: 6262665 DIP/AZIMUTH: 90°/--

BORE No: BH8
PROJECT No: 84503
DATE: 26/9/2014
SHEET 1 OF 1

П		Τ	Department	0	Sampling & In Situ Testing					Well
귐	Depth	1	Description of	Graphic Log	Φ				Water	Construction
	(m)		Strata	Gra	Туре	Depth	Sample	Results & Comments	8	Details
	0.	1-	TOPSOIL - dark brown, silty clay topsoil with some fine to medium sand (MC <pl) (rootlets="" 50mm)<="" td="" to=""><td></td><td>E/D</td><td>0.2</td><td>.,</td><td>PID<1</td><td></td><td></td></pl)>		E/D	0.2	.,	PID<1		
26	0.	7	FILLING - brown, sandy silty clay filling with trace shale and brick fragments		E/D	0.5		PID<1		
	1	.,	SILTY CLAY - stiff, red-brown, silty clay with some fine to medium sand (MC <pl)< td=""><td></td><td>E/D</td><td>1.0</td><td></td><td>PID<1</td><td></td><td>-1</td></pl)<>		E/D	1.0		PID<1		-1
	1.:	2	Bore discontinued at 1.2m	/ //						-
25			- at target depth							
	2									-2
	-									
24										
	_									
	3									-3
23										
	4									-4
22										
	5									-5
2										
	6									-6
20										
	7									-7
-61										
	8									-8
	J									
18										
	9									-9 -
17										
										<u> </u>

RIG: DT 100 DRILLER: SS LOGGED: JE CASING: Uncased

TYPE OF BORING: Auger to termination

WATER OBSERVATIONS: No free groundwater observed

REMARKS:

SAMPLING & I	N SITU TESTING	LEGEND

A Auger sample
B Bulk sample
B Bulk Shock sample
C Core drilling
D D isturbed sample
E Environmental sample

SAMPLING & IN S11 of LESTING
G as sample
P Piston sample
U, Tube sample (x mm dia.)
W Water sample
Water seep
E Environmental sample

W Water level

LEGEND
PID Photo ionisation detector (ppm)
PL(A) Point load axial test Is(50) (MPa)
PL(D) Point load diametral test Is(50) (MPa)
pp
Pocket penetrometer (kPa)
S standard penetration test
V Shear vane (kPa)



Appendix J

Laboratory Reports



Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
enquiries@envirolabservices.com.au
www.envirolabservices.com.au

CERTIFICATE OF ANALYSIS 116867

Client:

Douglas Partners Pty Ltd 96 Hermitage Rd West Ryde NSW 2114

Attention: Jessica Little

Sample log in details:

Your Reference: 84503.00, Emu Plains Aged Care

No. of samples: 13 Soils

Date samples received / completed instructions received 29/09/2014 / 29/09/2014

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.

Please refer to the last page of this report for any comments relating to the results.

Report Details:

Date results requested by: / Issue Date: 7/10/14 / 7/10/14

Date of Preliminary Report: Not Issued

NATA accreditation number 2901. This document shall not be reproduced except in full.

Accredited for compliance with ISO/IEC 17025. Tests not covered by NATA are denoted with *.

Results Approved By:

Jacinta/Hurst Laboratory Manager

Envirolab Reference: 116867 Revision No: R 00



VOCs in soil			
Our Reference:	UNITS	116867-2	116867-5
Your Reference		BH2	BH5A
Depth Date Sampled		0.5 26/09/2014	0.3 26/09/2014
Type of sample		Soil	Soil
Date extracted	_	30/09/2014	30/09/2014
Date analysed	_	30/09/2014	30/09/2014
Dichlorodifluoromethane	mailea	<1	<1
Chloromethane	mg/kg mg/kg	<1	<1
		<1	<1
Vinyl Chloride	mg/kg		
Bromomethane	mg/kg	<1	<1
Chloroethane	mg/kg 	<1	<1
Trichlorofluoromethane	mg/kg	<1	<1
1,1-Dichloroethene	mg/kg	<1	<1
trans-1,2-dichloroethene	mg/ k g	<1	<1
1,1-dichloroethane	mg/ k g	<1	<1
cis-1,2-dichloroethene	mg/ k g	<1	<1
bromochloromethane	mg/ k g	<1	<1
chloroform	mg/ k g	<1	<1
2,2-dichloropropane	mg/ k g	<1	<1
1,2-dichloroethane	mg/ k g	<1	<1
1,1,1-trichloroethane	mg/ k g	<1	<1
1,1-dichloropropene	mg/ k g	<1	<1
Cyclohexane	mg/ k g	<1	<1
carbon tetrachloride	mg/kg	<1	<1
Benzene	mg/ k g	<0.2	<0.2
dibromomethane	mg/ k g	<1	<1
1,2-dichloropropane	mg/ k g	<1	<1
trichloroethene	mg/kg	<1	<1
bromodichloromethane	mg/kg	<1	<1
trans-1,3-dichloropropene	mg/kg	<1	<1
cis-1,3-dichloropropene	mg/kg	<1	<1
1,1,2-trichloroethane	mg/kg	<1	<1
Toluene	mg/kg	<0.5	<0.5
1,3-dichloropropane	mg/kg	<1	<1
dibromochloromethane	mg/kg	<1	<1
1,2-dibromoethane	mg/kg	<1	<1
tetrachloroethene	mg/kg	· <1	- <1
1,1,1,2-tetrachloroethane	mg/kg	<1	<1
chlorobenzene	mg/kg	<1	<1
Ethylbenzene	mg/kg	<1	<1
bromoform	mg/kg	<1	<1
m+p-xylene	mg/kg	<2	<2
		<1	<1
styrene	mg/kg	<1	<1
1,1,2,2-tetrachloroethane	mg/kg		
o-Xylene	mg/ k g	<1	<1

Envirolab Reference: 116867 Revision No: R 00

VOCs in soil			
Our Reference:	UNITS	116867-2	116867-5
Your Reference		BH2	BH5A
Depth		0.5	0.3
Date Sampled		26/09/2014	26/09/2014
Type of sample		Soil	Soil
1,2,3-trichloropropane	mg/kg	<1	<1
isopropylbenzene	mg/ k g	<1	<1
bromobenzene	mg/ k g	<1	<1
n-propyl benzene	mg/ k g	<1	<1
2-chlorotoluene	mg/ k g	<1	<1
4-chlorotoluene	mg/ k g	<1	<1
1,3,5-trimethyl benzene	mg/ k g	<1	<1
tert-butyl benzene	mg/ k g	<1	<1
1,2,4-trimethyl benzene	mg/ k g	<1	<1
1,3-dichlorobenzene	mg/ k g	<1	<1
sec-butyl benzene	mg/ k g	<1	<1
1,4-dichlorobenzene	mg/ k g	<1	<1
4-isopropyl toluene	mg/ k g	<1	<1
1,2-dichlorobenzene	mg/ k g	<1	<1
n-butyl benzene	mg/ k g	<1	<1
1,2-dibromo-3-chloropropane	mg/ k g	<1	<1
1,2,4-trichlorobenzene	mg/ k g	<1	<1
hexachlorobutadiene	mg/ k g	<1	<1
1,2,3-trichlorobenzene	mg/ k g	<1	<1
Surrogate Dibromofluorometha	%	119	119
Surrogate aaa-Trifluorotoluene	%	116	117
Surrogate Toluene-ds	%	100	101
Surrogate 4-Bromofluorobenzene	%	79	78

Envirolab Reference: 116867 Revision No: R 00 Page 3 of 31

vTRH(C6-C10)/BTEXNin Soil						
Our Reference:	UNITS	116867-1	116867-2	116867-3	116867-4	116867-5
Your Reference		BH1	BH2	внз	BH4	BH5A
Depth		0.2	0.5	0.2	0.1	0.3
Date Sampled		26/09/2014	26/09/2014	26/09/2014	26/09/2014	26/09/2014
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	30/09/2014	30/09/2014	30/09/2014	30/09/2014	30/09/2014
Date analysed	-	30/09/2014	30/09/2014	30/09/2014	30/09/2014	30/09/2014
TRHC 6 - C9	mg/ k g	<25	<25	<25	<25	<25
TRHC6 - C10	mg/kg	<25	<25	<25	<25	<25
vTPHC6 - C10 less BTEX (F1)	mg/ k g	<25	<25	<25	<25	<25
Benzene	mg/ k g	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	mg/ k g	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/ k g	<1	<1	<1	<1	<1
m+p-xylene	mg/ k g	<2	<2	<2	<2	<2
o-Xylene	mg/ k g	<1	<1	<1	<1	<1
naphthalene	mg/ k g	<1	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	110	116	111	114	117

vTRH(C6-C10)/BTEXN in Soil						
Our Reference:	UNITS	116867-6	116867-7	116867-8	116867-9	116867-10
Your Reference		BH5B	BH6	BH7	BH8	TS
Depth		0.5	0.3	0.2	0.5	-
Date Sampled		26/09/2014	26/09/2014	26/09/2014	26/09/2014	26/09/2014
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	30/09/2014	30/09/2014	30/09/2014	30/09/2014	30/09/2014
Date analysed	-	30/09/2014	30/09/2014	30/09/2014	30/09/2014	30/09/2014
TRHC6-C9	mg/ k g	<25	<25	<25	<25	[NA]
TRHC 6 - C10	mg/ k g	<25	<25	<25	<25	[NA]
vTPHC6 - C10 less BTEX (F1)	mg/ k g	<25	<25	<25	<25	[NA]
Benzene	mg/ k g	<0.2	<0.2	<0.2	<0.2	118%
Toluene	mg/ k g	<0.5	<0.5	<0.5	<0.5	118%
Ethylbenzene	mg/ k g	<1	<1	<1	<1	118%
m+p-xylene	mg/ k g	<2	<2	<2	<2	118%
o-Xylene	mg/ k g	<1	<1	<1	<1	118%
naphthalene	mg/ k g	<1	<1	<1	<1	[NA]
Surrogate aaa-Trifluorotoluene	%	114	111	117	108	116

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vTRH(C6-C10)/BTEXN in Soil		
Our Reference:	UNITS	116867-11
Your Reference		ТВ
Depth		-
Date Sampled		26/09/2014
Type of sample		Soil
Date extracted	-	30/09/2014
Date analysed	-	30/09/2014
Benzene	mg/ k g	<0.2
Toluene	mg/ k g	<0.5
Ethylbenzene	mg/ k g	<1
m+p-xylene	mg/ k g	<2
o-Xylene	mg/ k g	<1
Surrogate aaa-Trifluorotoluene	%	119

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svTRH(C10-C40) in Soil						
Our Reference:	UNITS	116867-1	116867-2	116867-3	116867-4	116867-5
Your Reference		BH1	BH2	внз	BH4	BH5A
Depth		0.2	0.5	0.2	0.1	0.3
Date Sampled		26/09/2014	26/09/2014	26/09/2014	26/09/2014	26/09/2014
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	30/09/2014	30/09/2014	30/09/2014	30/09/2014	30/09/2014
Date analysed	-	30/09/2014	30/09/2014	30/09/2014	30/09/2014	30/09/2014
TRHC 10 - C14	mg/ k g	<50	<50	<50	<50	<50
TRHC 15 - C28	mg/ k g	<100	<100	<100	<100	<100
TRHC 29 - C36	mg/ k g	<100	<100	350	<100	<100
TRH>C10-C16	mg/ k g	<50	<50	<50	<50	<50
TRH > C10 - C16 less Naphthalene (F2)	mg/kg	<50	<50	<50	<50	<50
TRH>C16-C34	mg/ k g	<100	<100	290	<100	<100
TRH>C34-C40	mg/ k g	<100	<100	140	<100	<100
Surrogate o-Terphenyl	%	79	82	85	83	88

svTRH (C10-C40) in Soil					
Our Reference:	UNITS	116867-6	116867-7	116867-8	116867-9
Your Reference		вн5в	BH6	ВН7	BH8
Depth		0.5	0.3	0.2	0.5
Date Sampled		26/09/2014	26/09/2014	26/09/2014	26/09/2014
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	30/09/2014	30/09/2014	30/09/2014	30/09/2014
Date analysed	-	30/09/2014	30/09/2014	30/09/2014	30/09/2014
TRHC 10 - C14	mg/ k g	<50	<50	<50	<50
TRHC 15 - C28	mg/ k g	<100	<100	<100	<100
TRHC 29 - C36	mg/ k g	<100	<100	<100	<100
TRH>C10-C16	mg/ k g	<50	<50	<50	<50
TRH>C10 - C16 less Naphthalene (F2)	mg/ k g	<50	<50	<50	<50
TRH>C16-C34	mg/ k g	<100	<100	<100	<100
TRH>C34-C40	mg/ k g	<100	<100	<100	<100
Surrogate o-Terphenyl	%	86	84	87	81

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PAHs in Soil	UNITS	116867-1	446067.0	146067.0	110007.4	446067 E
Our Reference: Your Reference	UNITS	BH1	116867-2 BH2	116867-3 BH3	116867-4 BH4	116867-5 BH5A
Depth		0.2	0.5	0.2	0.1	0.3
Date Sampled		26/09/2014	26/09/2014	26/09/2014	26/09/2014	26/09/2014
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	30/09/2014	30/09/2014	30/09/2014	30/09/2014	30/09/2014
Date analysed	-	30/09/2014	30/09/2014	30/09/2014	30/09/2014	30/09/2014
Naphthalene	mg/kg	<0.1	0.2	<0.1	<0.1	<0.1
Acenaphthylene	mg/ k g	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<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
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyreneTEQNEPMB1	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Total Positive PAHs	mg/ k g	NIL(+)VE	0.18	NIL(+)VE	NIL(+)VE	NIL(+)VE
Surrogate p-Terphenyl-d14	%	98	97	102	106	101

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PAHs in Soil					
Our Reference:	UNITS	116867-6	116867-7	116867-8	116867-9
Your Reference		BH5B	BH6	вн7	вн8
Depth		0.5	0.3	0.2	0.5
Date Sampled		26/09/2014	26/09/2014	26/09/2014	26/09/2014
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	30/09/2014	30/09/2014	30/09/2014	30/09/2014
Date analysed	-	30/09/2014	30/09/2014	30/09/2014	30/09/2014
Naphthalene	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/ k g	<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/ k g	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/ k g	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/ k g	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/ k g	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/ k g	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyreneTEQNEPMB1	mg/ k g	<0.5	<0.5	<0.5	<0.5
Total Positive PAHs	mg/ k g	NIL(+)VE	NIL(+)VE	NIL(+)VE	NIL(+)VE
Surrogate p-Terphenyl-d14	%	102	100	99	101

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Organochlorine Pesticides in soil						
Our Reference: Your Reference Depth Date Sampled	UNITS	116867-1 BH1 0.2 26/09/2014	116867-2 BH2 0.5 26/09/2014	116867-3 BH3 0.2 26/09/2014	116867-4 BH4 0.1 26/09/2014	116867-5 BH5A 0.3 26/09/2014
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	30/09/2014	30/09/2014	30/09/2014	30/09/2014	30/09/2014
Date analysed	-	30/09/2014	30/09/2014	30/09/2014	30/09/2014	30/09/2014
нсв	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-BHC	mg/ k g	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/ k g	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/ k g	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/ k g	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/ k g	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/ k g	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/ k g	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/ k g	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/ k g	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/ k g	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/ k g	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/ k g	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/ k g	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/ k g	<0.1	<0.1	<0.1	<0.1	<0.1
EndosulfanII	mg/ k g	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/ k g	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/ k g	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/ k g	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/ k g	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	100	102	99	108	100

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Organochlorine Pesticides in soil					
Our Reference:	UNITS	116867-6	116867-7	116867-8	116867-9
Your Reference		BH5B	вн6	вн7	вн8
Depth		0.5	0.3	0.2	0.5
Date Sampled		26/09/2014	26/09/2014	26/09/2014	26/09/2014
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	30/09/2014	30/09/2014	30/09/2014	30/09/2014
Date analysed	-	30/09/2014	30/09/2014	30/09/2014	30/09/2014
НСВ	mg/ k g	<0.1	<0.1	<0.1	<0.1
alpha-BHC	mg/ k g	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/ k g	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/ k g	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/ k g	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/ k g	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/ k g	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/ k g	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/ k g	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/ k g	<0.1	<0.1	<0.1	<0.1
Endosulfan l	mg/ k g	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/ k g	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/ k g	<0.1	<0.1	<0.1	<0.1
Endrin	mg/ k g	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/ k g	<0.1	<0.1	<0.1	<0.1
EndosulfanII	mg/ k g	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/ k g	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/ k g	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/ k g	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/ k g	<0.1	<0.1	<0.1	<0.1
Surrogate TCMX	%	108	109	104	97

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PCBs in Soil						
Our Reference:	UNITS	116867-1	116867-2	116867-3	116867-4	116867-5
Your Reference		BH1	BH2	внз	BH4	BH5A
Depth		0.2	0.5	0.2	0.1	0.3
Date Sampled		26/09/2014	26/09/2014	26/09/2014	26/09/2014	26/09/2014
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	30/09/2014	30/09/2014	30/09/2014	30/09/2014	30/09/2014
Date analysed	-	30/09/2014	30/09/2014	30/09/2014	30/09/2014	30/09/2014
Arochlor 1016	mg/ k g	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1221	mg/ k g	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1232	mg/ k g	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1242	mg/ k g	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1248	mg/ k g	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1254	mg/ k g	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1260	mg/ k g	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	100	102	99	108	100

PCBs in Soil					
Our Reference:	UNITS	116867-6	116867-7	116867-8	116867-9
Your Reference		BH5B	BH6	ВН7	BH8
Depth		0.5	0.3	0.2	0.5
Date Sampled		26/09/2014	26/09/2014	26/09/2014	26/09/2014
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	30/09/2014	30/09/2014	30/09/2014	30/09/2014
Date analysed	-	30/09/2014	30/09/2014	30/09/2014	30/09/2014
Arochlor 1016	mg/ k g	<0.1	<0.1	<0.1	<0.1
Arochlor 1221	mg/ k g	<0.1	<0.1	<0.1	<0.1
Arochlor 1232	mg/ k g	<0.1	<0.1	<0.1	<0.1
Arochlor 1242	mg/ k g	<0.1	<0.1	<0.1	<0.1
Arochlor 1248	mg/ k g	<0.1	<0.1	<0.1	<0.1
Arochlor 1254	mg/ k g	<0.1	<0.1	<0.1	<0.1
Arochlor 1260	mg/ k g	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	108	109	104	97

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Total Phenolics in Soil						
Our Reference:	UNITS	116867-1	116867-2	116867-3	116867-4	116867-5
Your Reference		BH1	BH2	внз	BH4	BH5A
Depth		0.2	0.5	0.2	0.1	0.3
Date Sampled		26/09/2014	26/09/2014	26/09/2014	26/09/2014	26/09/2014
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	07/10/2014	07/10/2014	07/10/2014	07/10/2014	07/10/2014
Date analysed	-	07/10/2014	07/10/2014	07/10/2014	07/10/2014	07/10/2014
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	<5
			<u> </u>			
Total Phenolics in Soil]
Our Reference:	UNITS	116867-6	116867-7	116867-8	116867-9	
Your Reference		BH5B	BH6	BH7	вн8	
Depth		0.5	0.3	0.2	0.5	
Date Sampled		26/09/2014	26/09/2014	26/09/2014	26/09/2014	
Type of sample		Soil	Soil	Soil	Soil	
Date extracted	-	07/10/2014	07/10/2014	07/10/2014	07/10/2014	1
Date analysed	-	07/10/2014	07/10/2014	07/10/2014	07/10/2014	
Total Phenolics (as Phenol)	mg/kg	<5	<5	<5	<5	

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Acid Extractable metals in soil						
Our Reference:	UNITS	116867-1	116867-2	116867-3	116867-4	116867-5
Your Reference		BH1	BH2	внз	BH4	BH5A
Depth		0.2	0.5	0.2	0.1	0.3
Date Sampled		26/09/2014	26/09/2014	26/09/2014	26/09/2014	26/09/2014
Type of sample		Soil	Soil	Soil	Soil	Soil
Date digested	-	30/09/2014	30/09/2014	30/09/2014	30/09/2014	30/09/2014
Date analysed	-	30/09/2014	30/09/2014	30/09/2014	30/09/2014	30/09/2014
Arsenic	mg/kg	<4	4	<4	9	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	mg/ k g	24	14	8	17	11
Copper	mg/ k g	12	29	8	19	36
Lead	mg/ k g	13	9	22	20	13
Mercury	mg/ k g	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/ k g	21	21	5	5	6
Zinc	mg/ k g	32	56	43	29	31

Acid Extractable metals in soil					
Our Reference:	UNITS	116867-6	116867-7	116867-8	116867-9
Your Reference		вн5в	BH6	ВН7	BH8
Depth		0.5	0.3	0.2	0.5
Date Sampled		26/09/2014	26/09/2014	26/09/2014	26/09/2014
Type of sample		Soil	Soil	Soil	Soil
Date digested	-	30/09/2014	30/09/2014	30/09/2014	30/09/2014
Date analysed	-	30/09/2014	30/09/2014	30/09/2014	30/09/2014
Arsenic	mg/ k g	4	<4	<4	<4
Cadmium	mg/ k g	<0.4	<0.4	<0.4	<0.4
Chromium	mg/ k g	11	11	10	13
Copper	mg/ k g	33	7	8	9
Lead	mg/ k g	15	9	26	21
Mercury	mg/ k g	<0.1	<0.1	<0.1	<0.1
Nickel	mg/ k g	14	6	5	6
Zinc	mg/ k g	66	30	29	23

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CEC				
Our Reference:	UNITS	116867-1	116867-2	116867-6
Your Reference		BH1	BH2	вн5в
Depth		0.2	0.5	0.5
Date Sampled		26/09/2014	26/09/2014	26/09/2014
Type of sample		Soil	Soil	Soil
Date extracted	-	30/09/2014	30/09/2014	30/09/2014
Date analysed	-	30/09/2014	30/09/2014	30/09/2014
Exchangeable Ca	meq/100g	7.2	7.7	6.7
Exchangeable K	meq/100g	0.2	0.6	0.5
ExchangeableMg	meq/100g	1.2	5.8	6.9
Exchangeable Na	meq/100g	0.99	2.0	0.53
Cation Exchange Capacity	meq/100g	9.5	16	15

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Miscellaneous Inorg - soil						
Our Reference:	UNITS	116867-1	116867-2	116867-6	116867-12	116867-13
Your Reference		BH1	BH2	вн5в	BH2	BH1
Depth		0.2	0.5	0.5	1.0	2.5
Date Sampled		26/09/2014	26/09/2014	26/09/2014	26/09/2014	26/09/2014
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	30/09/2014	30/09/2014	30/09/2014	30/09/2014	30/09/2014
Date analysed	-	30/09/2014	30/09/2014	30/09/2014	30/09/2014	30/09/2014
pH 1:5 soil:water	pH Units	9.6	9.5	7.6	6.9	6.9
Electrical Conductivity 1:5 soil:water	μS/cm	[NA]	[NA]	[NA]	76	28
Chloride, Cl 1:5 soil:water	mg/ k g	[NA]	[NA]	[NA]	<10	10
Sulphate, SO4 1:5 soil:water	mg/ k g	[NA]	[NA]	[NA]	80	10

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		1			1	1
Moisture						
Our Reference:	UNITS	116867-1	116867-2	116867-3	116867-4	116867-5
Your Reference		BH1	BH2	внз	BH4	BH5A
Depth		0.2	0.5	0.2	0.1	0.3
Date Sampled		26/09/2014	26/09/2014	26/09/2014	26/09/2014	26/09/2014
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	30/09/2014	30/09/2014	30/09/2014	30/09/2014	30/09/2014
Date analysed	-	01/10/2014	01/10/2014	01/10/2014	01/10/2014	01/10/2014
Moisture	%	4.5	6.3	14	8.1	5.6
	•	•	•		•	•
		1	1	Γ	T	1
Moisture						
Moisture Our Reference:	UNITS	116867-6	116867-7	116867-8	116867-9	116867-11
	UNITS	116867-6 BH5B	116867-7 BH6	116867-8 BH7	116867-9 BH8	116867-11 TB
Our Reference:	UNITS	1	1		1	1
Our Reference: Your Reference	UNITS	BH5B	BH6	вн7	BH8	1
Our Reference: Your Reference Depth	UNITS 	BH5B 0.5	BH6 0.3	BH7 0.2	BH8 0.5	ТВ -
Our Reference: Your Reference Depth Date Sampled	UNITS 	BH5B 0.5 26/09/2014	BH6 0.3 26/09/2014	BH7 0.2 26/09/2014	BH8 0.5 26/09/2014	TB - 26/09/2014
Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS 	BH5B 0.5 26/09/2014 Soil	BH6 0.3 26/09/2014 Soil	BH7 0.2 26/09/2014 Soil	BH8 0.5 26/09/2014 Soil	TB - 26/09/2014 Soil

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Client Reference: 84503.00, Emu Plains Aged Care							
Asbestos ID - soils							
Our Reference:	UNITS	116867-1	116867-2	116867-3	116867-4	116867-5	
Your Reference		BH1	BH2	ВН3	BH4	BH5A	
Depth		0.2	0.5	0.2	0.1	0.3	
Date Sampled		26/09/2014	26/09/2014	26/09/2014	26/09/2014	26/09/2014	
Type of sample		Soil	Soil	Soil	Soil	Soil	
Date analysed	-	7/10/2014	7/10/2014	7/10/2014	7/10/2014	7/10/2014	
Sample mass tested	g	Approx 40g	Approx 40g	Approx 40g	Approx 40g	Approx 40	
Sample Description	-	Brown	Grey coarse-	Brown	Brown	Orange	
		coarse-	grained soil &	coarse-	coarse-	coarse-	
		grained soil &	rocks	grained	grained soil &	grained soil	
		rocks		sandy soil	rocks	rocks	
Asbestos ID in soil	-	No asbestos	No asbestos	No asbestos	No asbestos	No asbesto	
		detected at reporting limit	reporting lir				
		of 0.1g/kg	of 0.1g/kg	of 0.1g/kg	of 0.1g/kg	of 0.1g/k	
Trace Analysis	_	No asbestos	No asbestos	No asbestos	No asbestos	No asbest	
,		detected	detected	detected	detected	detected	
			•	•		·	
Asbestos ID - soils							
Our Reference:	UNITS	116867-6	116867-7	116867-8	116867-9		
Your Reference		BH5B	BH6	BH7	BH8		
Depth		0.5	0.3	0.2	0.5		
Date Sampled		26/09/2014	26/09/2014	26/09/2014	26/09/2014		
Type of sample		Soil	Soil	Soil	Soil		
Date analysed	-	7/10/2014	7/10/2014	7/10/2014	7/10/2014		
Sample mass tested	g	Approx 40g	Approx 40g	Approx 40g	Approx 40g		
Sample Description	-	Brown clayey	Brown	Brown	Brown		
		soil & rocks	coarse-	coarse-	coarse-		
			grained soil & rocks	grained soil & rocks	grained soil & rocks		
A - 4 1D 11		NIb4					
Asbestos ID in soil	-	No asbestos detected at	No asbestos detected at	No asbestos detected at	No asbestos detected at		
		reporting limit	reporting limit	reporting limit	reporting limit		
		of 0.1g/kg	of 0.1g/kg	of 0.1g/kg	of 0.1g/kg		
Trace Analysis	_	No asbestos	No asbestos	No asbestos	No asbestos		
,	1	1	1	1	1	1	

detected

detected

detected

detected

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MethodID	Methodology Summary
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-003	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. 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-012 subset	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.
Org-005	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.
Org-006	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.
Inorg-031	Total Phenolics by segmented flow analyser (in line distillation with colourimetric finish). Solids are extracted in a caustic media prior to analysis.
Metals-020ICP- AES	Determination of various metals by ICP-AES.
Metals-021 CV- AAS	Determination of Mercury by Cold Vapour AAS.
Metals-009	Determination of exchangeable cations and cation exchange capacity in soil based on Rayment and Lyons 2011.
Inorg-001	pH - Measured using pH meter and electrode in accordance with APHA latest edition, 4500-H+. Please note that the results for water analyses are indicative only, as analysis outside of the APHA storage times.
Inorg-002	Conductivity and Salinity - measured using a conductivity cell at 25oC in accordance with APHA latest edition 2510 and Rayment & Lyons.
Inorg-081	Anions - a range of Anions are determined by Ion Chromatography, in accordance with APHA latest edition, 4110-B.
Inorg-008	Moisture content determined by heating at 105+/-5 deg C for a minimum of 12 hours.
ASB-001	Asbestos ID - Qualitative identification of asbestos in bulk samples using Polarised Light Microscopy and Dispersion Staining Techniques including Synthetic Mineral Fibre and Organic Fibre as per Australian Standard 4964-2004.

Envirolab Reference: 116867 Revision No: R 00

QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate	Duplicate results	SpikeSm#	Spike %
					Sm#			Recovery
VOCs in soil						Base II Duplicate II %RPD		
Date extracted	-			30/09/2 014	116867-2	30/09/2014 30/09/2014	LCS-2	30/09/2014
Date analysed	-			30/09/2 014	116867-2	30/09/2014 30/09/2014	LCS-2	30/09/2014
Dichlorodifluoromethane	mg/kg	1	Org-014	<1	116867-2	<1 <1	[NR]	[NR]
Chloromethane	mg/ k g	1	Org-014	<1	116867-2	<1 <1	[NR]	[NR]
Vinyl Chloride	mg/kg	1	Org-014	<1	116867-2	<1 <1	[NR]	[NR]
Bromomethane	mg/kg	1	Org-014	<1	116867-2	<1 <1	[NR]	[NR]
Chloroethane	mg/kg	1	Org-014	<1	116867-2	<1 <1	[NR]	[NR]
Trichlorofluoromethane	mg/kg	1	Org-014	<1	116867-2	<1 <1	[NR]	[NR]
1,1-Dichloroethene	mg/kg	1	Org-014	<1	116867-2	<1 <1	[NR]	[NR]
trans-1,2-dichloroethene	mg/kg	1	Org-014	<1	116867-2	<1 <1	[NR]	[NR]
1,1-dichloroethane	mg/kg	1	Org-014	<1	116867-2	<1 <1	LCS-2	111%
cis-1,2-dichloroethene	mg/kg	1	Org-014	<1	116867-2	<1 <1	[NR]	[NR]
bromochloromethane	mg/kg	1	Org-014	<1	116867-2	<1 <1	[NR]	[NR]
chloroform	mg/kg	1	Org-014	<1	116867-2	<1 <1	LCS-2	132%
2,2-dichloropropane	mg/kg	1	Org-014	<1	116867-2	<1 <1	[NR]	[NR]
1,2-dichloroethane	mg/kg	1	Org-014	<1	116867-2	<1 <1	LCS-2	118%
1,1,1-trichloroethane	mg/kg	1	Org-014	<1	116867-2	<1 <1	LCS-2	122%
1,1-dichloropropene	mg/kg	1	Org-014	<1	116867-2	~1 <1	[NR]	[NR]
Cyclohexane	mg/kg	1	Org-014	<1	116867-2	" <1 <1	[NR]	[NR]
carbon tetrachloride	mg/kg	1	Org-014	<1	116867-2	" <1 <1	[NR]	[NR]
Benzene	mg/kg	0.2	Org-014	<0.2	116867-2	<0.2 <0.2	[NR]	[NR]
dibromomethane	mg/kg	1	Org-014	<1	116867-2	<1 <1	[NR]	[NR]
1,2-dichloropropane	mg/kg	1	Org-014	<1	116867-2	<1 <1	[NR]	[NR]
trichloroethene	mg/kg	1	Org-014	<1	116867-2	<1 <1	LCS-2	109%
bromodichloromethane	mg/kg	1	Org-014	<1	116867-2	<1 <1	LCS-2	133%
trans-1,3- dichloropropene	mg/kg	1	Org-014	<1	116867-2	<1 <1	[NR]	[NR]
cis-1,3-dichloropropene	mg/kg	1	Org-014	<1	116867-2	<1 <1	[NR]	[NR]
1,1,2-trichloroethane	mg/kg	1	Org-014	<1	116867-2	<1 <1	[NR]	[NR]
Toluene	mg/kg	0.5	Org-014	<0.5	116867-2	<0.5 0.6	[NR]	[NR]
1,3-dichloropropane	mg/kg	1	Org-014	<1	116867-2	<1 <1	[NR]	[NR]
dibromochloromethane	mg/kg	1	Org-014	<1	116867-2	<1 <1	LCS-2	129%
1,2-dibromoethane	mg/kg	1	Org-014	<1	116867-2	<1 <1	[NR]	[NR]
tetrachloroethene	mg/kg	1	Org-014	<1	116867-2	<1 <1	LCS-2	129%
1,1,1,2- tetrachloroethane	mg/kg	1	Org-014	<1	116867-2	<1 <1	[NR]	[NR]
chlorobenzene	mg/kg	1	Org-014	<1	116867-2	<1 <1	[NR]	[NR]
Ethylbenzene	mg/kg	1	Org-014	<1	116867-2	" <1 <1	[NR]	[NR]
bromoform	mg/kg	1	Org-014	<1	116867-2	<1 <1	[NR]	[NR]
m+p-xylene	mg/kg	2	Org-014	<2	116867-2	<2 <2	[NR]	[NR]
styrene	mg/kg	1	Org-014	<1	116867-2	<1 <1	[NR]	[NR]
1,1,2,2- tetrachloroethane	mg/kg	1	Org-014	<1	116867-2	<1 <1	[NR]	[NR]
o-Xylene	mg/kg	1	Org-014	<1	116867-2	<1 <1	[NR]	[NR]
1,2,3-trichloropropane	mg/kg	1	Org-014	<1	116867-2	 	[NR]	[NR]

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84503.00, Emu Plains Aged Care **Client Reference:** PQL METHOD QUALITYCONTROL UNITS Blank Duplicate **Duplicate results** SpikeSm# Spike % Sm# Recovery VOCs in soil Base II Duplicate II %RPD [NR] isopropylbenzene Org-014 <1 116867-2 <1||<1 [NR] mg/kg 1 Org-014 <1 116867-2 [NR] [NR] bromobenzene mg/kg <1||<1 n-propyl benzene 1 Org-014 <1 116867-2 [NR] [NR] mg/kg <1||<1 Org-014 116867-2 2-chlorotoluene mg/kg 1 <1 <1||<1 [NR] [NR] 116867-2 4-chlorotoluene 1 Org-014 <1||<1 [NR] [NR] mg/kg <1 1 Org-014 1,3,5-trimethylbenzene mg/kg <1 116867-2 <1||<1 [NR] [NR] Org-014 116867-2 tert-butyl benzene mg/kg 1 <1 <1||<1 [NR] [NR] 116867-2 1,2,4-trimethylbenzene 1 Org-014 [NR] [NR] mg/kg <1 <1||<1 1 Org-014 1,3-dichlorobenzene mg/kg <1 116867-2 <1||<1 [NR] [NR] Org-014 116867-2 sec-butyl benzene mg/kg 1 <1 <1||<1 [NR] [NR] 116867-2 1,4-dichlorobenzene 1 Org-014 <1 [NR] [NR] mg/kg <1||<1 Org-014 4-isopropyl toluene mg/kg 1 <1 116867-2 <1||<1 [NR] [NR] 1,2-dichlorobenzene mg/kg 1 Org-014 <1 116867-2 <1||<1 [NR] [NR] 116867-2 n-butyl benzene 1 Org-014 <1 [NR] [NR] mg/kg <1||<1 Org-014 116867-2 1,2-dibromo-3mg/kg 1 <1 <1||<1 [NR] [NR] chloropropane 1,2,4-trichlorobenzene 1 Org-014 <1 116867-2 <1||<1 [NR] [NR] mg/kg Org-014 116867-2 hexachlorobutadiene 1 <1 <1||<1 [NR] [NR] mg/kg 1,2,3-trichlorobenzene mg/kg Org-014 <1 116867-2 <1||<1 [NR] [NR] Org-014 107% % 116 116867-2 119||113||RPD:5 LCS-2 Surrogate Dibromofluorometha 105% % Org-014 105 116867-2 116||113||RPD:3 LCS-2 Surrogate aaa-Trifluorotoluene

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%

%

Surrogate Toluene-da

Surrogate 4-Bromofluorobenzene Org-014

Org-014

100

72

116867-2

116867-2

100 || 97 || RPD: 3

79 || 76 || RPD: 4

LCS-2

LCS-2

97%

92%

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			nt Referenc	e: 84	1503.00, Emu	Plains Aged Care		
QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate	Duplicate results	SpikeSm#	Spike %
vTRH(C6-C10)/BTEXNin Soil					Sm#	Base II Duplicate II %RPD		Recovery
Date extracted	-			30/09/2 014	116867-2	30/09/2014 30/09/2014	LCS-2	30/09/2014
Date analysed	-			30/09/2 014	116867-2	30/09/2014 30/09/2014	LCS-2	30/09/2014
TRHC6-C9	mg/kg	25	Org-016	<25	116867-2	<25 <25	LCS-2	124%
TRHC6 - C10	mg/kg	25	Org-016	<25	116867-2	<25 <25	LCS-2	124%
Benzene	mg/kg	0.2	Org-016	<0.2	116867-2	<0.2 <0.2	LCS-2	116%
Toluene	mg/kg	0.5	Org-016	<0.5	116867-2	<0.5 0.6	LCS-2	122%
Ethylbenzene	mg/kg	1	Org-016	<1	116867-2	<1 <1	LCS-2	123%
m+p-xylene	mg/kg	2	Org-016	<2	116867-2	<2 <2	LCS-2	130%
o-Xylene	mg/kg	1	Org-016	<1	116867-2	<1 <1	LCS-2	125%
naphthalene	mg/kg	1	Org-014	<1	116867-2	<1 <1	[NR]	[NR]
Surrogate aaa- Trifluorotoluene	%		Org-016	105	116867-2	116 113 RPD:3	LCS-2	105%
QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate	Duplicate results	SpikeSm#	Spike %
					Sm#			Recovery
svTRH(C10-C40) in Soil						Base II Duplicate II %RPD		
Date extracted	-			30/09/2 014	116867-2	30/09/2014 30/09/2014	LCS-2	30/09/2014
Date analysed	-			30/09/2 014	116867-2	30/09/2014 30/09/2014	LCS-2	30/09/2014
TRHC 10 - C14	mg/ k g	50	Org-003	<50	116867-2	<50 <50	LCS-2	102%
TRHC 15 - C28	mg/kg	100	Org-003	<100	116867-2	<100 <100	LCS-2	97%
TRHC 29 - C36	mg/kg	100	Org-003	<100	116867-2	<100 <100	LCS-2	100%
TRH>C10-C16	mg/kg	50	Org-003	<50	116867-2	<50 <50	LCS-2	102%
TRH>C16-C34	mg/kg	100	Org-003	<100	116867-2	<100 <100	LCS-2	97%
TRH>C34-C40	mg/ k g	100	Org-003	<100	116867-2	<100 <100	LCS-2	100%
Surrogate o-Terphenyl	%		Org-003	83	116867-2	82 81 RPD: 1	LCS-2	95%
QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate	Duplicate results	SpikeSm#	Spike %
PAHs in Soil					Sm#	Base II Duplicate II %RPD		Recovery
Date extracted	-			30/09/2 014	116867-2	30/09/2014 30/09/2014	LCS-2	30/09/2014
Date analysed	-			30/09/2 014	116867-2	30/09/2014 30/09/2014	LCS-2	30/09/2014
Naphthalene	mg/kg	0.1	Org-012 subset	<0.1	116867-2	0.2 0.2 RPD:0	LCS-2	92%
Acenaphthylene	mg/kg	0.1	Org-012 subset	<0.1	116867-2	<0.1 <0.1	[NR]	[NR]
Acenaphthene	mg/kg	0.1	Org-012 subset	<0.1	116867-2	<0.1 <0.1	[NR]	[NR]
Fluorene	mg/kg	0.1	Org-012 subset	<0.1	116867-2	<0.1 <0.1	LCS-2	96%
Phenanthrene	mg/kg	0.1	Org-012 subset	<0.1	116867-2	<0.1 <0.1	LCS-2	102%
Anthracene	mg/kg	0.1	Org-012 subset	<0.1	116867-2	<0.1 <0.1	[NR]	[NR]
Fluoranthene	mg/kg	0.1	Org-012 subset	<0.1	116867-2	<0.1 <0.1	LCS-2	99%

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		Clie	ent Referenc	e: 84	1503.00 , Emu	ı Plains Aged Care		
QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	SpikeSm#	Spike % Recovery
PAHs in Soil					J.11.11	Base II Duplicate II %RPD		110001011
Pyrene	mg/kg	0.1	Org-012 subset	<0.1	116867-2	<0.1 <0.1	LCS-2	100%
Benzo(a)anthracene	mg/kg	0.1	Org-012 subset	<0.1	116867-2	<0.1 <0.1	[NR]	[NR]
Chrysene	mg/kg	0.1	Org-012 subset	<0.1	116867-2	<0.1 <0.1	LCS-2	89%
Benzo(b,j+k) fluoranthene	mg/kg	0.2	Org-012 subset	<0.2	116867-2	<0.2 <0.2	[NR]	[NR]
Benzo(a)pyrene	mg/kg	0.05	Org-012 subset	<0.05	116867-2	<0.05 <0.05	LCS-2	109%
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012 subset	<0.1	116867-2	<0.1 <0.1	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/ k g	0.1	Org-012 subset	<0.1	116867-2	<0.1 <0.1	[NR]	[NR]
Benzo(g,h,i)perylene	mg/ k g	0.1	Org-012 subset	<0.1	116867-2	<0.1 <0.1	[NR]	[NR]
Surrogate p-Terphenyl- d14	%		Org-012 subset	95	116867-2	97 97 RPD:0	LCS-2	104%
QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate	Duplicate results	SpikeSm#	Spike %
Organochlorine Pesticides in soil					Sm#	Base II Duplicate II %RPD		Recovery
Date extracted	-			30/09/2 014	116867-2	30/09/2014 30/09/2014	LCS-2	30/09/2014
Date analysed	-			30/09/2 014	116867-2	30/09/2014 30/09/2014	LCS-2	30/09/2014
НСВ	mg/kg	0.1	Org-005	<0.1	116867-2	<0.1 <0.1	[NR]	[NR]
alpha-BHC	mg/kg	0.1	Org-005	<0.1	116867-2	<0.1 <0.1	LCS-2	91%
gamma-BHC	mg/kg	0.1	Org-005	<0.1	116867-2	<0.1 <0.1	[NR]	[NR]
beta-BHC	mg/kg	0.1	Org-005	<0.1	116867-2	<0.1 <0.1	LCS-2	92%
Heptachlor	mg/kg	0.1	Org-005	<0.1	116867-2	<0.1 <0.1	LCS-2	95%
delta-BHC	mg/kg	0.1	Org-005	<0.1	116867-2	<0.1 <0.1	[NR]	[NR]
Aldrin	mg/kg	0.1	Org-005	<0.1	116867-2	<0.1 <0.1	LCS-2	100%
Heptachlor Epoxide	mg/kg	0.1	Org-005	<0.1	116867-2	<0.1 <0.1	LCS-2	101%
gamma-Chlordane	mg/kg	0.1	Org-005	<0.1	116867-2	<0.1 <0.1	[NR]	[NR]
alpha-chlordane	mg/kg	0.1	Org-005	<0.1	116867-2	<0.1 <0.1	[NR]	[NR]
Endosulfan I	mg/kg	0.1	Org-005	<0.1	116867-2	<0.1 <0.1	[NR]	[NR]
pp-DDE	mg/kg	0.1	Org-005	<0.1	116867-2	<0.1 <0.1	LCS-2	88%
Dieldrin	mg/kg	0.1	Org-005	<0.1	116867-2	<0.1 <0.1	LCS-2	99%
Endrin	mg/kg	0.1	Org-005	<0.1	116867-2	<0.1 <0.1	LCS-2	95%
pp-DDD	mg/kg	0.1	Org-005	<0.1	116867-2	<0.1 <0.1	LCS-2	96%
Endosulfan II	mg/kg	0.1	Org-005	<0.1	116867-2	<0.1 <0.1	[NR]	[NR]
pp-DDT	mg/kg	0.1	Org-005	<0.1	116867-2	<0.1 <0.1	[NR]	[NR]
Endrin Aldehyde	mg/kg	0.1	Org-005	<0.1	116867-2	<0.1 <0.1	[NR]	[NR]
Endosulfan Sulphate	mg/kg	0.1	Org-005	<0.1	116867-2	<0.1 <0.1	LCS-2	94%
Methoxychlor	mg/kg	0.1	Org-005	<0.1	116867-2	<0.1 <0.1	[NR]	[NR]
Surrogate TCMX	%		Org-005	105	116867-2	102 99 RPD: 3	LCS-2	98%

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		Clie	ent Referenc	e: 84	1503.00, Emu	ı Plains Aged Care		
QUALITYCONTROL PCBs in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results Base II Duplicate II %RPD	SpikeSm#	Spike % Recovery
Date extracted	-			30/09/2	116867-2	30/09/2014 30/09/2014	LCS-2	30/09/2014
Date analysed	-			014 30/09/2 014	116867-2	30/09/2014 30/09/2014	LCS-2	30/09/2014
Arochlor 1016	mg/kg	0.1	Org-006	<0.1	116867-2	<0.1 <0.1	[NR]	[NR]
Arochlor 1221	mg/kg	0.1	Org-006	<0.1	116867-2	<0.1 <0.1	[NR]	[NR]
Arochlor 1232	mg/kg	0.1	Org-006	<0.1	116867-2	<0.1 <0.1	[NR]	[NR]
Arochlor 1242	mg/kg	0.1	Org-006	<0.1	116867-2	<0.1 <0.1	[NR]	[NR]
Arochlor 1248	mg/kg	0.1	Org-006	<0.1	116867-2	<0.1 <0.1	[NR]	[NR]
Arochlor 1254	mg/kg	0.1	Org-006	<0.1	116867-2	<0.1 <0.1	LCS-2	117%
Arochlor 1260	mg/kg	0.1	Org-006	<0.1	116867-2	<0.1 <0.1	[NR]	[NR]
Surrogate TCLMX	%		Org-006	105	116867-2	102 99 RPD:3	LCS-2	100%
QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate	Duplicate results	SpikeSm#	Spike %
					Sm#	'	'	Recovery
Total Phenolics in Soil						Base II Duplicate II %RPD		
Date extracted	-			07/10/2 014	116867-1	07/10/2014 07/10/2014	LCS-1	07/10/2014
Date analysed	-			07/10/2 014	116867-1	07/10/2014 07/10/2014	LCS-1	07/10/2014
Total Phenolics (as Phenol)	mg/kg	5	Inorg-031	<5	116867-1	<5 <5	LCS-1	97%
QUALITYCONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	SpikeSm#	Spike % Recovery
Acid Extractable metals in soil						Base II Duplicate II %RPD		
Date digested	-			30/09/2 014	116867-2	30/09/2014 30/09/2014	LCS-6	30/09/2014
Date analysed	-			30/09/2 014	116867-2	30/09/2014 30/09/2014	LCS-6	30/09/2014
Arsenic	mg/kg	4	Metals-020 ICP-AES	<4	116867-2	4 4 RPD:0	LCS-6	103%
Cadmium	mg/kg	0.4	Metals-020 ICP-AES	<0.4	116867-2	<0.4 <0.4	LCS-6	106%
Chromium	mg/kg	1	Metals-020 ICP-AES	<1	116867-2	14 15 RPD:7	LCS-6	107%
Copper	mg/kg	1	Metals-020 ICP-AES	<1	116867-2	29 32 RPD:10	LCS-6	105%
Lead	mg/kg	1	Metals-020 ICP-AES	<1	116867-2	9 12 RPD: 29	LCS-6	104%
Mercury	mg/kg	0.1	Metals-021 CV-AAS	<0.1	116867-2	<0.1 <0.1	LCS-6	88%
Nickel	mg/kg	1	Metals-020 ICP-AES	<1	116867-2	21 24 RPD: 13	LCS-6	106%
Zinc	mg/kg	1	Metals-020 ICP-AES	<1	116867-2	56 66 RPD:16	LCS-6	105%

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			Clie	nt Referenc	e: 84	1503.00, Emu	ı Pla	ins Aged Care				
QUALITYCONTROL	UNITS	Р	QL	METHOD	Blank	Duplicate Sm#	Dup	olicate results	SpikeSm#	Spike %		
CEC						3111#	Bas	e II Duplicate II %RPD		Recovery		
Date extracted	_				30/09/2	[NT]		[NT]	LCS-1	30/09/2014		
2 4.00 5/41/40004					014	,		[···]				
Date analysed	-				30/09/2 014	[NT]		[NT]	LCS-1	30/09/2014		
Exchangeable Ca	meq/	100	0.1	Metals-009	<0.1	[NT]		[NT]	LCS-1	104%		
Exchangeable K	meq/	100	0.1	Metals-009	<0.1	[NT]	[NT]		LCS-1	103%		
ExchangeableMg	meq/	100	0.1	Metals-009	<0.1	[NT]		[NT]	LCS-1	101%		
Exchangeable Na	meq/	100	0.1	Metals-009	<0.1	[NT]		[NT]	LCS-1	100%		
Cation Exchange Capacity	meq/	100	1	Metals-009	<1.0	[NT]		[NT]	[NR]	[NR]		
QUALITYCONTROL	UNITS	Р	PQL	METHOD	Blank	Duplicate	Dup	olicate results	SpikeSm#	Spike %		
Miscellaneous Inorg - soil						Sm#	Base II Duplicate II %RPI			Recovery		
Date prepared	-				[NT]	116867-12	30	/09/2014 30/09/2014	LCS-1	30/09/2014		
Date analysed	-				[NT]	116867-12	30/09/2014 30/09/2014		2 30/09/2014 30/09/2014		LCS-1	30/09/2014
pH 1:5 soil:water	pHUr	nits		Inorg-001	[NT]	116867-12 6.9 6.7 RPD:3 LC		LCS-1	102%			
Electrical Conductivity 1:5 soil:water	μS/c	m	1	Inorg-002	<1	116867-12	76 80 RPD:5		LCS-1	108%		
Chloride, CI1:5 soil:water	mg/l	kg	10	Inorg-081	<10	<10 116867-12		<10 <10	LCS-1	81%		
Sulphate,SO41:5 soil:water	mg/l	kg	10	Inorg-081	<10	116867-12	12 80 84 RPD: 5		LCS-1	87%		
QUALITYCONTROL	l	JNITS	ı	Dup.Sm#		Duplicate		SpikeSm#	Spike % Reco	very		
VOCs in soil					Base+[Ouplicate + %RF	D					
Date extracted		-		[NT]		[NT]		116867-5	30/09/2014	4		
Date analysed		-		[NT]		[NT]		116867-5	30/09/2014	4		
Dichlorodifluoromethane	r	mg/ k g		[NT]		[NT]		[NR]	[NR]			
Chloromethane	r	mg/ k g		[NT]		[NT]		[NR]	[NR]			
Vinyl Chloride	r	mg/ k g		[NT]		[NT]		[NR]	[NR]			
Bromomethane	r	mg/ k g		[NT]		[NT]		[NR]	[NR]			
Chloroethane	r	mg/ k g		[NT]		[NT]		[NR]	[NR]			
Trichlorofluoromethane	r	mg/ k g		[NT]		[NT]		[NR]	[NR]			
1,1-Dichloroethene		mg/ k g		[NT]		[NT]		[NR]	[NR]			
trans-1,2-dichloroethene		mg/ k g		[NT]		[NT]		[NR]	[NR]			
1,1-dichloroethane		mg/ k g		[NT]		[NT]		116867-5	119%			
cis-1,2-dichloroethene		mg/ k g		[NT]		[NT]		[NR]	[NR]			
bromochloromethane		mg/ k g		[NT]		[NT]		[NR]	[NR]			
chloroform		mg/ k g		[NT]		[NT]		116867-5	140%			
2,2-dichloropropane		mg/ k g		[NT]		[NT]		[NR]	[NR]			
1,2-dichloroethane		mg/ k g		[NT]		[NT]		116867-5	129%			
1,1,1-trichloroethane		mg/ k g		[NT]		[NT]		116867-5	132%			
1,1-dichloropropene		mg/ k g		[NT]		[NT]		[NR]	[NR]			
.,		שיייש		r1	<u> </u>	F 1		1,1	[, 1, 1]			

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		Client Reference	e: 84503.00, Emu Pla	_				
QUALITYCONTROL VOCs in soil	UNITS	Dup.Sm#	Duplicate Base+Duplicate+%RPD	SpikeSm#	Spike % Recovery			
Cyclohexane	mg/ k g	[NT]	[NT]	[NR]	[NR]			
carbon tetrachloride	mg/kg	[NT]	[NT]	[NR]	[NR]			
Benzene	mg/kg	[NT]	[NT]	[NR]	[NR]			
dibromomethane	mg/ k g	[NT]	[NT]	[NR]	[NR]			
1,2-dichloropropane	mg/kg	[NT]	[NT]	[NR]	[NR]			
trichloroethene	mg/kg	[NT]	[NT]	116867-5	118%			
bromodichloromethane	mg/kg	[NT]	[NT]	116867-5	140%			
trans-1,3-dichloropropene	mg/kg	[NT]	[NT]	[NR]	[NR]			
cis-1,3-dichloropropene	mg/kg	[NT]	[NT]	[NR]	[NR]			
1,1,2-trichloroethane	mg/kg	[NT]	[NT]	[NR]	[NR]			
Toluene	mg/ k g	[NT]	[NT]	[NR]	[NR]			
1,3-dichloropropane	mg/kg	[NT]	[NT]	[NR]	[NR]			
dibromochloromethane	mg/ k g	[NT]	[NT]	116867-5	140%			
1,2-dibromoethane	mg/ k g	[NT]	[NT]	[NR]	[NR]			
tetrachloroethene	mg/ k g	[NT]	[NT]	116867-5	140%			
1,1,1,2-tetrachloroethane	mg/ k g	[NT]	[NT]	[NR]	[NR]			
chlorobenzene	mg/ k g	[NT]	[NT]	[NR]	[NR]			
Ethylbenzene	mg/ k g	[NT]	[NT]	[NR]	[NR]			
bromoform	mg/ k g	[NT]	[NT]	[NR]	[NR]			
m+p-xylene	mg/ k g	[NT]	[NT]	[NR]	[NR]			
styrene	mg/ k g	[NT]	[NT]	[NR]	[NR]			
1,1,2,2-tetrachloroethane	mg/ k g	[NT]	[NT]	[NR]	[NR]			
o-Xylene	mg/kg	[NT]	[NT]	[NR]	[NR]			
1,2,3-trichloropropane	mg/kg	[NT]	[NT]	[NR]	[NR]			
isopropylbenzene	mg/ k g	[NT]	[NT]	[NR]	[NR]			
bromobenzene	mg/kg	[NT]	[NT]	[NR]	[NR]			
n-propyl benzene	mg/kg	[NT]	[NT]	[NR]	[NR]			
2-chlorotoluene	mg/kg	[NT]	[NT]	[NR]	[NR]			
4-chlorotoluene	mg/ k g	[NT]	[NT]	[NR]	[NR]			
1,3,5-trimethyl benzene	mg/kg	[NT]	[NT]	[NR]	[NR]			
tert-butyl benzene	mg/kg	[NT]	[NT]	[NR]	[NR]			
1,2,4-trimethyl benzene	mg/kg	[NT]	[NT]	[NR]	[NR]			
1,3-dichlorobenzene	mg/kg	[NT]	[NT]	[NR]	[NR]			
sec-butyl benzene	mg/kg	[NT]	[NT]	[NR]	[NR]			
1,4-dichlorobenzene	mg/ k g	[NT]	[NT]	[NR]	[NR]			
4-isopropyl toluene	mg/ k g	[NT]	[NT]	[NR]	[NR]			
1,2-dichlorobenzene	mg/ k g	[NT]	[NT]	[NR]	[NR]			
n-butyl benzene	mg/ k g	[NT]	[NT]	[NR]	[NR]			
1,2-dibromo-3- chloropropane	mg/kg	[NT]	[NT]	[NR]	[NR]			
1,2,4-trichlorobenzene	mg/ k g	[NT]	[NT]	[NR]	[NR]			
hexachlorobutadiene	mg/kg	[NT]	[NT]	[NR]	[NR]			

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		Client Referenc	e: 84503.00, Emu Pla	ins Aged Care	
QUALITYCONTROL VOCs in soil	UNITS	Dup.Sm#	Duplicate Base+Duplicate+%RPD	SpikeSm#	Spike % Recovery
1,2,3-trichlorobenzene	mg/kg	[NT]	[NT]	[NR]	[NR]
Surrogate Dibromofluorometha	%	[NT]	[NT]	116867-5	110%
<i>Surrogate</i> aaa- Trifluorotoluene	%	[NT]	[NT]	116867-5	115%
Surrogate Toluene-ds	%	[NT]	[NT]	116867-5	96%
<i>Surrogate</i> 4- Bromofluorobenzene	%	[NT]	[NT]	116867-5	72%
QUALITYCONTROL vTRH(C6-C10)/BTEXN in Soil	UNITS	Dup.Sm#	Duplicate Base+Duplicate+%RPD	SpikeSm#	Spike % Recovery
Date extracted	-	[NT]	[NT]	116867-5	30/09/2014
Date analysed	-	[NT]	[NT]	116867-5	30/09/2014
TRHC6-C9	mg/ k g	[NT]	[NT]	116867-5	135%
TRHC6 - C10	mg/ k g	[NT]	[NT]	116867-5	135%
Benzene	mg/ k g	[NT]	[NT]	116867-5	124%
Toluene	mg/ k g	[NT]	[NT]	116867-5	133%
Ethylbenzene	mg/kg	[NT]	[NT]	116867-5	136%
m+p-xylene	mg/ k g	[NT]	[NT]	116867-5	140%
o-Xylene	mg/ k g	[NT]	[NT]	116867-5	136%
naphthalene	mg/ k g	[NT]	[NT]	[NR]	[NR]
<i>Surrogate</i> aaa- Trifluorotoluene	%	[NT]	[NT]	116867-5	115%
QUALITYCONTROL svTRH(C10-C40)inSoil	UNITS	Dup.Sm#	Duplicate Base+Duplicate+%RPD	SpikeSm#	Spike % Recovery
Date extracted	-	[NT]	[NT]	116867-5	30/09/2014
Date analysed	-	[NT]	[NT]	116867-5	30/09/2014
TRHC10 - C14	mg/ k g	[NT]	[NT]	116867-5	115%
TRHC15 - C28	mg/ k g	[NT]	[NT]	116867-5	116%
TRHC29 - C36	mg/ k g	[NT]	[NT]	116867-5	107%
TRH>C10-C16	mg/ k g	[NT]	[NT]	116867-5	115%
TRH>C16-C34	mg/ k g	[NT]	[NT]	116867-5	116%
TRH>C34-C40	mg/ k g	[NT]	[NT]	116867-5	107%
Surrogate o-Terphenyl	%	[NT]	[NT]	116867-5	95%

		Client Reference	e: 84503.00, Emu Pla	iins Aged Care					
QUALITYCONTROL PAHs in Soil	UNITS	Dup.Sm#	Duplicate Base+Duplicate+%RPD	SpikeSm#	Spike % Recovery				
 Date extracted	-	[NT]	[NT]	116867-5	30/09/2014				
Date analysed	_	[NT]	[NT]	116867-5	30/09/2014				
Naphthalene	mg/kg	[NT]	[NT]	116867-5	94%				
Acenaphthylene	mg/kg	[NT]	[NT]	[NR]	[NR]				
Acenaphthene	mg/kg	[NT]	[NT]	[NR]	[NR]				
Fluorene	mg/kg	[NT]	[NT]	116867-5	97%				
Phenanthrene	mg/kg	[NT]	[NT]	116867-5	100%				
Anthracene	mg/kg	[NT]	[NT]	[NR]	[NR]				
Fluoranthene	mg/kg	[NT]	[NT]	116867-5	99%				
Pyrene	mg/kg	[NT]	[NT]	116867-5	100%				
Benzo(a)anthracene	mg/kg	[NT]	[NT]	[NR]	[NR]				
Chrysene	mg/kg	[NT]	[NT]	116867-5	90%				
Benzo(b,j+k)fluoranthene	mg/kg	[NT]	[NT]	[NR]	[NR]				
Benzo(a)pyrene	mg/kg	[NT]	[NT]	116867-5	109%				
Indeno(1,2,3-c,d)pyrene	mg/kg	[NT]	[NT]	[NR]	[NR]				
Dibenzo(a,h)anthracene	mg/kg	[NT]	[NT]	[NR]	[NR]				
Benzo(g,h,i)perylene	mg/kg	[NT]	[NT]	[NR]	[NR]				
Surrogate p-Terphenyl-d14	%	[NT]	[NT]	116867-5	105%				
QUALITYCONTROL	UNITS	Dup.Sm#	Duplicate	SpikeSm#	Spike % Recovery				
Organochlorine Pesticides in soil			Base+Duplicate+%RPD						
Date extracted	-	[NT]	[NT]	116867-5	30/09/2014				
Date analysed	-	[NT]	[NT]	116867-5	30/09/2014				
НСВ	mg/ k g	[NT]	[NT]	[NR]	[NR]				
alpha-BHC	mg/kg	[NT]	[NT]	116867-5	90%				
gamma-BHC	mg/kg	[NT]	[NT]	[NR]	[NR]				
beta-BHC	mg/kg	[NT]	[NT]	116867-5	89%				
Heptachlor	mg/kg	[NT]	[NT]	116867-5	90%				
delta-BHC	mg/kg	[NT]	[NT]	[NR]	[NR]				
Aldrin	mg/kg	[NT]	[NT]	116867-5	98%				
Heptachlor Epoxide	mg/ k g	[NT]	[NT]	116867-5	98%				
gamma-Chlordane	mg/ k g	[NT]	[NT]	[NR]	[NR]				
alpha-chlordane	mg/kg	[NT]	[NT]	[NR]	[NR]				
Endosulfan l	mg/kg	[NT]	[NT]	[NR]	[NR]				
pp-DDE	mg/ k g	[NT]	[NT]	116867-5	86%				
Dieldrin	mg/kg	[NT]	[NT]	116867-5	97%				
Endrin	mg/kg	[NT]	[NT]	116867-5	91%				
pp-DDD	mg/kg	[NT]	[NT]	116867-5	95%				
EndosulfanII	mg/ k g	[NT]	[NT]	[NR]	[NR]				
pp-DDT	mg/kg	[NT]	[NT]	[NR]	[NR]				
Endrin Aldehyde	mg/kg	[NT]	[NT]	[NR]	[NR]				
Endosulfan Sulphate	mg/ k g	[NT]	[NT]	116867-5	92%				

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		Client Referenc	e: 84503.00, Emu Pla	ins Aged Care	
QUALITYCONTROL Organochlorine Pesticides	UNITS	Dup.Sm#	Duplicate Base+Duplicate+%RPD	SpikeSm#	Spike % Recovery
in soil			·		
Methoxychlor	mg/kg	[NT]	[NT]	[NR]	[NR]
Surrogate TCMX	%	[NT]	[NT]	116867-5	97%
QUALITYCONTROL	UNITS	Dup.Sm#	Duplicate	SpikeSm#	Spike % Recovery
PCBs in Soil			Base + Duplicate + %RPD		
Date extracted	-	[NT]	[NT]	116867-5	30/09/2014
Date analysed	-	[NT]	[NT]	116867-5	30/09/2014
Arochlor 1016	mg/ k g	[NT]	[NT]	[NR]	[NR]
Arochlor 1221	mg/ k g	[NT]	[NT]	[NR]	[NR]
Arochlor 1232	mg/ k g	[NT]	[NT]	[NR]	[NR]
Arochlor 1242	mg/ k g	[NT]	[NT]	[NR]	[NR]
Arochlor 1248	mg/ k g	[NT]	[NT]	[NR]	[NR]
Arochlor 1254	mg/ k g	[NT]	[NT]	116867-5	117%
Arochlor 1260	mg/ k g	[NT]	[NT]	[NR]	[NR]
Surrogate TCLMX	%	[NT]	[NT]	116867-5	93%
QUALITYCONTROL	UNITS	Dup.Sm#	Duplicate	SpikeSm#	Spike % Recovery
Total Phenolics in Soil			Base+Duplicate+%RPD		
Date extracted	-	[NT]	[NT]	116867-2	07/10/2014
Date analysed	-	[NT]	[NT]	116867-2	07/10/2014
Total Phenolics (as Phenol)	mg/ k g	[NT]	[NT]	116867-2	97%
QUALITYCONTROL	UNITS	Dup.Sm#	Duplicate	SpikeSm#	Spike % Recovery
Acid Extractable metals in soil			Base+Duplicate+%RPD		
		INITI	[NIT]	446967 F	20/00/2014
Date digested Date analysed	-	[NT] [NT]	[NT] [NT]	116867-5 116867-5	30/09/2014 30/09/2014
Arsenic	mg/kg	[NT]	[NT]	116867-5	100%
Cadmium	mg/kg	[NT]	[NT]	116867-5	96%
Chromium	mg/kg	[NT]	[NT]	116867-5	100%
Copper	mg/kg	[NT]	[NT]	116867-5	110%
Lead	mg/kg	[NT]	[NT]	116867-5	94%
Mercury	mg/kg	[NT]	[NT]	116867-5	87%
Nickel	mg/kg	[NT]	[NT]	116867-5	95%
Zinc	mg/kg		[NT]	116867-5	92%
ZIIIU	mg/ k g	[NT]	[141]	110007-3	JZ /0

QUALITYCONTROL	UNITS	Dup.Sm#	Duplicate	SpikeSm#	Spike % Recovery
Miscellaneous Inorg - soil			Base + Duplicate + %RPD		
Date prepared	-	[NT]	[NT]	116867-13	30/09/2014
Date analysed	-	[NT]	[NT]	116867-13	30/09/2014
pH 1:5 soil:water	pHUnits	[NT]	[NT]	[NR]	[NR]
Electrical Conductivity 1:5 soil:water	μS/cm	[NT]	[NT]	[NR]	[NR]
Chloride, Cl 1:5 soil:water	mg/ k g	[NT]	[NT]	116867-13	90%
Sulphate,SO41:5 soil:water	mg/ k g	[NT]	[NT]	116867-13	100%

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Report Comments:

Asbestos: A portion of the supplied sample was sub-sampled for asbestos analysis according to Envirolab procedures. We cannot guarantee that this sub-sample is indicative of the entire sample. Envirolab recommends supplying 40-50g of sample in its own container.

Asbestos ID was analysed by Approved Identifier: Paul Ching Asbestos ID was authorised by Approved Signatory: Paul Ching

INS: Insufficient sample for this test PQL: Practical Quantitation Limit NT: Not tested NA: Test not required RPD: Relative Percent Difference NA: Test not required

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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.

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: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable. Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for SVOC 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 sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

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.

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(Douglas Partners Geotechnics | Environment | Groundwater

CHAIN OF CUSTODY DESPATCH SHEET (2)

Envirolab Services 12 Ashley Street, Chatswood NSW 2068. 02 9910 6200 Tania Notaras.	Notes						Envirolab Services COVINCURB 12 Ashley St	Chatswood NSW 2067 Ph (02) 3910 6200		Date Received: 291, 9, 2014 Time Received: 14, 0, 0	Received by: 24	Cooling Ice/depack	Security: Intack Broken/None		Send results to: Jessica Little Douglas Partners Pty Ltd	Postal Address:		E-mail: jessica.little@douglaspartners.com.au	1000
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CARE PM HAZID)	the the										>	<>	<		SAMPLES RECEIVED Please sign and date to acknowledge	receipt of samples and return by e-mail	Signature:	Date: Lab Ref. 11606 F.	X
Project Name: CM. PLANS - ALED Project No: S. C.	23	×	×				×								6/6				× —
Secondance with	Ha	×	×				×								*As per Laboratory Method Detection Limit	. 77			
Sica Little ky) (fridge) shelved (circle) Sim? YES(NO) ansport and store in acco	Day Strong	₩	X	X	×	×	×	×	\ \ \		1				*As per Labo Detection	ainer:			
on: Jessic esky) iin HBM? dle, transp	Lab (§	-	2	3	+	20	9	rt	00	0	0				ion limit,	es in conta			7
Project Name: Project No: S. 4. 5.7 Project No: DP Contact Person: Jessica Little Prior Storage: Esky)/fridge// Do samples contain HBM? Y (If YES, then handle, transport and Sample	Type S-soil W-water	\$	S	8	5	S	5	O',	01	S	S	S	mg/kg	mg/L	= practical quantitation limit, relinquished: Sample	or of sampling	med by		26091
Project Name: Project No: DP Contact Pe Prior Storage: Do samples co (If YES, then h	Sample ID	841-0-2	SH2-0.5	SH3-0-2	BHY-0.1	8H5A_0.3	RH58-0.	6H6 0-3	BH7 0.2	848-0.5	X	18	PQL (S)	PQL (W)	PUL = practical quantitation limit, *As per Laboratory Date relinquished: Jamoled 26/1	Total number of samples in container:	ceduiled by:	0	-802/260914

Page 1 of 1

FPM - ENVID/Form COC 03

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E-mail: jessica.little@douglaspartners.com.au

Signature:

...Lab Ref:

Date:

Date relinquished: Total number of samples in container:......

Results required by: ..

Douglas Partners Goetechnics | Environment | Groundwater

CHAIN OF CUSTODY DESPATCH SHEET (2)

Envirolab Services	12 Ashley Street Ch
Envirolab	12 Achley
To:	
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DP Contact Person: Jessica Little 00.

12 Ashley Street, Chatswood NSW 2068.... 02 9910 6200 Ph

02 9910 6200 Tania Notaras		
Ph 02 9910 6200 Attn: Tania Notaras	3	9
Ph Attn:	es	_
Prior Storage: esky fridge shelved (circle) Do samples contain HBM? YES(NO If YES, then handle, transport and store in accordance with FPM HAZID)	Analytes	The second of
ain Hi		Lab
Prior Storage: esky/ Do samples contain HBM? (If YES, then handle, trans	Sample	Type
Prior S Do sar	2 2	Sample

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Sample Type S-soil W-water		Lab ID	30	No.	Ky Ka	Jan 1	des	ير يجود	い	Drong.	Dro.				Notes	
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PQL (S) mg/kg	6															
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PQL = practical quantitation limit,	antitatic		*As per Laboratory Method Detection Limit	ooratory № on Limit	1ethod		SAMPL Please	SAMPLES RECEIVED Please sign and date to acknowledge	IVED date to ac	knowledg		Send resu	Send results to: Jessica Little	Little		7
Date relinquished:	d:						receipt	of sample:	s and ret	urn by e-r	nail	Postal Add	Postal Address:	7		
Total number of samples is	olamor	die o		7						•	TO THE STATE OF THE PARTY OF TH					_

Page 1 of 1

FPM - ENVID/Form COC 03

Project Name:

Project No:

Prior Storage:

CMC



Douglas Partners (Syd) 96 Hermitage Road West Ryde NSW 2114 Certificate of Analysis

ATA

NATA Accredited Accreditation Number 1261 Site Number 1254

Accredited for compliance with ISO/IEC 17025. The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: Jessica Little

Report 433847-S

Project name EMU PLAINS - AGED CARE 84503.00

Received Date Sep 30, 2014

Client Sample ID			BD2/260914
Sample Matrix			Soil
Eurofins mgt Sample No.			S14-Se22844
Date Sampled			Sep 26, 2014
Test/Reference	LOR	Unit	
Polycyclic Aromatic Hydrocarbons			
Acenaphthene	0.5	mg/kg	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5
Anthracene	0.5	mg/kg	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5
Benzo(b&j)fluorantheneN07	0.5	mg/kg	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5
Chrysene	0.5	mg/kg	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5
Fluorene	0.5	mg/kg	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5
Naphthalene	0.5	mg/kg	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5
Pyrene	0.5	mg/kg	< 0.5
Total PAH	0.5	mg/kg	< 0.5
Benzo(a)pyrene TEQ (lower bound)*	0.5	mg/kg	< 0.5
Benzo(a)pyrene TEQ (medium bound)*	0.5	mg/kg	0.6
Benzo(a)pyrene TEQ (upper bound)*	0.5	mg/kg	1.2
2-Fluorobiphenyl (surr.)	1	%	118
p-Terphenyl-d14 (surr.)	1	%	141
Heavy Metals			
Arsenic	2	mg/kg	8.0
Cadmium	0.4	mg/kg	< 0.4
Chromium	5	mg/kg	11
Copper	5	mg/kg	6.0
Lead	5	mg/kg	7.0
Mercury	0.1	mg/kg	< 0.1
Nickel	5	mg/kg	5.5
Zinc	5	mg/kg	27
0/ Maistura	0.4	0/	6.0
% Moisture	0.1	%	6.0



Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.

A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Polycyclic Aromatic Hydrocarbons	Melbourne	Oct 02, 2014	14 Day
- Method: USEPA 8270 Polycyclic Aromatic Hydrocarbons			
Metals M8	Melbourne	Oct 02, 2014	28 Day
- Method: USEPA 6010/6020 Heavy Metals & USEPA 7470/71 Mercury			
% Moisture	Melbourne	Sep 30, 2014	14 Day

- Method: Method 102 - ANZECC - % Moisture

Report Number: 433847-S



Melbourne

3-5 Kingston Town Close Oakleigh VIC 3166 Phone: +61 3 8564 5000 NATA # 1261 Site # 1254 & 14271

Sydney Unit F6, Building F 16 Mars Road Lane Cove West NSW 2066 Phone: +61 2 9900 8400 NATA # 1261 Site # 18217

Received:

Priority:

Due:

Brisbane 1/21 Smallwood Place Murarrie QLD 4172 Phone : +61 7 3902 4600 NATA # 1261 Site # 20794

ABN - 50 005 085 521 e.mail : EnviroSales@eurofins.com.au web : www.eurofins.com.au

Fax:

Company Name: Douglas Partners (Syd) Address: 96 Hermitage Road

West Ryde

NSW 2114

Project Name: EMU PLAINS - AGED CARE 84503.00 Order No.:

Report #: 433847 Phone: 02 9809 0666

> **Contact Name:** Jessica Little

> > Eurofins | mgt Client Manager: Jean Heng

Oct 8, 2014

5 Day

Sep 30, 2014 1:40 PM

		Sample Detail			% Moisture	Polycyclic Aromatic Hydrocarbons	Metals M8
Laboratory who	ere analysis is c	onducted					
Melbourne Lab	oratory - NATA	Site # 1254 & 14	271		Х	Х	Х
Sydney Labora	tory - NATA Site	# 18217					
Brisbane Labor	ratory - NATA Si	te # 20794					
External Labora	atory						
Sample ID	Sample Date	Sampling Time	Matrix	LAB ID			
BD2/260914	Sep 26, 2014		Soil	S14-Se22844	Х	Х	Х

Date Reported:Oct 07, 2014

Report Number: 433847-S



Eurofins | mgt Internal Quality Control Review and Glossary

General

- 1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
- 2. All soil results are reported on a dry basis, unless otherwise stated.
- 3. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- 4. Results are uncorrected for matrix spikes or surrogate recoveries
- 5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise
- 6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Advice.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

**NOTE: pH duplicates are reported as a range NOT as RPD

UNITS

 mg/kg: milligrams per Kilogram
 mg/l: milligrams per litre

 ug/l: micrograms per litre
 ppm: Parts per million

 ppb: Parts per billion
 %: Percentage

org/100ml: Organisms per 100 millilitres NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

TERMS

Dry Where a moisture has been determined on a solid sample the result is expressed on a dry basis.

LOR Limit of Reporting

SPIKE Addition of the analyte to the sample and reported as percentage recovery.

RPD Relative Percent Difference between two Duplicate pieces of analysis.

LCS Laboratory Control Sample - reported as percent recovery
CRM Certified Reference Material - reported as percent recovery

Method Blank In the case of solid samples these are performed on laboratory certified clean sands

In the case of water samples these are performed on de-ionised water. $% \label{eq:case_eq} % \label{eq:case_eq}$

Surr - Surrogate The addition of a like compound to the analyte target and reported as percentage recovery

DuplicateA second piece of analysis from the same sample and reported in the same units as the result to show comparison.

Batch Duplicate A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.

Batch SPIKE Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.

USEPA United States Environmental Protection Agency

APHA American Public Health Association

ASLP Australian Standard Leaching Procedure (AS4439.3)
TCLP Toxicity Characteristic Leaching Procedure

COC Chain of Custody
SRA Sample Receipt Advice

CP Client Parent - QC was performed on samples pertaining to this report

NCP Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within

TEQ Toxic Equivalency Quotient

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50% $\,$

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries : Recoveries must lie between 50-150% - Phenols 20-130%

QC DATA GENERAL COMMENTS

- 1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
- 2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
- 3. Organochlorine Pesticide analysis where reporting LCS data, Toxophene & Chlordane are not added to the LCS.
- 4. Organochlorine Pesticide analysis where reporting Spike data, Toxophene is not added to the Spike
- 5. Total Recoverable Hydrocarbons where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
- 6. pH and Free Chlorine analysed in the laboratory Analysis on this test must begin within 30 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time.

 Analysis will begin as soon as possible after sample receipt.
- 7. Recovery Data (Spikes & Surrogates) where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
- 8. Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
- 9. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
- $10. \ \ Duplicate \ RPD's \ are \ calculated \ from \ raw \ analytical \ data \ thus \ it \ is \ possible \ to \ have \ two \ sets \ of \ data.$

Report Number: 433847-S



Quality Control Results

Test	Units	Result 1	Acceptance Limits	Pass Limits	Qualifying Code
Method Blank					
Polycyclic Aromatic Hydrocarbons					
Acenaphthene	mg/kg	< 0.5	0.5	Pass	
Acenaphthylene	mg/kg	< 0.5	0.5	Pass	
Anthracene	mg/kg	< 0.5	0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5	0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5	0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5	0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5	0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5	0.5	Pass	
Chrysene	mg/kg	< 0.5	0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5	0.5	Pass	
Fluoranthene	mg/kg	< 0.5	0.5	Pass	
Fluorene	mg/kg	< 0.5	0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5	0.5	Pass	
Naphthalene	mg/kg	< 0.5	0.5	Pass	
Phenanthrene	mg/kg	< 0.5	0.5	Pass	
Pyrene	mg/kg	< 0.5	0.5	Pass	
Method Blank		- 0.0	7 0.0	1 400	
Heavy Metals			T		
Arsenic	mg/kg	< 2	2	Pass	
Cadmium	mg/kg	< 0.4	0.4	Pass	
Chromium	mg/kg	< 5	5	Pass	
		< 5	5	Pass	
Copper Lead	mg/kg	< 5	5	Pass	
	mg/kg		+		
Mercury	mg/kg	< 0.1 < 5	0.1	Pass	
Nickel	mg/kg	< 5	5	Pass	
Zinc	mg/kg	< 5] 5	Pass	
LCS - % Recovery			T		
Polycyclic Aromatic Hydrocarbons	%	75	70-130	Dese	
Acenaphthene				Pass	
Acenaphthylene	%	82	70-130	Pass	
Anthracene	%	70	70-130	Pass	
Benz(a)anthracene	%	86	70-130	Pass	
Benzo(a)pyrene	%	78	70-130	Pass	
Benzo(b&j)fluoranthene	%	70	70-130	Pass	
Benzo(g.h.i)perylene	%	77	70-130	Pass	
Benzo(k)fluoranthene	%	82	70-130	Pass	
Chrysene	%	72	70-130	Pass	
Dibenz(a.h)anthracene	%	74	70-130	Pass	
Fluoranthene	%	80	70-130	Pass	
Fluorene	%	72	70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	76	70-130	Pass	
Naphthalene	%	84	70-130	Pass	
Phenanthrene	%	75	70-130	Pass	
Pyrene	%	80	70-130	Pass	
LCS - % Recovery					
Heavy Metals					
Arsenic	%	92	80-120	Pass	
Cadmium	%	106	80-120	Pass	
Chromium	%	110	80-120	Pass	
Copper	%	108	80-120	Pass	



Te	est		Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Lead			%	103			80-120	Pass	
Mercury			%	96			75-125	Pass	
Nickel			%	112			80-120	Pass	
Zinc			%	112			80-120	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery				ı			1		
Polycyclic Aromatic Hydrocar	bons			Result 1					
Acenaphthene	M14-Se22657	NCP	%	92			70-130	Pass	
Acenaphthylene	M14-Se22657	NCP	%	97			70-130	Pass	
Anthracene	M14-Se22657	NCP	%	93			70-130	Pass	
Benz(a)anthracene	M14-Se22657	NCP	%	102			70-130	Pass	
Benzo(a)pyrene	M14-Se22657	NCP	%	115			70-130	Pass	
Benzo(b&j)fluoranthene	M14-Se22657	NCP	%	96			70-130	Pass	
Benzo(g.h.i)perylene	M14-Se22657	NCP	%	95			70-130	Pass	
Benzo(k)fluoranthene	M14-Se22657	NCP	%	102			70-130	Pass	
Chrysene	M14-Se22657	NCP	%	97			70-130	Pass	
Dibenz(a.h)anthracene	M14-Se22657	NCP	%	113			70-130	Pass	
Fluoranthene	M14-Se22657	NCP	%	93			70-130	Pass	
Fluorene	M14-Se22657	NCP	%	92			70-130	Pass	
Indeno(1.2.3-cd)pyrene	M14-Se22657	NCP	%	98			70-130	Pass	
Naphthalene	M14-Se22657	NCP	%	91			70-130	Pass	
Phenanthrene	M14-Se22657	NCP	%	95			70-130	Pass	
Pyrene	M14-Se22657	NCP	%	92			70-130	Pass	
Spike - % Recovery				ı			1		
Heavy Metals				Result 1					
Arsenic	M14-Oc01139	NCP	%	92			75-125	Pass	
Cadmium	M14-Oc01139	NCP	%	104			75-125	Pass	
Chromium	M14-Oc01139	NCP	%	107			75-125	Pass	
Copper	M14-Oc01149	NCP	%	118			75-125	Pass	
Lead	M14-Oc01139	NCP	%	76			75-125	Pass	
Mercury	M14-Oc01139	NCP	%	92			70-130	Pass	
Nickel	M14-Oc01139	NCP	%	102			75-125	Pass	
Zinc	B14-Se21518	NCP	%	94			75-125	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate							_		
Polycyclic Aromatic Hydrocar	bons			Result 1	Result 2	RPD			
Acenaphthene	M14-Oc02086	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	M14-Oc02086	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	M14-Oc02086	NCP	mg/kg	0.60	0.50	15	30%	Pass	
Benz(a)anthracene	M14-Oc02086	NCP	mg/kg	1.7	1.7	3.0	30%	Pass	
Benzo(a)pyrene	M14-Oc02086	NCP	mg/kg	1.4	1.7	21	30%	Pass	
Benzo(b&j)fluoranthene	M14-Oc02086	NCP	mg/kg	0.80	1.2	43	30%	Fail	Q15
Benzo(g.h.i)perylene	M14-Oc02086	NCP	mg/kg	0.90	1.0	13	30%	Pass	
Benzo(k)fluoranthene	M14-Oc02086	NCP	mg/kg	1.3	1.4	13	30%	Pass	
Chrysene	M14-Oc02086	NCP	mg/kg	1.3	1.3	2.0	30%	Pass	
Dibenz(a.h)anthracene	M14-Oc02086	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	M14-Oc02086	NCP	mg/kg	4.6	3.6	24	30%	Pass	
Fluorene	M14-Oc02086	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	M14-Oc02086	NCP	mg/kg	1.1	1.4	26	30%	Pass	
Naphthalene	M14-Oc02086	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	M14-Oc02086	NCP	mg/kg	2.9	2.4	17	30%	Pass	
Pyrene	M14-Oc02086	NCP	mg/kg	3.8	3.2	18	30%	Pass	



Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M14-Oc01138	NCP	mg/kg	8.5	6.6	25	30%	Pass	
Cadmium	M14-Oc01138	NCP	mg/kg	1.4	1.2	13	30%	Pass	
Chromium	M14-Oc01138	NCP	mg/kg	12	12	1.0	30%	Pass	
Copper	M14-Oc01139	NCP	mg/kg	110	110	<1	30%	Pass	
Lead	M14-Oc01138	NCP	mg/kg	200	230	10	30%	Pass	
Mercury	M14-Oc02087	NCP	mg/kg	1.1	1.0	12	30%	Pass	
Nickel	M14-Oc01138	NCP	mg/kg	8.7	7.2	20	30%	Pass	
Zinc	M14-Oc01148	NCP	mg/kg	170	190	8.0	30%	Pass	



Comments

Sample Integrity

Custody Seals Intact (if used) N/A Attempt to Chill was evident Yes Sample correctly preserved Yes Appropriate sample containers have been used Yes Sample containers for volatile analysis received with minimal headspace Yes Samples received within HoldingTime Yes Some samples have been subcontracted No

Qualifier Codes/Comments

Code Description

Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs N07

The RPD reported passes Eurofins | mgt's Acceptance Criteria as stipulated in SOP 05. Refer to Glossary Page of this report for further details Q15

Authorised By

Jean Heng Client Services

Carroll Lee Senior Analyst-Organic (VIC) Emily Rosenberg Senior Analyst-Metal (VIC) Huong Le Senior Analyst-Inorganic (VIC)

Dr. Bob Symons Laboratory Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested
- * Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

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CHAIN OF CUSTODY DESPATCH SHEET (2)

Project N Project N DP Cont Prior Sto	lo: act Perso rage:	n: Jes esk	sica Lit	5₽.3 tle	.QQ			CAR	**********		To:	12 ASTIR	y Street	, Chats	swood N	ISW 206	8	
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	Sample		- D				10			Analytes			70					120000000000000000000000000000000000000
Sample ID	Type S-soil W-water	Lab ID	Buya	Yel	1/2	0	webs	OK	Sep.									Notes
841_0.2	-8		X	*	X	X				İ						<u> </u>		
842-0.5	S		X	8X	X	X						-			-	-		
SH3-0-2	3		X	8								+						
SHY _ O./	2		X	7			X	<u> </u>			<u> </u>							
CHSA_0.3	2		×.	X														
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OH6_0.3	3		Ý								100			_				
SH7-0.2	3		V									+						
848-0.5	S		\sim					1										
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TB	5								X									
	mg/kg								X)) (d) (d) (d) (d)			
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FPM - ENVID/Form COC 03

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Rev1/July 2013



ABN - 50 005 085 521

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Sample Receipt Advice

Company name: Douglas Partners (Syd)

Contact name: Jessica Little

Project name: EMU PLAINS - AGED CARE 84503.00

COC number: Not provided

Turn around time: 5 Day

Date/Time received: Sep 30, 2014 1:40 PM

Eurofins | mgt reference: 433847

Sample information

- ✓ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- All samples have been received as described on the above COC.
- COC has been completed correctly.
- Attempt to chill was evident.
- Appropriately preserved sample containers have been used.
- ✓ All samples were received in good condition.
- Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- Appropriate sample containers have been used.
- Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

Contact notes

If you have any questions with respect to these samples please contact:

Jean Heng on Phone: (+61) (2) 9900 8400 or by e.mail: JeanHeng@eurofins.com.au

Results will be delivered electronically via e.mail to Jessica Little - jessica.little@douglaspartners.com.au.

Eurofins | mgt Sample Receipt



Environmental Laboratory Air Analysis Water Analysis Soil Contamination Analysis NATA Accreditation Stack Emission Sampling & Analysis Trade Waste Sampling & Analysis Groundwater Sampling & Analysis



