Technical Paper 5
Environmental Site Assessment (Phase 2)
Contents of the EIS

### VOLUME 1a

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Introduction</td>
</tr>
<tr>
<td>2</td>
<td>Site context and environmental values</td>
</tr>
<tr>
<td>3</td>
<td>Strategic context and need for the Project</td>
</tr>
<tr>
<td>4</td>
<td>Planning and statutory requirements</td>
</tr>
<tr>
<td>5</td>
<td>Stakeholder and community consultation</td>
</tr>
<tr>
<td>6</td>
<td>Project development and alternatives</td>
</tr>
<tr>
<td>7</td>
<td>Project built form and operations</td>
</tr>
<tr>
<td>8</td>
<td>Project development phasing and construction</td>
</tr>
<tr>
<td>9</td>
<td>Project sustainability</td>
</tr>
<tr>
<td>10</td>
<td>Impact assessment approach</td>
</tr>
<tr>
<td>11</td>
<td>Traffic, transport and access</td>
</tr>
<tr>
<td>12</td>
<td>Noise and vibration</td>
</tr>
<tr>
<td>13</td>
<td>Biodiversity</td>
</tr>
<tr>
<td>14</td>
<td>Hazards and risks</td>
</tr>
<tr>
<td>15</td>
<td>Contamination and soils</td>
</tr>
</tbody>
</table>

### VOLUME 1b

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>Hydrology, groundwater and water quality</td>
</tr>
<tr>
<td>17</td>
<td>Local air quality</td>
</tr>
<tr>
<td>18</td>
<td>Regional air quality</td>
</tr>
<tr>
<td>19</td>
<td>Greenhouse gas assessment</td>
</tr>
<tr>
<td>20</td>
<td>Aboriginal heritage</td>
</tr>
<tr>
<td>21</td>
<td>European heritage</td>
</tr>
<tr>
<td>22</td>
<td>Visual and urban design</td>
</tr>
<tr>
<td>23</td>
<td>Property and infrastructure</td>
</tr>
<tr>
<td>24</td>
<td>Social and economic impacts</td>
</tr>
<tr>
<td>25</td>
<td>Human health risks and impacts</td>
</tr>
<tr>
<td>26</td>
<td>Waste and resource management</td>
</tr>
<tr>
<td>27</td>
<td>Cumulative impacts</td>
</tr>
<tr>
<td>28</td>
<td>Environmental management framework</td>
</tr>
<tr>
<td>29</td>
<td>Environmental risk analysis</td>
</tr>
<tr>
<td>30</td>
<td>Project justification and conclusions</td>
</tr>
<tr>
<td>31</td>
<td>References</td>
</tr>
</tbody>
</table>

### VOLUME 2

<table>
<thead>
<tr>
<th>Appendix</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>EIS Project team</td>
</tr>
<tr>
<td>B</td>
<td>EIS guidelines and requirements</td>
</tr>
<tr>
<td>C</td>
<td>Compliance with the Georges River REP principles</td>
</tr>
<tr>
<td>D</td>
<td>Consultation information, materials and outcomes</td>
</tr>
<tr>
<td>E</td>
<td>MCA criteria relating to Project objectives</td>
</tr>
<tr>
<td>F</td>
<td>Layouts of shortlisted Project alternatives</td>
</tr>
<tr>
<td>G</td>
<td>Peer review endorsement letters</td>
</tr>
<tr>
<td>H</td>
<td>Provisional EMPs</td>
</tr>
<tr>
<td>I</td>
<td>Environmental record of Proponent</td>
</tr>
<tr>
<td>J</td>
<td>Compliance with Schedule 1, Part 1 and 2 of the (NSW) Environmental Planning and Assessment Regulation 2000</td>
</tr>
<tr>
<td>K</td>
<td>Tenure history of the Project site</td>
</tr>
</tbody>
</table>

### TECHNICAL PAPERS

#### EIS Volume 3

1. Traffic and Transport Impact Assessment
2. Noise and Vibration Impact Assessment

#### EIS Volume 4

3. Ecological Impact Assessment (with associated Biodiversity Offset Strategy)
4. Preliminary Risk Assessment

#### EIS Volume 5a

5. Environmental Site Assessment (Phase 2)

#### EIS Volume 5b

5. Environmental Site Assessment (Phase 2)
   Appendices C to F

#### EIS Volume 6

6. Surface Water Assessment
7. Local Air Quality Impact Assessment
8. Regional Air Quality Impact Assessment
9. Greenhouse Gas Assessment

#### EIS Volume 7

10. Aboriginal Heritage Impact Assessment

#### EIS Volume 8

11. European Heritage Impact Assessment
12. Visual Impact Assessment

#### EIS Volume 9

13. Light Spill Impact Assessment
14. Social Impact Assessment
15. Human Health Risk Assessment
16. Health Impact Assessment
Contents

VOLUME 1A – MAIN VOLUME

Declaration
Glossary and abbreviations
Executive summary

Chapter 1  Introduction
Chapter 2  Site context and environmental values
Chapter 3  Strategic context and need for the Project
Chapter 4  Planning and statutory requirements
Chapter 5  Stakeholder and community consultation
Chapter 6  Project development and alternatives
Chapter 7  Project built form and operations
Chapter 8  Project development phasing and construction
Chapter 9  Project sustainability
Chapter 10  Impact assessment approach
Chapter 11  Traffic, transport and access
Chapter 12  Noise and vibration
Chapter 13  Biodiversity
Chapter 14  Hazards and risks
Chapter 15  Contamination and soils

VOLUME 1B – MAIN VOLUME

Chapter 16  Hydrology, groundwater and water quality
Chapter 17  Local air quality
Chapter 18  Regional air quality
Chapter 19  Greenhouse gas assessment
Chapter 20  Aboriginal heritage
Chapter 21  European heritage
Chapter 22  Visual and urban design
Chapter 23  Property and infrastructure
Chapter 24  Social and economic impacts
Chapter 25  Human health risks and impacts
Chapter 26  Waste and resource management
Chapter 27  Cumulative impacts
Chapter 28  Environmental management framework
Chapter 29  Environmental risk analysis
Chapter 30  Project justification and conclusions
Chapter 31  References

VOLUME 2 – APPENDICES

Appendix A  EIS Project team
Appendix B  EIS guidelines and requirements
Appendix C  Compliance with the Georges River Regional Environment Plan (REP) principles
Appendix D  Consultation information, materials and outcomes
Appendix E  MCA criteria relating to Project objectives
Appendix F  Layouts of shortlisted Project alternatives
Appendix G  Peer review endorsements
Appendix H  Provisional EMPs
Appendix I  Environmental record of Proponent
Appendix J  Compliance with Schedule 1, Part 1 and 2 of the Environmental Planning and Assessment Regulation 2000 (NSW)
Appendix K  Tenure history of the Project site

VOLUME 3

Technical Paper 1  Traffic and Transport Impact Assessment
Technical Paper 2  Noise and Vibration Impact Assessment

VOLUME 4

Technical Paper 3  Ecological Impact Assessment (with associated Biodiversity Offset Strategy)
Technical Paper 4  Preliminary Risk Assessment

VOLUME 5A

Technical Paper 5  Environment Site Assessment (Phase 2)
**VOLUME 5B**

- Technical Paper 5  Environment Site Assessment (Phase 2) – Appendices C-F

**VOLUME 6**

- Technical Paper 6  Surface Water Assessment
- Technical Paper 7  Local Air Quality Impact Assessment
- Technical Paper 8  Regional Air Quality Impact Assessment
- Technical Paper 9  Greenhouse Gas Assessment

**VOLUME 7**

- Technical Paper 10  Aboriginal Heritage Impact Assessment

**VOLUME 8**

- Technical Paper 11  European Heritage Impact Assessment
- Technical Paper 12  Visual Impact Assessment

**VOLUME 9**

- Technical Paper 13  Light Spill Impact Assessment
- Technical Paper 14  Social Impact Assessment
- Technical Paper 15  Human Health Risk Assessment
- Technical Paper 16  Health Impact Assessment
Appendix A
Phase 2 ESA data
Please refer to CD
Moorebank Intermodal Company

Phase 1 Environmental Site Assessment, Moorebank Intermodal Terminal

9 July 2014
Client: Moorebank Intermodal Company
Title: Phase 1 Environmental Site Assessment, Moorebank Intermodal Terminal
Document No: 2103829A-CLM-RPT-3321 Rev C
Date: 9 July 2014

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<tr>
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<td>20/11/2010</td>
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</tr>
<tr>
<td>A</td>
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<td>Preliminary draft</td>
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<tr>
<td>B</td>
<td>15/05/2014</td>
<td>Amended based on Auditor Comments</td>
</tr>
<tr>
<td>C</td>
<td>09/07/2014</td>
<td>Amended based on Auditor Comments</td>
</tr>
</tbody>
</table>

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# Contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Page number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abbreviations</td>
<td>iii</td>
</tr>
<tr>
<td>Executive summary</td>
<td>v</td>
</tr>
<tr>
<td>1. Introduction</td>
<td>1</td>
</tr>
<tr>
<td>1.1 Background</td>
<td>1</td>
</tr>
<tr>
<td>1.2 Objectives</td>
<td>1</td>
</tr>
<tr>
<td>2. Scope of works</td>
<td>3</td>
</tr>
<tr>
<td>3. Background information</td>
<td>5</td>
</tr>
<tr>
<td>3.1 Site location</td>
<td>5</td>
</tr>
<tr>
<td>3.2 Site history review</td>
<td>5</td>
</tr>
<tr>
<td>3.3 Summary of previous investigations</td>
<td>6</td>
</tr>
<tr>
<td>3.4 Additional environmental reports</td>
<td>9</td>
</tr>
<tr>
<td>4. Physical setting</td>
<td>11</td>
</tr>
<tr>
<td>4.1 Subsurface setting</td>
<td>11</td>
</tr>
<tr>
<td>5. Site history</td>
<td>15</td>
</tr>
<tr>
<td>6. Potential for contamination</td>
<td>21</td>
</tr>
<tr>
<td>7. Conceptual site model</td>
<td>25</td>
</tr>
<tr>
<td>7.1 Geology summary</td>
<td>25</td>
</tr>
<tr>
<td>8. Data gaps</td>
<td>29</td>
</tr>
<tr>
<td>9. Conclusions</td>
<td>31</td>
</tr>
<tr>
<td>9.1 Recommendations</td>
<td>32</td>
</tr>
<tr>
<td>10. Limitations</td>
<td>33</td>
</tr>
<tr>
<td>11. References</td>
<td>35</td>
</tr>
</tbody>
</table>
List of tables

<table>
<thead>
<tr>
<th>Table</th>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Table 3.1</td>
<td>Summary of USTs within the IMT site</td>
<td>7</td>
</tr>
<tr>
<td>Table 4.1</td>
<td>Groundwater database summary</td>
<td>12</td>
</tr>
<tr>
<td>Table 5.1</td>
<td>Titles search summary</td>
<td>15</td>
</tr>
<tr>
<td>Table 5.2</td>
<td>S149 search summary</td>
<td>15</td>
</tr>
<tr>
<td>Table 5.3</td>
<td>Historical aerial photograph summary</td>
<td>17</td>
</tr>
<tr>
<td>Table 5.4</td>
<td>Historical aerial photograph summary, surrounding land use</td>
<td>18</td>
</tr>
<tr>
<td>Table 6.1</td>
<td>Potential contaminant sources/contaminants</td>
<td>22</td>
</tr>
</tbody>
</table>

List of appendices

- Appendix A: Figures
- Appendix B: Acid sulfate soils risk map (ASRIS)
- Appendix C: NSW Water information - registered groundwater bore search
- Appendix D: Certificates of title
- Appendix E: Section 149 certificates
- Appendix F: NSW EPA Notice records
- Appendix G: Hazardous chemical records provided by Defence
- Appendix H: Aerial photographs
- Appendix I: Site photographs
- Appendix J: Contaminants of concern risk matrix
# Abbreviations

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACM</td>
<td>asbestos containing materials</td>
</tr>
<tr>
<td>AEC</td>
<td>Areas of Environmental Concern</td>
</tr>
<tr>
<td>ANZECC</td>
<td>Australian and New Zealand Environment and Conservation Council</td>
</tr>
<tr>
<td>AFFF</td>
<td>aqueous film forming foam</td>
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<tr>
<td>AHD</td>
<td>Australian Height Datum</td>
</tr>
<tr>
<td>AST</td>
<td>above ground storage tank</td>
</tr>
<tr>
<td>BTEX</td>
<td>Benzene, Toluene, Ethyl Benzene, Xylene</td>
</tr>
<tr>
<td>C&lt;sub&gt;6&lt;/sub&gt;–C&lt;sub&gt;9&lt;/sub&gt;</td>
<td>light hydrocarbon chain groups (for example, petrol)</td>
</tr>
<tr>
<td>C&lt;sub&gt;10&lt;/sub&gt;–C&lt;sub&gt;14&lt;/sub&gt;</td>
<td>medium hydrocarbon chain groups (for example, kerosene)</td>
</tr>
<tr>
<td>C&lt;sub&gt;15&lt;/sub&gt;–C&lt;sub&gt;28&lt;/sub&gt;</td>
<td>heavy hydrocarbon chain groups (for example, diesel)</td>
</tr>
<tr>
<td>C&lt;sub&gt;29&lt;/sub&gt;–C&lt;sub&gt;36&lt;/sub&gt;</td>
<td>heavy hydrocarbon chain groups (for example, lube oil)</td>
</tr>
<tr>
<td>CE</td>
<td>combat engineering</td>
</tr>
<tr>
<td>COC</td>
<td>chain of custody</td>
</tr>
<tr>
<td>CoC</td>
<td>contaminants of concern</td>
</tr>
<tr>
<td>CHC</td>
<td>chlorinated hydrocarbons</td>
</tr>
<tr>
<td>COPC</td>
<td>contaminants of potential concern</td>
</tr>
<tr>
<td>C-RAT</td>
<td>contaminant risk assessment tool</td>
</tr>
<tr>
<td>CS gas</td>
<td>o-chlorobenzylidene malononitrile</td>
</tr>
<tr>
<td>DCE</td>
<td>Dichloroethene</td>
</tr>
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<td>DECCW</td>
<td>Department of Environment, Climate Change and Water (NSW)</td>
</tr>
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<td>DIDS</td>
<td>Defence Integrated Distribution System</td>
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<td>DNSDC</td>
<td>Defence National Support and Distribution Centre</td>
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<td>Defence</td>
<td>Department of Defence</td>
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<td>DQQ</td>
<td>data quality objective</td>
</tr>
<tr>
<td>EHC</td>
<td>environmentally hazardous chemicals</td>
</tr>
<tr>
<td>EOW</td>
<td>explosive ordnance waste</td>
</tr>
<tr>
<td>EPA</td>
<td>Environment Protection Authority (now incorporated in the DECCW)</td>
</tr>
<tr>
<td>FTA</td>
<td>fire training area</td>
</tr>
<tr>
<td>GPR</td>
<td>ground penetration radar</td>
</tr>
<tr>
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<td>gross pollutant trap</td>
</tr>
<tr>
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<td>Glenfield Waste Services</td>
</tr>
<tr>
<td>ha</td>
<td>hectares</td>
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<td>Abbreviation</td>
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</tr>
<tr>
<td>--------------</td>
<td>-------------</td>
</tr>
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<td>IMT</td>
<td>Intermodal Terminal</td>
</tr>
<tr>
<td>LGA</td>
<td>local government area</td>
</tr>
<tr>
<td>m</td>
<td>metres</td>
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<tr>
<td>m BGL</td>
<td>metres below ground level</td>
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<tr>
<td>mg/kg</td>
<td>milligram per kilogram (or part per million).</td>
</tr>
<tr>
<td>mg/L</td>
<td>milligram per litre (or part per million).</td>
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<td>NBC</td>
<td>Nuclear, Biological and Chemical</td>
</tr>
<tr>
<td>NEPM</td>
<td>National Environmental Protection Measure</td>
</tr>
<tr>
<td>NSC</td>
<td>no significant change</td>
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<tr>
<td>OCPs</td>
<td>organochlorine pesticides</td>
</tr>
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<td>OPPs</td>
<td>organophosphorus pesticides</td>
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<td>PAHs</td>
<td>oolycyclic aromatic hydrocarbons</td>
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<td>PCBs</td>
<td>polychlorinated biphenyls</td>
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<td>PBIL</td>
<td>phytotoxicity-based investigation levels</td>
</tr>
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<td>PQL</td>
<td>Practical Quantitation Limit (of chemical concentration).</td>
</tr>
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<td>RAP</td>
<td>remediation action plan</td>
</tr>
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<td>SAQP</td>
<td>sampling, analysis and quality plan</td>
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<td>SME</td>
<td>School of Military Engineering</td>
</tr>
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<td>SMP</td>
<td>site management plan</td>
</tr>
<tr>
<td>STP</td>
<td>sewage treatment plant</td>
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<tr>
<td>TCE</td>
<td>trichloroethene</td>
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<tr>
<td>TPH</td>
<td>total petroleum hydrocarbon</td>
</tr>
<tr>
<td>VOC</td>
<td>volatile organic compounds</td>
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<td>UST</td>
<td>underground storage tank</td>
</tr>
<tr>
<td>UXO</td>
<td>unexploded ordnance</td>
</tr>
</tbody>
</table>
Executive summary

Introduction

Moorebank Intermodal Company (MIC) commissioned Parsons Brinckerhoff Pty Ltd (Parsons Brinckerhoff) to undertake a Phase 1 environmental site assessment (ESA) for Moorebank Barracks and Steele Barracks occupied and owned by the Department of Defence (Defence), located adjacent to Moorebank Avenue and east of the Georges River, Moorebank NSW (the Moorebank IMT site).

The Phase 1 ESA was completed to assess the potential contamination issues with the purpose of evaluating the feasibility of the future proposed use as the Moorebank Intermodal Terminal (IMT). The primary function of the IMT is to be a transfer point in the logistics chain for shipping containers and to handle both international IMEX cargo, and domestic interstate and intrastate (regional) cargo. The aims are to increase Sydney’s rail freight mode share including: promoting the movement of container freight by rail between Port Botany and western and south-western Sydney; and to reduce road freight on Sydney’s congested road network.

The Moorebank IMT Project (the Project) includes a rail link connecting the Moorebank IMT site to the Southern Sydney Freight Line (SSFL) and road entry and exit points from Moorebank Avenue. At the time of preparing this Phase 1 ESA for the Moorebank IMT site, three separate rail access options are also being considered, which are:

- northern rail access option — with rail access from the north-western corner of the Moorebank IMT site, passing through the former Casula Powerhouse Golf Course (which is currently owned by Liverpool City Council (LCC)) and crossing the Georges River and floodplain;
- central rail access option — with rail access from the centre of the western boundary of the Moorebank IMT site, passing through Commonwealth land on the western bank of the Georges River (referred to as the ‘hourglass land’); and
- southern rail access option — rail access from the south-western corner of the Moorebank IMT site, passing through the Glenfield Landfill site (owned by Glenfield Waste Services) and crossing the Georges River and floodplain.

The Moorebank IMT site forms the study area investigated in this Phase 1 ESA report. Separate reports have been prepared for each of the three rail access options.

The scope of work for the Phase 1 ESA comprised a review of aerial photographs, council records, public registers, geological and hydrological information and previous reports containing environmental information pertaining to the Moorebank IMT site provided by Defence, a site inspection and the preparation of this Phase 1 ESA report.

Site description and setting

The Moorebank IMT site is roughly rectangular in shape covering a total area of approximately 220 ha and is owned and currently used by Defence as Moorebank Barracks and Steele Barracks incorporating the School of Military Engineering (SME).

The Moorebank IMT site surface is generally flat and is underlain by alluvial sands, silts and clays overlying shale of the Wianamatta Group and Hawkesbury Sandstone. The Georges River flows to the north along the western boundary of the Moorebank IMT site. The M5 South Western Motorway extends east to west, north of the Moorebank IMT site, and a landfill is located south-west on the west side of the Georges River.
Based on the findings of previous investigations, it is inferred that groundwater flow beneath the Moorebank IMT site is towards the west in the direction of the Georges River.

Site history

Based on a review of aerial photographs, the Moorebank IMT site has been used for Defence purposes since the 1940s. Surrounding land use has evolved from vacant bushland to residential, commercial and industrial uses from the 1970s until present day.

Based on historical and current site uses and a review of previous environmental reports, the key contaminants of concern include total petroleum hydrocarbons (TPH), benzene, toluene, ethylbenzene and xylene (BTEX), polycyclic aromatic hydrocarbons (PAHs), heavy metals, polychlorinated biphenyls (PCBs), trichloroethene (TCE), volatile organic compounds (VOCs), asbestos, fire fighting foams (such as aqueous film forming foams (AFFF)) and compounds associated with explosives and munitions.

Site conceptual model summary

Based on the IMT site history and contaminants of potential concern, the potential for site contamination is considered to be associated with the following sources:

- buried wastes and waste stockpiles including asbestos containing materials (ACM) and imported fill;
- leaks from the storage/use of fuels, waste oils and hazardous chemicals;
- the presence of building materials containing asbestos;
- residual contamination from buried munitions and practice ordnance;
- potential contamination from offsite sources which may have migrated onsite through surface water or groundwater flows; and
- ongoing site operations including the use of heavy earth moving machinery in the ‘dust bowl’ training area, bridging yard activities and fire fighting related training activities.

Potential pathways and receptors are considered to include:

- leaching and migration of contaminants horizontally and/or vertically into underlying groundwater and migration into the Georges River;
- surface water flow/ lateral migration of contaminated water through preferential pathways to the Georges River;
- direct contact with soils, surface water or groundwater (dermal contact, ingestion and inhalation) by construction/utility workers, site users and future land users;
- direct contact with surface water or groundwater (dermal contact and ingestion) via pumping to other areas of the IMT site or through registered domestic bores that have been identified offsite;
- migration of airborne dust to on and offsite receptors via dermal contact, ingestion and inhalation;
- vapour migration from soil or groundwater to onsite and offsite users/workers via inhalation; and
- Georges River via groundwater and surface water migration and migration to ecologically sensitive receptors and recreational users downstream.

Previous site contamination investigations conducted at the IMT site have identified localised areas of contamination including asbestos containing fill, TPH and heavy metals in soil and groundwater, and TCE in groundwater.
Based on the review of available environmental reports, it is considered that limited remediation and site management is likely to be required for development of the IMT site for an industrial end use as an IMT.

To develop appropriate environmental and remediation measures it is recommended that additional intrusive soil and groundwater investigation works (Phase 2 ESA) be completed to augment the existing site data and to minimise spatial data gaps.
1. Introduction

1.1 Background

Moorebank Intermodal Company (MIC) commissioned Parsons Brinckerhoff Pty Ltd (Parsons Brinckerhoff) to undertake a Phase 1 environmental site assessment (ESA) for the proposed Moorebank Intermodal Terminal (IMT) located adjacent to Moorebank Avenue, Moorebank, NSW (the Moorebank IMT site).

The Moorebank IMT Project (the Project) includes a rail link connecting the site to the Southern Sydney Freight Line (SSFL) and road entry and exit points from Moorebank Avenue. The primary function of the IMT is to be a transfer point in the logistics chain for shipping containers and to handle both international IMEX cargo, and domestic interstate and intrastate (regional) cargo. The key aims are to increase Sydney’s rail freight mode share including: promoting the movement of container freight by rail between Port Botany and western and south-western Sydney; and to reduce road freight on Sydney’s congested road network.

Currently, the Moorebank IMT site is largely occupied by the Department of Defence’s (Defence) School of Military Engineering (SME). It covers an area of approximately 220 ha and is legally identified as three lots:

- Lot 100 DP 1049508 – the northern area of the IMT site, south of ABB Transmissions Pty Ltd (ABB) facility (approximately 5.3 ha);
- Lot 101 DP 1049508 – the northern area of the IMT site, east of ABB facility adjacent to Moorebank Avenue (approximately 4 ha); and
- Lot 3001 DP 1125930 – the main IMT site (approximately 185 ha).

The rail connection between the IMT site and the SSFL are currently being considered. The three rail access options comprise:

- Northern rail access option (Lot 10 DP 881265) — with rail access from the north-western corner of the IMT site, passing through the former Casula Powerhouse Golf Course (which is currently owned by Liverpool City Council (LCC)) and crossing the Georges River and floodplain.
- Central rail access option (Lot 4 DP1130937) — with rail access from the centre of the western boundary of the IMT site, passing through Commonwealth land on the western bank of the Georges River (referred to as the ‘hourglass land’).
- Southern rail access option — rail access from the south-western corner of the IMT site, passing through the Glenfield Landfill site (owned by Glenfield Waste Services) and crossing the Georges River and floodplain. This option comprised five parcels of land identified as Lot 5 DP 833516, Lot 51 DP 515696, Lot 52 DP 517310 and Lots 103 and 104 DP 1143827.

The IMT site forms the study area investigated in this report. Separate reports have been prepared for each of the three rail access options.

1.2 Objectives

The objectives of the Phase 1 ESA are to:

- assess the IMT site history and historical site uses;
- identify areas of environmental concern and associated contaminants of concern;
- assess the potential for the contamination identified to impact human health or environmental receptors at the IMT site;
- provide recommendations for additional intrusive works required to complete the site assessment; and
- provide a general evaluation of the feasibility of the Project based on potential environmental constraints identified at the IMT site.
2. Scope of works

The scope of works for the Phase 1 ESA consisted of a desktop review and site walkover that included the following tasks:

- identification of the study area, including location of surrounding infrastructure, area, boundaries and title descriptions;
- a review of aerial photographs for the IMT site and surrounding area;
- a review of environmental reports available for the area to identify potential data gaps;
- a review of historical land titles;
- a review of the local geology, hydrology and hydrogeology;
- a site inspection to establish current site conditions;
- preparation of this Phase 1 ESA report; and
- evaluation of the works necessary to fill data gaps identified to make an assessment of suitability for the proposed development.
3. Background information

3.1 Site location

The IMT site is located approximately 30 km south-west of Sydney between Liverpool and Campbelltown along the Georges River, west of Moorebank Avenue and the Defence National Support and Distribution Centre (DNSDC) and south of the M5 South Western Motorway. The location is presented in Figure 1 (Appendix A).

The main access road is from Moorebank Avenue which runs north to south on the eastern side of the IMT site.

The IMT site comprises two main areas, the northern portion known as the Moorebank Barracks and the southern portion known as the Steele Barracks, which houses the SME. Surrounding land use consists of:

- north – factory and warehouse facilities (ABB Transmissions Pty Ltd) with the M5 South Western Motorway and industrial, commercial and residential land beyond;
- east – Moorebank Avenue and the DNSDC facility and Wattle Grove residential area beyond;
- south – Defence owned land including an explosives confidence range, practice mine fields and training areas with the East Hills Railway Line and Cambridge Avenue beyond;
- south-west – former quarry and current Glenfield Waste Services (GWS) landfill and waste transfer station across the Georges River with residential development beyond; and
- west – a decommissioned diesel fuelled power station (now the Casula Powerhouse Arts Centre) on the Western Bank of the Georges River, the Casula railway station and residential properties beyond.

These areas and surrounding features are shown in Figure 2 (Appendix A).

3.2 Site history review

A review of available historical and current site information was undertaken to evaluate the environmental sensitivity and potential contamination concerns at the site. The site history review included the following tasks:

- a review of previous reports and background information provided by Defence pertaining to the historical uses and environmental conditions;
- a review of regional and local geological and hydrological information including topographic maps, geological maps and local registered groundwater bore records; and
- a site inspection to evaluate current conditions of contaminated areas previously identified, to identify surrounding land uses which may have the potential to cause contamination onsite.
3.3 Summary of previous investigations

As part of the Phase 1 ESA, the following reports were provided to Parsons Brinckerhoff by Defence:

- Dames and Moore, Environmental Management Plan (1996);
- Egis Consulting Australia (ECA), Stage 1 Preliminary Site Investigation (2000);
- HLA Envirosiences, Preliminary Groundwater Study, Moorebank Defence Land (2003);
- GHD, Groundwater Investigation of the North Western Portion of the Moorebank Defence Land (2004);
- GHD, Proposed Intermodal Freight Hub, Moorebank, Summary of Environmental Planning Reports (2005);
- HLA Envirosiences, AST and UST Management Plan, Volume 10, Sydney West Defence Region (2005); and

A general review of these reports was undertaken. Review summaries are provided in the following sections.

3.3.1 Dames and Moore, Environmental Management Plan (1996)

An environmental audit involving a desk top study and detailed site investigation was undertaken by Dames and Moore to facilitate the development of an environmental management plan (EMP). Five areas of waste disposal, historical USTs, a former sewage treatment plant (STP) and the plant roads and airfield (PRA) yard and associated wash points were identified as areas of potential contamination. Further testing of soils in these areas was recommended.

3.3.2 Egis Consulting Australia (ECA), Stage 1 Preliminary Site Investigation (2000)

The ECA investigation consisted of a desktop review of information pertaining to Steele Barracks, Moorebank Barracks as well as the DNSDC and former Moorebank ammunition depot located to the east. Several areas within the School of Military Engineering (SME) were identified as having the potential to cause contamination including the PRA Yard, former STP, former fire training areas (FTA), the ‘dust bowl’ area, various waste and ordnance burial areas, the combat engineering (CE) store and the nuclear, biological and chemical (NBC) and radiac bunker and store.

3.3.3 HLA Envirosiences, Preliminary Groundwater Study, Moorebank Defence Land (2003)

This study consisted of the installation of 17 monitoring wells across Moorebank Defence lands and the sampling and analysis of groundwater from these monitoring wells. Data was used to develop a conceptual site model.

Of the 17 wells, 6 wells were within the IMT site. Concentrations of dissolved heavy metals (copper, chromium, nickel and zinc) were reported above the adopted assessment criteria in the majority of groundwater samples analysed. Elevated PAH concentrations were reported in groundwater sampled from the north-eastern corner of the Steel Barracks and trichloroethene (TCE) and cis-1,2 dichloroethene (DCE) were reported in groundwater sampled in the north-western area of the IMT site.
3.3.4  **GHD, Groundwater Investigation of the North Western Portion of the Moorebank Defence Land (2004)**

This investigation was undertaken to determine the source of the TCE identified by HLA in 2003. Thirteen new groundwater monitoring wells were installed in the north-west corner of the Moorebank Barracks (immediately south of the ABB boundary). TCE was identified in groundwater sampled from four of the new wells. The source of TCE was determined to be near the northern boundary. Impacts beyond the northern site boundary could not be confirmed.

3.3.5  **GHD, Proposed Intermodal Freight Hub, Moorebank, Summary of Environmental Planning Reports (2005)**

This report summarised the environmental and planning information compiled by the Department of Defence Property Disposal Task Force during the period 2000 to 2004. The studies were undertaken for the purpose of rezoning Moorebank from military uses to industrial, residential and conservation areas with a view to vacating the land over a period of 10 to 15 years. The studies included heritage, flora, fauna, archaeology, flooding, contamination, transport, access and potential development footprints.

Preliminary investigations found that there was potential for contamination to be present across large areas of the site. The areas of greatest risk were identified to be the Former PRA Yard and buried waste disposal areas located adjacent to the Georges River in the northern and central areas of the SME. Further intrusive investigations were recommended to confirm the type and extent of contamination present.

3.3.6  **HLA Envirosciences, AST and UST Management Plan, Volume 10, Sydney West Defence Region (2005)**

A review of the HLA Envirosciences (2005) AST and UST Management Plan identified several hydrocarbon storage tanks onsite within the Steele Barracks area. The findings are summarised in Table 3.1.

**Table 3.1  Summary of USTs within the IMT site**

<table>
<thead>
<tr>
<th>Location</th>
<th>Tank ID</th>
<th>Storage type</th>
<th>Age</th>
<th>Construction</th>
<th>Risk</th>
<th>Risk factors</th>
</tr>
</thead>
<tbody>
<tr>
<td>North of Building 14</td>
<td>44467</td>
<td>Diesel</td>
<td>&gt;25 years</td>
<td>Single steel wall</td>
<td>Medium</td>
<td>&lt;250 m to boundary; &lt;500 m to sensitive receptor</td>
</tr>
<tr>
<td>West of Building 23</td>
<td>367S_UST_006</td>
<td>Waste oil</td>
<td>&gt;20 years</td>
<td>Single steel wall</td>
<td>Medium</td>
<td>&lt;500 m to sensitive receptor</td>
</tr>
<tr>
<td>North of Building 141</td>
<td>367S_UST_005</td>
<td>Waste oil</td>
<td>&gt;20 years</td>
<td>Single steel wall</td>
<td>Medium</td>
<td>&lt;500 m to sensitive receptor</td>
</tr>
<tr>
<td>East of Building 16</td>
<td>367S_UST_004</td>
<td>Waste oil</td>
<td>&gt;20 years</td>
<td>Single steel wall</td>
<td>Medium</td>
<td>&lt;250 m to boundary</td>
</tr>
<tr>
<td>East of Building 16</td>
<td>367S_UST_003</td>
<td>Waste oil</td>
<td>&gt;20 years</td>
<td>Single steel wall</td>
<td>Medium</td>
<td>&lt;250 m to boundary</td>
</tr>
<tr>
<td>South of building 70</td>
<td>367S_UST_003</td>
<td>Decommissioned</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

No USTs were identified to be present within the Moorebank Barracks area.
3.3.7 Earth Tech Stage 2 Environmental Investigation (2006)

Earth Tech was commissioned by the Department of Defence Corporate Services and Infrastructure Group (CSIG) to undertake a Stage 2 ESA within designated parts of the Moorebank Defence lands. Investigation areas were evaluated using a risk based approach which considered historical site uses and focussed on areas where activities that had the potential to cause contamination had occurred. Thirty-nine areas were identified as warranting further investigation. The key areas of concern are described below:

- small arms ranges, practice mine fields, explosives confidence ranges and bomb disposal training areas;
- former sewage treatment plant (STP) and sewage disposal areas;
- former fire training areas (FTAs) and dust bowl (area of land used for earth moving training);
- field engineering stores, CE store and former nuclear biological, chemical (NBC) and radiac store, bunker and warfare wing;
- former Chatham Village and Jacquinot Court (former residential barrack areas);
- various waste disposal areas including asbestos disposal pits and medical supplies disposal pits;
- Bridging Yard used for bridge building training;
- military museum and museum storage yard;
- Plants Roads and Airfield (PRA) Yard; and
- former Pickles Auction House (currently a vehicle storage shed and workshop).

Chemicals of interest included TPH, metals, BTEX compounds, asbestos, organochlorine pesticides (OCPs), organophosphate pesticides (OPPs), explosives, suspected biohazards from buried sewage and medical wastes, solvents, formaldehyde, CS gas, radiation, volatile organic compounds (VOCs) and anionic surfactants associated with aqueous film forming foams (AFFF).

An assessment of risk associated with each area of interest was undertaken using the Defence Contamination Risk Assessment Tool (C-RAT). This framework considered the likelihood and consequences of risk scenarios in the context of the potential impacts of the contamination upon human health and the environment, legislative compliance, financial implications, reputation and staff morale. Remedial or management actions were recommended for a number of areas based on historical information and the results of the Phase 2 investigation and cost estimates were prepared for various remedial options. The areas identified were:

- 25 m small arms range (Earth Tech reference 25 mSAR) where removal of surface metal waste was recommended to facilitate comprehensive UXO clearance;
- the former STP area (Earth Tech reference SW0183) where asbestos and heavy metals including mercury in soil and sediments were confirmed;
- the former FTA (Earth Tech reference SW0185) where TPH was identified in soils from 1.0–2.2 m BGL toward the northern end of the surface water drain;
- the bomb disposal training area (Earth Tech reference SW0190) where comprehensive UXO clearance was recommended;
- the waste disposal area (Earth Tech reference SW0195, D&M Area 1) where TPH contamination was identified in waste fill to 1.8 m BGL;
the waste disposal area (Earth Tech reference SW0196, D&M Area 5) where asbestos was present in above-ground stockpiles. Asbestos was also encountered in other waste disposal areas across the IMT site and removal for offsite disposal was recommended (the development of an asbestos management plan was also recommended to manage any asbestos fill encountered during any future site development or disturbance of buried demolition wastes;

- Pickles Auction House (Earth Tech area reference SW201) where TPH contamination was identified to be present to 1.0 m BGL in the unsealed area near the southern boundary. A waste oil pit was also identified in this area and it was recommended this be removed and disposed of offsite;

- Bridging Yard where TPH contamination and elevated metals (associated with metal tailings from the grit blasting facility) were identified in soils and where two underground waste oil storage pits were identified. Recommendations were made for offsite disposal of hydrocarbon impacted soils and near surface tailings surrounding the grit blasting facility. The removal and disposal of waste oil pits from this area was also recommended;

- PRA Yard where TPH contamination in soil was confirmed. One diesel UST with associated bowser and three underground pits used as waste oil tanks were noted to be present in this area. Removal and offsite disposal of tanks was recommended following decommissioning as part of any future site development;

- CE store where it was recommended that four underground waste oil storage pits be removed for offsite disposal;

- TCE contamination was confirmed in groundwater in the north-west corner of Moorebank Barracks. Further investigation of this area was recommended to establish the source and extent of this contamination; and

- UXO was identified in a number of areas across the IMT site including the practice mine fields. Comprehensive UXO clearance was recommended for the entire site to eliminate the perceived risk associated with unexploded ordnance and explosive ordnance wastes.

A radiation survey of the areas associated with radiac storage was undertaken as part of the Earth Tech works and concluded that no radioactive sources or contaminants were present.

It was noted that additional areas of soil and groundwater contamination may be present outside of the targeted areas included as part of the investigation.

3.4 Additional environmental reports

The following environmental reports pertaining to the IMT site were identified:

- Groundwater Technology, Environmental Site Assessment (1994);
- Dames and Moore, Environmental Audit (1996);
- CMPS and F Environmental, Preliminary Environmental Investigation (1998); and

These reports were not available to Parsons Brinckerhoff for review; therefore environmental information contained in these reports has not been included in the evaluation of current site conditions.
4. Physical setting

4.1 Subsurface setting

4.1.1 Regional and local geology

The Department of Mineral Resources Penrith 1:100,000 geological series sheet 9030 showed the underlying geology consists of silts, sands and clays from quaternary fluvial deposition underlain by tertiary clayey sand and clay. The alluvial deposits overlay shales of the Wianamatta group which are typically black to dark grey shales and laminates from the Triassic period. Hawkesbury Sandstone is shown to be present in the north-western area of the IMT site near to the western bank of the Georges River.

4.1.2 Acid sulfate soils

A review of the acid sulfate soils (ASS) risk maps from the online CSIRO Australian Soil Resource Information System showed a low probability of ASS nearer the Georges River and high probability within the immediate Georges River corridor.

ASS are acidic soil horizons or layers resulting from the aeration of soil materials that are rich in iron sulfides, primarily pyrite (FeS$_2$). They are likely to be present in marine and estuarine sediments of the recent (Holocene) geological age, soils usually not more than five metres above mean sea level, and in marine or estuarine settings.

Landform elements in which the geomorphic processes have been suitable for the formation of ASS have been classed as having a ‘high probability of occurrence’. Bottom sediments of estuaries, rivers, creeks and lakes are considered likely to be areas of high probability of ASS occurrence. Where environments have not generally been suitable for ASS formation, or where ASS is highly localised or sporadic, they have been classed as having a ‘low probability of occurrence’. In general, landforms above 10 m Australian Height Datum (AHD) are classed as having no known occurrence of ASS.

Whether or not a particular land use activity will contribute to any acidification hazard in an area by exposing ASS will depend on the depth of soil disturbance, and the depth of occurrence of ASS materials. Therefore, the environmental risk associated with disturbing ASS will depend on the type of land use activity.

The ASS risk map is presented as Appendix B.

4.1.3 Topography and hydrology

A review of topographical data provided by the Department of Lands Spatial Information Exchange showed that the IMT site lies at an approximate elevation between 4 and 18 m AHD.

The lowest elevations are associated with the terraces of the Georges River. The main area of the IMT site lies at an approximate elevation of 12 to 14 m AHD.

Surface water is likely to flow to the north-west towards the Georges River with some localised flow into surface water bodies that are present onsite.
An open concrete lined drain located on the boundary between Steele Barracks and Moorebank Barracks transects from east to west and conveys some surface water runoff from the Defence National Support and Distribution Centre (DNSDC) facility to the east and from the site discharging to the Georges River via a gross pollutant trap (GPT).

4.1.4 Regional and local hydrogeology

At the IMT site groundwater is likely to be present in the alluvium and shale. Alluvial deposits occur in valleys, creeks and river beds in the region. The alluvial deposits are generally shallow, discontinuous and relatively permeable and are likely to be responsive to rainfall and stream flow. The shallow alluvium is likely to be hydraulically connected to the Georges River. Groundwater from within the alluvium is likely to sustain groundwater dependent ecosystems. Locally groundwater flow is likely to be towards the Georges River.

In contrast, groundwater within the Shale is likely to be characterised by more saline conditions. Regionally, the shale generally has a low hydraulic conductivity and thus behaves as an aquitard, restricting groundwater flow into the underlying Hawkesbury Sandstone unit. Locally, groundwater is likely to flow along the interface of the shale and alluvium following the gradient of the shale.

During the Earth Tech (2006) works, groundwater was encountered within the alluvium across the IMT site at depths ranging from 4.8 m BGL to 13.3 m BGL at elevations of between 7.7 to 16.3 m AHD. Groundwater contours calculated by Earth Tech (2006), based on gauging of 24 monitoring wells inferred a westerly groundwater flow, towards the Georges River which flows to the north along the western boundary of the IMT site.

4.1.5 Groundwater database search

A search of the NSW Office of Water licensed borehole register showed that 19 registered bores are present within a 1 km radius of the IMT site. A summary is provided in Table 4.1.

<table>
<thead>
<tr>
<th>Bore ID</th>
<th>Authorised Purpose</th>
<th>Approximate distance (m) and direction</th>
<th>Date installed</th>
<th>SWL (m BTOC)</th>
<th>Total depth (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GW109805</td>
<td>Monitoring</td>
<td>730 west</td>
<td>Jan-2007</td>
<td>Unknown</td>
<td>12</td>
</tr>
<tr>
<td>GW109799</td>
<td>Monitoring</td>
<td>410 west</td>
<td>Jan-2007</td>
<td>Unknown</td>
<td>22.8</td>
</tr>
<tr>
<td>GW109798</td>
<td>Monitoring</td>
<td>140 west</td>
<td>Jan-2007</td>
<td>Unknown</td>
<td>29.8</td>
</tr>
<tr>
<td>GW108804</td>
<td>Monitoring</td>
<td>170 west</td>
<td>Apr-2008</td>
<td>Unknown</td>
<td>11</td>
</tr>
<tr>
<td>GW109803</td>
<td>Monitoring</td>
<td>100 west</td>
<td>Feb-2009</td>
<td>Unknown</td>
<td>29.8</td>
</tr>
<tr>
<td>GW108802</td>
<td>Domestic</td>
<td>510 south-west</td>
<td>Apr-2008</td>
<td>Unknown</td>
<td>23.7</td>
</tr>
<tr>
<td>GW016829</td>
<td>Domestic</td>
<td>580 north-east</td>
<td>Feb-2058</td>
<td>4.2</td>
<td>5.4</td>
</tr>
<tr>
<td>GW016682</td>
<td>Waste disposal</td>
<td>550 east</td>
<td>Sep-2061</td>
<td>3.9</td>
<td>3.9</td>
</tr>
<tr>
<td>GW110395</td>
<td>Monitoring</td>
<td>100 north</td>
<td>Sep-2005</td>
<td>6.8</td>
<td>8.5</td>
</tr>
<tr>
<td>GW110390</td>
<td>Monitoring</td>
<td>100 north</td>
<td>Sep-2005</td>
<td>7.2</td>
<td>9</td>
</tr>
<tr>
<td>GW110392</td>
<td>Monitoring</td>
<td>100 north</td>
<td>Sep-2005</td>
<td>7.3</td>
<td>8.5</td>
</tr>
<tr>
<td>GW110387</td>
<td>Monitoring</td>
<td>100 north</td>
<td>Sep-2005</td>
<td>8</td>
<td>10</td>
</tr>
<tr>
<td>GW110393</td>
<td>Monitoring</td>
<td>100 north</td>
<td>Sep-2005</td>
<td>7.8</td>
<td>9</td>
</tr>
</tbody>
</table>
The majority of the monitoring bores identified are associated with ABB located north of the IMT site and GWS located to the south-west, on the eastern side of the Georges River. The two domestic bores identified are considered to be up gradient of the site based on the inferred groundwater flows reported in previous investigations.

Bore search information is provided in Appendix C for reference and a map showing the registered borehole locations is provided as Figure 6.
5. Site history

A historical land title search provided information on the ownership of the three lots within the study area and the area of land on the western bank of the Georges River understood to have been utilised by Defence in the past for training purposes. Historical land title information has been summarised in Table 5.1.

Table 5.1 Titles search summary

<table>
<thead>
<tr>
<th>Dates</th>
<th>Ownership Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lot 3001 DP1125930</td>
<td>Commonwealth of Australia</td>
</tr>
<tr>
<td>2006–Present</td>
<td></td>
</tr>
<tr>
<td>1995–2006</td>
<td>Defence Housing Authority</td>
</tr>
<tr>
<td>1913–1993</td>
<td>Commonwealth of Australia</td>
</tr>
<tr>
<td>1896–1913</td>
<td>The Church of England Property Trust Dioceses of Sydney</td>
</tr>
</tbody>
</table>

Lot 100 DP1049508

| 1925–Present    | Commonwealth of Australia                 |

Lot 101 DP1049508

| 1925–Present    | Commonwealth of Australia                 |

Based on historical land title records, it is understood that the majority of the IMT site has been owned by the Commonwealth from 1913 to present. Title search documentation is provided in Appendix D for reference.

5.1.1 Section 149 (2) and (5) planning certificate information

Section 149 (2) and (5) planning certificates for the three lots that make up the IMT site and the area of land on the western bank of the Georges River were acquired from the Liverpool City Council. A review of this information showed that all four lots were subject to the Liverpool Local Environment Plan 2008, Liverpool Development Control Plan 2008 (as amended) and the Greater Metropolitan Regional Environment Plan No. 2 (Georges River Catchment).

Relevant information in the planning certificates reviewed by Parsons Brinckerhoff is summarised in Table 5.2 below.

Table 5.2 S149 search summary

<table>
<thead>
<tr>
<th>Subject</th>
<th>Lot/DP</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3001/1125930</td>
</tr>
<tr>
<td>Zoning</td>
<td>IN1 General industrial</td>
</tr>
<tr>
<td>Critical habitat</td>
<td>No</td>
</tr>
<tr>
<td>Conservation area</td>
<td>No</td>
</tr>
<tr>
<td>Environmental heritage</td>
<td>Yes</td>
</tr>
<tr>
<td>Mine subsidence</td>
<td>No</td>
</tr>
</tbody>
</table>
Coastal Protection Act 1979 | No | No | No | No |
Bushfire prone land | Yes | Yes | Yes | Yes |
Flood related controls | Yes | Yes | Yes | Yes |
Tree preservation provisions | Yes | Yes | Yes | Yes |
Notices | No | No | No | No |
Environmentally significant Land | Yes | No | No | Yes |
Archaeological management plan | No | No | No | No |
Unhealthy building land proclamation | No | No | No | No |
Matters arising to the Contaminated Land Management Act 2009 | No | subject to a site audit statement | subject to a site audit statement | No |
Contaminated Land | LCC provided with written information indicating presence of contamination | No | No | No |

Copies of the Section 149 certificates are provided in Appendix E for reference. Further information in this regard is available from LCC’s City Strategy Department or the Liverpool Local Environmental Plan 2008.

### 5.1.2 DECCW online notice records database search

An online search of the NSW EPA Contaminated Land Records Database returned no notice records for the Project site. One site was identified within a 5 km radius the central alignment study area that was subject to notice.

Nine records (eight former and one current) were returned for ABB Transmissions Pty Ltd (ABB) located on Bapaume Road to the North on the eastern side of the Georges River to the North of the main Moorebank IMT Site Area. Notices have been issued under Section 35 of the Environmentally Hazardous Chemicals (EHC) Act 1985. The notices dated between 1990 and 2013 detailed that the premises are reasonably believed to be affected by chemical contamination including polychlorinated biphenyl (PCB) compounds. The site is subject to an ongoing maintenance order associated with PCB contamination. A copy of the management order is in Appendix F for reference. Based on the geographical location in relation to the Phase 1 study area and separation by the Georges River, it is not considered that ABB constitutes an offsite source of contamination to the central alignment area. Copies of these notices are provided in Appendix F and are available to view via [www.environment.nsw.gov.au](http://www.environment.nsw.gov.au).

### 5.1.3 Dangerous Goods Storage

As the IMT site is occupied by Defence and is Commonwealth Land, a WorkCover search was not undertaken as part of the Phase 1 ESA. Alternatively, dangerous goods listings and the hazardous substances registers from the Defence in-house Chem-Alert database were provided to Parsons Brinckerhoff by Defence for review. The following chemicals were listed to have been stored at the IMT site:

- Flammable liquids – including unleaded petrol, diesel fuel, paints, methylated spirits and mineral turpentine;
- flammable gases – LPG, propane, aerosols associated with cleaning, insect sprays such as fly killer, spray adhesives, oil and lube oil aerosols;
- corrosive substances – batteries, sodium bisulphate and sodium hypochlorite; and
- oxidising substances – calcium hypochlorite.

The HLA report (2005) included a register of underground storage tanks at the IMT site. A review of available information showed that up to six USTs are present (one of which is decommissioned) although the storage details of these are not contained within the Chem-Alert information provided. A summary of the HLA (2005) report findings is provided in section 3.3.6.

The Chem-Alert information that was provided to Parsons Brinckerhoff is provided in Appendix G.

### 5.1.4 Aerial photographs

Available historical aerial photographs dating back to 1930 were reviewed to assess any major changes to the IMT site and surrounding areas over time. The main features noted for the IMT site and surrounding areas in each of the photographs are summarised in Tables 5.3 and 5.4, respectively.

#### Table 5.3 Historical aerial photograph summary

<table>
<thead>
<tr>
<th>Year</th>
<th>Site features</th>
</tr>
</thead>
<tbody>
<tr>
<td>1930</td>
<td>Moorebank Barracks – Mostly undeveloped vacant bushland/grazing land. Moorebank Avenue is visible running north to south. A grid of buildings (possibly sheds) is present in the north-eastern corner. The pond feature in the northern area which is still present at the IMT site is also visible in this area. One small road transects the north of the IMT site from east to west. The rest of the area is characterised by small tracks/pathways. Current site features such as the east to west drainage line and the pond to the south of the drainage line are not present. Steele Barracks – Mostly undeveloped vacant bushland/grazing land with tracks and pathways. There is a square clearing visible in the northern area but no buildings are visible and site disturbance appears to be limited, particularly in the ‘dust bowl’ area which appears to be vegetated.</td>
</tr>
<tr>
<td>1956</td>
<td>Moorebank Barracks - No aerial available Steele Barracks - Significant clearing of land with the current access road layout is visible (Chatham Avenue, Litani, Ripon and Jordon Roads). The Chatham Village appears to be under construction extending north of Litani Road with numerous rectangular buildings visible in the central to western area. The southernmost area appears to be relatively undeveloped with small tracks and clearings visible. The development of Jacquinot Court can be seen. The ‘dust bowl’ area is clearly visible as is a cleared area in the vicinity of the current parade ground. The current playing field to the south of Chatham Avenue is also visible.</td>
</tr>
<tr>
<td>1961</td>
<td>Moorebank Barracks – The Pickles Auction Yard building is clearly visible with much of the north-eastern area populated with warehouse buildings and what appears to be residential barracks. Much of the vegetation in the west (south of the current ABB Facility) appears to have been cleared. The pond to the north of Bapaume Road is clearly visible. Steele Barracks – Not aerial available</td>
</tr>
<tr>
<td>1965</td>
<td>Moorebank Barracks – NSC except the ground surface in the west appears to be more disturbed compared to the previous record. Steele Barracks – Much of the central area is covered by buildings including Chatham Village with structures also visible to the west of the playing fields. The south-east of the IMT site (current golf course area) remains as vacant bushland with the exception on Jacquinot Court buildings. Some land clearance is visible in the south-western area. The ‘dust bowl’ is still clearly visible. A large excavated area is present in the central northern area of Steel Barracks (potentially waste fill area). The STP is visible including the settlement pond and two large circular structures.</td>
</tr>
<tr>
<td>1970</td>
<td>Moorebank Barracks – NSC except the east to west drainage line which currently exists at the IMT site is clearly visible. Steele Barracks – The large excavated area identified in the central area in the 1965 aerial photography is now appears to be grass covered with sparse trees. The current parade ground is visible.</td>
</tr>
<tr>
<td>Year</td>
<td>Site features</td>
</tr>
<tr>
<td>------</td>
<td>---------------</td>
</tr>
</tbody>
</table>
| 1978 | Moorebank Barracks – NSC.  
Steele Barracks – The vegetated area in the south-eastern area of the IMT site has been cleared of vegetation to form the current golf course area. The CE store appears to be under construction. |
| 1986 | Moorebank Barracks – NSC except some additional buildings and merging of buildings plus the current pond near the eastern boundary between Bapaume and Litani Roads is visible.  
Steele Barracks – No aerial available. |
| 1994 | Moorebank Barracks – NSC except some additional buildings and merging of buildings.  
Steele Barracks – The Chatham Village has been demolished and now exists as a grassed area with sparse trees. Additional barracks and administrative buildings are present the east and north of Ripon and Jordan Roads, layout is much like the current site layout. Current surface water features present in the golf course area similar to present day are visible. |
| Current | Moorebank Barracks – NSC except, the buildings in the far north-east of the IMT site have been removed and exist as grassed area with sparse trees. Vegetated areas have become denser.  
Steele Barracks – NSC. |

NSC: no significant change from previous record.

### Table 5.4  
**Historical aerial photograph summary, surrounding land use**

<table>
<thead>
<tr>
<th>Year</th>
<th>Surrounds</th>
</tr>
</thead>
</table>
| 1930 | North – Farmland with some small buildings. ABB land is vacant.  
South – Undeveloped vacant bushland (no railway infrastructure visible).  
East – Twelve large rectangular buildings are visible in the north of the current DNSDC with the rest of this area as native bushland.  
West – Georges River which appears to be more meandering than present day and vacant land/farmland with gullies/tributaries visible. The current Glenfield waste Services (GWS) landfill appears to be farmland. A clearing along the Liverpool to Holsworthy track is visible but not track appears to be present. |
| 1956 | North – No aerial available.  
South – Some rectangular clearings immediately south of the IMT site with vacant bushland and Cambridge Avenue beyond.  
East – DNSDC buildings reminiscent of present day layout.  
West – Vacant land with residential land use beyond, residential road networks developing, Liverpool to Holsworthy Rail line visible. |
| 1961 | North – No ABB facility or motorway present although some industrial development and residential development is visible beyond towards the north-east.  
South – No aerial available.  
East – DNSDC buildings reminiscent of present day layout.  
West – Vacant land with Initial stages of residential land use with road networks developing beyond. Liverpool to Holsworthy Rail line visible. A number of surface water ponds/tributaries are also noted on the western bank of the Georges River. |
| 1965 | North – NSC.  
South – Vacant bushland with some vegetation clearance/cutting visible immediately south of the IMT site in the vicinity of the current East Hills Line.  
East – NSC.  
West – Some quarrying activity is visible in the GWS area vacant land with increased residential development beyond. |
| 1970 | North – Large industrial building under construction visible on current ABB land with industrial buildings beyond.  
South – Vacant bushland with some vegetation clearance/cutting visible immediately south of the IMT site in the vicinity of the current East Hills Line.  
East – DNSDC buildings reminiscent of present day layout.  
West – The previously quarried area appears to be filled with water. Vacant land with increased residential development beyond. |
5.1.5 Summary of historical land use

From the historical land use records reviewed, the IMT site has been used by Defence since the 1940s with various construction, demolition and excavation evident across the IMT site over time.

Residential and industrial developments have gradually increased in the area since the 1970s with transport infrastructure increasing since the 1970s with the construction of the M5 Motorway to the north, the East Hills line to the south and the Liverpool to Holsworthy Line to the west. The DNSDC has been present since the early 1950s. Areas surrounding the IMT site can be generally characterised by industrial land with residential land use beyond.

5.1.6 Site inspection

The IMT site was inspected on 21 October 2010 by Parsons Brinckerhoff engineers and environmental scientists from the Contaminated Land Management Team accompanied by Captain Brendan Sullivan and Senior Environmental Officer Robert Kolano from the Defence Support Group.

The purpose of the site walkover and visual assessment of the IMT site and the immediate surrounding area was to observe the current condition, confirm the potential contaminant source areas and verify sensitive receptors in the near vicinity of the IMT site (e.g. surface water bodies, drinking water bores etc.). The site walkover targeted the following areas:

- past site infrastructure including past chemical storage areas and possible underground services or storage tanks (if any);
- areas visually impacted by contamination including the presence of asbestos containing materials (ACMs) and areas of imported fill; and
- surrounding land uses that may have the potential to cause contamination impacts to the IMT site.
During the walkover it was possible to locate some of the monitoring wells that were drilled as part of the previous environmental investigation works at the IMT site.

A number of past and present land uses were identified during the site walkover with the potential to have caused contamination. These are detailed in the following section.

Photographs depicting the current site conditions are presented in Appendix I.
6. Potential for contamination

Based on the review of background information, a number of potential past and present sources of contamination have been identified which have the potential to impact soil and/or groundwater at the IMT site.

The areas of environmental concern and associated contaminants of potential concern (CoPC) are summarized below in Table 6.1. The areas of potential concern that have been identified may present environmental constraints to the development of the IMT site depending on the final project design. A matrix describing each area in more detail is provided in Appendix J.

Based on currently available site information, the areas of environmental concern identified have been ranked as follows:

- low risk areas (green) – characterised by administrative/residential buildings including officer’s mess, military museum, library, parade ground, sports grounds and the golf course;
- medium risk areas (amber) – considered to be areas of known or suspected waste fill, drainage lines and engineering stores currently or historically used for hazardous chemical storage and portions of the IMT site associated with munitions (including bomb disposal, fire training and practice mine field areas); and
- high risk areas (red) – characterised by fuel storage/use (including known and suspected USTs), and areas of plant and vehicle storage and maintenance.

These risked ranked areas are shown in Figure 5.
<table>
<thead>
<tr>
<th>Area</th>
<th>Investigation area</th>
<th>Details</th>
<th>CoPC</th>
<th>Risk rank</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>ABB Power Transmissions boundary area</td>
<td>Eight notices have been identified for the ABB facility via contaminated land public registers that state that the ABB premises are contaminated by chemical wastes including PCBs.</td>
<td>TPH, BTEX, PAH, SVOCs, VOCs metals, PCBs.</td>
<td>High</td>
</tr>
<tr>
<td>2</td>
<td>Vehicle storage/maintenance area (former Pickles auction house)</td>
<td>Potential contamination of soil/groundwater associated with vehicle and plant maintenance/storage. A vehicle wash bay and associated drainage pit exists in the area. A non-operational UST is also present in the north-west corner of this area.</td>
<td>TPH, BTEX VOC, PAHs</td>
<td>High</td>
</tr>
<tr>
<td>3</td>
<td>Drainage line outflow</td>
<td>Potential area of buried demolition wastes containing asbestos in the vicinity of the drainage line outlet. Possible PCB and DCE contamination from up gradient drainage pathways.</td>
<td>Asbestos, TPH, Metals, PCBs, TCE, DCE</td>
<td>Medium</td>
</tr>
<tr>
<td>4</td>
<td>Former sewage treatment plant (STP)</td>
<td>Stockpiles of demolition rubble overgrown by grass associated with the demolished STP with two depressions suspected of being sewage sludge disposal pits are present that now contain water.</td>
<td>Metals and asbestos</td>
<td>Medium</td>
</tr>
<tr>
<td>5</td>
<td>Bomb disposal training area</td>
<td>Bomb shells are buried in this area for the purpose of training soldiers. Although ordnance removal occurs after training exercises this process has not been fully documented historically so explosive ordnance waste (EOW) may be present in this area.</td>
<td>Waste fill, metals and UXO</td>
<td>Medium</td>
</tr>
<tr>
<td>6</td>
<td>Dog agility training area</td>
<td>This is in the vicinity of the former Lake Sisinyak which has been partially filled. Anecdotally, auger holes/disposal pits have historically been used for the disposal of medical supplies but no evidence of this has been found in previous studies. Buried fill, and ACM may be present in this area.</td>
<td>Asbestos, metals and UXO</td>
<td>Medium</td>
</tr>
<tr>
<td>7</td>
<td>Bunded explosives magazine</td>
<td>Bund wall may contain imported fill material</td>
<td>Metals, asbestos and UXO</td>
<td>Low</td>
</tr>
<tr>
<td>8</td>
<td>Bridging yard</td>
<td>A grit blasting and spray painting facility exists in this area as well as an historical disposal pit consisting of a 2m deep trench that is understood to have been filled with general waste during the 1970s. The area is currently used for plant storage and bridging training.</td>
<td>TPH, Metals, BTEX, PAH, VOC and asbestos</td>
<td>Medium</td>
</tr>
<tr>
<td>9</td>
<td>Fuel/oil storage area (within bridging yard)</td>
<td>Unbunded storage of fuels, lube oils and degreasers was observed during Parsons Brinckerhoff site walkover. One operational UST is present.</td>
<td>TPH, BTEX, PAH, Pb and potential ACM in underlying fill</td>
<td>High</td>
</tr>
<tr>
<td>10</td>
<td>Museum storage yard</td>
<td>Outside area used for the storage, repair and restoration of historical military vehicles and equipment with some contained storage of oils, lubricants and paints.</td>
<td>TPH, Metals, BTEX and PAH.</td>
<td>Low</td>
</tr>
<tr>
<td>Area</td>
<td>Investigation area</td>
<td>Details</td>
<td>CoPC</td>
<td>Risk rank</td>
</tr>
<tr>
<td>------</td>
<td>-------------------</td>
<td>---------</td>
<td>------</td>
<td>-----------</td>
</tr>
<tr>
<td>11</td>
<td>Bomb demonstration, 'dust bowl' and former fire training areas</td>
<td>Historical fill potentially present in this area. Current operations involve earth moving training using heavy plant and machinery. Following a site inspection in May 2014, This area is now barricaded off asbestos warning signage displayed.</td>
<td>TPH, PAH, Metals, asbestos and AFFF</td>
<td>Medium</td>
</tr>
<tr>
<td>12</td>
<td>Maintenance workshop and vehicle wash bay (within PRA yard)</td>
<td>Four wash bays exist in this area with a sediment trap and oil/water separator.</td>
<td>TPH, anionic surfactants, PAHs, VHCs and metals</td>
<td>Medium</td>
</tr>
<tr>
<td>13</td>
<td>Plants, roads and air fields yard (PRA) (including diesel UST and bowser)</td>
<td>This area is used for the maintenance and refuelling of all plant and equipment used at the Steele Barracks. There is a single bowser with one 22 kL diesel UST, three other USTs (waste oil) and one operational AST.</td>
<td>TPH, BTEX, PAH and metals</td>
<td>High</td>
</tr>
<tr>
<td>14</td>
<td>Former Chatham Village</td>
<td>An historical asbestos dump is believed to be present in the former footprint of Chatham Village which was demolished in the early 1990s.</td>
<td>Asbestos, PAHs and metals</td>
<td>Medium</td>
</tr>
<tr>
<td>15</td>
<td>Field engineering store</td>
<td>Hardstand area used for the storage of metal sheeting, containers and structural metal objects.</td>
<td>Metals</td>
<td>Low</td>
</tr>
<tr>
<td>16</td>
<td>Former NBC store/bunker/HQ</td>
<td>Various chemical have been stored in this area previously. Based on previous information, radioactive materials have not been stored here since 1990 and in a surface radiological survey undertaken in 2006 no radioactive sources or contaminants were found.</td>
<td>VOC, SVOC and formaldehyde, Metals</td>
<td>Low</td>
</tr>
<tr>
<td>17</td>
<td>Practice mine field and bomb disposal area</td>
<td>This area is used as a practice mine area where plastic mines that release smoke or dye are triggered. Anecdotal evidence suggests bomb shells may also be present in this area.</td>
<td>Metals and explosives</td>
<td>Medium</td>
</tr>
<tr>
<td>18</td>
<td>Former Jacquinot court (now training area)</td>
<td>Formerly the married quarters of the SME, the area is currently used for training exercises. There are two old buildings with ACM. No active explosives are used in this area.</td>
<td>Asbestos and metals</td>
<td>Medium</td>
</tr>
<tr>
<td>19</td>
<td>Golf course</td>
<td>No previous investigations undertaken in this area.</td>
<td>Metals, TPH, BTEX, VOC, PAHs</td>
<td>Low</td>
</tr>
<tr>
<td>20</td>
<td>Former fire training area</td>
<td>Area was historically used to establish fires fuelled by various hydrocarbon ignition sources in car bodies, pans or above ground storage tanks for firefighting training. Since cessation of this training, it is understood that the top 1 m of soil has been removed and replaced with imported fill. The area is currently grassed with sparse trees.</td>
<td>TPH, PAH, metals, AFFF and anionic surfactants</td>
<td>High</td>
</tr>
<tr>
<td>21</td>
<td>Small arms range</td>
<td>Area used for general training purposes including the firing of blank bullets although there is the potential that live rounds may have been used historically.</td>
<td>TPH, BTEX, VOC, PAH, anionic surfactants and metals</td>
<td>High</td>
</tr>
<tr>
<td>Area</td>
<td>Investigation area</td>
<td>Details</td>
<td>CoPC</td>
<td>Risk rank</td>
</tr>
<tr>
<td>------</td>
<td>--------------------</td>
<td>---------</td>
<td>------</td>
<td>-----------</td>
</tr>
<tr>
<td>22</td>
<td>Combat engineering store</td>
<td>Currently understood that water purification chemicals and equipment are stored here. Historically, two bunded storage sheds were used for the storage of oils and fuels with anecdotal information suggesting that a number of spills had occurred in this area in the past.</td>
<td>Metals, TPH, BTEX, PAH, SVOCs and formaldehyde</td>
<td>Medium</td>
</tr>
<tr>
<td>23</td>
<td>Parade ground</td>
<td>Deemed to be a low risk area based on current and historical land use.</td>
<td>Metals, PAH and asbestos</td>
<td>Low</td>
</tr>
<tr>
<td>24</td>
<td>Military museum</td>
<td>Deemed to be a low risk area based on current and historical land use.</td>
<td>Metals, TPH, BTEX, VOC, PAHs</td>
<td>Low</td>
</tr>
<tr>
<td>25</td>
<td>Administration and accommodation</td>
<td>Deemed to be a low risk area based on current and historical land use.</td>
<td>Metals, PAH and asbestos</td>
<td>Low</td>
</tr>
<tr>
<td>26</td>
<td>Playing fields</td>
<td>Deemed to be a low risk area based on current and historical land use.</td>
<td>Metals, PAH and asbestos</td>
<td>Low</td>
</tr>
<tr>
<td>27</td>
<td>Non-operational UST</td>
<td>No information regarding the size or the contents of the UST was forthcoming.</td>
<td>Metals, TPH, BTEX and PAH</td>
<td>High</td>
</tr>
<tr>
<td>28</td>
<td>Pre-existing buildings, north-east corner</td>
<td>From historical aerial photographs, the area appears to be historically used as barracks. None of the infrastructure observed in the historical photograph is present today.</td>
<td>Asbestos and metals</td>
<td>Medium</td>
</tr>
</tbody>
</table>

CoPC - contaminants of potential concern.
Metals including arsenic, cadmium, copper, chromium, lead, mercury, nickel and zinc.
PAHs - polycyclic aromatic hydrocarbons.
TPH - Total petroleum hydrocarbons.
BTEX - benzene, toluene, ethylbenzene and xylenes.
PCBs - polychlorinated biphenyls.
Nutrients - ammonia, nitrate, nitrite, Total Kjeldahl Nitrogen (TKN) and phosphate.
AFFF - aqueous film forming foams.
OCP - organochlorine pesticides.
OPP - organophosphate Pesticides.
UXO - unexploded ordinance.
EOW - explosive ordnance wastes.
7. Conceptual site model

7.1 Geology summary

Based on geological maps of the areas, the underlying geology consists of silts, sands and clays underlain by shales of the Wianamatta group which are typically black to dark grey shales and laminates from the Triassic period. Hawkesbury Sandstone is shown to be present in the north-western area of the IMT site near to the western bank of the Georges River.

7.1.1 Potential onsite sources of contamination

Potential onsite sources include:

- buried wastes and waste stockpiles;
- leaks from the storage/use of hazardous chemicals such as fuels and waste oils;
- imported fill;
- building materials containing hazardous materials such as asbestos;
- residual contamination from former site uses such as hazardous material storage and buried ordnance; and
- contamination from ongoing site operations including the use of heavy earth moving machinery in the dust bowl area, bridging yard and fire fighting related training activities.

7.1.2 Potential Pathways

The anticipated primary transport media for migration of contaminants at this site include:

- leaching and migration of contaminants laterally and/or vertically into underlying groundwater systems and migration/ seepage into the Georges River;
- surface water flow to the Georges River and Anzac Creek;
- lateral migration of contaminated water through preferential pathways such as drainage lines or geological features to surface water receptors;
- direct contact with soils (dermal contact, ingestion and inhalation) by construction/utility workers, site users and future land owners;
- direct contact with surface water or groundwater via pumping to other areas of the IMT site or the identified registered bores by on and offsite site users and future land owners;
- migration of airborne dust via dermal contact, ingestion and inhalation by on and offsite site users and future land owners; and
- vapour migration from soil or groundwater via inhalation by on and offsite site construction/utility workers, site users and future land owners.
7.1.3 Potential receptors

Anticipated receptors for potential contaminants include:

- surface waters on and adjacent to the IMT site (onsite ponds, Georges River and Anzac Creek);
- groundwater beneath the IMT site;
- current and future site users and utility/construction personnel undertaking works at and in the vicinity of the IMT site; and
- potential downstream recreational users of the Georges River.

A schematic site conceptual model showing potential contaminant sources, pathways and receptors is provided in Figure 7.

7.1.4 Potential offsite sources of contamination

A review of available information and the walkover identified three potentially polluting operations in the near vicinity of the IMT site.

7.1.4.1 ABB Transmissions Pty Ltd

ABB Transmissions Pty Ltd (ABB) is located in the north-west corner of Moorebank Barracks on the eastern bank of the Georges River. An online search of the NSW DECCW contaminated land record database returned eight notice records (three former and five current) for ABB facility located immediately to the north of the IMT site. Notices detailed that chemical wastes including polychlorinated biphenyl (PCB) contamination was considered to be present at the premises.

7.1.4.2 Glenfield Waste Services

Glenfield Waste Services (GWS) is an active landfill and waste transfer facility located to the south-west of the Steele Barracks on the western bank of the Georges River. Although it is separated from the study area by the Georges River, such a land use would have the potential to cause contamination due to groundwater flow toward the Georges River which flows north along the western side of the IMT site.

Due to the nature of the current and historical land use it is considered that the environmental risks associated with future development over the landfill are likely to be high, as construction methods (such as piling) may undermine the environmental and geotechnical integrity of the engineered landfill capping and lining layers (if present). Any damage to engineered landfill barriers would potentially present an environmental risk by creating a preferential pathway for potentially contaminated leachate and groundwater from the landfill to enter underlying groundwater and the Georges River.

7.1.4.3 Defence National Support and Distribution Centre

Considering the industrial nature of the land to the west and the known presence of underground fuel storage areas within the Defence National Support and Distribution Centre (DNSDC) site, it is considered that there may be potential for contamination from the DNSDC to enter the IMT site through groundwater and surface water migration or through preferential pathways.
Based on the HLA report ‘Soil and Groundwater Investigation Precinct H (DNSDC) Moorebank Defence Land’ (November 2002), impacts have previously been identified in groundwater directly up gradient of the IMT site, in particular total petroleum hydrocarbons (TPH), benzene, toluene, ethyl benzene and xylene (BTEX) compounds and elevated dissolved heavy metals (including cadmium, copper, zinc, nickel and lead). The most elevated TPH concentrations were reported in groundwater sampled from monitoring wells located in the south-western area of the DNSDC along the western site boundary. This is in close proximity to the refuelling area where USTs are present.

Based on the westerly inferred groundwater flow direction, the likely relatively high hydraulic conductivity of the sandy clay geology encountered and the known mobility of the contaminants identified in groundwater at the DNSDC site during the HLA 2002 investigation, there is the potential for migration of contaminants from the DNSDC site towards the IMT site. Groundwater monitoring as part of Phase 2 works is likely to be recommended in order to provide additional data to assess whether onsite migration of identified contaminants from the offsite source is likely to be occurring.
8. Data gaps

Based on a review of the currently available site environmental reports, several data gaps were identified. Further intrusive investigations are recommended to address these data gaps and to determine the measures necessary to complete the site evaluation.

8.1.1 Underground storage of fuels and waste oils

The review of previous investigations identified five active underground storage tanks (USTs) and one decommissioned UST present on the IMT site that have been estimated to be over 20 years old (details are provided in section 3.3.6). Only the diesel UST and an associated bowser were observed by Parsons Brinckerhoff during the site walk over.

Soil sampling and analysis and installation of groundwater monitoring wells and groundwater sampling and analysis would be recommended near these tanks to assess potential soil and/or groundwater contamination impacts.

A survey using metal detection and/or ground penetrating radar (GPR) techniques may be required to establish the exact locations of the USTs as part of the Phase 2 works.

8.1.2 Waste fill

There is the potential for areas of fill to be present in areas of the IMT site that have not been assessed as part of previous investigations. It is recommended that these areas be investigated to establish the presence or absence of fill materials where spatial data gaps currently exist. As well as potential contamination issues, waste fill may have implications concerning geotechnical suitability of the IMT site for development and/or for offsite disposal of excavated materials (dependant on the final design).

8.1.3 General site coverage

Previous environmental investigations focussed on areas where known historical or current activities had the potential to cause contamination. There is the potential for contamination to exist in other areas of the IMT site.

8.1.4 Potential impacts from offsite contaminant sources

Based on previous investigations, groundwater flow is inferred to be towards to west in the direction of the Georges River. Considering the industrial nature of the land to the west and the known presence of fuel storage in the south of the DSNDC site, additional well installation and sub-surface investigation along the eastern boundary of the study area is recommended. The purpose of this is to establish baseline contaminant data at the eastern site boundary and to identify any potential contamination entering the IMT site via groundwater migration from the industrial area to the west.
8.1.5 Trichloroethene contamination in groundwater

Previous studies of Defence owned land in the north-west of the IMT site have showed trichloroethene (TCE), Cis1, 2 dichloroethene (DCE) and elevated metals to be present in groundwater. As the most recent available data is from 2006, further groundwater sampling is recommended in this area to establish the current status of TCE contamination previously identified. This will provide additional data on which to assess the environmental and human health risks (if any) and associated remediation/management decisions.

8.1.6 Potential impacts in the rail access options

At the time of preparing this Phase 1 ESA, three rail access options were being considered. The Phase 1 ESA undertaken for each option (Appendices J to L) indicated that there is limited potential for contamination to exist in the northern and central rail access options. The historical and ongoing use of the southern rail access option as a waste disposal facility indicated that there is high potential for contamination to exist. Furthermore, because of the presence of the waste disposal facility in the southern area and the inferred north-easterly groundwater flow direction, Parsons Brinckerhoff considered that it is necessary to gather data on soil and groundwater quality so that construction design, management and/or remediation options can be evaluated prior to any development.
9. Conclusions

MIC commissioned Parsons Brinckerhoff to undertake a Phase 1 ESA for the Commonwealth land occupied by the Department of Defence located adjacent to Moorebank Avenue, Moorebank NSW (the IMT site), and three areas to the west of the IMT site and across Georges River. One of these three parcels of land will be the access point connecting rail link from the IMT site to the SSFL.

The Phase 1 ESA was completed to identify the potential contamination issues present at the IMT site with the purpose of assessing the environmental feasibility of the proposed use as an IMT.

The scope of work included a review of aerial photographs, council records, public registers, geological and hydrological information and previous reports containing environmental information pertaining to the IMT site provided by Defence, a site inspection and the preparation of this Phase 1 ESA report.

The IMT site is roughly rectangular in shape covering a total area of approximately 220 ha and is currently used by Defence. The study area for the Phase 1 ESA includes the Moorebank Barracks and the Steele Barracks.

The IMT site surface is generally flat and is underlain by alluvial sands, silts and clays overlying shale and sandstone. Based on the findings of previous investigations, it is inferred that groundwater flow is towards the west in the direction of the Georges River which flows northwards along western boundary of the study area. The M5 motorway runs east to west to the north of the IMT site.

Based on a review of aerial photographs, the IMT site has been used for Defence purposes since the 1940s. The surrounding area has evolved from predominantly vacant bushland in 1970s to being developed for residential, commercial and industrial purposes to the present day.

Based on known historical and current site uses and previous investigation data, the key contaminants of potential concern identified include total petroleum hydrocarbons (TPH), BTEX compounds (benzene, toluene, ethylbenzene and xylene), polycyclic aromatic hydrocarbons (PAHs) heavy metals, polychlorinated biphenyls (PCBs), trichloroethene (TCE), volatile organic compounds (VOCs), asbestos and compounds associated with unexploded ordinance/munitions and fire fighting foams.

On site contamination is considered to be associated with the following sources:

- buried wastes and waste stockpiles including asbestos containing materials (ACM) and imported fill;
- leaks from the storage/use of fuels and waste oils and hazardous chemicals;
- presence of building materials containing asbestos;
- residual contamination from buried munitions and practice ordnance;
- off-site contaminant sources which have migrated onsite through groundwater; and
- ongoing site operations including the use of heavy earth moving machinery in the dust bowl training area, bridging yard and firefighting related training activities.

Potential pathways and receptors are considered to include:

- leaching and migration of contaminants horizontally and/or vertically into underlying groundwater and migration/into the Georges River;
- surface water flow/lateral migration of contaminated water through preferential pathways to the Georges River;
- direct contact with soils, surface water or groundwater (dermal contact, ingestion and inhalation) by construction/utility workers, site users and future land users;
- direct contact with surface water or groundwater (dermal contact, ingestion and inhalation) via pumping to other areas of the IMT site or through registered domestic bores that have been identified offsite;
- migration of airborne dust to on and offsite receptors via dermal contact, ingestion and inhalation;
- vapour migration from soil or groundwater to onsite and offsite users/workers via inhalation; and
- Georges River via groundwater and surface water migration and downstream migration to ecologically sensitive receptors and recreational users downstream.

A Phase 1 review of the three rail alignment options for the IMT concluded there is limited potential for contamination to exist in the northern and central rail access options. However, due to the landfill located to the south and the inferred north-easterly groundwater flow direction; there may be the potential for contamination from offsite to have migrated to these areas through groundwater flow.

In addition, for the northern rail access option, there is the potential for buried waste and tipped waste (potentially including ACM) and imported fill to be present and potential impacts from dispersed aerial deposition of contaminants from the roadway. Historical land use associated with former Casula Power Station and deposition of potential contaminant via stormwater drainage from the adjacent road, may be another potential source of contamination within the northern rail access option.

### 9.1 Recommendations

- Previous investigations have identified that localised areas of contamination are present at the IMT site including localised asbestos impacted fill, TPH, TCE and heavy metals impacts in soil and groundwater.
- Based on a review of the available environmental information pertaining to the IMT site, it is considered that it would be feasible to develop the land for an industrial end use as an IMT, however some remediation and site management is likely to be required to address the onsite contamination issues previously identified.
- In order to further quantify the extent and nature of the identified contamination, it is recommended that additional intrusive soil and groundwater investigation works be undertaken to augment the existing site data and to reduce the spatial data gaps identified during the Phase 1 ESA.
- The objective of additional intrusive works would be to collect sufficient information to undertake a more robust assessment of the suitability of the IMT site for redevelopment for industrial end use. With this additional data, a more accurate assessment of the likely environmental management and remediation measures necessary to render the IMT site suitable for the proposed IMT development can be undertaken.
- Undertake targeted soil and groundwater investigation at the selected rail access option to establish soil and groundwater quality so that construction design, management and/or remediation options can be evaluated prior to any development of the IMT site.
10. Limitations

Scope of services

This environmental site assessment report (the report) has been prepared in accordance with the scope of services set out in the contract, or as otherwise agreed, between the client and Parsons Brinckerhoff (scope of services). In some circumstances the scope of services may have been limited by a range of factors such as time, budget, access and/or site disturbance constraints.

Reliance on data

In preparing the report, Parsons Brinckerhoff has relied upon data, surveys, analyses, designs, plans and other information provided by the client and other individuals and organisations, most of which are referred to in the report (the data). Except as otherwise stated in the report, Parsons Brinckerhoff has not verified the accuracy or completeness of the data. To the extent that the statements, opinions, facts, information, conclusions and/or recommendations in the report (conclusions) are based in whole or part on the data, those conclusions are contingent upon the accuracy and completeness of the data. Parsons Brinckerhoff will not be liable in relation to incorrect conclusions should any data, information or condition be incorrect or have been concealed, withheld, misrepresented or otherwise not fully disclosed to Parsons Brinckerhoff.

Environmental conclusions

In accordance with the scope of services, Parsons Brinckerhoff has relied upon the data and has not conducted any environmental field monitoring or testing in the preparation of the report. The conclusions are based upon the data and visual observations and are therefore merely indicative of the environmental condition of the IMT site at the time of preparing the report, including the presence or otherwise of contaminants or emissions.

Within the limitations imposed by the scope of services, the assessment of the IMT site and preparation of this report have been undertaken and performed in a professional manner, in accordance with generally accepted practices and using a degree of skill and care ordinarily exercised by reputable environmental consultants under similar circumstances. No other warranty, expressed or implied, is made.

Report for benefit of client

The report has been prepared for the benefit of the client (MIC) and no other party. Parsons Brinckerhoff assumes no responsibility and will not be liable to any other person or organisation for or in relation to any matter dealt with or conclusions expressed in the report, or for any loss or damage suffered by any other person or organisation arising from matters dealt with or conclusions expressed in the report (including without limitation matters arising from any negligent act or omission of Parsons Brinckerhoff or for any loss or damage suffered by any other party in relying upon the matters dealt with or conclusions expressed in the report). Other parties should not rely upon the report or the accuracy or completeness of any conclusions and should make their own enquiries and obtain independent advice in relation to such matters.
Other limitations

Parsons Brinckerhoff will not be liable to update or revise the report to take into account any events, emergent circumstances or facts occurring or becoming apparent after the date of the report.

The scope of services did not include any assessment of the title to nor ownership of the properties, buildings and structures referred to in the report, nor the application or interpretation of laws in the jurisdiction in which those properties, buildings and structures are located.
11. References


Egis Consulting Australia (2000), Stage 1 Preliminary Site Investigation, Moorebank Defence Site, NSW (Reference VA0334.001, 4 August 2000).


Parsons Brinckerhoff (2014) Phase 1 Environmental Site Assessment, Moorebank Intermodal Terminal - Northern Rail Access Option (Lot 10 DP 881265), Moorebank, NSW. (Report reference 2189293E-CLM-REP-6053 RevC).

Parsons Brinckerhoff (2014), Phase 1 Environmental Site Assessment, Moorebank Intermodal Terminal - Central Rail Access Option (Lot 4 DP 1130937), Moorebank, NSW. (Report reference 22189293E-CLM-RPT-0727 RevA).

Parsons Brinckerhoff (2014), Phase 1 Environmental Site Assessment, Moorebank Intermodal Terminal - Southern Rail Access Option (Lot 5 DP 833516, Lot 51 DP 515696, Lot 52, DP 517310 and Lots 103 & 104 DP1143827), Moorebank, NSW (Report reference 2189293E-CLM-RPT-0729 RevA).

Appendix A
Figures
Figure 1: Site location plan
Figure 3: Previous investigation locations
Figure 4: Areas of potential concern
**Figure 5: Contaminated land potential risk areas**

- **Low risk**: Characterised by administrative/residential buildings including officer’s mess, military museum, library, parade ground, sports grounds and the golf course.
- **Medium risk**: Considered to be areas of known or suspected waste fill, drainage lines and engineering stores (currently or historically used for hazardous chemical storage) and portions of the site associated with munitions (including bomb disposal and practice mine fields). Area.
- **High risk**: Characterised by fuel storage/use (including known and suspected USTs), and areas of plant and vehicle storage and maintenance, fire training areas and/or areas known to be contaminated based on previous investigations.

---

**NOTE**:

- Low risk: Characterised by administrative/residential buildings including officer’s mess, military museum, library, parade ground, sports grounds and the golf course.
- Medium risk: Considered to be areas of known or suspected waste fill, drainage lines and engineering stores (currently or historically used for hazardous chemical storage) and portions of the site associated with munitions (including bomb disposal and practice mine fields).
- High risk: Characterised by fuel storage/use (including known and suspected USTs), and areas of plant and vehicle storage and maintenance, fire training areas and/or areas known to be contaminated based on previous investigations.

---

**LABEL TYPE**

1. ABB boundary area
2. Vehicle & storage maintenance area
3. Drainage line network
4. Former Sewage Treatment Plant (STP)
5. Bomb disposal training area
6. Dog training area
7. Bandaged explosives magazine
8. Bridging yard
9. Fuel/oil storage area
10. Museum storage pent
11. Bomb demonstration area, dust bowl & former fire training area
12. Vehicle waste bay and associated Oil/ water interceptor & maintenance workshop
13. Plants, native & air fields pent (PRA) including rail line area with Diesel GST & lower
14. Former Chatham village
15. Field engineering store
16. MDG store / bunker/ RG
17. Practice mine field & bomb disposal
18. Former racquet court
19. Golf course
20. Former fire training area
21. Small arms range
22. Combat engineering store
23. Parade ground
24. Military museum
25. Administration & accommodation
26. Playing fields
27. Non operational GST
28. Pre-existing buildings in North western corner

---

**Risk Ranking**

- **Low**: Characterised by administrative/residential buildings including officer’s mess, military museum, library, parade ground, sports grounds and the golf course.
- **Medium**: Considered to be areas of known or suspected waste fill, drainage lines and engineering stores (currently or historically used for hazardous chemical storage) and portions of the site associated with munitions (including bomb disposal and practice mine fields).
- **High**: Characterised by fuel storage/use (including known and suspected USTs), and areas of plant and vehicle storage and maintenance, fire training areas and/or areas known to be contaminated based on previous investigations.

---
Appendix B

Acid sulfate soils risk map (ASRIS)
ASS Risk Map (ASRIS) – Moorebank (Appendix I)
Appendix C

NSW Water information - registered groundwater bore search
Moorebank Bores


Monday, October 11, 2010

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Topographic base map
## Groundwater Works Summary

For information on the meaning of fields please see [Glossary](#).

Document Generated on Monday, October 11, 2010

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### Work Requested -- GW016682

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PARISH: HOLSWORTHY
PORTION-LOT-DP: 56

Licensed

COUNTY: CUMBERLAND
PARISH: HOLSWORTHY
PORTION-LOT-DP: 59 752034

Construction

Negative depths indicate Above Ground Level; H-Hole; P-Pipe; OD-Outside Diameter; ID-Inside Diameter; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity

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Drillers Log

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Warning To Clients: This raw data has been supplied to the Department of Infrastructure, Planning and Natural Resources (DIPNR) by drillers, licensees and other sources. The DIPNR does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.
Groundwater Works Summary

For information on the meaning of fields please see Glossary

Document Generated on Monday, October 11, 2010

Work Requested -- GW110394

Works Details (top)

GROUNDWATER NUMBER  GW110394
LIC-NUM  10BL165522
AUTHORISED-PURPOSES  MONITORING BORE
INTENDED-PURPOSES  MONITORING BORE
WORK-TYPE  Well
WORK-STATUS  
CONSTRUCTION-METHOD  Auger - Solid Flight
OWNER-TYPE  Private
COMMENCE-DATE  2005-09-06
COMPLETION-DATE  2005-09-06
FINAL-DEPTH (metres)  10.00
DRILLED-DEPTH (metres)  10.00
CONTRACTOR-NAME  
DRILLER-NAME  
PROPERTY  A B B AUSTRALIA
GWMA  -
GW-ZONE  -
STANDING-WATER-LEVEL  9.40
SALINITY  
YIELD  

Site Details (top)

REGION  10 - SYDNEY SOUTH COAST
RIVER-BASIN  
AREA-DISTRICT  
CMA-MAP  
GRID-ZONE  
SCALE  
ELEVATION  
ELEVATION-SOURCE  
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EASTING  307802.00
LATITUDE  33 56' 29"
LONGITUDE  150 55' 13"
GS-MAP  


10/11/2010
Form-A (top)

COUNTY CUMBERLAND
PARISH HOLSWORTHY
PORTION-LOT-DP 2/32998

Licensed (top)

COUNTY CUMBERLAND
PARISH HOLSWORTHY
PORTION-LOT-DP 2 32998

Construction (top)

Negative depths indicate Above Ground Level; H-Hole; P-Pipe; OD-Outside Diameter; ID-Inside Diameter; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity

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Drillers Log (top)

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Warning To Clients: This raw data has been supplied to the Department of Infrastructure, Planning and Natural Resources (DIPNR) by drillers, licensees and other sources. The DIPNR does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

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Groundwater Works Summary

For information on the meaning of fields please see Glossary
Document Generated on Monday, October 11, 2010

Works Details (top)

GROUNDWATER NUMBER  GW110393
LIC-NUM  10BL165522
AUTHORISED-PURPOSES  MONITORING BORE
INTENDED-PURPOSES  MONITORING BORE
WORK-TYPE  Well
WORK-STATUS
CONSTRUCTION-METHOD  Auger - Solid Flight
OWNER-TYPE  Private
COMMENCE-DATE
COMPLETION-DATE  2005-09-05
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DRILLED-DEPTH (metres)  9.00
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DRILLER-NAME
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GWMA  -
GW-ZONE  -
STANDING-WATER-LEVEL  7.80
SALINITY
YIELD

Site Details (top)

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AREA-DISTRICT
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GRID-ZONE
SCALE
ELEVATION
ELEVATION-SOURCE
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EASTING  307931.00
LATITUDE  33 56' 26"
LONGITUDE  150 55' 18"
GS-MAP
Form-A

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 PARISH: HOLSWORTHY  
 PORTION-LOT-DP: 2/32998

Licensed  

 COUNTY: CUMBERLAND  
 PARISH: HOLSWORTHY  
 PORTION-LOT-DP: 2 32998

Construction

Negative depths indicate Above Ground Level; H-Hole; P-Pipe; OD-Outside Diameter; ID-Inside Diameter; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity

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<th>ID (mm)</th>
<th>INTERVAL DETAIL</th>
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<td>Auger - Solid Flight Screwed; Seated on Bottom PVC Class 18; A: .4mm; Screwed Graded; GS: 1-2mm</td>
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<tr>
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<td>1</td>
<td>Casing</td>
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<td>PVC Class 18</td>
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<tr>
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<td>1</td>
<td>Opening</td>
<td></td>
<td>Screen</td>
<td>6.00</td>
<td>9.00</td>
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<tr>
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<td></td>
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<td>Waterworn/Rounded</td>
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</table>

Water Bearing Zones

<table>
<thead>
<tr>
<th>FROM-DEPTH (metres)</th>
<th>TO-DEPTH (metres)</th>
<th>THICKNESS (metres)</th>
<th>ROCK-CAT-DESC</th>
<th>S-W-L</th>
<th>D-D-L</th>
<th>YIELD</th>
<th>TEST-HOLE-DEPTH (metres)</th>
<th>DURATION</th>
<th>SALINITY</th>
</tr>
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<tbody>
<tr>
<td>7.60</td>
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Drillers Log

<table>
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<th>FROM</th>
<th>TO</th>
<th>THICKNESS</th>
<th>DESC</th>
<th>GEO-MATERIAL COMMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.00</td>
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<td>0.30</td>
<td>FILL, SANDY GRAVEL</td>
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<tr>
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<td>2.20</td>
<td>SAND, FINE MEDIUM GRAINED</td>
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</tr>
<tr>
<td>2.50</td>
<td>3.40</td>
<td>0.90</td>
<td>SANDY CLAY, BROWN, SAND MOIST, SOFT</td>
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<tr>
<td>3.40</td>
<td>4.50</td>
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10/11/2010
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<th>Depth</th>
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<tr>
<td>6.50</td>
<td>9.00</td>
<td>CLAYEY SAND, FINE MEDIUM GRAINED</td>
</tr>
</tbody>
</table>

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Groundwater Works Summary

For information on the meaning of fields please see Glossary

Document Generated on Monday, October 11, 2010

Work Requested -- GW110392

Works Details (top)

GROUNDWATER NUMBER   GW110392
LIC-NUM                10BL165522
AUTHORIZED-PURPOSES   MONITORING BORE
INTENDED-PURPOSES     MONITORING BORE
WORK-TYPE             Well
WORK-STATUS           
CONSTRUCTION-METHOD   Auger - Solid Flight
OWNER-TYPE           Private
COMMENCE-DATE         2005-09-05
COMPLETION-DATE       
FINAL-DEPTH (metres)  8.50
DRILLED-DEPTH (metres) 8.50
CONTRACTOR-NAME       
DRILLER-NAME          
PROPERTY              A B B AUSTRALIA
GWMA                  -
GW-ZONE               -
STANDING-WATER-LEVEL  7.25
SALINITY              
YIELD                 

Site Details (top)

REGION               10 - SYDNEY SOUTH COAST
RIVER-BASIN          
AREA-DISTRICT       
CMA-MAP              
GRID-ZONE            
SCALE                
ELEVATION            
ELEVATION-SOURCE     
NORTHING            6242504.00
EASTING              307902.00
LATITUDE             33 56' 26"
LONGITUDE            150 55' 17"
GS-MAP               

**Form-A**

<table>
<thead>
<tr>
<th>COUNTY</th>
<th>CUMBERLAND</th>
</tr>
</thead>
<tbody>
<tr>
<td>PARISH</td>
<td>HOLSWORTHY</td>
</tr>
<tr>
<td>PORTION-LOT-DP</td>
<td>2/32998</td>
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</tbody>
</table>

**Licensed**

<table>
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<tbody>
<tr>
<td>PARISH</td>
<td>HOLSWORTHY</td>
</tr>
<tr>
<td>PORTION-LOT-DP</td>
<td>2 32998</td>
</tr>
</tbody>
</table>

**Construction**

Negative depths indicate Above Ground Level; H-Hole; P-Pipe; OD-Outside Diameter; ID-Inside Diameter; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity

<table>
<thead>
<tr>
<th>HOLE-NO</th>
<th>PIPE-NO</th>
<th>COMPONENT-CODE</th>
<th>COMPONENT-TYPE</th>
<th>DEPTH-FROM (metres)</th>
<th>DEPTH-TO (metres)</th>
<th>OD (mm)</th>
<th>ID (mm)</th>
<th>INTERVAL DETAIL</th>
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<tr>
<td>1</td>
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<td>Hole</td>
<td>Hole</td>
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<td>8.50</td>
<td>125</td>
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<tr>
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<td>1</td>
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<td>Opening</td>
<td>Screen</td>
<td>5.50</td>
<td>8.50</td>
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**Water Bearing Zones**

<table>
<thead>
<tr>
<th>FROM-DEPTH (metres)</th>
<th>TO-DEPTH (metres)</th>
<th>THICKNESS (metres)</th>
<th>ROCK-CAT-DESC</th>
<th>S-W-L</th>
<th>D-D-L</th>
<th>YIELD</th>
<th>TEST-HOLE-DEPTH (metres)</th>
<th>DURATION</th>
<th>SALINITY</th>
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<tbody>
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**Drillers Log**

<table>
<thead>
<tr>
<th>FROM</th>
<th>TO</th>
<th>THICKNESS</th>
<th>DESC</th>
<th>GEO-MATERIAL</th>
<th>COMMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.00</td>
<td>1.00</td>
<td>1.00</td>
<td>FILL, SAND, BROWN, DRY</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.00</td>
<td>3.50</td>
<td>2.50</td>
<td>CLAYEY SAND, FINE TO MEDIUM GRAINED</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.50</td>
<td>5.00</td>
<td>1.50</td>
<td>CLAY, RED/BROWN, FINE GRAINED SAND</td>
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<td></td>
</tr>
<tr>
<td>5.00</td>
<td>5.50</td>
<td>0.50</td>
<td>GRADING INTO SANDY CLAY, SOFT, DRY</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Warning To Clients: This raw data has been supplied to the Department of Infrastructure, Planning and Natural Resources (DIPNR) by drillers, licensees and other sources. The DIPNR does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.
Groundwater Works Summary

For information on the meaning of fields please see Glossary
Document Generated on Monday, October 11, 2010

Works Details

Site Details

Form A
Licensed
Construction
Water Bearing Zones
Drillers Log

Work Requested -- GW110391

Works Details (top)

GROUNDWATER NUMBER  GW110391
LIC-NUM  10BL165522
AUTHORISED-PURPOSES  MONITORING BORE
INTENDED-PURPOSES  MONITORING BORE
WORK-TYPE  Well
WORK-STATUS
CONSTRUCTION-METHOD  Auger - Solid Flight
OWNER-TYPE  Private
COMMENCE-DATE
COMPLETION-DATE  2005-09-05
FINAL-DEPTH (metres)  8.70
DRILLED-DEPTH (metres)  8.70
CONTRACTOR-NAME
DRILLER-NAME
PROPERTY  A B B AUSTRALIA
GWMA  -
GW-ZONE  -
STANDING-WATER-LEVEL  7.50
SALINITY
YIELD

Site Details (top)

REGION  10 - SYDNEY SOUTH COAST
RIVER-BASIN
AREA-DISTRICT
CMA-MAP
GRID-ZONE
SCALE
ELEVATION
ELEVATION-SOURCE
NORTHING  6242439.00
EASTING  307916.00
LATITUDE  33 56' 28"
LONGITUDE  150 55' 18"
GS-MAP
Form-A

**County**  CUMBERLAND  
**Parish**  HOLSWORTHY  
**Portion-Lot-DP**  2/32998  

**Licensed**

**County**  CUMBERLAND  
**Parish**  HOLSWORTHY  
**Portion-Lot-DP**  2 32998  

**Construction**

Negative depths indicate Above Ground Level; H-Hole; P-Pipe; OD-Outside Diameter; ID-Inside Diameter; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity

<table>
<thead>
<tr>
<th>HOLE-NO</th>
<th>PIPE-NO</th>
<th>COMPONENT-NO</th>
<th>COMPONENT-CODE</th>
<th>COMPONENT-TYPE</th>
<th>DEPTH-FROM (metres)</th>
<th>DEPTH-TO (metres)</th>
<th>OD (mm)</th>
<th>ID (mm)</th>
<th>INTERVAL DETAIL</th>
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<td>1</td>
<td>Hole</td>
<td>Hole</td>
<td></td>
<td></td>
<td>0.00</td>
<td>8.70</td>
<td>125</td>
<td></td>
<td>Auger - Solid Flight</td>
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<td>4.70</td>
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<td>Screwed; Seated</td>
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<td>1</td>
<td>Opening</td>
<td>Screen</td>
<td></td>
<td>5.70</td>
<td>8.70</td>
<td>63</td>
<td></td>
<td>PVC Class 18; A: 0.4mm; Screwed Graded; GS: 1-2mm</td>
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<td>1</td>
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<td>Waterworn/Rounded</td>
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**Water Bearing Zones**

<table>
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<tr>
<th>FROM-DEPTH (metres)</th>
<th>TO-DEPTH (metres)</th>
<th>THICKNESS (metres)</th>
<th>ROCK-CAT-DESC</th>
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<th>D-D-L</th>
<th>YIELD</th>
<th>TEST-HOLE-DEPTH (metres)</th>
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**Drillers Log**

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<tr>
<th>FROM</th>
<th>TO</th>
<th>THICKNESS</th>
<th>DESC</th>
<th>GEO-MATERIAL</th>
<th>COMMENT</th>
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<td></td>
</tr>
<tr>
<td>2.50</td>
<td>3.50</td>
<td>1.00</td>
<td>SANDY CLAY, RED/BROWN</td>
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<td></td>
</tr>
<tr>
<td>3.50</td>
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<td>4.30</td>
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<td></td>
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</table>
Groundwater Works Summary

For information on the meaning of fields please see Glossary

Document Generated on Monday, October 11, 2010

Work Requested -- GW110390

Works Details (top)

GROUNDWATER NUMBER  GW110390
LIC-NUM  10BL165522
AUTHORISED-PURPOSES  MONITORING BORE
INTENDED-PURPOSES  MONITORING BORE
WORK-TYPE  Well
WORK-STATUS
CONSTRUCTION-METHOD  Auger - Solid Flight
OWNER-TYPE  Private
COMMENCE-DATE
COMPLETION-DATE  2005-09-06
FINAL-DEPTH (metres)  9.00
DRILLED-DEPTH (metres)  9.00
CONTRACTOR-NAME
DRILLER-NAME
PROPERTY  A B B AUSTRALIA
GWMA  -
GW-ZONE  -
STANDING-WATER-LEVEL  7.20
SALINITY
YIELD

Site Details (top)

REGION  10 - SYDNEY SOUTH COAST
RIVER-BASIN
AREA-DISTRICT
CMA-MAP
GRID-ZONE
SCALE
ELEVATION
ELEVATION-SOURCE
NORTHING  6242487.00
EASTING  307849.00
LATITUDE  33 56' 26"
LONGITUDE  150 55' 15"
GS-MAP


10/11/2010
### Form-A

COUNTY: CUMBERLAND  
PARISH: HOLSWORTHY  
PORTION-LOT-DP: 2/32998

### Licensed

COUNTY: CUMBERLAND  
PARISH: HOLSWORTHY  
PORTION-LOT-DP: 2 32998

### Construction

Negative depths indicate Above Ground Level; H-Hole; P-Pipe; OD-Outside Diameter; ID-Inside Diameter; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity

<table>
<thead>
<tr>
<th>HOLE-NO</th>
<th>PIPE-NO</th>
<th>COMPONENT-NO</th>
<th>COMPONENT-CODE</th>
<th>COMPONENT-TYPE</th>
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<th>DEPTH-TO (metres)</th>
<th>OD (mm)</th>
<th>ID (mm)</th>
<th>INTERVAL DETAIL</th>
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<tbody>
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<td>Hole</td>
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<td>Hole</td>
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<td>125</td>
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<td>1</td>
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<tr>
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<td>Opening</td>
<td>Screen</td>
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<td></td>
<td></td>
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<tr>
<td>1</td>
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<td>Annulus</td>
<td>Waterworn/Rounded</td>
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<td>0.00</td>
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### Water Bearing Zones

<table>
<thead>
<tr>
<th>FROM-DEPTH (metres)</th>
<th>TO-DEPTH (metres)</th>
<th>THICKNESS (metres)</th>
<th>ROCK-CAT-DESC</th>
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<th>TEST-HOLE-DEPTH (metres)</th>
<th>DURATION</th>
<th>SALINITY</th>
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</thead>
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### Drillers Log

<table>
<thead>
<tr>
<th>FROM</th>
<th>TO</th>
<th>THICKNESS</th>
<th>DESC</th>
<th>GEO-MATERIAL COMMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.00</td>
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<td>0.70</td>
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<td>2.20</td>
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</tr>
<tr>
<td>3.50</td>
<td>4.50</td>
<td>1.00</td>
<td>CLAYEY SAND, FINE/M/GRAINED</td>
<td></td>
</tr>
</tbody>
</table>
4.50 9.00 4.50 SANDY CLAY,GREY,L/BROWN MOTTLING.

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Groundwater Works Summary

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Document Generated on Monday, October 11, 2010

Work Requested -- GW110389

Works Details (top)

GROUNDWATER NUMBER GW110389
LIC-NUM 10BL165522
AUTHORISED-PURPOSES MONITORING BORE
INTENDED-PURPOSES MONITORING BORE
WORK-TYPE Well
WORK-STATUS
CONSTRUCTION-METHOD Auger - Solid Flight
OWNER-TYPE Private
COMMENCE-DATE
COMPLETION-DATE 2005-09-06
FINAL-DEPTH (metres) 10.00
DRILLED-DEPTH (metres) 10.00
CONTRACTOR-NAME
DRILLER-NAME
PROPERTY A B B AUSTRALIA
GWMA -
GW-ZONE -
STANDING-WATER-LEVEL 7.90
SALINITY
YIELD

Site Details (top)

REGION 10 - SYDNEY SOUTH COAST
RIVER-BASIN
AREA-DISTRICT
CMA-MAP
GRID-ZONE
SCALE
ELEVATION
ELEVATION-SOURCE
NORTHING 6242407.00
EASTING 307916.00
LATITUDE 33 56' 29"
LONGITUDE 150 55' 18"
Form-A

COUNTY: CUMBERLAND
PARISH: HOLSWORTHY
PORTION-LOT-DP: 2/32998

Licensed

COUNTY: CUMBERLAND
PARISH: HOLSWORTHY
PORTION-LOT-DP: 2 32998

Construction

Negative depths indicate Above Ground Level; H-Hole; P-Pipe; OD-Outside Diameter; ID-Inside Diameter; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity

<table>
<thead>
<tr>
<th>HOLE-NO</th>
<th>PIPE-NO</th>
<th>COMPONENT-CODE</th>
<th>COMPONENT-TYPE</th>
<th>DEPTH-FROM (metres)</th>
<th>DEPTH-TO (metres)</th>
<th>OD (mm)</th>
<th>ID (mm)</th>
<th>INTERVAL DETAIL</th>
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<td>Screwed; Seated</td>
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<td>Opening</td>
<td>Screen</td>
<td>6.90</td>
<td>9.90</td>
<td>Screwed; Graded;</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>Annulus</td>
<td>Waterworn/Rounded</td>
<td>0.00</td>
<td>0.00</td>
<td>GS: 1-2mm; Q:</td>
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<tr>
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<td></td>
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<td>33m³</td>
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</table>

Water Bearing Zones

<table>
<thead>
<tr>
<th>FROM-DEPTH (metres)</th>
<th>TO-DEPTH (metres)</th>
<th>THICKNESS (metres)</th>
<th>ROCK-CAT- DESC</th>
<th>S-W-L</th>
<th>D-D-L</th>
<th>YIELD</th>
<th>TEST-HOLE-DEPTH (metres)</th>
<th>DURATION</th>
<th>SALINITY</th>
</tr>
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<tbody>
<tr>
<td>7.70</td>
<td>10.00</td>
<td>2.30</td>
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<td></td>
<td>7.90</td>
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Drillers Log

<table>
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<th>TO</th>
<th>THICKNESS</th>
<th>DESC</th>
<th>GEO-MATERIAL</th>
<th>COMMENT</th>
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<tbody>
<tr>
<td>0.00</td>
<td>0.10</td>
<td>0.10</td>
<td>ASPHALT</td>
<td></td>
<td></td>
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<tr>
<td>0.10</td>
<td>0.20</td>
<td>0.10</td>
<td>FILL,GRAVEL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Depth 1</td>
<td>Depth 2</td>
<td>Depth 3</td>
<td>Description</td>
<td></td>
<td></td>
</tr>
<tr>
<td>--------</td>
<td>--------</td>
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<td></td>
<td></td>
</tr>
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<td>0.20</td>
<td>0.70</td>
<td>0.50</td>
<td>FILL CLAYEY SAND</td>
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<td></td>
</tr>
<tr>
<td>0.70</td>
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<td>0.60</td>
<td>FILL, GRAVELLY CLAYEY</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.30</td>
<td>2.40</td>
<td>1.10</td>
<td>CLAY, MODERATE, TO HIGH PLASTICITY</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.40</td>
<td>5.40</td>
<td>3.00</td>
<td>SANDY CLAY, FINE GRAINED SAND</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.40</td>
<td>6.50</td>
<td>1.10</td>
<td>CLAYEY SAND, L/BROWN, GREY MOTTLING</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6.50</td>
<td>10.00</td>
<td>3.50</td>
<td>GRADING INTO SAND, M/GRAINED, RED BROWN</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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Groundwater Works Summary

For information on the meaning of fields please see Glossary

Document Generated on Monday, October 11, 2010

Work Requested -- GW110388

Works Details (top)

GROUNDWATER NUMBER     GW110388
LIC-NUM                  10BL165522
AUTHORISED-PURPOSES     MONITORING BORE
INTENDED-PURPOSES       MONITORING BORE
WORK-TYPE               Well
WORK-STATUS             
CONSTRUCTION-METHOD   Auger - Solid Flight
OWNER-TYPE             Private
COMMENCE-DATE          
COMPLETION-DATE        2005-09-07
FINAL-DEPTH (metres)   10.00
DRILLED-DEPTH (metres) 
CONTRACTOR-NAME        
DRILLER-NAME           
PROPERTY               A B B AUSTRALIA
GWMA                   -
GW-ZONE                -
STANDING-WATER-LEVEL   7.60
SALINITY               
YIELD                  

Site Details (top)

REGION                   10 - SYDNEY SOUTH COAST
RIVER-BASIN             
AREA-DISTRICT          
CMA-MAP                
GRID-ZONE             
SCALE                  
ELEVATION             
ELEVATION-SOURCE      
NORTHING              6242460.00
EASTING                307799.00
LATITUDE               33 56' 27"
LONGITUDE              150 55' 13"
GS-MAP                 

Form-A

COUNTY: CUMBERLAND
PARISH: HOLSWORTHY
PORTION-LOT-DP: 2/32998

Licensed

COUNTY: CUMBERLAND
PARISH: HOLSWORTHY
PORTION-LOT-DP: 2 32998

Construction

Negative depths indicate Above Ground Level; H-Hole; P-Pipe; OD-Outside Diameter; ID-Inside Diameter; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity

<table>
<thead>
<tr>
<th>HOLE-NO</th>
<th>PIPE-NO</th>
<th>COMPONENT-CODE</th>
<th>COMPONENT-TYPE</th>
<th>DEPTH-FROM (metres)</th>
<th>DEPTH-TO (metres)</th>
<th>OD (mm)</th>
<th>ID (mm)</th>
<th>INTERVAL</th>
<th>DETAIL</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Hole</td>
<td>Hole</td>
<td>Hole</td>
<td>0.00</td>
<td>10.00</td>
<td>125</td>
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<td>Auger - Solid Flight</td>
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<td>1</td>
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<td>PVC Class 18</td>
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<td>6.50</td>
<td>63</td>
<td></td>
<td></td>
<td>Screwed; Seated on Bottom</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>Opening Screen</td>
<td>Screen</td>
<td>6.50</td>
<td>9.50</td>
<td>63</td>
<td></td>
<td></td>
<td>PVC Class 18; A: .4mm; Screwed</td>
</tr>
</tbody>
</table>

Water Bearing Zones

<table>
<thead>
<tr>
<th>FROM-DEPTH (metres)</th>
<th>TO-DEPTH (metres)</th>
<th>THICKNESS (metres)</th>
<th>ROCK-CAT-DESC</th>
<th>S-W-L</th>
<th>D-YIELD</th>
<th>TEST-HOLE-DEPTH (metres)</th>
<th>DURATION</th>
<th>SALINITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.60</td>
<td>10.00</td>
<td>2.40</td>
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Drillers Log

<table>
<thead>
<tr>
<th>FROM TO</th>
<th>THICKNESS DESC</th>
<th>GEO-MATERIAL COMMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.00</td>
<td>0.10 0.10</td>
<td>ASPHALT</td>
</tr>
<tr>
<td>0.10</td>
<td>0.30 0.20</td>
<td>FILL,SANDY GRAVEL</td>
</tr>
<tr>
<td>0.30</td>
<td>0.80 0.50</td>
<td>FILL,SANDY SILT</td>
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<td>2.20 1.40</td>
<td>FILL,GRAVELLY SAND</td>
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<tr>
<td>2.20</td>
<td>5.40 3.20</td>
<td>CLAYEY SAND</td>
</tr>
<tr>
<td>5.40</td>
<td>6.60 1.20</td>
<td>SAND,FINE-MEDIUM GRAINED</td>
</tr>
<tr>
<td>6.60</td>
<td>8.00 1.40</td>
<td>CLAYEY SAND,MEDIUM GRAINED</td>
</tr>
</tbody>
</table>

8.00 10.00 2.00 SAND, MEDIUM GRAINED, BROWN, LOOSE

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Groundwater Works Summary

For information on the meaning of fields please see Glossary

Document Generated on Monday, October 11, 2010

Work Requested -- GW110387

Works Details (top)

GROUNDWATER NUMBER  GW110387
LIC-NUM  10BL165522
AUTHORISED-PURPOSES  MONITORING BORE
INTENDED-PURPOSES  MONITORING BORE
WORK-TYPE  Well
WORK-STATUS
CONSTRUCTION-METHOD  Auger - Solid Flight
OWNER-TYPE  Private
COMMENCE-DATE
COMPLETION-DATE  2005-09-07
FINAL-DEPTH (metres)  10.00
DRILLED-DEPTH (metres)  10.00
CONTRACTOR-NAME
DRILLER-NAME
PROPERTY  A B B AUSTRALIA
GWMA
GW-ZONE
STANDING-WATER-LEVEL  8.00
SALINITY
YIELD

Site Details (top)

REGION  10 - SYDNEY SOUTH COAST
RIVER-BASIN
AREA-DISTRICT
CMA-MAP
GRID-ZONE
SCALE
ELEVATION
ELEVATION-SOURCE
NORTHING  6242475.00
EASTING  307897.00
LATITUDE  33 56’ 26”
LONGITUDE  150 55’ 17”
GS-MAP


10/11/2010
### AMG-ZONE
56

### COORD-SOURCE

### REMARK

---

### Form-A

#### COUNTY
CUMBERLAND

#### PARISH
HOLSWORTHY

#### PORTION-LOT-DP
2/32998

---

### Licensed

#### COUNTY
CUMBERLAND

#### PARISH
HOLSWORTHY

#### PORTION-LOT-DP
2 32998

---

### Construction

Negative depths indicate Above Ground Level; H-Hole; P-Pipe; OD-Outside Diameter; ID-Inside Diameter; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity

<table>
<thead>
<tr>
<th>HOLE-NO</th>
<th>PIPE-NO</th>
<th>COMPONENT-NO</th>
<th>COMPONENT-CODE</th>
<th>DEPTH-FROM (metres)</th>
<th>DEPTH-TO (metres)</th>
<th>OD (mm)</th>
<th>ID (mm)</th>
<th>INTERVAL</th>
<th>DETAIL</th>
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</thead>
<tbody>
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<td>Hole</td>
<td>Hole</td>
<td>0.00</td>
<td>10.00</td>
<td>125</td>
<td></td>
<td></td>
<td>Auger - Solid Flight Screwed; Seated on Bottom PVC Class 18; A: .4mm; Screwed Graded; GS: 1-2mm</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>Casing</td>
<td>PVC Class 18</td>
<td>0.00</td>
<td>7.00</td>
<td>63</td>
<td></td>
<td></td>
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<td>Opening</td>
<td>Screen</td>
<td>7.00</td>
<td>10.00</td>
<td>63</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td></td>
<td>Annulus</td>
<td>Waterworn/Rounded</td>
<td>0.00</td>
<td>0.00</td>
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### Water Bearing Zones

<table>
<thead>
<tr>
<th>FROM-DEPTH (metres)</th>
<th>TO-DEPTH (metres)</th>
<th>THICKNESS (metres)</th>
<th>ROCK-CAT-DESC</th>
<th>S-W-L</th>
<th>D-D-L</th>
<th>YIELD</th>
<th>TEST-HOLE-DEPTH (metres)</th>
<th>DURATION</th>
<th>SALINITY</th>
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<tbody>
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### Drillers Log

<table>
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<tr>
<th>FROM</th>
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<th>THICKNESS DESC</th>
<th>GEO-MATERIAL</th>
<th>COMMENT</th>
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<td>ASPHALT</td>
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</tr>
<tr>
<td>0.20</td>
<td>0.90</td>
<td>FILL,SAND,BROWN,FINE,DRY,LOOSE</td>
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<tr>
<td>0.90</td>
<td>1.90</td>
<td>CLAYEY SAND,FINE,M/GRAINED,L/BROWN</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Depth</th>
<th>Water Level</th>
<th>Unit</th>
<th>Description</th>
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<tbody>
<tr>
<td>1.90</td>
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<td>CLAY, MODERATE PLASTICITY</td>
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<tr>
<td>3.30</td>
<td>4.80</td>
<td></td>
<td>SANDY CLAY, LOW PLASTICITY</td>
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<tr>
<td>4.80</td>
<td>7.00</td>
<td></td>
<td>SAND, FINE MEDIUM GRAINED, BROWN</td>
</tr>
<tr>
<td>7.00</td>
<td>8.80</td>
<td></td>
<td>CLAYEY SAND, FINE GRAINED, BROWN</td>
</tr>
<tr>
<td>8.80</td>
<td>10.00</td>
<td></td>
<td>SAND, FINE MEDIUM GRAINED, GREY, SOME CLAY</td>
</tr>
</tbody>
</table>

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Groundwater Works Summary

Work Requested -- GW110386

Works Details (top)

GROUNDWATER NUMBER GW110386
LIC-NUM 10BL165522
AUTHORISED-PURPOSES MONITORING BORE
INTENDED-PURPOSES MONITORING BORE
WORK-TYPE Well
WORK-STATUS
CONSTRUCTION-METHOD Auger - Solid Flight
OWNER-TYPE Private
COMMENCE-DATE
COMPLETION-DATE 2005-09-06
FINAL-DEPTH (metres) 8.50
DRILLED-DEPTH (metres) 8.50
CONTRACTOR-NAME
DRILLER-NAME
PROPERTY A B B AUSTRALIA
GWMA -
GW-ZONE -
STANDING-WATER-LEVEL 6.00
SALINITY
YIELD

Site Details (top)

REGION 10 - SYDNEY SOUTH COAST
RIVER-BASIN
AREA-DISTRICT
CMA-MAP
GRID-ZONE
SCALE
ELEVATION
ELEVATION-SOURCE
NORTHING 6242396.00
EASTING 307864.00
LATITUDE 33 56' 29"
LONGITUDE 150 55' 16"
GS-MAP


10/11/2010
Form-A (top)

COUNTY CUMBERLAND
PARISH HOLSWORTHY
PORTION-LOT-DP 2/32998

Licensed (top)

COUNTY CUMBERLAND
PARISH HOLSWORTHY
PORTION-LOT-DP 2 32998

Construction (top)

Negative depths indicate Above Ground Level; H-Hole; P-Pipe; OD-Outside Diameter; ID-Inside Diameter; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity

<table>
<thead>
<tr>
<th>HOLE-NO</th>
<th>PIPE-NO</th>
<th>COMPONENT-CODE</th>
<th>COMPONENT-TYPE</th>
<th>DEPTH-FROM (metres)</th>
<th>DEPTH-TO (metres)</th>
<th>OD (mm)</th>
<th>ID (mm)</th>
<th>INTERVAL DETAIL</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td>Hole</td>
<td>Hole</td>
<td>0.00</td>
<td>8.50</td>
<td>125</td>
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<tr>
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<td>1</td>
<td>Casing</td>
<td>PVC Class 18</td>
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<td>5.20</td>
<td>63</td>
<td></td>
<td>Seated on Bottom PVC Class 18; A: .4mm; Packer Graded; GS: 1-2mm</td>
</tr>
<tr>
<td>1</td>
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<td>Opening</td>
<td>Screen</td>
<td>5.20</td>
<td>8.30</td>
<td>63</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Annulus</td>
<td>Waterworn/Rounded</td>
<td>0.00</td>
<td>0.00</td>
<td></td>
<td></td>
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<td></td>
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</tbody>
</table>

Water Bearing Zones (top)

<table>
<thead>
<tr>
<th>FROM-DEPTH (metres)</th>
<th>TO-DEPTH (metres)</th>
<th>THICKNESS (metres)</th>
<th>ROCK-CAT-DESC</th>
<th>S-W-L</th>
<th>D-D-L</th>
<th>YIELD</th>
<th>TEST-HOLE-DEPTH (metres)</th>
<th>DURATION</th>
<th>SALINITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.00</td>
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<td></td>
</tr>
</tbody>
</table>

Drillers Log (top)

<table>
<thead>
<tr>
<th>FROM TO</th>
<th>THICKNESS</th>
<th>DESC</th>
<th>GEO-MATERIAL COMMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.00</td>
<td>0.50</td>
<td>0.50</td>
<td>FILL, GRAVELLY SAND</td>
</tr>
<tr>
<td>0.50</td>
<td>4.10</td>
<td>3.60</td>
<td>SANDY CLAY, BROWN, FINE GRAINED</td>
</tr>
<tr>
<td>4.10</td>
<td>6.50</td>
<td>2.40</td>
<td>SANDY CLAY, GREY, FINE GRAINED SAND</td>
</tr>
<tr>
<td>6.50</td>
<td>8.50</td>
<td>2.00</td>
<td>CLAYEY SAND, FINE GRAINED, L/BROWN</td>
</tr>
</tbody>
</table>

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Groundwater Works Summary

For information on the meaning of fields please see Glossary

Document Generated on Monday, October 11, 2010

Work Requested -- GW109805

Works Details (top)

GROUNDWATER NUMBER: GW109805
LIC-NUM: 10BL601722
AUTHORISED-PURPOSES: MONITORING BORE
INTENDED-PURPOSES: MONITORING BORE
WORK-TYPE: Bore
WORK-STATUS: 
CONSTRUCTION-METHOD: Auger - Solid Flight
OWNER-TYPE: Private
COMMENCE-DATE: 2007-01-29
COMPLETION-DATE: 
FINAL-DEPTH (metres): 12.00
DRILLED-DEPTH (metres): 12.00
CONTRACTOR-NAME: 
DRILLER-NAME: 
PROPERTY: GLENFIELD WASTE DISPOSALS
GWMA: 
GW-ZONE: 
STANDING-WATER-LEVEL: 
SALINITY: 
YIELD: 

Site Details (top)

REGION: 10 - SYDNEY SOUTH COAST
RIVER-BASIN: 
AREA-DISTRICT: 
CMA-MAP: 
GRID-ZONE: 
SCALE: 
ELEVATION: 
ELEVATION-SOURCE: 
NORTHING: 6240130.00
EASTING: 306467.00
LATITUDE: 33 57' 42"
LONGITUDE: 150 54' 20"
GS-MAP: 


10/11/2010
**Form-A**

**LICENSED CONSTRUCTION**

**COUNTY** CUMBERLAND  
**PARISH** MINTO  
**PORTION-LOT-DP** //999999

---

**Licensed**

**COUNTY** CUMBERLAND  
**PARISH** MINTO  
**PORTION-LOT-DP** 5 833156

---

**Construction**

Negative depths indicate Above Ground Level; H-Hole; P-Pipe; OD-Outside Diameter; ID-Inside Diameter; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity

<table>
<thead>
<tr>
<th>HOLE-NO</th>
<th>PIPE-NO</th>
<th>COMPONENT-NO</th>
<th>COMPONENT-CODE</th>
<th>COMPONENT-TYPE</th>
<th>DEPTH-FROM (metres)</th>
<th>DEPTH-TO (metres)</th>
<th>OD (mm)</th>
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<td>Screen</td>
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**Water Bearing Zones**

no details

---

**Drillers Log**

<table>
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<td>9.80</td>
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**Warning To Clients:** This raw data has been supplied to the Department of Infrastructure, Planning and Natural Resources

10/11/2010
(DIPNR) by drillers, licensees and other sources. The DIPNR does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.
Groundwater Works Summary

For information on the meaning of fields please see Glossary
Document Generated on Monday, October 11, 2010

Work Requested -- GW109803

Works Details (top)

GROUNDWATER NUMBER  GW109803
LIC-NUM              10BL601722
AUTHORISED-PURPOSES  MONITORING BORE
INTENDED-PURPOSES    MONITORING BORE
WORK-TYPE            Bore
WORK-STATUS          
CONSTRUCTION-METHOD  Auger - Solid Flight
OWNER-TYPE           Private
COMMENCE-DATE        
COMPLETION-DATE      2009-02-10
FINAL-DEPTH (metres) 29.80
DRILLED-DEPTH (metres) 29.80
CONTRACTOR-NAME      
DRILLER-NAME         
PROPERTY             GLENFIELD WASTE DISPOSALS
GWMA                 -
GW-ZONE              -
STANDING-WATER-LEVEL 
SALINITY             
YIELD                

Site Details (top)

REGION              10 - SYDNEY SOUTH COAST
RIVER-BASIN         
AREA-DISTRICT       
CMA-MAP             
GRID-ZONE           
SCALE               
ELEVATION           
ELEVATION-SOURCE    
NORTING             6240002.00
EASTING             307124.00
LATITUDE            33 57' 46"
LONGITUDE           150 54' 45"
Form-A

COUNTY  CUMBERLAND
PARISH  MINTO
PORTION-LOT-DP  5/833156

Licensed

COUNTY  CUMBERLAND
PARISH  MINTO
PORTION-LOT-DP  5/833516

Construction

Negative depths indicate Above Ground Level; H-Hole; P-Pipe; OD-Outside Diameter; ID-Inside Diameter; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity

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<th>ID (mm)</th>
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Water Bearing Zones

no details

Drillers Log

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<tr>
<td>0.00</td>
<td>0.40</td>
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<td>FILL, CLAY, (REWORKED NATURAL) DRY, STIFF</td>
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<td>SAND AND SANDY CLAY, DARK BROWN WITH CLAY LENSES FROM 4.5m</td>
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<td>7.50</td>
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</table>

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# Groundwater Works Summary

For information on the meaning of fields please see [Glossary](#).

Document Generated on Monday, October 11, 2010

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**Work Requested -- GW109799**

## Works Details

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<td>MONITORING BORE</td>
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<tr>
<td>INTENDED-PURPOSES</td>
<td>MONITORING BORE</td>
</tr>
<tr>
<td>WORK-TYPE</td>
<td>Bore</td>
</tr>
<tr>
<td>CONSTRUCTION-METHOD</td>
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<tr>
<td>OWNER-TYPE</td>
<td>Private</td>
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<tr>
<td>COMMENCE-DATE</td>
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<tr>
<td>COMPLETION-DATE</td>
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<td>PROPERTY</td>
<td>GLENFIELD WASTE DISPOSALS</td>
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<td>GWMA</td>
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<td>GW-ZONE</td>
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<tr>
<td>SALINITY</td>
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## Site Details

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<td>ELEVATION</td>
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<td>LONGITUDE</td>
<td>150 54' 30&quot;</td>
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<tr>
<td>GS-MAP</td>
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</table>
Form-A

COUNTY CUMBERLAND
PARISH MINTO
PORTION-LOT-DP 22//230435

Licensed

COUNTY CUMBERLAND
PARISH MINTO
PORTION-LOT-DP 22 230435

Construction

Negative depths indicate Above Ground Level; H-Hole; P-Pipe; OD-Outside Diameter; ID-Inside Diameter; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity

| HOLE-NO | PIPE-NO | COMPONENT-CODE | COMPONENT-TYPE | DEPTH-FROM (metres) | DEPTH-TO (metres) | OD (mm) | ID (mm) | INTERVAL | DETAIL
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<td>Screwed</td>
<td>PVC; Screwed</td>
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<td>Opening</td>
<td>Screen</td>
<td>17.00</td>
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Water Bearing Zones

no details

Drillers Log

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<th>GEO-MATERIAL</th>
<th>COMMENT</th>
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<td>SILTY SANDY CLAY,BROWN,MEDIUM GRAINED,DRY</td>
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<td>4.50 STRENGTH, WATER FROM 8m</td>
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</table>

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Groundwater Works Summary

Work Requested -- GW109798

Works Details (top)

GROUNDWATER NUMBER  GW109798
LIC-NUM  10BL601720
AUTHORISED-PURPOSES  MONITORING BORE
INTENDED-PURPOSES  MONITORING BORE
WORK-TYPE  Bore
WORK-STATUS
CONSTRUCTION-METHOD  Auger - Solid Flight
OWNER-TYPE  Private
COMMENCE-DATE
COMPLETION-DATE  2007-01-29
FINAL-DEPTH (metres)  29.80
DRILLED-DEPTH (metres)  29.80
CONTRACTOR-NAME
DRILLER-NAME
PROPERTY  GLENFIELD WASTE DISPOSALS
GWMA  -
GW-ZONE  -
STANDING-WATER-LEVEL
SALINITY
YIELD

Site Details (top)

REGION  10 - SYDNEY SOUTH COAST
RIVER-BASIN
AREA-DISTRICT
CMA-MAP
GRID-ZONE
SCALE
ELEVATION
ELEVATION-SOURCE
NORTHING  6240724.00
EASTING  306970.00
LATITUDE  33° 57' 23"
LONGITUDE  150° 54' 40"
GS-MAP
Form-A

COUNTY: CUMBERLAND
PARISH: MINTO
PORTION-LOT-DP: 22//230435

Licensed

COUNTY: CUMBERLAND
PARISH: MINTO
PORTION-LOT-DP: 22 230435

Construction

Negative depths indicate Above Ground Level; H-Hole; P-Pipe; OD-Outside Diameter; ID-Inside Diameter; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity

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<th>OD (mm)</th>
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<td>Graded; GS: 2-5mm</td>
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Water Bearing Zones

no details

Drillers Log

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<th>FROM</th>
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<th>THICKNESS</th>
<th>DESC</th>
<th>GEO-MATERIAL</th>
<th>COMMENT</th>
</tr>
</thead>
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<tr>
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<td>9.00</td>
<td>5.50</td>
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<tr>
<td>9.00</td>
<td>10.00</td>
<td>1.00</td>
<td>SILTY SAND, WET BROWN, DARK GREY, COURSE GRAINED</td>
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<td>10.00</td>
<td>20.50</td>
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</table>
20.50 22.50 2.00 SHALE.LAMINATED SANDSTONE,DARK GREY
22.50 29.80 7.30 SANDSTONE,LIGHT GREY,MEDIUM GRAINED

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# Groundwater Works Summary

For information on the meaning of fields please see [Glossary](#).

Document Generated on Monday, October 11, 2010

## Work Requested -- GW108804

### Works Details (top)

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<tr>
<td>WORK-TYPE</td>
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<td>WORK-STATUS</td>
<td>Equipped - bore used for obs</td>
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<td>CONSTRUCTION-METHOD</td>
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<td>OWNER-TYPE</td>
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### Site Details (top)

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</tr>
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<td>AREA-DISTRICT</td>
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<td>CMA-MAP</td>
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<td>GRID-ZONE</td>
<td></td>
</tr>
<tr>
<td>SCALE</td>
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<td>ELEVATION-SOURCE</td>
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<tr>
<td>LONGITUDE</td>
<td>150 54' 41&quot;</td>
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<tr>
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Form-A

COUNTY: CUMBERLAND
PARISH: MINTO
PORTION-LOT-DP: 50//229438

Licensed

COUNTY: CUMBERLAND
PARISH: MINTO
PORTION-LOT-DP: 50 229438

Construction

Water Bearing Zones

no details

Drillers Log

<table>
<thead>
<tr>
<th>FROM (metres)</th>
<th>TO (metres)</th>
<th>THICKNESS</th>
<th>DESC</th>
<th>GEO-MATERIAL</th>
<th>COMMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.00</td>
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<td>7.50</td>
<td>SAND,BROWN,FINE TO MEDIUM GRAINED</td>
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<td></td>
</tr>
<tr>
<td>7.50</td>
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<td></td>
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<tr>
<td>10.00</td>
<td>11.00</td>
<td>1.00</td>
<td>WEATHERED SHALE,DARK GREY</td>
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</table>

Warning To Clients: This raw data has been supplied to the Department of Infrastructure, Planning and Natural Resources (DIPNR) by drillers, licensees and other sources. The DIPNR does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.
Groundwater Works Summary

Work Requested -- GW108802

Works Details (top)

GROUNDWATER NUMBER   GW108802
LIC-NUM                10BL601723
AUTHORISED-PURPOSES   MONITORING BORE
INTENDED-PURPOSES     MONITORING BORE
WORK-TYPE             Bore
WORK-STATUS           Equipped - bore used for obs
CONSTRUCTION-METHOD  Auger - Solid Flight
OWNER-TYPE            Private
COMMENCE-DATE         2008-04-21
COMPLETION-DATE       2008-04-21
FINAL-DEPTH (metres)  23.70
DRILLED-DEPTH (metres) 23.70
CONTRACTOR-NAME       
DRILLER-NAME          
PROPERTY              GLENFIELD WASTE DISPOSALS
GWMA                  -
GW-ZONE               -
STANDING-WATER-LEVEL 
SALINITY              
YIELD                 

Site Details (top)

REGION                 10 - SYDNEY SOUTH COAST
RIVER-BASIN           
AREA-DISTRICT        
CMA-MAP               
GRID-ZONE            
SCALE                
ELEVATION           
ELEVATION-SOURCE     
NORTHING            6239299.00
EASTING              307099.00
LATITUDE             33 58' 9"
LONGITUDE           150 54' 43"
GS-MAP               

Form-A  

COUNTY: CUMBERLAND  
PARISH: MINTO  
PORTION-LOT-DP: 2/333578

Licensed

COUNTY: CUMBERLAND  
PARISH: MINTO  
PORTION-LOT-DP: 2 333578

Construction

Negative depths indicate Above Ground Level; H-Hole; P-Pipe; OD-Outside Diameter; ID-Inside Diameter; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity

<table>
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<tr>
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<th>PIPE-NO</th>
<th>COMPONENT-CODE</th>
<th>COMPONENT-TYPE</th>
<th>DEPTH-FROM (metres)</th>
<th>DEPTH-TO (metres)</th>
<th>OD (mm)</th>
<th>ID (mm)</th>
<th>INTERVAL DETAIL</th>
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<td>Hole</td>
<td>Hole</td>
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<td>100</td>
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<td>50</td>
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<td>PVC; Screwed</td>
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Water Bearing Zones

no details

Drillers Log

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<th>THICKNESS</th>
<th>DESC</th>
<th>GEO-MATERIAL</th>
<th>COMMENT</th>
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<tbody>
<tr>
<td>0.00</td>
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<td>3.20</td>
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<td></td>
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<tr>
<td>3.20</td>
<td>7.00</td>
<td>3.80</td>
<td>SANDY CLAY, BROWN DRY</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7.00</td>
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<td>0.50</td>
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<tr>
<td>7.50</td>
<td>8.00</td>
<td>0.50</td>
<td>WEATHERED SANDSTONE L/GREY</td>
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<td></td>
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<tr>
<td>8.00</td>
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<td>3.30</td>
<td>WEATHERED SHALE, SANDSTONE</td>
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<td></td>
</tr>
<tr>
<td>11.30</td>
<td>12.00</td>
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<tr>
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<td>11.70</td>
<td>SANDSTONE, L/GREY, MEDIUM GRAINED</td>
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Groundwater Works Summary

For information on the meaning of fields please see Glossary

Document Generated on Monday, October 11, 2010

Works Details (top)

GROUNDWATER NUMBER  GW016829
LIC-NUM  10BL007470
AUTHORISED-PURPOSES  DOMESTIC
INTENDED-PURPOSES  GENERAL USE
WORK-TYPE  Well
WORK-STATUS  (Unknown)
CONSTRUCTION-METHOD  (Unknown)
OWNER-TYPE  Private
COMMENCE-DATE
COMPLETION-DATE  1958-02-01
FINAL-DEPTH (metres)  5.40
DRILLED-DEPTH (metres)  0.00
CONTRACTOR-NAME
DRILLER-NAME
PROPERTY  N/A
GWMA  603 - SYDNEY BASIN
GW-ZONE  -
STANDING-WATER-LEVEL
SALINITY
YIELD

Site Details (top)

REGION  10 - SYDNEY SOUTH COAST
RIVER-BASIN  213 - SYDNEY COAST - GEORGES RIVER
AREA-DISTRICT
CMA-MAP  9030-2S
GRID-ZONE  56/1
SCALE  1:25,000
ELEVATION
ELEVATION-SOURCE  (Unknown)
NORTHING  6243074.00
EASTING  308350.00
LATITUDE  33 56' 7"
LONGITUDE  150 55' 35"
GS-MAP  0056D4
Form-A (top)

COUNTY CUMBERLAND
PARISH HOLSWORTHY
PORTION-LOT-DP 58

Licensed (top)

COUNTY CUMBERLAND
PARISH HOLSWORTHY
PORTION-LOT-DP A 752034

Construction (top)

Negative depths indicate Above Ground Level; H-Hole; P-Pipe; OD-Outside Diameter; ID-Inside Diameter; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity

<table>
<thead>
<tr>
<th>HOLE-NO</th>
<th>PIPE-NO</th>
<th>COMPONENT-CODE</th>
<th>COMPONENT-TYPE</th>
<th>DEPTH-FROM (metres)</th>
<th>DEPTH-TO (metres)</th>
<th>OD (mm)</th>
<th>ID (mm)</th>
<th>INTERVAL DETAIL</th>
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<tr>
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Water Bearing Zones (top)

<table>
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<th>FROM-DEPTH (metres)</th>
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<th>THICKNESS (metres)</th>
<th>ROCK-CAT-DESC</th>
<th>S-W-L</th>
<th>D-D-L</th>
<th>TEST-DEPTH (metres)</th>
<th>DURATION</th>
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</table>

Drillers Log (top)

no details

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Groundwater Works Summary

For information on the meaning of fields please see Glossary.

Works Details (top)

GROUNDWATER NUMBER GW110395
LIC-NUM 10BL165522
AUTHORISED-PURPOSES MONITORING BORE
INTENDED-PURPOSES MONITORING BORE
WORK-TYPE Well
WORK-STATUS
CONSTRUCTION-METHOD Auger - Solid Flight
OWNER-TYPE Private
COMMENCE-DATE
COMPLETION-DATE 2005-09-07
FINAL-DEPTH (metres) 8.50
DRILLED-DEPTH (metres) 8.50
CONTRACTOR-NAME
DRILLER-NAME
PROPERTY A B B AUSTRALIA
GWMA -
GW-ZONE -
STANDING-WATER-LEVEL 6.80
SALINITY
YIELD

Site Details (top)

REGION 10 - SYDNEY SOUTH COAST
RIVER-BASIN
AREA-DISTRICT
CMA-MAP
GRID-ZONE
SCALE
ELEVATION
ELEVATION-SOURCE
NORTHING 6242502.00
EASTING 307830.00
LATITUDE 33 56' 26"
LONGITUDE 150 55' 14"
GS-MAP
Form-A (top)

COUNTY CUMBERLAND
PARISH HOLSWORTHY
PORTION-LOT-DP 2/32998

Licensed (top)

COUNTY CUMBERLAND
PARISH HOLSWORTHY
PORTION-LOT-DP 2 32998

Construction (top)

Negative depths indicate Above Ground Level; H-Hole; P-Pipe; OD-Outside Diameter; ID-Inside Diameter; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity

<table>
<thead>
<tr>
<th>HOLE-NO</th>
<th>PIPE-NO</th>
<th>COMPONENT-CODE</th>
<th>COMPONENT-TYPE</th>
<th>DEPTH-FROM (metres)</th>
<th>DEPTH-TO (metres)</th>
<th>OD (mm)</th>
<th>ID (mm)</th>
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<td>Hole</td>
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Water Bearing Zones (top)

no details

Drillers Log (top)

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<th>GEO-MATERIAL COMMENT</th>
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<td>0.90</td>
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<tr>
<td>1.50</td>
<td>2.30</td>
<td>0.80</td>
<td>GRADING INTO CLAYEY SAND</td>
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<tr>
<td>2.30</td>
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<td>6.20</td>
<td>SAND, F/M/GRAINED, RED/BROWN/CLAY</td>
<td></td>
</tr>
</tbody>
</table>


10/11/2010
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18th October 2010

PARSONS BRINCKERHOFF AUSTRALIA PTY LIMITED
GPO Box 5394,
SYDNEY NSW 2001

Attention: Lisa Warwick

RE: Moorebank Avenue,
    Moorebank

Note 1: Lot 3001 DP 1125930
Note 2: Lot 100 DP 1049508
Note 3: Lot 101 DP 1049508
Note 4: Lot 2 DP 547293

Note 1:

Current Search

Folio Identifier 3001/1125930 (title attached)
DP 1125930 (plan attached)
Dated 12th October 2010
Registered Proprietor:
COMMONWEALTH OF AUSTRALIA
Title Tree
Lot 3001 DP 1125930

Folio Identifier 3001/1125930
Folio Identifier 500/1075886
Folio Identifier 2001/1064082
Folio Identifier 1003/1050177
Folio Identifier 2/1048263
Folio Identifier 56/1040763
Folio Identifier 1403/848565
Folio Identifier 2001/835590
Folio Identifier 2/825745

Certificate of Title Volume 1196 Folio 99

*****
### Summary of Proprietors

**Lot 3001 DP 1125930**

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<th>Proprietor</th>
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<td>2006 – 2008</td>
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<td>1913 – 1993</td>
<td>The Commonwealth of Australia (acquired for the purposes of defence)</td>
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<td>1896 – 1913</td>
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Note 2:

Current Search

Folio Identifier 100/1049508 (title attached)
DP 1049508 (plan attached)
Dated 12th October 2010
Registered Proprietor:
COMMONWEALTH OF AUSTRALIA

Title Tree
Lot 100 DP 1049508

Folio Identifier 100/1049508

(a)                                (b)
Folio Identifier 1/832269          Folio Identifier 2/832269
Folio Identifier 1/547293
Certificate of Title Volume 11651 Folio 249
Certificate of Title Volume 3788 Folio 87

*****
## Summary of Proprietors

**Lot 100 DP 1049508**

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See Notes (a) & (b)

### Note (a)

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<tr>
<td>(Lot 1 DP 547293)</td>
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<tr>
<td>1988 – 1993</td>
<td>Commonwealth of Australia</td>
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<tr>
<td>(Lot 1 DP 547293 – CTVol 11651 Fol 249)</td>
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<tr>
<td>1971 – 1988</td>
<td>Commonwealth of Australia</td>
</tr>
<tr>
<td>(Lots 73 to 76 Section 4 DP 2411 and other lands – Area 9852 Acres 3 Roods 24 ½ Perches – CTVol 3788 Fol 87)</td>
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### Note (b)

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<tr>
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Note 3:

Current Search

Folio Identifier 101/1049508 (title attached)
DP 1049508 (plan attached)
Dated 12th October 2010
Registered Proprietor:
THE COUNCIL OF THE CITY OF LIVERPOOL

Title Tree
Lot 101 DP 1049508

Folio Identifier 100/1049508

(a)          (b)

Folio Identifier 1/832269          Folio Identifier 2/832269

Folio Identifier 1/547293

Certificate of Title Volume 11651 Folio 249

Certificate of Title Volume 3788 Folio 87

*****
Summary of Proprietors
Lot 101 DP 1049508

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See Notes (a) & (b)

Note (a)

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<td>1971 – 1988</td>
<td>Commonwealth of Australia</td>
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<tr>
<td>(Lots 73 to 76 Section 4 DP 2411 and other lands – Area 9852 Acres 3 Roods 24 ½ Perches – CTVol 3788 Fol 87)</td>
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<tr>
<td>1925 – 1971</td>
<td>Commonwealth of Australia</td>
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Note (b)

<table>
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<tr>
<td>(Lots 73 to 76 Section 4 DP 2411 and other lands – Area 9852 Acres 3 Roods 24 ½ Perches – CTVol 3788 Fol 87)</td>
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<td>1925 – 1971</td>
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</tbody>
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Note 4:

Current Search

Folio Identifier 2/547293 (title attached)
DP 547293 (plan attached)
Dated 12th October 2010
Registered Proprietor:
ABB AUSTRALIA PTY LIMITED

Title Tree
Lot 2 DP 547293

Folio Identifier 2/547293
Certificate of Title Volume 11651 Folio 250
Certificate of Title Volume 3788 Folio 87
Commonwealth Government Gazette 7 March 1913 Page 535

*****
### Summary of Proprietors
#### Lot 2 DP 547293

<table>
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<tr>
<td>1988 – 2001</td>
<td>ABB  T &amp; D Administrative Services Pty Ltd</td>
</tr>
<tr>
<td></td>
<td>(formerly Moorebank Properties Pty Ltd)</td>
</tr>
<tr>
<td>(Lot 2 DP 547293 – CTVol 11651 Fol 250)</td>
<td></td>
</tr>
<tr>
<td>1972 – 1988</td>
<td>Moorebank Properties Pty Ltd</td>
</tr>
<tr>
<td>1972 – 1972</td>
<td>Tyre Electrical Co Pty Ltd</td>
</tr>
<tr>
<td>1971 – 1972</td>
<td>Commonwealth of Australia</td>
</tr>
<tr>
<td>(Lots 73 to 76 Section 4 DP 2411 and other lands – Area 9852 Acres 3 Roods 24 ½ Perches – CTVol 3788 Fol 87)</td>
<td></td>
</tr>
<tr>
<td>1925 – 1971</td>
<td>Commonwealth of Australia</td>
</tr>
</tbody>
</table>

****
PLAN OF
Subdivision of part of the land comprised
in C. T. Vol 3788 Fo. 87 being part of the
land acquired by notification in Commonwealth
of Australia Gaz. N° 16 of 7-3-1913 page 535 and
being part Lots 73 to 76 incl. Sec. 4. D.P. 2411

Municipality:
Liverpool

Township/Locality:
Moorebank

Parish:
Hoxtonshire

County:
Cumberland

Scale:
200 feet to an inch

The Plan Form 1 shown above contains information about the subdivision of land and its registration details. It includes a diagram with measurements and notes on the land's boundaries. The plan is signed by a Surveyor and a Council Clerk, and it includes a notice regarding the dedication of public roads and the creation of drainage reserves, easements, or restrictions as to use.

Excerpt from the plan:
"It is intended to consolidate Lot 2 with Lot 2 D.P. 329398 adjoining.

Amendment Noted

[Signatures and seals]

Mayor Town Clerk 21/7/71"

The Plan Form 1 is a legal document and includes all necessary information for the subdivision of the land, ensuring that all regulatory and legal requirements are met.
28th October 2010

PARSONS BRINCKERHOFF AUSTRALIA PTY LIMITED
GPO Box 5394,
SYDNEY NSW 2001

Attention: Lisa Warwick

RE: Land Off, Georges River,
Liverpool / Moorebank

Current Search

Folio Identifier 10/881265 (title attached)
DP 881265 (plan attached)
Dated 23rd October 2010
Registered Proprietor:
THE COUNCIL OF THE CITY OF LIVERPOOL
Title Tree
Lot 10 DP 881265

Folio Identifier 10/881265
Folio Identifier 3/746078
Folio Identifier 1002/550917

Certificate of Title Volume 11746 Folio 151
Certificate of Title Volume 11636 Folio 137
Certificate of Title Volume 11575 Folio 134
Certificate of Title Volume 10444 Folio 10
Certificate of Title Volume 10027 Folios 44 & 45
Certificate of Title Volume 4207 Folio 212
Certificate of Title Volume 2047 Folio 210

*****
**Summary of Proprietors**

**Lot 10 DP 881265**

<table>
<thead>
<tr>
<th>Year</th>
<th>Proprietor</th>
</tr>
</thead>
<tbody>
<tr>
<td>1999 – todate</td>
<td>(Lot 10 DP 881265) The Council of the City of Liverpool</td>
</tr>
<tr>
<td>1993 – 1999</td>
<td>(Lot 3 DP 746078) The Council of the City of Liverpool</td>
</tr>
<tr>
<td>1988 – 1993</td>
<td>(Lot 1002 DP 550917) The Council of the City of Liverpool</td>
</tr>
<tr>
<td>1971 – 1971</td>
<td>Birnleigh Investments Pty Limited (Lot 3 DP 229794 – CTVol 10444 Fol 10)</td>
</tr>
<tr>
<td>1969 – 1971</td>
<td>Birnleigh Investments Pty Limited</td>
</tr>
<tr>
<td>1969 – 1969</td>
<td>John Hitter (Sydney) Pty Limited</td>
</tr>
<tr>
<td>1966 – 1969</td>
<td>Liverpool Golf Club Limited</td>
</tr>
<tr>
<td>1965 – 1966</td>
<td>Liverpool Golf Club Limited</td>
</tr>
<tr>
<td>(1945 – 1955)</td>
<td>(lease to John Gillick Marsden and Jack Jones hotelkeepers and Charles Clark, orchardist)</td>
</tr>
<tr>
<td>1943 – 1952</td>
<td>Thomas Ashcroft, electrical engineer</td>
</tr>
<tr>
<td>(1939 – 1945)</td>
<td>(lease to Francis Augustine Crowe, grazier)</td>
</tr>
<tr>
<td>1938 – 1943</td>
<td>Thomas Ashcroft, electrical engineer / trustee</td>
</tr>
<tr>
<td>1928 – 1938</td>
<td>Leslie James Ashcroft, master butcher</td>
</tr>
<tr>
<td>(Part Portion 270 Parish St Luke and other lands – Area 383 Acres 0 Roods 34 ¾ Perches – CTVol 2047 Fol 210)</td>
<td></td>
</tr>
<tr>
<td>1923 – 1928</td>
<td>Leslie James Ashcroft, master butcher</td>
</tr>
<tr>
<td>1910 – 1923</td>
<td>Edward James Ashcroft, butcher</td>
</tr>
</tbody>
</table>

****
UNLIMITED IN DEPTH

AS A BOUNDARY OF LOT 6, D.P. 77470 AND IS
TO AN INCLINE PLAN AS IDENTIFIED ON SHEET 7
VARAIBLE WIDTH IS A STRAIGHT LIMITED IN HEIGHT

[CC] PROPOSED EASEMENT TO DRAIN WATER & WIDE ABOVE

WARNING: USE OF ROLLING STONE WILL LEAD TO REMEDY
PLANNING CERTIFICATE UNDER SECTION 149
ENVIRONMENTAL PLANNING AND ASSESSMENT ACT 1979

Ref.: EMAIL
Ppty: 164539
Cert. No.: 2203
Page No.: 1
Receipt No.: 1821329
Receipt Amt.: 100.00
Date: 11-Nov-2010

Applicant: PARSONS BRINCKERHOFF
LEVEL 27, 680 GEORGE STREET
SYDNEY NSW 2001

Owner: (as recorded by Council):
DEPT OF FINANCE & ADMINISTRATION
DOMESTIC PROPERTY GROUP
PO BOX 1920
CANBERRA ACT 2601

Property Desc: LOT 100 BAPAUME ROAD, MOOREBANK NSW 2170
LOT 100 DP 1049508

PART A
PRESCRIBED INFORMATION PROVIDED PURSUANT
TO SECTION 149(2) OF THE ENVIRONMENTAL PLANNING AND ASSESSMENT
ACT 1979

NOTE: The following information is provided pursuant to Section 149(2) of the Environmental Planning and Assessment Act (EP&A Act) 1979 as prescribed by Schedule 4 of the Environmental Planning and Assessment Regulation (EP&A Regulation) 2000 and is applicable to the subject land as of the date of this certificate.

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.
1. Names of Relevant LEP’s, DCP’s, REPs, and SEPPs

(1)(a) The names of each local environment plan and deemed environmental planning instrument applying to the land is/are listed below:

Name of Instrument: Liverpool Local Environmental Plan 2008
Name of Zone: IN1 General Industrial

(1)(b) Draft Local Environmental Plan(s)
The names of each draft Local Environmental Plan applying to the land that has been placed on exhibition under section 66(1)(b) of the Act, is/are listed below:

Name of Draft Instrument: Draft Liverpool Local Environmental Plan 2008 Amendment No: 5 – Anomalies
Name of Zone: Subject to all zones

(1)(c) Development Control Plan(s) under Section 72
The names of each Development Control Plan applying to the land has been prepared by the council under section 72 of the Act is/are listed below:

Liverpool Development Control Plan 2008 (as amended).

Development Control Plan(s) under Section 51A
The names of each Development Control Plan applying to the land that has been prepared by the Director-General under section 51A of the Act are listed as follows:

Nil

(2)(a) Regional Environmental Plan(s)
The names of each Regional Environmental Plan applying to the land is/are listed below:

Greater Metropolitan Regional Environmental Plan No. 2 – Georges River Catchment
This plan aims to preserve and protect and to encourage the restoration or rehabilitation of regionally significant sensitive natural environments, to preserve, enhance and protect the freshwater and estuarine ecosystems within the Catchment and to ensure that development achieves the environmental objectives for the Catchment.

(2)(b) Draft Regional Environmental Plan(s)
The names of each draft Regional Environmental Plan applying to the land that has been placed on exhibition under section 47(b) of the Act is/are listed below:

Nil
(3)(a) State Environmental Planning Policy(s)
The names of each State Environmental Planning Policy applying to the land are listed below:

State Environmental Planning Policy No. 6 – Number of Storeys in a Building
State Environmental Planning Policy No. 19 – Bushland in Urban Areas
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)
State Environmental Planning Policy No. 33 – Hazardous and Offensive Development
State Environmental Planning Policy No. 44 – Koala Habitat
State Environmental Planning Policy No. 50 – Canal Estate Development
State Environmental Planning Policy No. 55 – Remediation of Land
State Environmental Planning Policy – (Exempt and Complying Development Codes) 2008
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 – (Building Sustainability Index: BASIX) 2004
State Environmental Planning Policy – (Major Development) 2005
State Environmental Planning Policy – Affordable Housing (Revised Scheme) 2009
State Environmental Planning Policy – (Infrastructure) 2007
State Environmental Planning Policy – (Mine, Petrol Prod and Extractive Ind) 2007
State Environmental Planning Policy – (Temporary Structures and Places Public Entertainment) 2007
State Environmental Planning Policy – (Affordable Rental Housing) 2009

3(b) Draft State Environmental Planning Policy(s)
The names of each draft State Environmental Planning Policy applying to the land that has been publicised as referred to in section 39(2) of the Act are listed below:

Draft State Environmental Planning Policy No. 66 – Integration of Land Use and Transport

2. ZONING AND LAND USE UNDER RELEVANT LOCAL ENVIRONMENTAL PLANS
(a) The identity of the zone, whether by reference to a name or by reference to a number is/are listed in:

Section (1)(a) of this Planning Certificate.

(b) The purposes for which the plan or instrument provides that development may be carried out within the zone without the need for development consent is/are detailed in the Liverpool Local Environmental Plan 2008:
See Part 2 (Permitted or prohibited development), Part 3 (Exempt and complying development), and Schedule 2 (Exempt development) of Liverpool Local Environmental Plan 2008.

(c) The purposes for which the plan or instrument provides that development may not be carried out within the zone except with development consent is/are detailed in the Liverpool Local Environmental Plan 2008:

See Part 2 (Permitted or prohibited development), Part 3 (Exempt and complying development), Schedule 1 (Additional uses) and Schedule 3 (Complying development) of Liverpool Local Environmental Plan 2008.

(d) The purposes for which the plan or instrument provides that development is/are prohibited within the zone are detailed in the Liverpool Local Environmental Plan 2008:

See Part 2 (Permitted or prohibited development) of Liverpool Local Environmental Plan 2008.

Should you require further information about development standards and restrictions on development for any particular purpose or any purpose that may have an effect of prohibiting development, it is recommended that you consult the Liverpool Local Environmental Plan 2008 and/or Liverpool Development Control Plan 2008.

(e) Dwelling House
The development standards applying to the land that fix minimum land dimensions for the erection of a dwelling house on the land is/are listed below:

The land’s dimensions (when considered in isolation) are not such as to prohibit the erection of a dwelling house on the land. However, Liverpool Local Environmental Plan 2008 prohibits the erection of a dwelling house within the zone that applies to the land.

(f) Critical Habitat
The provisions applying to the land that relate to critical habitat is/are outlined below:

The land is subject to the provisions of Clause 5.9 of the Liverpool Local Environmental Plan 2008. The clause relates to the preservation of trees or vegetation on the land.

The land is subject to the provisions of Clause 7.6 of the Liverpool Local Environmental Plan 2008. The clause relates to additional considerations given to development on environmentally significant land.

The land does not include or comprise critical habitat.
(g) Conservation Area
The provisions applying to the land that relate to a conservation area is/are outlined below: -

Land is not located in a Conservation Area.

(h) Environmental Heritage
The provisions applying to the land that relate to an item of environmental heritage is/are outlined below: -

An item of Environmental Heritage is not situated on the land.

3. COMPLYING DEVELOPMENT
Complying development under the Housing Internal Alterations Code may be carried out on the land.

Complying Development under the General Commercial and Industrial Code may be carried out on this land.

Complying development under the General Housing Code may not be carried out on the land.

This land is excluded being land that is identified in as being bush fire prone land.

4. Coastal Protection Act 1979
There has been no notification from the Department of Public Works that the land is subject to the operation of Section 38 or 39 of the Coastal Protection Act, 1979.

5. Mine Subsidence
The land is not within an area proclaimed to be a mine subsidence district within the meaning of the Mine Subsidence Compensation Act, 1961.

6. Road Widening and Road Realignment
The provisions applying to the land that relate to road widening or road realignment is/are outlined below: -

The land is not affected by any road widening or road realignment under Division 2 of Part 3 of the Roads Act 1993, any environmental planning instrument or any resolution of the Council.

7. Council and Other Public Authority Policies on Hazard Risk Restrictions
The policies applying to the land from Council and other Public Authorities regarding hazard risk restrictions is/are outlined below: -

(a) Council Policy – Other Risks
The land is not affected by a policy adopted by Council that restricts the development
of the land because of the likelihood of land slip, bushfire, tidal inundation, subsidence or any other risk.

However, the land is affected by Liverpool Local Environmental Plan 2008 that restricts the development of the land because of the likelihood of acid sulphate soils. **The land is not affected** by a policy adopted by 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.

However, the land is affected by the *Rural Fires Act 1997* that restricts the development of the land because of the likelihood of bushfire.

(b) Public Authority Policies
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 the planning certificates issued by the Council, that restricts the development of the land because of the likelihood of land slip, bushfire, flooding, tidal inundation, subsidence, acid sulphate soils or any other risk.

7A. Flood Related Development Controls Information

1. Development on the subject land for the purposes of dwelling houses, dual occupancies, multi dwelling housing or residential flat buildings is not subject to flood related development controls (provided that each development is permissible on the land with or without development consent).

2. Development on the subject land for any purpose is not subject to flood related development controls (provided that each development is permissible on the land with or without development consent).

3. The expressions “dwelling houses,” “dual occupancies,” “multi dwelling housing” and “residential flat buildings” as used in clauses (1) and (2) above have the same meanings as in the instrument set out in the Schedule of the Standard Instrument (Local Environmental Plans) Order 2006 but do not include development for the purposes of “group homes” or “seniors housing”.

8. Land Reserved for Acquisition
The provisions applying to the land that relate to acquisition of the land by a public authority is/are listed below: -

Nil

*Liverpool Local Environmental Plan 2008* applies to the land and does not provide for the acquisition of the land by a public authority, as referred to in Section 27 of the Act.
9. CONTRIBUTION PLANS
The name of each contribution plan applying to the land is/are outlined below:

Liverpool Contributions Plan 2001

10. Matters arising to the Contaminated Land Management Amendment Act 2009
NSW)
The land to which this certificate relates is the subject of a site audit statement within the
meaning of that Act – if a copy of such a statement has been provided at any time to the local
authority issuing the certificate.

11. Bushfire Prone Land
Part of the land subject to this certificate is bushfire prone land as defined in the
Environmental Planning and Assessment Act 1979.

12. Property Vegetation Plans
The provisions applying to the land that relate to property vegetation plans is/are listed
below:

The land subject to this certificate is not affected by the Native Vegetation Act 2003 as defined
in the Environmental Planning and Assessment Act 1979.

13. Orders under Trees (Disputes Between Neighbours Act 2006)
There has been no notification that the land subject of this certificate is affected by an
order to carry out work in relation to a tree on the land under the Trees (Disputes Between
Neighbours Act 2006).

14. Directions under Part 3A
There has been no notification of 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 stage of a project on the land under Part 4 of
the Act does not have effect.

15. Site Compatibility Certificates and Conditions for Seniors Housing
There has been no notification of a current site compatibility certificate issued under clause
25 of the State Environmental Planning Policy (Housing for Seniors or People with a
Disability) 2004 in respect of proposed development on the land.

16. Site Compatibility Certificates for Infrastructure
There has been no notification of a valid site compatibility certificate for the land subject of
this certificate issued under clause 19 of the State Environmental Planning Policy

17. Site Compatibility Certificates and Condition for Affordable Rental Housing
Council is not aware of a current site compatibility certificate (affordable rental
housing) in respect of proposed development on the land.
1. **Threatened Species Conservation Act**
   It is advisable for any application intending to purchase and/or develop land within the Liverpool Local Government Area to approach Council to ascertain if the requirements of the Threatened Species Act, 1995 are likely to apply to their land.

   If the land has native vegetation of any sort (ie trees, shrubs, ground covers etc), has recently been cleared or is vacant land, it may have impediments to development under the Threatened Species Act, 1995.

   This notation should be read in conjunction with Liverpool Local Environmental Plan 2008, and the Threatened Species Act, 1995.

   Enquiries should be directed to Council’s Department of Environment and Community.

2. **Tree Preservation Provision**
   The land is subject to a tree preservation provision under the Liverpool Local Environmental Plan 2008.

3. **Controlled Access Road**
   The land has a boundary to a controlled access road under the provisions of the Liverpool Local Environmental Plan 2008.

4. **Notices**
   No notices/orders have been served in respect of a breach of the provisions of an environmental planning instrument occurring on the land.

5. **Other Information in Relation to Water**
   The property is identified as flood prone and is with the low risk flood category. Low Flood Risk Category means all other within the floodplain (within the extent of probable maximum flood) bit not identified within either the High Flood Risk or the Medium Flood Risk Category. (See Liverpool Development Control Plan 2008 for controls relating to flood prone land). For further information on flood risk contact Council on 9821 9222.

6. **Sydney Water Corporation**
   Nil

7. **Foreshore Building Line**
   Nil

8. **Contaminated Land**
Nil

9. Airport Noise Affectation
   Badgery’s Creek Airport
   Nil
   
   Hoxton Park Airport
   Nil

10. Airport Acquisition
    Nil

11. Environmentally Significant Land
    Nil

12. Archaeological Management Plan
    Nil

13. Unhealthy Building Land Proclamation
    Nil

For further information, please contact
CALL CENTRE – 9821 9222

Mr Milan Marecic
Director – City Strategy
Liverpool City Council
PLANNING CERTIFICATE UNDER SECTION 149
ENVIRONMENTAL PLANNING AND ASSESSMENT ACT 1979

Ref.: EMAIL
Ppty: 164540
Applicant: PARSONS BRINCKERHOFF
LEVEL 27, 680 GEORGE STREET
SYDNEY NSW 2001

Cert. No.: 2204
Page No.: 1
Receipt No.: 1821329
Receipt Amt.: 100.00
Date: 11-Nov-2010

Owner: (as recorded by Council):
LIVERPOOL CITY COUNCIL
LOCKED BAG 7064
LIVERPOOL BC NSW 1871

Property Desc: LOT 101 MOOREBANK (ARMY) AVENUE, MOOREBANK NSW 2170
LOT 101 DP 1049508

NOTE: The following information is provided pursuant to Section 149(2) of the Environmental Planning and Assessment Act (EP&A Act) 1979 as prescribed by Schedule 4 of the Environmental Planning and Assessment Regulation (EP&A Regulation) 2000 and is applicable to the subject land as of the date of this certificate.

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.
1. Names of Relevant LEP’s, DCP’s, REPs, and SEPPs

(1)(a) The names of each local environment plan and deemed environmental planning instrument applying to the land is/are listed below:

   **Name of Instrument:** Liverpool Local Environmental Plan 2008  
   **Name of Zone:** IN1 General Industrial

(1)(b) Draft Local Environmental Plan(s)

   The names of each draft Local Environmental Plan applying to the land that has been placed on exhibition under section 66(1)(b) of the Act, is/are listed below:

   **Name of Draft Instrument:** Draft Liverpool Local Environmental Plan 2008 Amendment No: 5 – Anomalies  
   **Name of Zone:** Subject to all zones

(1)(c) Development Control Plan(s) under Section 72

   The names of each Development Control Plan applying to the land has been prepared by the council under section 72 of the Act is/are listed below:

   Liverpool Development Control Plan 2008 (as amended).

Development Control Plan(s) under Section 51A

   The names of each Development Control Plan applying to the land that has been prepared by the Director-General under section 51A of the Act are listed as follows:

   Nil

(2)(a) Regional Environmental Plan(s)

   The names of each Regional Environmental Plan applying to the land is/are listed below:

   Greater Metropolitan Regional Environmental Plan No. 2 – Georges River Catchment  
   This plan aims to preserve and protect and to encourage the restoration or rehabilitation of regionally significant sensitive natural environments, to preserve, enhance and protect the freshwater and estuarine ecosystems within the Catchment and to ensure that development achieves the environmental objectives for the Catchment.

(2)(b) Draft Regional Environmental Plan(s)

   The names of each draft Regional Environmental Plan applying to the land that has been placed on exhibition under section 47(b) of the Act is/are listed below:

   Nil
(3)(a) **State Environmental Planning Policy(s)**

The names of each State Environmental Planning Policy applying to the land are listed below:

- State Environmental Planning Policy No. 6 – Number of Storeys in a Building
- State Environmental Planning Policy No. 19 – Bushland in Urban Areas
- 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)
- State Environmental Planning Policy No. 33 – Hazardous and Offensive Development
- State Environmental Planning Policy No. 44 – Koala Habitat
- State Environmental Planning Policy No. 50 – Canal Estate Development
- State Environmental Planning Policy No. 55 – Remediation of Land
- State Environmental Planning Policy – (Exempt and Complying Development Codes) 2008
- 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 – (Building Sustainability Index: BASIX) 2004
- State Environmental Planning Policy – (Major Development) 2005
- State Environmental Planning Policy – Affordable Housing (Revised Scheme) 2009
- State Environmental Planning Policy – (Infrastructure) 2007
- State Environmental Planning Policy – (Mine, Petrol Prod and Extractive Ind) 2007
- State Environmental Planning Policy – (Temporary Structures and Places Public Entertainment) 2007
- State Environmental Planning Policy – (Affordable Rental Housing) 2009

3(b) **Draft State Environmental Planning Policy(s)**

The names of each draft State Environmental Planning Policy applying to the land that has been publicised as referred to in section 39(2) of the Act are listed below:

Draft State Environmental Planning Policy No. 66 – Integration of Land Use and Transport

2. **ZONING AND LAND USE UNDER RELEVANT LOCAL ENVIRONMENTAL PLANS**

(a) The identity of the zone, whether by reference to a name or by reference to a number is/are listed in:

Section (1)(a) of this Planning Certificate.

(b) The purposes for which the plan or instrument provides that development may be carried out within the zone without the need for development consent is/are detailed in the Liverpool Local Environmental Plan 2008:
See Part 2 (Permitted or prohibited development), Part 3 (Exempt and complying development), and Schedule 2 (Exempt development) of Liverpool Local Environmental Plan 2008.

(c) The purposes for which the plan or instrument provides that development may not be carried out within the zone except with development consent is/are detailed in the Liverpool Local Environmental Plan 2008: -

See Part 2 (Permitted or prohibited development), Part 3 (Exempt and complying development), Schedule 1 (Additional uses) and Schedule 3 (Complying development) of Liverpool Local Environmental Plan 2008.

(d) The purposes for which the plan or instrument provides that development is/are prohibited within the zone are detailed in the Liverpool Local Environmental Plan 2008: -

See Part 2 (Permitted or prohibited development) of Liverpool Local Environmental Plan 2008.

Should you require further information about development standards and restrictions on development for any particular purpose or any purpose that may have an effect of prohibiting development, it is recommended that you consult the Liverpool Local Environmental Plan 2008 and/or Liverpool Development Control Plan 2008.

(e) Dwelling House
The development standards applying to the land that fix minimum land dimensions for the erection of a dwelling house on the land is/are listed below: -

The land’s dimensions (when considered in isolation) are not such as to prohibit the erection of a dwelling house on the land. However, Liverpool Local Environmental Plan 2008 prohibits the erection of a dwelling house within the zone that applies to the land.

(f) Critical Habitat
The provisions applying to the land that relate to critical habitat is/are outlined below: -

The land is subject to the provisions of Clause 5.9 of the Liverpool Local Environmental Plan 2008. The clause relates to the preservation of trees or vegetation on the land.

The land is subject to the provisions of Clause 7.6 of the Liverpool Local Environmental Plan 2008. The clause relates to additional considerations given to development on environmentally significant land.

The land does not include or comprise critical habitat.
(g) **Conservation Area**
The provisions applying to the land that relate to a conservation area is/are outlined below:

*Land is not located in* a Conservation Area.

(h) **Environmental Heritage**
The provisions applying to the land that relate to an item of environmental heritage is/are outlined below:

An item of Environmental Heritage is not situated on the land.

3. **COMPLYING DEVELOPMENT**
Complying development under the Housing Internal Alterations Code **may** be carried out on the land.

Complying Development under the General Commercial and Industrial Code **may** be carried out on this land.

Complying development under the General Housing Code **may not** be carried out on the land.

This land is excluded being land that is identified in as being bush fire prone land.

4. **Coastal Protection Act 1979**
There has been no notification from the Department of Public Works that the land is subject to the operation of Section 38 or 39 of the Coastal Protection Act, 1979.

5. **Mine Subsidence**
The land is not within an area proclaimed to be a mine subsidence district within the meaning of the Mine Subsidence Compensation Act, 1961.

6. **Road Widening and Road Realignment**
The provisions applying to the land that relate to road widening or road realignment is/are outlined below:

The land is not affected by any road widening or road realignment under Division 2 of Part 3 of the Roads Act 1993, any environmental planning instrument or any resolution of the Council.

7. **Council and Other Public Authority Policies on Hazard Risk Restrictions**
The policies applying to the land from Council and other Public Authorities regarding hazard risk restrictions is/are outlined below:

(a) **Council Policy – Other Risks**
The land is not affected by a policy adopted by Council that restricts the development
of the land because of the likelihood of land slip, bushfire, tidal inundation, subsidence or any other risk.

However, the land is affected by Liverpool Local Environmental Plan 2008 that restricts the development of the land because of the likelihood of acid sulphate soils. **The land is not affected** by a policy adopted by 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.

However, the land is affected by the *Rural Fires Act 1997* that restricts the development of the land because of the likelihood of bushfire.

(b) **Public Authority Policies**

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 the planning certificates issued by the Council, that restricts the development of the land because of the likelihood of land slip, bushfire, flooding, tidal inundation, subsidence, acid sulphate soils or any other risk.

7A. **Flood Related Development Controls Information**

1. Development on the subject land for the purposes of dwelling houses, dual occupancies, multi dwelling housing or residential flat buildings is not subject to flood related development controls (provided that each development is permissible on the land with or without development consent).

2. Development on the subject land for any purpose is not subject to flood related development controls (provided that each development is permissible on the land with or without development consent).

3. The expressions “dwelling houses,” “dual occupancies,” “multi dwelling housing” and “residential flat buildings” as used in clauses (1) and (2) above have the same meanings as in the instrument set out in the Schedule of the Standard Instrument (Local Environmental Plans) Order 2006 but do not include development for the purposes of “group homes” or “seniors housing”.

8. **Land Reserved for Acquisition**

The provisions applying to the land that relate to acquisition of the land by a public authority is/are listed below:

Nil

*Liverpool Local Environmental Plan 2008* applies to the land and does not provide for the acquisition of the land by a public authority, as referred to in Section 27 of the Act.
9. CONTRIBUTION PLANS
The name of each contribution plan applying to the land is/are outlined below:
- Liverpool Contributions Plan 2001

10. Matters arising to the Contaminated Land Management Amendment Act 2009 (NSW)
The land to which this certificate relates is the subject of a site audit statement within the meaning of that Act – if a copy of such a statement has been provided at any time to the local authority issuing the certificate.

11. Bushfire Prone Land

12. Property Vegetation Plans
The provisions applying to the land that relate to property vegetation plans is/are listed below:
The land subject to this certificate is not affected by the Native Vegetation Act 2003 as defined in the Environmental Planning and Assessment Act 1979.

13. Orders under Trees (Disputes Between Neighbours Act 2006)
There has been no notification that the land subject of this certificate is affected by an order to carry out work in relation to a tree on the land under the Trees (Disputes Between Neighbours Act 2006).

14. Directions under Part 3A
There has been no notification of 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 stage of a project on the land under Part 4 of the Act does not have effect.

15. Site Compatibility Certificates and Conditions for Seniors Housing
There has been no notification of a current site compatibility certificate issued under clause 25 of the State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 in respect of proposed development on the land.

16. Site Compatibility Certificates for Infrastructure
There has been no notification of a valid site compatibility certificate for the land subject of this certificate issued under clause 19 of the State Environmental Planning Policy (Infrastructure) 2007.

17. Site Compatibility Certificates and Condition for Affordable Rental Housing
Council is not aware of a current site compatibility certificate (affordable rental housing) in respect of proposed development on the land.

PART B
ADDITIONAL INFORMATION PROVIDED PURSUANT TO SECTION 149(5) OF THE ENVIRONMENTAL PLANNING & ASSESSMENT ACT 1979
1. **Threatened Species Conservation Act**

   It is advisable for any application intending to purchase and/or develop land within the Liverpool Local Government Area to approach Council to ascertain if the requirements of the Threatened Species Act, 1995 are likely to apply to their land.

   If the land has native vegetation of any sort (i.e., trees, shrubs, ground covers etc), has recently been cleared or is vacant land, it may have impediments to development under the Threatened Species Act, 1995.

   This notation should be read in conjunction with Liverpool Local Environmental Plan 2008, and the Threatened Species Act, 1995.

   Enquiries should be directed to Council’s Department of Environment and Community.

2. **Tree Preservation Provision**

   The land is subject to a tree preservation provision under the Liverpool Local Environmental Plan 2008.

3. **Controlled Access Road**
   The land has a boundary to a controlled access road under the provisions of the Liverpool Local Environmental Plan 2008.

4. **Notices**

   No notices/orders have been served in respect of a breach of the provisions of an environmental planning instrument occurring on the land.

5. **Other Information in Relation to Water**

   The property is identified as flood prone and is with the low risk flood category. Low Flood Risk Category means all other within the floodplain (within the extent of probable maximum flood) bit not identified within either the High Flood Risk or the Medium Flood Risk Category. (See Liverpool Development Control Plan 2008 for controls relating to flood prone land). For further information on flood risk contact Council on 9821 9222.

6. **Sydney Water Corporation**

   Nil

7. **Foreshore Building Line**

   Nil

8. **Contaminated Land**

   Nil
9. Airport Noise Affectation
   Badgery’s Creek Airport
   Nil

   Hoxton Park Airport
   Nil

10. Airport Acquisition
    Nil

11. Environmentally Significant Land
    Nil

12. Archaeological Management Plan
    Nil

13. Unhealthy Building Land Proclamation
    Nil

For further information, please contact
CALL CENTRE – 9821 9222

Mr Milan Marecic
Director – City Strategy
Liverpool City Council
PLANNING CERTIFICATE UNDER SECTION 149
ENVIRONMENTAL PLANNING AND ASSESSMENT ACT 1979

Ref.: EMAIL
Ppty: 12889
Cert. No.: 2201
Page No.: 1
Receipt No.: 1821329
Receipt Amt.: 100.00
Date: 11-Nov-2010

Applicant: PARSONS BRINCKERHOFF
LEVEL 27, 680 GEORGE STREET
SYDNEY NSW 2001
Owner: (as recorded by Council):
LIVERPOOL CITY COUNCIL
LOCKED BAG 7064
LIVERPOOL BC NSW 1871

Property Desc: MILL PARK, 474 HUME HIGHWAY, CASULA NSW 2170
LOT 10 DP 881265

PART A
PRESCRIBED INFORMATION PROVIDED PURSUANT TO SECTION 149(2) OF THE ENVIRONMENTAL PLANNING AND ASSESSMENT ACT 1979

NOTE: The following information is provided pursuant to Section 149(2) of the Environmental Planning and Assessment Act (EP&A Act) 1979 as prescribed by Schedule 4 of the Environmental Planning and Assessment Regulation (EP&A Regulation) 2000 and is applicable to the subject land as of the date of this certificate.

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.
1. Names of Relevant LEP’s, DCP’s, REPs, and SEPPs

   (1)(a) The names of each local environment plan and deemed environmental planning instrument applying to the land is/are listed below: -

   Name of Instrument: Liverpool Local Environmental Plan 2008
   Name of Zone: RE1 Public Recreation
   SP2 Infrastructure - Classified Road

   (1)(b) Draft Local Environmental Plan(s)
   The names of each draft Local Environmental Plan applying to the land that has been placed on exhibition under section 66(1)(b) of the Act, is/are listed below: -

   Name of Draft Instrument: Draft Liverpool Local Environmental Plan 2008
   Amendment No: 5 – Anomalies
   Name of Zone: Subject to all zones

   (1)(c) Development Control Plan(s) under Section 72
   The names of each Development Control Plan applying to the land has been prepared by the council under section 72 of the Act is/are listed below: -

   Liverpool Development Control Plan 2008 (as amended).

   Development Control Plan(s) under Section 51A
   The names of each Development Control Plan applying to the land that has been prepared by the Director-General under section 51A of the Act are listed as follows: -

   Nil

   (2)(a) Regional Environmental Plan(s)
   The names of each Regional Environmental Plan applying to the land is/are listed below:

   Greater Metropolitan Regional Environmental Plan No. 2 – Georges River Catchment
   This plan aims to preserve and protect and to encourage the restoration or rehabilitation of regionally significant sensitive natural environments, to preserve, enhance and protect the freshwater and estuarine ecosystems within the Catchment and to ensure that development achieves the environmental objectives for the Catchment.

   (2)(b) Draft Regional Environmental Plan(s)
   The names of each draft Regional Environmental Plan applying to the land that has been placed on exhibition under section 47(b) of the Act is/are listed below:

   Nil
(3)(a) **State Environmental Planning Policy(s)**

The names of each State Environmental Planning Policy applying to the land are listed below:

- State Environmental Planning Policy No. 6 – Number of Storeys in a Building
- State Environmental Planning Policy No. 19 – Bushland in Urban Areas
- 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)
- State Environmental Planning Policy No. 33 – Hazardous and Offensive Development
- State Environmental Planning Policy No. 44 – Koala Habitat
- State Environmental Planning Policy No. 50 – Canal Estate Development
- State Environmental Planning Policy No. 55 – Remediation of Land
- State Environmental Planning Policy – (Exempt and Complying Development Codes) 2008
- 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 – (Building Sustainability Index: BASIX) 2004
- State Environmental Planning Policy – (Major Development) 2005
- State Environmental Planning Policy – Affordable Housing (Revised Scheme) 2009
- State Environmental Planning Policy – (Infrastructure) 2007
- State Environmental Planning Policy – (Mine, Petrol Prod and Extractive Ind) 2007
- State Environmental Planning Policy – (Temporary Structures and Places Public Entertainment) 2007
- State Environmental Planning Policy – (Affordable Rental Housing) 2009

3(b) **Draft State Environmental Planning Policy(s)**

The names of each draft State Environmental Planning Policy applying to the land that has been publicised as referred to in section 39(2) of the Act are listed below:

Draft State Environmental Planning Policy No. 66 – Integration of Land Use and Transport

2. **ZONING AND LAND USE UNDER RELEVANT LOCAL ENVIRONMENTAL PLANS**

(a) **Section (1)(a) of this Planning Certificate.**

(b) The purposes for which the plan or instrument provides that development may be carried out within the zone without the need for development consent are detailed in the Liverpool Local Environmental Plan 2008:
See Part 2 (Permitted or prohibited development), Part 3 (Exempt and complying development), and Schedule 2 (Exempt development) of Liverpool Local Environmental Plan 2008.

(c) The purposes for which the plan or instrument provides that development may not be carried out within the zone except with development consent is/are detailed in the Liverpool Local Environmental Plan 2008: -

See Part 2 (Permitted or prohibited development), Part 3 (Exempt and complying development), Schedule 1 (Additional uses) and Schedule 3 (Complying development) of Liverpool Local Environmental Plan 2008.

(d) The purposes for which the plan or instrument provides that development is/are prohibited within the zone are detailed in the Liverpool Local Environmental Plan 2008: -

See Part 2 (Permitted or prohibited development) of Liverpool Local Environmental Plan 2008.

Should you require further information about development standards and restrictions on development for any particular purpose or any purpose that may have an effect of prohibiting development, it is recommended that you consult the Liverpool Local Environmental Plan 2008 and/or Liverpool Development Control Plan 2008.

(e) Dwelling House
The development standards applying to the land that fix minimum land dimensions for the erection of a dwelling house on the land is/are listed below: -

The land’s dimensions (when considered in isolation) are not such as to prohibit the erection of a dwelling house on the land. However, Liverpool Local Environmental Plan 2008 prohibits the erection of a dwelling house within the zone that applies to the land.

(f) Critical Habitat
The provisions applying to the land that relate to critical habitat is/are outlined below:-

The land is subject to the provisions of Clause 5.9 of the Liverpool Local Environmental Plan 2008. The clause relates to the preservation of trees or vegetation on the land.

The land is subject to the provisions of Clause 7.6 of the Liverpool Local Environmental Plan 2008. The clause relates to additional considerations given to development on environmentally significant land.

The land does not include or comprise critical habitat.
(g) **Conservation Area**
The provisions applying to the land that relate to a conservation area is/are outlined below:

*Land is not located in* a Conservation Area.

(h) **Environmental Heritage**
The provisions applying to the land that relate to an item of environmental heritage is/are outlined below:

An item of the Environmental Heritage is situated on the land. Refer to Schedule 5 – Environmental Heritage under Liverpool Local Environmental Plan 2008.

3. **COMPLYING DEVELOPMENT**
Complying development under the General Housing Code **may not** be carried out on the land.

Complying development under the Housing Internal Alterations Code **may not** be carried out on the land.

Complying Development under the General Commercial and Industrial Code **may not** be carried out on this land.

This land is excluded being land that is identified in an environmental planning instrument as being within an area that is environmentally sensitive.

This land is excluded being land that comprises, or on which there is a local heritage item or draft local heritage item identified in an Environmental Planning Instrument.

This land is excluded being land that is identified in as being bush fire prone land.

This land is excluded being land identified in an environmental planning instrument as being a flood control lot.

4. **Coastal Protection Act 1979**
There has been no notification from the Department of Public Works that the land is subject to the operation of Section 38 or 39 of the Coastal Protection Act, 1979.

5. **Mine Subsidence**
The land is not within an area proclaimed to be a mine subsidence district within the meaning of the Mine Subsidence Compensation Act, 1961.

6. **Road Widening and Road Realignment**
The provisions applying to the land that relate to road widening or road realignment is/are outlined below:

[Administrative Information]
The land is not affected by any road widening or road realignment under Division 2 of Part 3 of the Roads Act 1993, any environmental planning instrument or any resolution of the Council.

7. Council and Other Public Authority Policies on Hazard Risk Restrictions
The policies applying to the land from Council and other Public Authorities regarding hazard risk restrictions is/are outlined below:

(a) Council Policy – Other Risks
The land is not affected by a policy adopted by Council that restricts the development of the land because of the likelihood of land slip, bushfire, tidal inundation, subsidence or any other risk.

However, the land is affected by Liverpool Local Environmental Plan 2008 that restricts the development of the land because of the likelihood of acid sulphate soils.

The land is not affected by a policy adopted by 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.

However, the land is affected by the Rural Fires Act 1997 that restricts the development of the land because of the likelihood of bushfire.

(b) Public Authority Policies
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 the planning certificates issued by the Council, that restricts the development of the land because of the likelihood of land slip, bushfire, flooding, tidal inundation, subsidence, acid sulphate soils or any other risk.

7A. Flood Related Development Controls Information

1. The property is affected by flood inundation and therefore the controls applying to residential forms of development contained with the Liverpool Local Environmental Plan 2008 and Development Control Plan 2008 apply to this property.

2. The property is affected by flood inundation and therefore the controls applying to all forms of development contained with the Liverpool Local Environmental Plan 2008 and Development Control Plan 2008 apply to this property.

3. The expressions “dwelling houses,” “dual occupancies,” “multi dwelling housing” and “residential flat buildings” as used in clauses (1) and (2) above have the same meanings as in the instrument set out in the Schedule of the Standard Instrument (Local Environmental Plans) Order 2006 but do not include development for the purposes of “group homes” or “seniors housing”.

8. Land Reserved for Acquisition
PLANNING CERTIFICATE UNDER SECTION 149 Cert. No.: 2201
ENVIRONMENTAL PLANNING AND ASSESSMENT ACT 1979 Page No.: 7

The provisions applying to the land that relate to acquisition of the land by a public authority is/are listed below:

Nil

**Liverpool Local Environmental Plan 2008** applies to the land and provides for the acquisition of the land by a public authority, as referred to in Section 27 of the Act.

9. **CONTRIBUTION PLANS**
The name of each contribution plan applying to the land is/are outlined below:
**Liverpool Contributions Plan 2001**

10. **Matters arising to the Contaminated Land Management Amendment Act 2009 (NSW)**
Nil

11. **Bushfire Prone Land**
**Part of the land subject** to this certificate is bushfire prone land as defined in the Environmental Planning and Assessment Act 1979.

12. **Property Vegetation Plans**
The provisions applying to the land that relate to property vegetation plans is/are listed below:

The land subject to this certificate is not affected by the Native Vegetation Act 2003 as defined in the Environmental Planning and Assessment Act 1979.

13. **Orders under Trees (Disputes Between Neighbours Act 2006)**
There has been no notification that the land subject of this certificate is affected by an order to carry out work in relation to a tree on the land under the Trees (Disputes Between Neighbours Act 2006).

14. **Directions under Part 3A**
There has been no notification of 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 stage of a project on the land under Part 4 of the Act does not have effect.

15. **Site Compatibility Certificates and Conditions for Seniors Housing**
There has been no notification of a current site compatibility certificate issued under clause 25 of the State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 in respect of proposed development on the land.

16. **Site Compatibility Certificates for Infrastructure**
There has been no notification of a valid site compatibility certificate for the land subject of this certificate issued under clause 19 of the State Environmental Planning Policy (Infrastructure) 2007.

17. Site Compatibility Certificates and Condition for Affordable Rental Housing
Council is not aware of a current site compatibility certificate (affordable rental housing) in respect of proposed development on the land.

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**PART B**

ADDITIONAL INFORMATION PROVIDED PURSUANT TO SECTION 149(5) OF THE ENVIRONMENTAL PLANNING & ASSESSMENT ACT 1979

1. Threatened Species Conservation Act
It is advisable for any application intending to purchase and/or develop land within the Liverpool Local Government Area to approach Council to ascertain if the requirements of the Threatened Species Act, 1995 are likely to apply to their land.

If the land has native vegetation of any sort (i.e., trees, shrubs, ground covers etc), has recently been cleared or is vacant land, it may have impediments to development under the Threatened Species Act, 1995.

This notation should be read in conjunction with Liverpool Local Environmental Plan 2008, and the Threatened Species Act, 1995.

Enquiries should be directed to Council’s Department of Environment and Community.

2. Tree Preservation Provision
The land is subject to a tree preservation provision under the Liverpool Local Environmental Plan 2008.

3. Controlled Access Road
   **The land does not have** a boundary to a controlled access road under the provisions of the Liverpool Local Environmental Plan 2008.

4. Notices
   No notices/orders have been served in respect of a breach of the provisions of an environmental planning instrument occurring on the land.

5. Other Information in Relation to Water
   The property is identified as flood prone and is with the high risk flood category. High Flood Risk Category means land below the 1% Annual Exceedence Probability flood that is either subject to high hydraulic hazard or where there are significant evacuation difficulties (see Liverpool Development Control Plan 2008 for controls relating to flood prone land). For further information on flood risk contact Council on 9821 9222.
6. Sydney Water Corporation
   Nil

7. Foreshore Building Line
   Nil

8. Contaminated Land
   Nil

9. Airport Noise Affectation
   Badgery’s Creek Airport
   Nil
   Hoxton Park Airport
   Nil

10. Airport Acquisition
    Nil

11. Environmentally Significant Land
    Environmentally Significant Land
    The subject property is identified as containing environmentally significant land under Division 2
    General provisions of the Liverpool Local Environmental Plan 2008.
    (1) The objectives of this clause are as follows:
        (a) to maintain bushland, wetlands and wildlife corridors of high conservation value,
        (b) to identify areas of significance for revegetation to connect to or buffer
            bushland, wetlands and wildlife corridors,
        (c) to protect rare and threatened native flora and native fauna,
        (d) to ensure consideration of the significance of vegetation, the sensitivity of the
            land and the impact of development on the environment prior to the giving of
            any development consent.
    Further information in this regard is available from Council’s City Strategy Department or the
    Liverpool Local Environmental Plan 2008.

12. Archaeological Management Plan
    Nil

13. Unhealthy Building Land Proclamation
Nil

For further information, please contact
CALL CENTRE – 9821 9222

Mr Milan Marecic
Director – City Strategy
Liverpool City Council
PLANNING CERTIFICATE UNDER SECTION 149  
ENVIRONMENTAL PLANNING AND ASSESSMENT ACT 1979

Ref.: EMAIL  
Ppty: 170793

Cert. No.: 2202  
Page No.: 1

Receipt No.: 1821329  
Receipt Amt.: 100.00  
Date: 11-Nov-2010

Applicant:  
PARSONS BRINCKERHOFF  
LEVEL 27, 680 GEORGE STREET  
SYDNEY NSW 2001

Owner: (as recorded by Council):  
COMMONWEALTH OF AUSTRALIA  
LOCKED BAG 5033  
PARRAMATTA NSW 2150

Property Desc:  
LOT 3001 MOOREBANK (ARMY) AVENUE, MOOREBANK NSW 2170  
LOT 3001 DP 1125930

PART A

PRESCRIBED INFORMATION PROVIDED PURSUANT 
TO SECTION 149(2) OF THE ENVIRONMENTAL PLANNING AND ASSESSMENT ACT 1979

NOTE: The following information is provided pursuant to Section 149(2) of the Environmental Planning and Assessment Act (EP&A Act) 1979 as prescribed by Schedule 4 of the Environmental Planning and Assessment Regulation (EP&A Regulation) 2000 and is applicable to the subject land as of the date of this certificate.

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.
1. **Names of Relevant LEP’s, DCP’s, REPs, and SEPPs**

   (1)(a) The names of each local environment plan and deemed environmental planning instrument applying to the land is/are listed below:

   **Name of Instrument:** Liverpool Local Environmental Plan 2008  
   **Name of Zone:** IN1 General Industrial, SP2 Infrastructure - Defence

   (1)(b) **Draft Local Environmental Plan(s)**

   The names of each draft Local Environmental Plan applying to the land that has been placed on exhibition under section 66(1)(b) of the Act, is/are listed below:

   **Name of Draft Instrument:** Draft Liverpool Local Environmental Plan 2008  
   **Amendment No:** 5 – Anomalies  
   **Name of Zone:** Subject to all zones

   (1)(c) **Development Control Plan(s) under Section 72**

   The names of each Development Control Plan applying to the land has been prepared by the council under section 72 of the Act is/are listed below:

   Liverpool Development Control Plan 2008 (as amended).

   **Development Control Plan(s) under Section 51A**

   The names of each Development Control Plan applying to the land that has been prepared by the Director-General under section 51A of the Act are listed as follows:

   Nil

   (2)(a) **Regional Environmental Plan(s)**

   The names of each Regional Environmental Plan applying to the land is/are listed below:

   Greater Metropolitan Regional Environmental Plan No. 2 – Georges River Catchment  
   This plan aims to preserve and protect and to encourage the restoration or rehabilitation of regionally significant sensitive natural environments, to preserve, enhance and protect the freshwater and estuarine ecosystems within the Catchment and to ensure that development achieves the environmental objectives for the Catchment.

   (2)(b) **Draft Regional Environmental Plan(s)**

   The names of each draft Regional Environmental Plan applying to the land that has been placed on exhibition under section 47(b) of the Act is/are listed below:

   Nil
(3)(a) State Environmental Planning Policy(s)
The names of each State Environmental Planning Policy applying to the land are listed below:

- State Environmental Planning Policy No. 6 – Number of Storeys in a Building
- State Environmental Planning Policy No. 19 – Bushland in Urban Areas
- 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)
- State Environmental Planning Policy No. 33 – Hazardous and Offensive Development
- State Environmental Planning Policy No. 44 – Koala Habitat
- State Environmental Planning Policy No. 50 – Canal Estate Development
- State Environmental Planning Policy No. 55 – Remediation of Land
- State Environmental Planning Policy – (Exempt and Complying Development Codes) 2008
- 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 – (Building Sustainability Index: BASIX) 2004
- State Environmental Planning Policy – (Major Development) 2005
- State Environmental Planning Policy – Affordable Housing (Revised Scheme) 2009
- State Environmental Planning Policy – (Infrastructure) 2007
- State Environmental Planning Policy – (Mine, Petrol Prod and Extractive Ind) 2007
- State Environmental Planning Policy – (Temporary Structures and Places Public Entertainment) 2007
- State Environmental Planning Policy – (Affordable Rental Housing) 2009

3(b) Draft State Environmental Planning Policy(s)
The names of each draft State Environmental Planning Policy applying to the land that has been publicised as referred to in section 39(2) of the Act are listed below:

- Draft State Environmental Planning Policy No. 66 – Integration of Land Use and Transport

2. ZONING AND LAND USE UNDER RELEVANT LOCAL ENVIRONMENTAL PLANS
(a) The identity of the zone, whether by reference to a name or by reference to a number is/are listed in:

Section (1)(a) of this Planning Certificate.

(b) The purposes for which the plan or instrument provides that development may be carried out within the zone without the need for development consent is/are detailed in the Liverpool Local Environmental Plan 2008:
See Part 2 (Permitted or prohibited development), Part 3 (Exempt and complying development), and Schedule 2 (Exempt development) of Liverpool Local Environmental Plan 2008.

(c) The purposes for which the plan or instrument provides that development may not be carried out within the zone except with development consent is/are detailed in the Liverpool Local Environmental Plan 2008:

See Part 2 (Permitted or prohibited development), Part 3 (Exempt and complying development), Schedule 1 (Additional uses) and Schedule 3 (Complying development) of Liverpool Local Environmental Plan 2008.

(d) The purposes for which the plan or instrument provides that development is/are prohibited within the zone are detailed in the Liverpool Local Environmental Plan 2008:

See Part 2 (Permitted or prohibited development) of Liverpool Local Environmental Plan 2008.

Should you require further information about development standards and restrictions on development for any particular purpose or any purpose that may have an effect of prohibiting development, it is recommended that you consult the Liverpool Local Environmental Plan 2008 and/or Liverpool Development Control Plan 2008.

(e) Dwelling House
The development standards applying to the land that fix minimum land dimensions for the erection of a dwelling house on the land is/are listed below:

The land’s dimensions (when considered in isolation) are not such as to prohibit the erection of a dwelling house on the land. However, Liverpool Local Environmental Plan 2008 prohibits the erection of a dwelling house within the zone that applies to the land.

(f) Critical Habitat
The provisions applying to the land that relate to critical habitat is/are outlined below:

The land is subject to the provisions of Clause 5.9 of the Liverpool Local Environmental Plan 2008. The clause relates to the preservation of trees or vegetation on the land.

The land is subject to the provisions of Clause 7.6 of the Liverpool Local Environmental Plan 2008. The clause relates to additional considerations given to development on environmentally significant land.

The land does not include or comprise critical habitat.
(g) **Conservation Area**
The provisions applying to the land that relate to a conservation area is/are outlined below:

**Land is not located in** a Conservation Area.

(h) **Environmental Heritage**
The provisions applying to the land that relate to an item of environmental heritage is/are outlined below:

An item of the Environmental Heritage is situated on the land. Refer to Schedule 5 – Environmental Heritage under Liverpool Local Environmental Plan 2008.

3. **COMPLYING DEVELOPMENT**
Complying development under the General Housing Code **may not** be carried out on the land.

Complying development under the Housing Internal Alterations Code **may not** be carried out on the land.

Complying Development under the General Commercial and Industrial Code **may not** be carried out on this land.

This land is excluded being land that is identified in an environmental planning instrument as being within an area that is environmentally sensitive.

This land is excluded being land that comprises, or on which there is a local heritage item or draft local heritage item identified in an Environmental Planning Instrument.

This land is excluded being land that is identified in as being bush fire prone land.

This land is excluded being land identified in an environmental planning instrument as being a flood control lot.

This land is excluded being land that is identified in a foreshore area.

4. **Coastal Protection Act 1979**
There has been no notification from the Department of Public Works that the land is subject to the operation of Section 38 or 39 of the Coastal Protection Act, 1979.

5. **Mine Subsidence**
The land is not within an area proclaimed to be a mine subsidence district within the meaning of the Mine Subsidence Compensation Act, 1961.

6. **Road Widening and Road Realignment**
The provisions applying to the land that relate to road widening or road realignment is/are outlined below: -

The land is not affected by any road widening or road realignment under Division 2 of Part 3 of the Roads Act 1993, any environmental planning instrument or any resolution of the Council.

7. Council and Other Public Authority Policies on Hazard Risk Restrictions
The policies applying to the land from Council and other Public Authorities regarding hazard risk restrictions is/are outlined below: -

(a) Council Policy – Other Risks
The land is not affected by a policy adopted by Council that restricts the development of the land because of the likelihood of land slip, bushfire, tidal inundation, subsidence or any other risk.

However, the land is affected by Liverpool Local Environmental Plan 2008 that restricts the development of the land because of the likelihood of acid sulphate soils.

The land is not affected by a policy adopted by 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.

However, the land is affected by the Rural Fires Act 1997 that restricts the development of the land because of the likelihood of bushfire.

(b) Public Authority Policies
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 the planning certificates issued by the Council, that restricts the development of the land because of the likelihood of land slip, bushfire, flooding, tidal inundation, subsidence, acid sulphate soils or any other risk.

7A. Flood Related Development Controls Information

1. The property is affected by flood inundation and therefore the controls applying to residential forms of development contained with the Liverpool Local Environmental Plan 2008 and Development Control Plan 2008 apply to this property.

2. The property is affected by flood inundation and therefore the controls applying to all forms of development contained with the Liverpool Local Environmental Plan 2008 and Development Control Plan 2008 apply to this property.

3. The expressions “dwelling houses,” “dual occupancies,” “multi dwelling housing” and “residential flat buildings” as used in clauses (1) and (2) above have the same meanings as in the instrument set out in the Schedule of the Standard Instrument (Local Environmental Plans) Order 2006 but do not include development for the purposes of “group homes” or “seniors housing”.
8. **Land Reserved for Acquisition**
   The provisions applying to the land that relate to acquisition of the land by a public authority is/are listed below: -
   
   Nil

   **Liverpool Local Environmental Plan 2008** applies to the land and does not provide for the acquisition of the land by a public authority, as referred to in Section 27 of the Act.

9. **CONTRIBUTION PLANS**
   The name of each contribution plan applying to the land is/are outlined below: -
   
   **Liverpool Contributions Plan 2001**

10. **Matters arising to the Contaminated Land Management Amendment Act 2009 (NSW)**
    Nil

11. **Bushfire Prone Land**
    **Part of the land subject** to this certificate is bushfire prone land as defined in the Environmental Planning and Assessment Act 1979.

12. **Property Vegetation Plans**
    The provisions applying to the land that relate to property vegetation plans is/are listed below: -
    
    The land subject to this certificate is not affected by the Native Vegetation Act 2003 as defined in the Environmental Planning and Assessment Act 1979.

13. **Orders under Trees (Disputes Between Neighbours Act 2006)**
    There has been no notification that the land subject of this certificate is affected by an order to carry out work in relation to a tree on the land under the Trees (Disputes Between Neighbours Act 2006).

14. **Directions under Part 3A**
    There has been no notification of 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 stage of a project on the land under Part 4 of the Act does not have effect.

15. **Site Compatibility Certificates and Conditions for Seniors Housing**
    There has been no notification of a current site compatibility certificate issued under clause 25 of the State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 in respect of proposed development on the land.

16. **Site Compatibility Certificates for Infrastructure**
There has been no notification of a valid site compatibility certificate for the land subject of this certificate issued under clause 19 of the State Environmental Planning Policy (Infrastructure) 2007.

17. Site Compatibility Certificates and Condition for Affordable Rental Housing
Council is not aware of a current site compatibility certificate (affordable rental housing) in respect of proposed development on the land.

**PART B**
ADDITIONAL INFORMATION PROVIDED PURSUANT TO SECTION 149(5) OF THE ENVIRONMENTAL PLANNING & ASSESSMENT ACT 1979

1. Threatened Species Conservation Act
   It is advisable for any application intending to purchase and/or develop land within the Liverpool Local Government Area to approach Council to ascertain if the requirements of the Threatened Species Act, 1995 are likely to apply to their land.

   If the land has native vegetation of any sort (ie trees, shrubs, ground covers etc), has recently been cleared or is vacant land, it may have impediments to development under the Threatened Species Act, 1995.

   This notation should be read in conjunction with Liverpool Local Environmental Plan 2008, and the Threatened Species Act, 1995.

   Enquiries should be directed to Council’s Department of Environment and Community.

2. Tree Preservation Provision
   The land is subject to a tree preservation provision under the Liverpool Local Environmental Plan 2008.

3. Controlled Access Road
   The land does not have a boundary to a controlled access road under the provisions of the Liverpool Local Environmental Plan 2008.

4. Notices
   No notices/orders have been served in respect of a breach of the provisions of an environmental planning instrument occurring on the land.

5. Other Information in Relation to Water
   The property is identified as flood prone and is with the high risk flood category. High Flood Risk Category means land below the 1% Annual Exceedence Probability flood that is either subject to high hydraulic hazard or where there are significant evacuation difficulties (see Liverpool Development Control Plan 2008 for controls relating to flood prone land). For further information on flood risk contact Council on 9821 9222.
6. Sydney Water Corporation
   Nil

7. Foreshore Building Line
   Nil

8. Contaminated Land
   Council has been provided with written information indicating the presence of contamination on the subject land which may restrict development and use of the land. The relevant information is available for inspection at the office of the Council.

9. Airport Noise Affectation
   Badgery’s Creek Airport
   Nil

   Hoxton Park Airport
   Nil

10. Airport Acquisition
    Nil

11. Environmentally Significant Land
    Environmentally Significant Land
    The subject property is identified as containing environmentally significant land under Division 2 General provisions of the Liverpool Local Environmental Plan 2008.

    (1) The objectives of this clause are as follows:

    (a) to maintain bushland, wetlands and wildlife corridors of high conservation value,
    (b) to identify areas of significance for revegetation to connect to or buffer bushland, wetlands and wildlife corridors,
    (c) to protect rare and threatened native flora and native fauna,
    (d) to ensure consideration of the significance of vegetation, the sensitivity of the land and the impact of development on the environment prior to the giving of any development consent.

    Further information in this regard is available from Council’s City Strategy Department or the Liverpool Local Environmental Plan 2008.

12. Archaeological Management Plan
    Nil
13. Unhealthy Building Land Proclamation

Nil

For further information, please contact
CALL CENTRE – 9821 9222

Mr Milan Marecic
Director – City Strategy
Liverpool City Council
ANNEXURE TO SECTION 149(5)
CERTIFICATE

Issue Date: 11/11/2010
Issue No: 2025771
File No: 2010/0038

Premises at Lot 3001 DP 1125930
Moorebank Avenue Moorebank

Further to the advice contained in the Section 149(2) Certificate and on the basis of the latest information available to the Council:

1. the maximum calculated level of the probable maximum flood (PMF) in the vicinity of your property in metres AHD is 16.1.

2. the maximum calculated level of the 1% annual exceedance probability flood (previously referred to as the 1 in 100 year) in the vicinity of your property in metres AHD is 15.6.

3. the maximum calculated level of the 2% annual exceedance probability flood (previously referred to as the 1 in 50 year) in the vicinity of your property in metres AHD is 15.5.

4. the maximum calculated level of the 5% annual exceedance probability flood (previously referred to as the 1 in 20 year) in the vicinity of your property in metres AHD is 15.5.

The Council does not possess accurate information on the natural surface levels of individual allotments or on constructed building levels, and these should be established by private survey to ascertain their relationship to the above flood levels.

Flood levels are obtained from Anzac Creek Flood Study - Adopted by Council 12 June 2007.

Name of Assessor: W. Siripala
Signature: [Signature]

Note:

The subject property is significantly large. According to Council’s flood data the property is affected by flooding from several creeks traversing through the property and flood levels vary across the property. The applicant needs to view available flood data with Council to determine flood affectation (extent, location and levels) on the property.
ANNEXURE TO SECTION 149(5) CERTIFICATE

Issue Date: 11/11/2010
Issue No: 2025769
File No: 2010/0038
Premises at Lot 10 DP 881265 Hume Highway Casula

Further to the advice contained in the Section 149(2) Certificate and on the basis of the latest information available to the Council:

1. the maximum calculated level of the probable maximum flood (PMF) in the vicinity of your property in metres AHD is 12.9.

2. the maximum calculated level of the 1% annual exceedance probability flood (previously referred to as the 1 in 100 year) in the vicinity of your property in metres AHD is 10.8.

3. the maximum calculated level of the 2% annual exceedance probability flood (previously referred to as the 1 in 50 year) in the vicinity of your property in metres AHD is 10.3.

4. the maximum calculated level of the 5% annual exceedance probability flood (previously referred to as the 1 in 20 year) in the vicinity of your property in metres AHD is 9.6.

The Council does not possess accurate information on the natural surface levels of individual allotments or on constructed building levels, and these should be established by private survey to ascertain their relationship to the above flood levels.

Flood levels are obtained from Georges River Floodplain Risk Management Study & Plan - July 2004

Name of Assessor: W. Siripala
Signature: [Signature]
Appendix F

NSW EPA Notice records
You are here: Home > Contaminated land > Record of EPA notices

Site and notice details

Your search for: Suburb: Moorebank 8 notices on 1 site were matched.

Return to list of search results

Area No: 3054

The information below was correct at the time the notices were issued.

Site: ABB Power Transmissions
Address: Bapaume Road, Moorebank, 2170
LGA: Liverpool City Council

Occupier: ABB Power Transmissions Pty Ltd
Lot 2 DP 32998 Lot 3 DP 32998

Notices relating to this site (5 current and 3 former)

<table>
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<tr>
<th>Notice recipient</th>
<th>Notice type &amp; number</th>
<th>Status</th>
<th>Date</th>
</tr>
</thead>
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<td>Section 35 EHC Act Order</td>
<td>Current</td>
<td>Issued 16 Mar 1995</td>
</tr>
<tr>
<td>ABB Power Transmissions Pty Ltd</td>
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<td>Issued 21 Dec 1994</td>
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<td>Section 35 EHC Act Order</td>
<td>Current</td>
<td>Issued 02 Nov 1994</td>
</tr>
<tr>
<td>ABB Power Transmissions Pty Ltd</td>
<td>Section 35 EHC Act Order</td>
<td>Current</td>
<td>Issued 21 Jan 1991</td>
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<td>Tyree Electrical Co</td>
<td>Section 35 EHC Act Order</td>
<td>Current</td>
<td>Issued 12 Jun 1990</td>
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<td>ABB Power Transmissions Pty Ltd</td>
<td>Section 35 EHC Act Order</td>
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<td>Issued 03 May 1993 Revoked 02 Nov 1994</td>
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<tr>
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<td>Section 35 EHC Act Order</td>
<td>Former</td>
<td>Issued 07 Apr 1992 Revoked 03 May 1993</td>
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<tr>
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<td>Section 35 EHC Act Order</td>
<td>Former</td>
<td>Issued 28 Sep 1990 Revoked 03 May 1993</td>
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</table>

12 October 2010
ABB Power Transmission Pty Limited  
P.O.Box 315  
LIVERPOOL NSW 2170

Our Reference: CH787/5 Notice # 393 / 3054

Your Reference: 

Contact: T.Recsei

CERTIFIED MAIL

FOR THE ATTENTION OF THE SECRETARY

ENVIRONMENTALLY HAZARDOUS CHEMICALS ACT, 1985
NOTICE UNDER SECTION 35

WHEREAS:-

A. ABB Power Transmissions Pty Limited, "the Occupier" occupies premises located at Lots 2 and 3, DP 32998, Bapaume Road, Moorebank NSW 2170.

B. The premises are reasonably believed to be affected by Polychlorinated Biphenyl compounds ("PCBs").

C. The Occupier has submitted plans for remedial action for the premises on 24 August 1994.

TAKE NOTICE THAT:-

In accordance with the powers vested in the Environment Protection Authority (the EPA) by the provisions of Section 35 of the Environmentally Hazardous Chemicals Act, 1985 (the "Act"), the EPA until further notice directs that:

1. This Notice amends and supersedes the Notice number 391 dated 2 November 1994 in the following respect:

   The final two reports relating to the bioremediation trial described in the Occupier's "Bioremediation Trial Status Report" of 23 August 1994 must be delivered to this office by the revised date of 31 March 1995.

2. Notice number 391 remains in full force and effect in all other respects.

NEIL SHEPHERD
Director-General

(signed - 20/12/1994)

Per ..................................
ERROL SAMUEL
DIRECTOR HAZARDOUS SUBSTANCES
by Authorisation

cc Regional Manager Southern Sydney
cc Town Clerk Liverpool
cc Register of Section 35 Notices     abb54
WHEREAS:-

A. ABB Power Transmissions Pty Limited, "the Occupier" occupies premises located at Lots 2 and 3, DP 32998, Bapaume Road, Moorebank NSW 2170.

B. The premises are reasonably believed to be affected by Polychlorinated Biphenyl compounds ("PCBs").

C. The Occupier has submitted plans for remedial action for the premises on 24 August 1994.

TAKE NOTICE THAT:-

In accordance with the powers vested in the Environment Protection Authority (the EPA) by the provisions of Section 35 of the Environmentally Hazardous Chemicals Act; 1985 (the "Act"), the EPA until further notice directs that:

1. This Notice revokes the directions given in the Notice no. 345.

2. (1) Should the Occupier wish to undertake any works on the premises which could constitute prescribed remedial action, the Occupier shall do so only in accordance with an approval in writing given by the EPA.

   (2) The Occupier shall give the EPA prior notice before commencing any works approved pursuant to Sub-Clause (1).

   (3) For the purposes of this Clause, prescribed remedial action is as defined in Section 33(2) of the Act, namely a reference to -

       (a) ascertaining the nature and extent of the contamination of the premises;
(b) preparing a remedial action plan for the premises and, if required, a long-term management plan;

(c) removing the cause of the contamination from the premises;

(d) reducing the contamination of the premises;

(e) eliminating or reducing any danger arising from the contamination of the premises; or

(f) restoring the premises.


4. The drain in the drainage easement may be modified according to subparagraphs (i) or (ii) of paragraph 6 of the Occupier’s report "Surface Sealing Programme - Moorebank Status Report no. 2" of 23 August 1994 within six months of agreement with the Defence Authorities being reached.

5. The final two reports relating to the bioremediation trial described in the Occupier’s Bioremediation Trial Status Report” of 23 August 1994 must be delivered to this office by 31 December 1994.

NEIL SHEPHERD
Director-General

Per (signed) 2/11/94
ERROL SAMUEL
DIRECTOR HAZARDOUS SUBSTANCES
by Authorisation

cc Regional Manager Southern Sydney

cc Town Clerk Liverpool

cc Register of Section 35 Notices
ENVIRONMENTALLY HAZARDOUS CHEMICALS ACT, 1985
NOTICE UNDER SECTION 35

WHEREAS:–

A. You, ABB Power Transmissions Pty Limited are the occupier of premises located at Lots 2 and 3, DP 32998, Bapaume Road, Moorebank NSW 2170.

B. The premises have been or are being used for or in connection with the carrying on of a prescribed activity, namely an act of manufacturing, processing, keeping, distributing, conveying, using, selling or disposing of a chemical or chemical waste or any act related to such act.

C. The premises are reasonably believed to be affected by Polychlorinated Biphenyl compounds (PCBs) as a consequence of the carrying on of the prescribed activity.

D. The premises are deemed to be contaminated because they are environmentally degraded as a consequence of being affected by the chemicals/chemical wastes described in clause 3.

E. Your then consultants Dames and Moore submitted a report dated March 1990 indicating substantial PCB contamination. Your current consultants, ICF Pty Ltd have submitted a bioremediation work plan dated 31 March 1993.

TAKE NOTICE THAT:–

In accordance with the powers vested in the Environment Protection Authority (the EPA) by the provisions of Section 35 of the Environmentally Hazardous Chemicals Act, 1985, the EPA until further notice directs that:

1. This Notice revokes the directions given in the Notice served on you dated 28 September 1990 and Annexure 1 dated 7 April 1992.

2. (1). Should you wish to undertake any works on the premises which could
constitute prescribed remedial action, you shall do so only in accordance with an approval in writing given by the EPA.

(2). You shall give the EPA prior notice before commencing any works approved pursuant to Sub-Clause (1).

For the purposes of this Clause, prescribed remedial action is as defined in Section 33(2) of the Act, namely a reference to -

(a) ascertaining the nature and extent of the contamination of the premises;
(b) preparing a remedial action plan for the premises and, if required, a long-term management plan;
(c) removing the cause of the contamination from the premises;
(d) reducing the contamination of the premises;
(e) eliminating or reducing any danger arising from the contamination of the premises; or
(f) restoring the premises.

(4). The above definition includes (but is not limited to) works which have the effect or intention of:

(a) dispersing or covering the contamination;
(b) removing or disposing of any soil, sand, rock, water or any solid or liquid material of any kind from the premises;
(c) vacating, or ceasing to carry on any activity upon, the premises or any part thereof;
(d) disturbance of the premises below a depth of 0.5 metres.

3. If you become aware that the premises to which this Notice relates are to be sold, that occupancy of the premises are to be transferred or responsibility for the premises otherwise relinquished:

(a) within one month of becoming aware, you shall inform the EPA in writing, and
(b) where you are advised of the name of the prospective owner or occupier you, within 48 hours, in writing shall:
   (i) notify the EPA, and
   (ii) notify the intending purchaser or occupier of the conditions of this Notice.

4. The bioremediation trial plan of 31 March 1993 submitted by ICF Pty Ltd must be conducted in accordance with the plans and procedures specified therein together
with modifications agreed with the EPA.

5. The trial must commence within 30 days from the date of this Notice.

The role of the EPA is regulatory. Any advice required by you must be obtained as a result of your own independent enquiries.

NEIL SHEPHERD
Director-General

Per .(signed) 3/5/93
ERROL SAMUEL

Director Hazardous Substances
by Authorisation

cc Regional Manager Southern Sydney
cc Town Clerk Liverpool
cc Register of Section 35 Notices
Mr A.R. Flett  
General Manager  
ABB Power Transmission Pty Limited  
P.O.Box 315  
LIVERPOOL NSW 2170  

CERTIFIED MAIL  

ENVIRONMENTALLY HAZARDOUS CHEMICALS ACT, 1985  
NOTICE UNDER SECTION 35  
ANNEXURE 1 - APPROVAL TO CONDUCT WORKS  

WHEREAS:-  

1. You, ABB Power Transmissions Pty Limited are the occupier of premises located at  
   Lots 2 and 3, DP 32998, Bapaume Road, Moorebank NSW 2170.  

2. These premises are contaminated by chemical wastes including polychlorinated  
   biphenyls (PCBs).  

3. The Environment Protection Authority issued a notice dated 28 September 1990  
   under Section 35 of the Environmentally Hazardous Act, 1985 directing you to  
   perform sampling, submit a report and to obtain written approval before any land on  
   the premises is disturbed.  

4. Your consultants Dames and Moore submitted a report indicating substantial PCB  
   contamination, a bioremediation work plan dated 16 May 1991 and further details  

TAKE NOTICE THAT:-  

In accordance with the powers vested in the Environment Protection Authority by the  
provisions of Section 35 of the Environmentally Hazardous Chemicals Act, 1985, the  
Environment Protection Authority directs that you conduct the specified bioremediation trial  
in accordance with the conditions of the Environment Protection Authority's notice of 28  
September 1990 and in addition to the conditions specified in reports specified in the  
paragraph numbered 4 of this notice. Particular attention must be paid to avoid  
dissemination of PCBs and fungal spores into the environment.  

This notice does not derogate from the provisions of any relevant Environmental Planning  
Instrument which may control the use of land on which the premises are located or from  
any other administered by the Environment Protection Authority.  

This notice shall be referred to as Annexure 1 to the Environment Protection Authority's  
otice of 28 September 1990.  

NEIL SHEPHERD
Director-General

7 APR 1992
Per.....(signed)
ERROL SAMUEL
Director Hazardous Substances
by Authorisation

cc Regional Manager Southern Sydney
cc Town Clerk Liverpool
cc Register of Section 35 Notices               abb6

ENVIRONMENTALLY HAZARDOUS CHEMICALS ACT, 1985
NOTICE UNDER SECTION 35

Whereas: -

1. Tyree Electric Company P/L ("the company") is the occupier of premises:
   - located at lots 2 and 3 DP32998 Bapaume Road, Moorebank, NSW, and known as Tyree Electric Company P/L;
   - contaminated by the prescribed activities of the manufacture, processing use and disposal of chemicals or chemical wastes, including polychlorinated biphenyls;
   - deemed to be contaminated by reason of their being environmentally degraded.
   - The State Pollution Control Commission issued a Section 35 notice under the Environmentally Hazardous Chemicals Act on 12 June 1990.

Take notice that: -

In accordance with the powers vested in the State Pollution Control Commission by the provision of Section 35 of the Environmentally Hazardous Chemicals Act, 1985, the Commission from the date of this Notice hereby directs that:

1. Samples shall be taken from the premises to determine the extent, both in area and depth, of contamination. Such samples shall be taken to a plan and in a manner approved by the Commission, and shall be analysed for the presence of polychlorinated biphenyls (PCBs) by a NATA-registered analytical laboratory. Such samples shall be taken and analysed within 60 days of the date of this Notice.

2. The Commission shall be notified in writing of the results of the analyses required in Clause 1 of this Notice within seven days of the test results being known.

3. A report shall be prepared outlining strategies for the rehabilitation of the premises. Such report shall be submitted to the Commission for consideration.

4. All other work carried out on these premises with the intention, or having the effect, of
   a) reducing the contamination of the premises; or
   b) restoring or rehabilitating the premises; or
c) removing, or disposing of, any soil, sand, rock, water or other solid or liquid material of any kind from these premises;

which would result in the disturbance of any land on the premises, shall be carried out only after prior notice to the Commission and in accordance with an approval, in writing, given by the Commission.

5. Where the premises to which this notice relates is to be sold, or responsibility for the premises otherwise relinquished, and the occupier is also the owner of such premises, the occupier shall inform, in writing, any intending purchaser or occupier of the conditions of this notice, during negotiations for the sale or transfer of the premises.

6. (a) Where the occupier of the premises intends or is advised that the premises are to be sold, or that the occupancy of the premises is to be transferred, the occupier shall notify the Commission, in writing, of the impending sale or transfer and, where it may be advised, of the name of the prospective owner or occupier, subject to clause 3(b), at least one month prior to the date of impending sale or transfer; and

(b) Where such intention is formed or advice is given within one month of the intended sale or transfer of the premises, the occupier shall notify the Commission, in writing, immediately after such intention is formed or advice is given.

PROFESSOR JORN NILAND
Director

(signed – 28/09/1990)

Per ...........................................
A R G Hewett
REGIONAL MANAGER, SOUTHERN SYDNEY
(By Authorisation)
DEAR SIR

ENVIRONMENTALLY HAZARDOUS CHEMICALS ACT, 1985
NOTICE UNDER SECTION 35

Whereas:

1. Tyree Electric Company Pty Ltd ("the company") is the occupier of premises:
   - located at lots 2 and 3 DP 32998 Bapaume Road, Moorebank, NSW, and known as Tyree Electric Company Pty Ltd;
   - contaminated by the prescribed activities of the manufacture, processing use and disposal of chemicals or chemical wastes, including polychlorinated biphenyls;
   - the State Pollution Control Commission issued a Section 35 notice under the Environmentally Hazardous Chemicals Act on 12 June 1990.

Take notice that:-

In accordance with the powers vested in the State Pollution Control Commission by the provision of Section 35 of the Environmentally Hazardous Chemicals Act, 1985, the Commission from the date of this Notice hereby directs that:

1. Samples shall be taken from the premises to determine the extent, both in area and depth, of contamination. Such samples shall be taken to a plan and in a manner approved by the Commission, and shall be analysed for the presence of polychlorinated biphenyls (PCBs) by a NATA registered analytical laboratory. Such samples shall be taken and analysed by 30 March 1991.

2. The Commission shall be notified in writing of the results of the analyses required in Clause 1 of this Notice within seven days of the test results being known.

3. A report shall be prepared outlining strategies for the rehabilitation of the premises. Such report shall be submitted to the Commission for consideration.

4. All other work carried out on these premises with the intention, or having the effect, of
   (a) reducing the contamination of the premises; or
   (b) restoring or rehabilitating the premises; or
   (c) removing, or disposing of, any soil, sand, rock, water or other solid or liquid material of any kind from these premises;
which would result in the disturbance of any land on the premises, shall be carried out only after prior notice to the Commission and in accordance with an approval, in writing, given by the Commission.

5. Where the premises to which this notice relates is to be sold, or responsibility for the premises otherwise relinquished, and the occupier is also the owner of such premises, the occupier shall inform, in writing, any intending purchaser or occupier of the conditions of this notice, during negotiations for the sale or transfer of the premises.

6. (a) Where the occupier of the premises intends or is advised that the premises are to be sold, or that the occupancy of the premises is to be transferred, the occupier shall notify the Commission, in writing, of the impending sale or transfer and, where it may be advised, of the name of the prospective owner or occupier, subject to clause 3 (b), at least one month prior to the date of impending sale or transfer; or

   (b) Where such intention is formed or advice is given within one month of the intended sale or transfer of the premises, the occupier shall notify the Commission, in writing, immediately after such intention is formed or advice is given.

Professor J Niland
DIRECTOR

(signed – 21/01/1991)

Per ..................................

REGIONAL MANAGER, SOUTHERN SYDNEY
(By authorisation)
12 JUN 1990

Environmentally Hazardous Chemicals Act, 1985
Notice Under Section 35

Whereas:-

1. Tyree Electric Company P/L ("the Company") is the occupier of premises:
   - located at Lots 2 and 3, D.P. 32998 Bapaume Road, Moorebank. NSW, and known as Tyree Electric Company P/L;
   - contaminated by the prescribed activities of the manufacture, processing, use and disposal of chemicals or chemical wastes, including polychlorinated biphenyls;
   - deemed to be contaminated by reason of their being environmentally degraded.

Take notice that:-

In accordance with the powers vested in the State Pollution Control Commission by the provisions of Section 35 of the Environmentally Hazardous Chemicals Act, 1985, the Commission from the date of this notice hereby directs that:

1. All work carried out on these premises with the intention, or having the effect, of
   (a) reducing the contamination of the premises; or
   (b) restoring or rehabilitating the premises; or
   (c) removing, or disposing of, any soil, sand, rock, water or other solid or liquid material of any kind from the premises;

   which would result in the disturbance of any land on the premises, shall be carried out only after prior notice to the Commission and in accordance with an approval, in writing, given by the Commission.

2. Where the premises to which this notice relates is to be sold, or responsibility for the premises otherwise relinquished, and the occupier is also the owner of such premises, the occupier shall inform, in writing, any intending purchaser or occupier of the condition of this notice, during negotiations for the sale or transfer of the premises.

3.(a) Where the occupier of the premises intends or is advised that the premises are to be sold, or that the occupancy of the premises is to be transferred, the occupier shall notify the Commission, in writing, of the impending sale or transfer and, where it may be advised, of the name of the prospective owner or occupier, subject to clause 3(b),

at least one month prior to the date of impending sale or transfer; and

(b) Where such intention is formed or advice is given within one month of the intended sale or transfer of the premises, the occupier shall notify the Commission, in writing, immediately after such intention is formed or advice is given.

PETER STANDEN
DIRECTOR

Per (signed)

P. B. YATES 12.6.1990
Chief – Outer Sydney, Chemicals and Waste Division
by Authorisation

(3W-SM7-JR04)
ABB Power Transmission Pty Limited
P.O. Box 315
LIVERPOOL  NSW  2170

Our Reference: CH787/5 Notice 397

Your Reference:

Contact: David Wai

CERTIFIED MAIL

FOR THE ATTENTION OF THE SECRETARY

ENVIRONMENTALLY HAZARDOUS CHEMICALS ACT, 1985

NOTICE UNDER SECTION 35

WHEREAS:-

A. ABB Power Transmissions Pty Limited, "the Occupier" occupies premises located at Lots 2 and 3, DP 32998, Bapaume Road, Moorebank NSW 2170.

B. The premises are reasonably believed to be affected by Polychlorinated Biphenyl compounds ("PCBs").

C. The Occupier has submitted plans for remedial action for the premises on 24 August 1994.

D. By a notice under Section 35 EHCA dated 2 November 1994 (Notice 391) the Environment Protection Authority (EPA) directed the Occupier to take prescribed remedial action.

E. By a further notice under Section 35 EHCA dated 20 December 1994 (Notice 393) the EPA amended Notice 391.

F. The EPA now wishes to further amend Notice 391.

TAKE NOTICE THAT:-

In accordance with the powers vested in the Environment Protection Authority (the EPA) by the provisions of Section 35 of the Environmentally Hazardous Chemicals Act, 1985 (the "Act"), the EPA until further notice directs that:

1. This Notice amends Notice 391 dated 2 November 1994 in the following respect:

   • The surface sealing program work outlined in the report "Surface Sealing Programme - Moorebank Status Report no. 2" of 23 August 1994 attached to the Occupier's letter of 24 August 1994 must be performed and completed by the revised date of 31 July 1995.
2. Notice number 391 and Notice number 393 remain in full force and effect in all other respects.

NEIL SHEPHERD  
Director-General

(signed - 16/03/1995)

Per  
ERROL SAMUEL  
DIRECTOR HAZARDOUS SUBSTANCES  
by Authorisation

cc Regional Manager Southern Sydney  
cc Town Clerk Liverpool  
cc Register of Section 35 Notices
Search Results

Your search for: **Suburb - Moorebank**

matched

1 application for a new licence
plus 17 licences (with applications or notices matching your search)
plus 16 notices (where no licence is available online. See FAQ)

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<td>1199</td>
<td>C&amp;M MASONRY PRODUCTS PTY LTD</td>
<td>20 KELSO CRESC MOOREBANK 2170</td>
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<td>28 REGENCY CRESCENT MOOREBANK 2170</td>
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<td>5-9 BRIDGES ROAD MOOREBANK 2170</td>
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<tr>
<td>11653</td>
<td>KODAK (AUSTRALASIA) PROPRIETARY LIMITED</td>
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<td>MOOREBANK AEROSOL FILLERS PTY LIMITED</td>
<td>11 CUNNINGHAM STREET MOOREBANK 2170</td>
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<td>2A/1 HELLES AVENUE MOOREBANK 2170</td>
<td>S 91 Clean-Up Notice</td>
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### Search Results

Your search for: **Suburb - Moorebank**

**matched**
- 1 application for a new licence
- plus 17 licences (with applications or notices matching your search)
- plus 16 notices (where no licence is available online. See [faq](#))

<table>
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<td>009593</td>
<td>BOURNE TRANSPORT PTY. LTD.</td>
<td>27 PAINE AVENUE MOOREBANK 2170</td>
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<td>009301</td>
<td>QUALITY BAKERS notice summary</td>
<td>CNR CHURCH RD &amp; MOOREBANK AVE MOOREBANK 2170</td>
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Licence summary

Your search for: Suburb - Moorebank

Summary of Licence No: 753

View this licence (PDF document 0 kb)

Licence holder: ABB AUSTRALIA PTY LIMITED

Premises: ABB AUSTRALIA PTY LIMITED
3 BAPAUME ROAD MOOREBANK 2170
LGA: Liverpool  Catchment: Sydney Coast-Georges River

Administrative fee: $1,520.00

Status of licence: No longer in force

Licence type: Premises

Activity type: *Hazardous, Industrial or Group A Waste Generation or Storage

Licence review: Completed 02 Jun 05

Applications

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Notices

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Annual Return Information

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NOTICE OF CLEAN UP ACTION
Section 91 Protection of the Environment Operations Act 1997

BACKGROUND

1. This Notice relates to the premises located at 2A/1 Helles Avenue Moorebank NSW 2170 ("the premises"). The premises include the warehouse and the immediate surrounds outside the warehouse (within 20 square metres of the warehouse entry - Eastern side).

2. The premises are occupied by Australian Pacific Oil Company Pty Limited (ACN 002 348 610) (APO).

3. The directors of APO are Craig Leonard Williams and Jamie Williams. The secretary of APO is Craig Leonard Williams. Craig Leonard Williams owns 50% of APO’s share capital.

4. On 2 November 2000, Officers of the Environment Protection Authority (EPA) inspected the premises. Jamie Williams of APO was present during the inspection ("the inspection"). EPA officers observed approximately eighty (80) 205 litre drums, two (2) intermediate bulk storage containers (IBC) and ten (10) 20 litre containers stored within the warehouse at the premises. The drums were stored on pallets and were stacked 2 to 3 pallets high. The containers were stored on the floor of the warehouse. The EPA officers observed that the drums, containers and IBC’s stored within the warehouse were not stored in a bunded area. Approximately 5 drums were leaking and approximately 10 drums were damaged or unsealed.

5. EPA Officers observed approximately seven (7) 205L drums and one (1) IBC located outside the warehouse. The drums were ¾ full and the IBC was full. The drums were damaged and not sealed with their contents exposed to the weather. The drums and IBC were not stored in a bunded area.

6. During the inspection the EPA officers were informed by Mr Williams that the drums, IBC’s and containers stored waste.

7. EPA Officers observed that many of the drums were labelled with dangerous goods coding (specifically "corrosive" and "toxic") and some drums were marked "environmentally hazardous" and "poison".

8. The EPA reasonably suspects that an environmental offence has been committed, in that waste has been placed on the premises unlawfully.

9. The condition of the drums, IBCs and containers pose a risk of leakage as a result of which pollution is likely to occur.
10. The drums, IBCs and containers located within the warehouse were labelled with EPA tape by EPA Officers; and, the drums and IBCs located outside the warehouse, is for the purposes of this Notice known as the secured areas (“the secured areas”).

**DIRECTION TO TAKE CLEAN-UP ACTION**

The Environment Protection Authority directs AUSTRALIAN PACIFIC OIL COMPANY PTY LIMITED to take the following clean-up action:

1. **By 24 November 2000:**
   
   (a) Engage the services of a suitably qualified consultant to conduct sampling of all drums, IBC’s and containers that were marked by an EPA Officer with an (“EPA label”). (The “EPA label” is A4 paper containing the EPA logo in the top right-hand corner. A number approximately 14cm high is printed in the centre of the label). The “EPA label” is secured to the drum/container with EPA tape and is signed by an authorised Officer of the EPA. The EPA label is also marked with black spray paint in the form of an “x”.
   
   (b) The collected samples must be representative of the contents profile of the drum/container. The sampling program must be conducted in accordance with AS/NZS 5667.1:1998 Water quality – sampling Part 1: Guidance on the design of sampling programs, sampling techniques and the preservation and handling of samples.
   
   (c) The consultant is to obtain duplicate samples from drums/containers as directed by the authorised EPA officer present during sampling. All samples are to be sealed by the consultant and labelled with the details of date and time sampled, drum/IBC/container identification (“EPA label”) number and signed by the sampler. All duplicate samples are to be provided to the EPA officer.
   
   (d) All sampling is to be conducted in the presence of an authorised EPA Officer
   
   (e) All samples are to be analysed for pH, heavy metals, organics (GC/MS Scan) flammability (flashpoint) and sustained combustion. The laboratory or laboratories conducting sample analysis must only use approved test methods, and must be accredited by NATA or other appropriate accrediting authority to conduct analysis of required analytes.
   
   (f) Notice of the proposed date of sampling must be provided to the EPA’s Acting Manger Sydney Waste (ph. 9995 5337) three (3) working days prior to the intended date.

2. **By the 8 December 2000:**

   (a) Cause all samples analysed by the consultant to be classified in accordance with the EPA document “Environmental Guidelines: Assessment, Classification & Management of Liquid & Non-Liquid Wastes May 1999”.
   
   (b) Provide classification results to the Acting Manager Sydney Waste (Postal Address: P O Box A290 Sydney South NSW 1232)

This notice is issued under section 91 of the Protection of the Environment Operations Act 1997.

Notice of Clean Up Action

Section 91 Protection of the Environment Operations Act 1997

It is an offence against that Act not to comply with a clean-up notice unless you have a reasonable excuse.

FEE TO BE PAID

You are required by law to pay a fee of $320 for the administrative costs of issuing this notice.

It is an offence not to pay this fee. However you can apply for an extension of time to pay the fee or for the fee to be waived. At the end of this notice there is information about how and when to pay the fee and how to apply for an extension or a waiver of the fee.

Mr Greg Sheehy
Acting Principal Officer
Sydney Waste
(By Delegation)

INFORMATION ABOUT THIS NOTICE

Penalty for not complying with this notice

- The maximum penalty for a corporation is $250,000 and a further $120,000 for each day the offence continues. The maximum penalty for an individual is $120,000 and a further $60,000 for each day the offence continues.

What you can do if you are not the polluter

- If you comply with this clean-up notice but you are not the person who caused the pollution incident to which the notice relates, you have a right to go to court to recover your costs of complying with the notice from the person who caused the incident.

Deadline for paying fee

- The fee must be paid by **no later than 30 days after the date of this notice.**

How to pay fee

- by cheque made payable to the NSW Environment Protection Authority (Postal Address: P O Box A290 Sydney South NSW 1232)
- Please include the payment slip from the attached invoice/statement with your payment.
**How to apply for extension of time to pay/waiver of fee**

(c) Any application should be made in writing to the Environment Protection Authority and sent to Acting Manager Sydney Waste (Postal Address: P O Box A290 Sydney South NSW 1232)

- The application should set out clearly why you think your application should be granted.

**Other costs**

- The Protection of the Environment Operations Act allows the Environment Protection Authority to recover from you reasonable costs and expenses it incurs in monitoring action taken under this notice, ensuring the notice is complied with and associated matters. If you are going to be required to pay these costs and expenses you will later be sent a separate notice called a “Notice Requiring Payment of Reasonable Costs and Expenses”
AUSTRALIAN PACIFIC OIL COMPANY PTY LIMITED,
ACN/ARBN 002 348 610,
2A/1 Helles Avenue,
MOOREBANK NSW 2170
STANDARD POST

Attention: Mr Craig Williams
Notice Number: 1002632
File Number:

Date: 03-Nov-2000

NOTICE OF CLEAN UP ACTION
Section 91 Protection of the Environment Operations Act 1997

BACKGROUND

1. This Notice relates to the premises at 2A/1 Helles Avenue Moorebank NSW 2170 “the premises”. The premises include the warehouse and the immediate surrounds outside the warehouse (within 20 sqm of the warehouse).

2. The premises is occupied by Australian Pacific Oil Company Pty Limited (ACN 002 348 610) “APO”.

3. The directors of APO are Craig Leonard Williams and Jamie Williams. The secretary of APO is Craig Leonard Williams. Craig Leonard Williams owns 50% of APO’s share capital.

4. On the 2 November 2000 Officers of the EPA inspected the premises. Jamie Williams of APO was present during the inspection. EPA officers observed approximately 10x20L containers, 80 x205L drums and 2 intermediate bulk storage container “IBC” stored within the warehouse at the premises. The drums were stored on pallets and were stacked 2 to 3 high. The containers were stored on the floor of the warehouse. EPA observed that the drums, containers and IBC’s stored within the warehouse were not stored in a bunded area. Approximately 5 drums were leaking and approximately 10 drums were damaged or unsealed.

5. EPA Officers observed approximately 7x205L drums and 1 IBC located outside the warehouse. The drums were ¾ full, the IBC was full. The drums were not sealed, the material was exposed to the weather, materials were not stored in a bunded area and materials were stored in drums which were damaged.

6. During the inspection the EPA officers were informed by Mr Williams that the drums, IBC’s and containers stored material which was waste.

7. EPA Officers observed many of the drums were labelled with dangerous goods coding (specifically “corrosive” and “toxic”) and some drums were marked “environmentally hazardous” and “poison”.

8. The EPA reasonably suspects that a pollution incident has occurred in that waste has been placed on the premises unlawfully.

9. The condition of the containers, drums and IBC’s pose a risk of leakage as a result of which pollution is likely to occur.
10. The labelled drums, IBC’s and containers with EPA tape (labelled by EPA Officers) within the warehouse and the drums and IBC's located outside the warehouse is for the purposes of this Notice know as the (“secured areas”).

**DIRECTION TO TAKE CLEAN-UP ACTION**

The Environment Protection Authority directs AUSTRALIAN PACIFIC OIL COMPANY PTY LIMITED to take the following clean-up action:

1) On and from 3 November 2000 no further industrial waste, hazardous waste or group A waste is to be bought onto the premises.

2) On and from 3 November 2000 no containers, drums or IBC’s within the secured areas of the premises are to be moved within the premises or from the premises without the prior written permission from the Environment Protection Authority.

This notice is issued under section 91 of the Protection of the Environment Operations Act 1997.

It is an offence against that Act not to comply with a clean-up notice unless you have a reasonable excuse.

**FEE TO BE PAID**

You are required by law to pay a fee of $320 for the administrative costs of issuing this notice.

It is an offence not to pay this fee. However you can apply for an extension of time to pay the fee or for the fee to be waived. At the end of this notice there is information about how and when to pay the fee and how to apply for an extension or a waiver of the fee.

............................................................

Mr Greg Sheehy  
Acting Principal Officer  
Sydney Planning  
(By Delegation)

**INFORMATION ABOUT THIS NOTICE**
Penalty for not complying with this notice

- The maximum penalty for a corporation is $250,000 and a further $120,000 for each day the offence continues. The maximum penalty for an individual is $120,000 and a further $60,000 for each day the offence continues.

What you can do if you are not the polluter

- If you comply with this clean-up notice but you are not the person who caused the pollution incident to which the notice relates, you have a right to go to court to recover your costs of complying with the notice from the person who caused the incident.

Insert possible methods of payment

Deadline for paying fee

- The fee must be paid by no later than 30 days after the date of this notice.

How to pay fee

- By cheque payable to the Environment Protection Authority
- Please include the payment slip from the attached invoice/statement with your payment.

How to apply for extension of time to pay/waiver of fee

- Any application should be made in writing to the Environment Protection Authority and sent to Manager Sydney Waste, Environment Protection Authority, PO Box A290, Sydney South, NSW 1232. The application should set out clearly why you think your application should be granted.

Other costs

- The Protection of the Environment Operations Act allows the Environment Protection Authority to recover from you reasonable costs and expenses it incurs in monitoring action taken under this notice, ensuring the notice is complied with and associated matters. (If you are going to be required to pay these costs and expenses you will later be sent a separate notice called a “Notice Requiring Payment of Reasonable Costs and Expenses”)

***************
NOTICE OF CLEAN UP ACTION

BACKGROUND

(A) This Notice relates to premises at Lots 3 & 4 Walbundrie Road DP109394, Culcairn NSW 2660 ("the Premises").

(B) The Premises are owned by Amery trading Company Pty Limited (ACN 079 130 251; ABN 92 079 130 251) ("AMERY"). Craig Leonard Williams is the sole director and secretary of Amery and owns its share capital.

(C) Officers of the EPA first inspected the Premises on 1 June 2000 and observed that in excess of 2500, 205 litre drums and other containers were stored at the Premises in two areas.

(D) The EPA reasonably suspects that the drums were caused to be transported to the Premises by or on behalf of either or both of Australian Pacific Oil Company Pty Limited (ACN 002 348 610) ("APO") and Craig Leonard Williams.

(E) The directors of APO are Craig Leonard Williams and Jamie Williams. The secretary of APO is Craig Leonard Williams. Craig Leonard Williams owns 50% of APO's share capital.

(F) On 1 June 2000, approximately 1260 drums at the Premises were observed to be stored on the bank of Billabong Creek (the "First Area"). The drums were stored on pallets stacked up to three pallets high. The base of the First Area was soil.

(G) On 1 June 2000 approximately 1000 drums at the Premises were observed to be stored in an open sided shed ("the Second Area"). The floor of the Second Area was concreted however the EPA does not believe that the surface covering is of sufficient quality to contain the materials contained within the drums in the event of a spill or leak.

Page 1
The condition of the drums in the First Area were observed to pose a risk of leakage from the drums both to soil at the Premises and to Billabong Creek.

In relation to the drums in the First Area, the EPA:

(a) moved them to another location at the Premises (the "Third Area") pending further investigation; and
(b) placed a unique waterproof label on each of them.

The EPA's investigation has revealed that drums originally stored in the First and Second Areas contain materials which, the EPA reasonably suspects to be waste.

Officers of the EPA observed that many of the drums originally stored in both the First and Second Areas were severely corroded, had holes in them, had previously expanded from suspected internal pressure or had been otherwise damaged by impact or other cause.

The EPA reasonably suspects that some of the drums originally located in the First and Second Area pose a risk to the environment should their contents leak onto the ground or if the drums are exposed to fire or other calamity.

The EPA has taken samples for analysis of the contents of some of the drums. The EPA believes that at least a significant portion of the drums contain wastes classified as Hazardous or Group A pursuant to the Protection of the Environment Operations Act 1997 in that as indicated by the results of that analysis there are materials at the Premises which have displayed flash points when tested in accordance with the requirements of the Australian Code for the Transport of Dangerous Goods by Road and Rail which would make them Dangerous Goods or classify them as Hazardous wastes pursuant to the Protection of the Environment Operations Act 1997.

Unless exempted, the storage of Hazardous or Group A waste at premises is a scheduled activity which requires an environment protection licence. The EPA does not believe that the storage of the drums is exempted from the schedule.

An occupier of premises commits an offence against the Protection of the Environment Operations Act 1997 if a scheduled activity is carried on at the premises unless the person is, at the time the activity is carried on, the holder of an environment protection licence that authorises the activity to be carried on at the premises.

The EPA has not issued a licence to any person to conduct this class of activity at the Premises.

The EPA reasonably believes that the storage of some or all of the drums at the Premises constitutes "development" requiring development consent under the Environmental Planning and Assessment Act 1979 and that no such consent has been granted to any person.

The EPA reasonably suspects that the material contained in the drums has been placed on the Premises unlawfully.

The EPA reasonably suspects that a pollution incident has occurred in that continued storage of the drums at the Premises, is likely to lead to spill or escape of the material contained within some of the drums, and land pollution or water pollution is a likely result of any such spill or escape.
(T) The EPA reasonably suspects that a pollution incident has occurred in that waste has been placed on the premises unlawfully.

(W) The EPA reasonably suspects that APO has caused a pollution incident.

(X) The EPA intends to require APO to provide the EPA with information as to the precise contents of each of the drums and containers at the Premises through results of analytical examination.

(Y) In a record of interview with Craig Leonard Williams on 25 July 2000, Mr Williams indicated that he did not know the contents of many of the drums at the Premises. On 25 July 2000, Mr Williams agreed on behalf of APO to accept the responsibility for maintaining security over the Premises pending identification of the drums.

(Z) The EPA intends to order APO to remove all materials from the Premises which can not be legally stored therein, to a location which can and is licensed by the EPA to accept them. However this can not be done until such time as the contents of all the drums and containers is known.

(i) Pending proper identification of the contents of the drums at the Premises, and consideration of the proper options for lawful transport of them from the Premises, the EPA proposes to require APO to provide 24 hour security monitoring of the drums to prevent or minimise the likelihood of pollution occurring as a result of storage of the drums at the Premises.

DIRECTION TO TAKE CLEAN-UP ACTION

The Environment Protection Authority ("EPA") directs AUSTRALIAN PACIFIC OIL COMPANY PTY LIMITED to take the following clean-up action:

1 On and from 17:00 hours on the date of this Notice, cause to be provided at the Premises (24 hours per day 7 days per week), the services of a Company which holds a Master Licence issued under the Security Industries Act 1997 to perform the following duties:

   (a) Maintain a written record of the name and address of all persons entering and leaving the Premises, the time each person entered and left the Premises and the activity that the person carried out at the Premises;

   (b) Ensure the security of all drums and containers within the second and third areas;

   (c) Immediately report to APO any circumstance at the Premises that may be likely to result in harm being caused to the environment; and

   (d) Upon the request of an authorised officer of the EPA, provide the written record referred to in condition 1 (a) of this Notice to the authorised officer.

2. On and from 17:00 hours on the date of this Notice, cause the services of the licensed security company to be maintained, until such time as the EPA notifies APO in writing that the services of the licensed security Company are no longer required at the Premises.
This notice is issued under section 91 of the Protection of the Environment Operations Act 1997.

It is an offence against that Act not to comply with a clean-up notice unless you have a reasonable excuse.

FEE TO BE PAID

You are required by law to pay a fee of $320 for the administrative costs of issuing this notice.

It is an offence not to pay this fee. However you can apply for an extension of time to pay the fee or for the fee to be waived. At the end of this notice there is information about how and when to pay the fee and how to apply for an extension or a waiver of the fee.

-------------------------
Rob Monteith
Regional Manager
MURRAY
(by Delegation)

INFORMATION ABOUT THIS NOTICE

Penalty for not complying with this notice
* The maximum penalty for a corporation is $250,000 and a further $120,000 for each day the offence continues. The maximum penalty for an individual is $120,000 and a further $60,000 for each day the offence continues.

What you can do if you are not the polluter
* If you comply with this clean-up notice but you are not the person who caused the pollution incident to which the notice relates, you have a right to go to court to recover your costs of complying with the notice from the person who caused the incident.

Deadline for paying fee
* The fee must be paid by no later than 25-Aug-2000 which is 30 days after the date of this notice.

How to pay fee
* Please send your cheque for the fee to:
  Environment Protection Authority
  Finance Branch
  PO Box A290
  SYDNEY SOUTH NSW 1232

* To ensure your payment is processed correctly please attach to the cheque the remittance slip from the invoice.

How to apply for extension of time to pay/waiver of fee
* Any application should be made in writing to the EPA and sent to:
  The Regional Manager
  EPA MURRAY Regional Office
  P O BOX 544
  ALBURY 2640

* The application should set out clearly why you think your application should be granted.

Other costs
* The Protection of the Environment Operations Act allows the EPA to recover from you reasonable costs and expenses it incurs in monitoring...
action taken under this notice, ensuring the notice is complied with and associated matters. (If you are going to be required to pay these costs and expenses you will later be sent a separate notice called a 'Compliance Cost Notice'.)
Notice No: 010534  Issued: 07-Jun-2000
Notice Type: POEO S.91 CLEAN-UP DIRECTION
Premise: AMERY TRADING COMPANY PTY LIMITED
FAIRFIELD 2165
Industry: WASTE MANAGEMENT FACILITIES OR ACTIVITIE
Local Gov: CULCAIRN
Catchment: MURRAY RIVERINA

Direction to take clean-up action

Section 91 Protection of the Environment Operations Act 1997

Registered Post

AMERY TRADING COMPANY PTY LIMITED
89-93 LISBON STREET
FAIRFIELD  NSW  2165

Our ref: N 010534 P 011558
241009

Date: 7 June 2000

NOTICE OF CLEAN UP ACTION

BACKGROUND

(a) This Notice relates to premises at LOTS 3 & 4 WALBUNDRIE ROAD
DP190394, CULCAIRN NSW 2660 ("the premises").

(b) Following an inspection of the premises on 1 June 2000 it was
observed that in excess of 2500 205litre drums containing various
wastes including flammable liquids were stored on the premises.

(c) The EPA reasonably suspects these wastes were placed on the
premises and disposed of unlawfully.

(d) The EPA is aware that Craig Leonard Williams is a director Of Both
Amery Trading Company Pty Limited and Australian Pacific Oil
Company Pty Limited. The EPA reasonably suspects that both of
these company's have been involved in the transport and storage
of the drums which are located at the premises.

DIRECTION TO TAKE CLEAN-UP ACTION

The Environment Protection Authority ("EPA") directs AMERY TRADING
COMPANY PTY LIMITED to take the following clean-up action:

1 On and 7 June 2000 no further industrial waste, hazardous waste,
group A waste or group B waste is to be received, lodged or
stored on the premises.

2 On and 7 June 2000 no materials currently located within the
bunded area on the premises are to be removed from the premises
without the prior written permission of the Regional Manager of
the Murray Region, Environment Protection Authority.
This notice is issued under section 91 of the Protection of the Environment Operations Act 1997.

It is an offence against that Act not to comply with a clean-up notice unless you have a reasonable excuse.

FEE TO BE PAID

You are required by law to pay a fee of $320 for the administrative costs of issuing this notice.

It is an offence not to pay this fee. However you can apply for an extension of time to pay the fee or for the fee to be waived. At the end of this notice there is information about how and when to pay the fee and how to apply for an extension or a waiver of the fee.

..............................
David Cook
Head Regional Operations Unit
MURRAY
(by Delegation)

INFORMATION ABOUT THIS NOTICE

Penalty for not complying with this notice
* The maximum penalty for a corporation is $250,000 and a further $120,000 for each day the offence continues. The maximum penalty for an individual is $120,000 and a further $60,000 for each day the offence continues.

What you can do if you are not the polluter
* If you comply with this clean-up notice but you are not the person who caused the pollution incident to which the notice relates, you have a right to go to court to recover your costs of complying with the notice from the person who caused the incident.

Deadline for paying fee
* The fee must be paid by no later than 07-Jul-2000 which is 30 days after the date of this notice.

How to pay fee
* Please send your cheque for the fee to:
  Environment Protection Authority
  Finance Branch
  PO Box A290
  SYDNEY SOUTH NSW 1232

  To ensure your payment is processed correctly please attach to the cheque the remittance slip from the invoice.

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* Any application should be made in writing to the EPA and sent to:
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  The application should set out clearly why you think your application should be granted.

Other costs
* The Protection of the Environment Operations Act allows the EPA to recover from you reasonable costs and expenses it incurs in monitoring.
action taken under this notice, ensuring the notice is complied with and associated matters. (If you are going to be required to pay these costs and expenses you will later be sent a separate notice called a 'Compliance Cost Notice'.)
NOTICE OF CLEAN UP ACTION
Section 91 Protection of the Environment Operations Act 1997

BACKGROUND

1. This Notice relates to the premises at 2A/1 Helles Avenue Moorebank NSW 2170, being Lot 210 DP 829555 (“the premises”).
2. The premises are occupied by Australian Pacific Oil Company Pty Limited (ACN/ARBN: 002 348 610) (“APO”)
3. The directors of APO are Craig Leonard Williams and Jamie Williams. The secretary of APO is Craig Leonard Williams. Craig Leonard Williams owns 50% of APO’s share capital.
4. On 2 November 2000, officers of the EPA inspected the premises. Jamie Williams was present during the inspection.
5. EPA officers observed approximately 1000x205 litre drums, approximately 50x 20 Litre, 65 x 60 litre and 4 x 1000 litre containers stored within the warehouse section of the premises. The drums were stored on pallets and were stacked 2 to 3 drums high. The EPA officers observed that the drums, containers stored within the warehouse were not stored within a bunded area.
6. The premises was also observed to contain approximately 5X20,000 litre tanks and other packaged containers of oil products. Jamie Williams stated words to the effect that the 20,000 litre tanks held various grades of oil used for oil blending purposes at the premises.
7. The EPA reasonably suspects that the drums, containers and IBC’s stored at the premises were caused to be transported to the premises by APO by it’s servants, agents or contractors.
8. During the inspection, EPA officers were informed by Jamie Williams words to the effect that the drums, IBC’s and containers contained material which was waste. Jamie Williams stated words to the effect that he was unsure what material was stored in each of the drums.
9. EPA officers observed that many of the drums were labelled with dangerous goods codings (specifically “corrosive” and “toxic”) and that some drums were marked “environmentally hazardous” and “poison”.
10. On 3 November 2000, a Clean Up Notice No 1002632 was issued to APO under Section 91 Protection of the Environment Operations Act 1997. This Notice directed APO not to accept any group A, hazardous or industrial waste at the premises and not to move the drums, containers and IBC's stored at the premises.

11. On 22 November 2000, a Clean Up Notice No 1002891 was issued to APO under Section 91 Protection of the Environment Operations Act 1997. This Notice directed APO to sample and test the material within the drums located at the premises.

12. On 6 and 7 December 2000, sampling of material from 65 randomly selected drums was conducted by officers of the EPA. Results of the sampling indicated that some of the material in the drums that were sampled had flashpoints below 60 degrees celsius and high levels of heavy metals.

13. The EPA reasonably suspects that a significant proportion at the premises contain wastes classified as Hazardous or Group A pursuant to the Protection of the Environment Operations Act 1997.

14. The EPA reasonably suspects that a large proportion of the drums contain waste.

15. Unless exempted, the storage of Hazardous or Group A waste at premises is a scheduled activity, which requires an environment protection licence. The EPA does not believe that the storage is exempt.

16. An occupier of a premises commits an offence against the Protection of the Environment Operations Act 1997 if a scheduled activity is carried out at the premises, unless the person is, at the time the activity is carried out, the holder of an environment protection licence that authorises the activity to be carried out at those premises.

17. The EPA has not issued a licence to APO or any other person to accept or store hazardous, industrial and/or Group A waste at the premises and that the storage is thereby unlawful.

18. The EPA reasonably believes that:
   (a) the storage of some or all of the drums at the premises constitutes “development” requiring development consent under the Environment Planning and Assessment Act 1979;
   (b) that no such consent has been granted to APO or any person for storage of these materials at the premises; and
   (c) that the storage is thereby unlawful.

19. The EPA reasonably suspects that a pollution incident has occurred in that waste has been placed on the premises unlawfully.

DIRECTION TO TAKE CLEAN-UP ACTION

The Environment Protection Authority directs AUSTRALIAN PACIFIC OIL COMPANY PTY LIMITED to take the following clean-up action:

1. By 6 March 2000:
   (a) Cause a unique water proof identifying label to be placed on each of the drums, containers and IBC's stored at the premises (the "drums")
   (b) Cause an inventory to be prepared containing the unique identifying labels that have been placed on the drums;
(c) Classify the contents of each of the drums in accordance with the EPA document "Environmental Guidelines: Assessment, Classification & Management of Liquid & Non-Liquid Wastes; (copy attached)

(d) Record the results of classification of each drum in the inventory against the unique identifying label for that drum;

(e) Subject to clause 5 of this notice, cause each of the drums at the premises containing waste to be lawfully transported from the premises to a place which:
   I. Can lawfully receive the waste for treatment or disposal; and
   II. Prior to the transportation taking place is occupied by a person who has agreed in writing to accept the waste at that place; and

(f) Subject to clause 5 of this notice, cause any remaining drums to be lawfully transported from the premises to a place that may lawfully receive the drums for storage.

2. Not less than 24 hours prior to dispatch of each and every load of waste from the premises, (and not withstanding the time specified for the preparation of the inventory and classification of materials set in requirement 1(b) and 1(c), provide to the Manager Sydney Waste Section, Environment Protection Authority, a report containing:

   (a) an inventory of the drums that relate to that load of waste including:
      (i) an annotation specifying the results of classification of each drum relating to that load; and
      (ii) where the contents of any number of drums in that load have been decanted into a tanker or other container prior to removal, the identifying number of each of the drums decanted into that tanker or container;

   (b) the destination of that load;

   (c) the intended date and time of departure of that load from the premises;

   (d) the State of registration and the registration number of all vehicles to be used to transport that load from the premises;

   (e) the waste transport licence number of all vehicles to be used to transport that load from the premises;

   (f) the route to be used to transport the material in that load from the premises; and

   (g) a copy of all documentation generated in relation to transport of that load from the premises.

3. Within 24 hours of the transport and delivery of waste to its place of destination in accordance with clause 1(e) of this Notice, provide to the Manager, Sydney Waste Section, Environment Protection Authority, an annotated inventory of the waste received at the destination. The inventory must, in relation to each drum or tanker and/or container, include a written acknowledgment by the occupier of the place that the drum, tanker and/or container was received at the destination.

4. The transport of material as required by this Notice must only be undertaken in accordance with the route specified in the information provided in accordance with clause 2(f) unless a written request to an alternate route has been provided to, and agreement received from, the Manager, Sydney Waste Section, Environment Protection Authority.
5. To the extent that requirements of this Notice have been conducted in relation to drums in accordance with this Notice, being such requirements in this Notice as are specified to be conducted prior to the transport of the drums from the premises, the requirement that the drums must not be moved from the premises as directed in Notice No 1002632 dated 3 November 2000 ceases to have effect in relation to those drums.

PLEASE NOTE:
The requirements of this notice do not and are not intended to limit any applicable requirement imposed by the Protection of the Environment Operations (Waste) Regulation 1996, the Protection of the Environment Operations Act 1997 or any other law.

This notice is issued under section 91 of the Protection of the Environment Operations Act 1997. It is an offence against that Act not to comply with a clean-up notice unless you have a reasonable excuse.

---------------------------------------------

Mr Greg Sheehy
Acting Principal Officer
Sydney Planning
(By Delegation)

INFORMATION ABOUT THIS NOTICE

Penalty for not complying with this notice
- The maximum penalty for a corporation is $250,000 and a further $120,000 for each day the offence continues. The maximum penalty for an individual is $120,000 and a further $60,000 for each day the offence continues.

What you can do if you are not the polluter
- If you comply with this clean-up notice but you are not the person who caused the pollution incident to which the notice relates, you have a right to go to court to recover your costs of complying with the notice from the person who caused the incident.

Other costs
- The Protection of the Environment Operations Act allows the Environment Protection Authority to recover from you reasonable costs and expenses it incurs in monitoring action taken under this notice, ensuring the notice is complied with and associated matters. (If you are going to be required to pay these costs and expenses you will later be sent a separate notice called a “Notice Requiring Payment of Reasonable Costs and Expenses”

**************
| Notice of Clean Up Action |
| Section 91 Protection of the Environment Operations Act 1997 |
Appendix G

Hazardous chemical records provided by Defence
<table>
<thead>
<tr>
<th>Stock Number</th>
<th>Product Name</th>
<th>Colour Rating</th>
<th>Risk And Safety Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>24698</td>
<td>MORTEIN FAST KNOCKDOWN FLY AND INSECT KILLER AEROSOL</td>
<td>Amber</td>
<td>R12,R38,R51/53,S16,S2,S23,S24/25,S26,S46</td>
</tr>
<tr>
<td>26793</td>
<td>LIQUID PAPER CORRECTION PEN, LIQUID PAPER SQUEEZE PACK</td>
<td>Green</td>
<td>R11,R38,R51/53,R65,R67,S13,S16,S23,S36,S40,S46,S51,S57,S60,S61,S7,S9</td>
</tr>
<tr>
<td>66-093-8337</td>
<td>BP AUTOMOTIVE DIESEL FUEL</td>
<td>Amber</td>
<td>R40,R65,S2,S24,S36/37,S61,S62</td>
</tr>
<tr>
<td>66-108-0884</td>
<td>BP REGULAR UNLEADED PETROL</td>
<td>Amber</td>
<td>R12,R38,R45,R46,R51/53,R63,R65,R67,S16,S2,S23,S24,S36/37,S45,S61,S62</td>
</tr>
<tr>
<td>226670</td>
<td>ACETYLENE</td>
<td>Amber</td>
<td>R12,R5,R6,S16,S33,S39</td>
</tr>
<tr>
<td>226670</td>
<td>ACETYLENE</td>
<td>Amber</td>
<td>R12,R5,R6,S16,S33,S39</td>
</tr>
<tr>
<td>4636</td>
<td>MIROCAT PC 3240</td>
<td>Amber</td>
<td>R11,R20/21,R38,S2,S25</td>
</tr>
<tr>
<td>15006</td>
<td>FULLER MULTI-PURPOSE SILICONE SEALANT - TRANSLUCENT</td>
<td>Amber</td>
<td>R43,S24/25,S37,S51</td>
</tr>
<tr>
<td>1979</td>
<td>SUNLIGHT DISHWASHING LIQUID</td>
<td>Amber</td>
<td>R36,S26</td>
</tr>
<tr>
<td>66-132-9251 (A)</td>
<td>AEROSHELL GREASE 7</td>
<td>Amber</td>
<td>R43,R52/53,S24,S37,S51</td>
</tr>
<tr>
<td>225588</td>
<td>SULPHURIC ACID WITH NOT MORE THAN 51% ACID OR BATTERY FLUID</td>
<td>Red</td>
<td>R35,R41,S2,S26,S30,S37/39</td>
</tr>
<tr>
<td>Stock Number</td>
<td>Product Name</td>
<td>Colour Rating</td>
<td>Risk And Safety Phrases</td>
</tr>
<tr>
<td>--------------</td>
<td>--------------------------------------------------</td>
<td>---------------</td>
<td>-----------------------------------------------</td>
</tr>
<tr>
<td>230967</td>
<td>GREASE-A-WAY</td>
<td>Amber</td>
<td>R36/38, S1/2, S26, S37/39, S45</td>
</tr>
<tr>
<td>66-152-2728</td>
<td>MORTEIN ENERGY BALL FLY KILLER AEROSOL</td>
<td>Amber</td>
<td>R38, R51/53, S16, S2, S23, S24/25, S26, S46</td>
</tr>
<tr>
<td>3728</td>
<td>ODOURLESS FLY SPRAY</td>
<td>Amber</td>
<td>R51/53, R52, R65, S13, S2, S25, S26, S37, S38, S62</td>
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<tr>
<td>4192</td>
<td>POLYGLAZE BUG, TAR AND GRIME REMOVER</td>
<td>Amber</td>
<td>R65, S62</td>
</tr>
<tr>
<td>230967</td>
<td>GREASE-A-WAY</td>
<td>Amber</td>
<td>R36/38, S1/2, S26, S37/39, S45</td>
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<td>3491</td>
<td>KLEENSOFF F&amp;M</td>
<td>Green</td>
<td>R20/21/22, S2, S24/25, S26, S36/37/39</td>
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<tr>
<td>66-100-4753</td>
<td>METHYLATED SPIRITS</td>
<td>Amber</td>
<td>R11, S16, S2, S7</td>
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<td>3728</td>
<td>ODOURLESS FLY SPRAY</td>
<td>Amber</td>
<td>R51/53, R52, R65, S13, S2, S25, S26, S37, S38, S62</td>
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<tr>
<td>3469</td>
<td>PLUMBWELD PVC CEMENT N BLUE</td>
<td>Amber</td>
<td>R11, R20, R36/37, R66, R67, S23, S24/25, S36/37/39, S38</td>
</tr>
<tr>
<td>4192</td>
<td>POLYGLAZE BUG, TAR AND GRIME REMOVER</td>
<td>Amber</td>
<td>R65, S62</td>
</tr>
<tr>
<td>66-093-5595</td>
<td>2.26 AEROSOL</td>
<td>Amber</td>
<td>R65, S23, S24, S62</td>
</tr>
<tr>
<td>01-194-3457</td>
<td>3M HI-STRENGTH SPRAY ADHESIVE 90 (AEROSOL)</td>
<td>Amber</td>
<td>R12, R36, R51/53, R66, R67, S16, S2, S23, S51, S61</td>
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<tr>
<td>220256</td>
<td>3M PERFECT-IT II FOAM POLISHING PAD GLAZE - DARK</td>
<td>Amber</td>
<td>R52/53, R66, S2, S23, S24/25, S26, S351, S91</td>
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<td>26837</td>
<td>CRC 5073 HOT SHOT (AEROSOL)</td>
<td>Amber</td>
<td>R65, S45, S53</td>
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<tr>
<td>6030</td>
<td>DURA-GARD</td>
<td>Amber</td>
<td>R10, R37/38, R65, S16, S2, S23, S24, S45, S56</td>
</tr>
<tr>
<td>66-148-1737</td>
<td>ENAMEL-ALKYD-DPP LUSTRELESS CAMOUFLAGE GREEN APAS</td>
<td>Amber</td>
<td>R10, R20/21, R36, S36/37</td>
</tr>
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<td>66-033-5534</td>
<td>AEROSTART</td>
<td>Amber</td>
<td>R12, R65, S45, S53</td>
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<tr>
<td>66-017-9404</td>
<td>DRY FILM LUBRICANT (122L) SPRAY</td>
<td>Amber</td>
<td>R12, R36, R44, R67, S16, S23, S26, S37, S39, S40, S46, S51, S60, S7/8</td>
</tr>
<tr>
<td>66 162 2728</td>
<td>MORTEIN ENERGY BALL FLY KILLER AEROSOL</td>
<td>Amber</td>
<td>R38, R61/65, S16, S2, S23, S24/25, S26, S46</td>
</tr>
<tr>
<td>Stock Number</td>
<td>Product Name</td>
<td>Colour Rating</td>
<td>Risk And Safety Phrases</td>
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<td>--------------------------------------------------</td>
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<tr>
<td>66-148-1737</td>
<td>ENAMEL-ALKYD-DPP LUSTRELESS CAMOUFLAGE GREEN APAS</td>
<td>Amber</td>
<td>R10,R20/R21,R38,S36/37</td>
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<td>17880</td>
<td>LIQUID PETROLEUM GAS (LPG)</td>
<td>Amber</td>
<td>R12,S16,S33,S9</td>
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<tr>
<td>17880</td>
<td>LIQUID PETROLEUM GAS (LPG)</td>
<td>Amber</td>
<td>R12,S16,S33,S9</td>
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<td>4399</td>
<td>APPLIED 1011 (PRODUCT OBSOLETE)</td>
<td>Amber</td>
<td>R65,S23,S24,S45,S53</td>
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<td>23124</td>
<td>METHYLATED SPIRITS 100%</td>
<td>Amber</td>
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<td>2352</td>
<td>MOLYBOND 122L DRY FILM LUBRICANT</td>
<td>Amber</td>
<td>R11,R36/38,R52/53,R67,S16,S23,S26,S27,S29,S39,S46,S60,S7,S9</td>
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<td>27001</td>
<td>WD-40 BULK LIQUID</td>
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<td>R10,R65,R66,R67,S23,S36,S40,S51</td>
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<td>66-141-6293</td>
<td>BRAKLEEN (BULK)</td>
<td>Amber</td>
<td>R11,R40,R51,R53,S2,S23,S36/37,S61</td>
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<td>230956</td>
<td>SUPERCLENE</td>
<td>Amber</td>
<td>R36/38,S1/2,S13,S24/25,S36/37/39,S45</td>
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<td>26729</td>
<td>BATTERIES - WET FILLED WITH ACID</td>
<td>Amber</td>
<td>R33,R35,R50/53,R61,R62,S26,S30,S45,S53,S60,S61</td>
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<tr>
<td>226588</td>
<td>SULPHURIC ACID WITH NOT MORE THAN 51% ACID OR BATTERY FLUID</td>
<td>Red</td>
<td>R35,R41,S2,S26,S30,S37/39</td>
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<td>66-093-5595</td>
<td>2.26 AEROSOL</td>
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<td>AEROSTART</td>
<td>Amber</td>
<td>R12,R65,S45,S53</td>
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<td>66-128-9638</td>
<td>ANTIBOIL ANTIFREEZE</td>
<td>Amber</td>
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<tr>
<td>66-017-9404</td>
<td>DRY FILM LUBRICANT (122L) SPRAY</td>
<td>Amber</td>
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<td>4147</td>
<td>DY-MARK SPRAY &amp; MARK AEROSOL FL COLOURS</td>
<td>Amber</td>
<td>R11,R22,R36/38,R44,R48/20,S16,S25,S29,S33</td>
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<tr>
<td>4441</td>
<td>FIRE PREP 1000</td>
<td>Amber</td>
<td>R40,S24/25,S26,S28,S37/39,S45</td>
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<tr>
<td>3828</td>
<td>GALMET RUSTPAINT AEROSOL (ALL COLOURS EXCEPT SILVER)</td>
<td>Amber</td>
<td>R12,R20,S16,S2,S23,S24/25,S28,S33</td>
</tr>
<tr>
<td>Stock Number</td>
<td>Product Name</td>
<td>Colour Rating</td>
<td>Risk And Safety Phrases</td>
</tr>
<tr>
<td>--------------</td>
<td>-------------------------------------------------------------------------------</td>
<td>---------------</td>
<td>-------------------------</td>
</tr>
<tr>
<td>15443</td>
<td>HOUGHTO SAFE 273 (PRODUCT OBSOLETE)</td>
<td>Amber</td>
<td>R22,S2</td>
</tr>
<tr>
<td>15443</td>
<td>HOUGHTO SAFE 273 (PRODUCT OBSOLETE)</td>
<td>Amber</td>
<td>R22,S2</td>
</tr>
<tr>
<td>12-140-2212</td>
<td>WATER FINDING PASTE (PRODUCT OBSOLETE)</td>
<td>Amber</td>
<td></td>
</tr>
<tr>
<td>17065</td>
<td>CALCIUM CARBONATE, POWDER, 99+% , A.C.S. REAGENT</td>
<td>Green</td>
<td>R37/38,R41,S26,S36/37/39</td>
</tr>
<tr>
<td>2817</td>
<td>SODIUM CARBONATE ANHYDROUS (APS CHEMICALS)</td>
<td>Amber</td>
<td>R36,S22,S24/25,S26,S37/39</td>
</tr>
<tr>
<td>66-093-8337</td>
<td>BP AUTOMOTIVE DIESEL FUEL</td>
<td>Amber</td>
<td>R40,R65,S2,S24,S36/37/S61,S62</td>
</tr>
<tr>
<td>225588</td>
<td>SULPHURIC ACID WITH NOT MORE THAN 51% ACID OR BATTERY FLUID</td>
<td>Red</td>
<td>R35,R41,S2,S26,S30,S37/39</td>
</tr>
<tr>
<td>66-027-0810</td>
<td>CALCIUM HYPOCHLORITE - HYDRATED (POOL RESOURCES)</td>
<td>Red</td>
<td>R31,R34,R41,R8,S2,S26,S43,S45</td>
</tr>
<tr>
<td>428</td>
<td>CITRIC ACID ANHYDROUS (CHEM-SUPPLY)</td>
<td>Amber</td>
<td>R41,S26,S39</td>
</tr>
<tr>
<td>3047</td>
<td>CALCIUM CHLORIDE (APS CHEMICALS)</td>
<td>Amber</td>
<td>R22,R36,S22,S24/25,S26,S36/37/39,S45,S57</td>
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<tr>
<td>2419</td>
<td>SODIUM BISULPHATE (APS CHEMICALS)</td>
<td>Amber</td>
<td>R41,S26,S39</td>
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<tr>
<td>19282</td>
<td>SODIUM HYPOCHLORITE (12.5% SOLUTION)</td>
<td>Red</td>
<td>R31,R34,S1/S2,S26,S28,S37/39,S45,S54,S50</td>
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<tr>
<td>3324</td>
<td>ROCOL EASYLINE ULTIMATE ALL COLOURS</td>
<td>Amber</td>
<td>R12,R67,S27,S44,S53,S7,S9</td>
</tr>
<tr>
<td>27190</td>
<td>SLS ETCH PRIMER (AEROSOL)</td>
<td>Amber</td>
<td>R12,S16</td>
</tr>
<tr>
<td>66-093-5595  (2)</td>
<td>WD40 AEROSOL</td>
<td>Amber</td>
<td>R10,R66,S16,S2,S23,S37,S51</td>
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<td>Product Name</td>
<td>Colour Rating</td>
<td>Risk And Safety Phrases</td>
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<td>Site: 0367 SME/ S180 GEW/ STORE ROOM</td>
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<tr>
<td>3440</td>
<td>DURACELL ALKALINE BATTERIES</td>
<td>Green</td>
<td>R22,R34,R41,R51/53,51,525,527,535,536,540,545,557,561</td>
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## CHEM ALERT

### Dangerous Goods Listing

**Site: 0367 SME/ S001 SME HQ/ G01 OFFICES**

<table>
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<tr>
<th>Stock Number</th>
<th>Product Name</th>
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<th>PKG</th>
<th>Quantity</th>
<th>Audit Date</th>
<th>Entry Date</th>
</tr>
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<tbody>
<tr>
<td>66-023-8581</td>
<td>LIQUID PAPER CORRECTION FLUID (20ML BOTTLE)</td>
<td>3Y</td>
<td>1993</td>
<td>3 - Flammable Liquids</td>
<td>III</td>
<td>120 Millilitre</td>
<td>28 Sep 2011</td>
<td>29 Sep 2010</td>
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<tr>
<td>24698</td>
<td>MORTEN FAST KNOCKDOWN FLY AND INSECT KILLER AEROSOL</td>
<td>2YE</td>
<td>1950</td>
<td>2.1 - Flammable Gases</td>
<td>N/A</td>
<td>200 Millilitre</td>
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**Site: 0367 SME/ S001 SME HQ/ G18 REGISTRY**

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<tr>
<td>26793</td>
<td>LIQUID PAPER CORRECTION PEN, LIQUID PAPER SQUEEZE PACK</td>
<td>3YE</td>
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<td>3 - Flammable Liquids</td>
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<td>22 Millilitre</td>
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**Site: 0367 SME/ S001 SME HQ/ G19 SHOP FRONT**

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<tr>
<td>66-023-8581</td>
<td>LIQUID PAPER CORRECTION FLUID (20ML BOTTLE)</td>
<td>3Y</td>
<td>1993</td>
<td>3 - Flammable Liquids</td>
<td>III</td>
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**Site: 0367 SME/ S001 SME HQ/ G22 STANDARDS**

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<tbody>
<tr>
<td>228077</td>
<td>AIR-HORN REFILL CANISTER</td>
<td>2TE</td>
<td>1956</td>
<td>2.2 - Non-Flammable, Non-Toxic Gases</td>
<td>N/A</td>
<td>380 Millilitre</td>
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**Site: 0367 SME/ S006 SEW/ WAB/ POL SHED**

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<tr>
<td>68-106-0884</td>
<td>BP REGULAR UNLEADED PETROL</td>
<td>3YE</td>
<td>1203</td>
<td>3 - Flammable Liquids</td>
<td>II</td>
<td>1000 Litre</td>
<td>06 Oct 2011</td>
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**Site: 0367 SME/ S011 CW (TRADE TRAINING)/ GAS CAGE**

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<tr>
<td>226670</td>
<td>ACETYLENE</td>
<td>2SE</td>
<td>1001</td>
<td>2.1 - Flammable Gases</td>
<td>N/A</td>
<td>10 D Cylinder 10L</td>
<td>06 Oct 2011</td>
<td>06 Oct 2010</td>
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<tr>
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**Site: 0367 SME/ S011 CW (TRADE TRAINING)/ PAINT BOOTH**

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<tbody>
<tr>
<td>4636</td>
<td>MRCAT PC 3240</td>
<td>3YE</td>
<td>1263</td>
<td>3 - Flammable Liquids</td>
<td>II</td>
<td>20 Litre</td>
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**Site: 0367 SME/ S011 CW (TRADE TRAINING)/ Q STORE**

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<tr>
<td>227351</td>
<td>PASLODE IMPULSE FUEL CELL</td>
<td>2WE</td>
<td>3478</td>
<td>2.1 - Flammable Gases</td>
<td>N/A</td>
<td>115 Units</td>
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**Site: 0367 SME/ S012 TPT SME/ BATTERY CAGE**

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<tbody>
<tr>
<td>225588</td>
<td>SULPHURIC ACID WITH NOT MORE THAN 51% ACID OR BATTERY FLUID</td>
<td>2R</td>
<td>2796</td>
<td>8 - Corrosive Substances</td>
<td>II</td>
<td>50 Litre</td>
<td>20 Sep 2011</td>
<td>20 Sep 2010</td>
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</table>
## Dangerous Goods Listing

### Site: 0367 SME/ S012 TPT SME/ CLEANING LOCKER 1

<table>
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<th>Product Name</th>
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<tbody>
<tr>
<td>222181</td>
<td>CRC 5045 SO EASY</td>
<td>2Y</td>
<td>1950</td>
<td>2.1 - Flammable Gases</td>
<td>N/A</td>
<td>28800 Grams</td>
<td>22 Sep 2011</td>
<td>22 Sep 2010</td>
</tr>
<tr>
<td>66-152-2728</td>
<td>MORTEN ENERGY BALL FLY KILLER AEROSOL</td>
<td>2Y</td>
<td>1950</td>
<td>2.1 - Flammable Gases</td>
<td>N/A</td>
<td>1500 Grams</td>
<td>22 Sep 2011</td>
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### Site: 0367 SME/ S012 TPT SME/ CLEANING LOCKER 2

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<th>Audit Date</th>
<th>Entry Date</th>
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</thead>
<tbody>
<tr>
<td>66-100-4753</td>
<td>METHYLATED SPIRITS</td>
<td>2YE</td>
<td>1170</td>
<td>3 - Flammable Liquids</td>
<td>II</td>
<td>12 Litre</td>
<td>22 Sep 2011</td>
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<tr>
<td>98-203-8527</td>
<td>MINERAL TURPENTINE</td>
<td>3Y</td>
<td>1300</td>
<td>3 - Flammable Liquids</td>
<td>III</td>
<td>4 Litre</td>
<td>22 Sep 2011</td>
<td>22 Sep 2010</td>
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<tr>
<td>3469</td>
<td>PLUMBWELD PVC CEMENT N BLUE</td>
<td>3YE</td>
<td>1993</td>
<td>3 - Flammable Liquids</td>
<td>III</td>
<td>500 Millilitre</td>
<td>22 Sep 2011</td>
<td>22 Sep 2010</td>
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<tr>
<td>230996</td>
<td>TURTLE WAX COLOUR MAGIC POLISH (PRODUCT OBSOLETE)</td>
<td>3Y[Y]</td>
<td>1993</td>
<td>3 - Flammable Liquids</td>
<td>III</td>
<td>479 Grams</td>
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### Site: 0367 SME/ S012 TPT SME/ FLC 1

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<tr>
<td>66-093-5595</td>
<td>2.26 AEROSOL</td>
<td>2Y</td>
<td>1950</td>
<td>2.2 - Non-Flammable, Non-Toxic Gases</td>
<td>N/A</td>
<td>22500 Grams</td>
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### Site: 0367 SME/ S012 TPT SME/ FLC 2

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<tr>
<td>01-194-3457</td>
<td>3M HI-STRENGTH SPRAY ADHESIVE 90 (AEROSOL)</td>
<td>2Y</td>
<td>1950</td>
<td>2.1 - Flammable Gases</td>
<td>N/A</td>
<td>500 Grams</td>
<td>22 Sep 2011</td>
<td>22 Sep 2010</td>
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<tr>
<td>66-102-4439</td>
<td>CASTROL CHAIN OIL (AEROSOL)</td>
<td>2YE</td>
<td>1950</td>
<td>2.1 - Flammable Gases</td>
<td>N/A</td>
<td>1250 Grams</td>
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<tr>
<td>26837</td>
<td>CRC 5073 HOT SHOT (AEROSOL)</td>
<td>2Y</td>
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<td>2.1 - Flammable Gases</td>
<td>N/A</td>
<td>2400 Grams</td>
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<td>6030</td>
<td>DURA-GARD</td>
<td>2Y</td>
<td>1950</td>
<td>2.1 - Flammable Gases</td>
<td>N/A</td>
<td>354 Grams</td>
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### Site: 0367 SME/ S012 TPT SME/ FLC 3

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<th>Entry Date</th>
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<tbody>
<tr>
<td>66-148-1737</td>
<td>ENAMEL-ALKYD-DPP LUSTRELESS CAMOUFLAGE GREEN APAS</td>
<td>3Y</td>
<td>1263</td>
<td>3 - Flammable Liquids</td>
<td>III</td>
<td>40000 Grams</td>
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### Site: 0367 SME/ S012 TPT SME/ FLC 4

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<tr>
<td>66-033-5534</td>
<td>AEROSTART</td>
<td>2Y</td>
<td>1950</td>
<td>2.1 - Flammable Gases</td>
<td>N/A</td>
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<td>66-102-4439</td>
<td>CASTROL CHAIN OIL (AEROSOL)</td>
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<td>2.1 - Flammable Gases</td>
<td>N/A</td>
<td>1500 Grams</td>
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<td>66-151-5756</td>
<td>CO CONTACT CLEANER (AEROSOL) (PRE JUNE 2010)</td>
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<td>1950</td>
<td>2.1 - Flammable Gases</td>
<td>N/A</td>
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<td>2Y</td>
<td>1950</td>
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<td>66-017-9404</td>
<td>DRY FILM LUBRICANT (122L) SPRAY</td>
<td>2YE</td>
<td>1950</td>
<td>2.1 - Flammable Gases</td>
<td>N/A</td>
<td>30000 Grams</td>
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<tr>
<td>66-152-2728</td>
<td>MORTEN ENERGY BALL FLY KILLER AEROSOL</td>
<td>2Y</td>
<td>1950</td>
<td>2.1 - Flammable Gases</td>
<td>N/A</td>
<td>500 Grams</td>
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<td>23 Sep 2010</td>
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<tr>
<td>2911</td>
<td>POWER LUBE WITH TEFLOW</td>
<td>2Y</td>
<td>1950</td>
<td>2.1 - Flammable Gases</td>
<td>N/A</td>
<td>900 Grams</td>
<td>23 Sep 2011</td>
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<tr>
<td>2113</td>
<td>ROCOL WIRE ROPE SPRAY</td>
<td>2YE</td>
<td>1950</td>
<td>2.1 - Flammable Gases</td>
<td>N/A</td>
<td>3600 Grams</td>
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## Dangerous Goods Listing

### Site: 0367 SME/ S012 TPT SME/ FLC 5

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<tr>
<td>66-146-1737</td>
<td>ENAMEL-ALKYD-DPP LUSTRELESS CAMOUFLAGE GREEN APAS</td>
<td>3Y</td>
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<td>3 - Flammable Liquids</td>
<td>III</td>
<td>60000 Grams</td>
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### Site: 0367 SME/ S012 TPT SME/ FLC 6

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<tr>
<td>4468</td>
<td>ZINC PHOSPHATE PRIMER</td>
<td>3YE</td>
<td>1263</td>
<td>3 - Flammable Liquids</td>
<td>II</td>
<td>40000 Grams</td>
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### Site: 0367 SME/ S012 TPT SME/ GAS CAGE

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<th>DG Class</th>
<th>PKG</th>
<th>Quantity</th>
<th>Audit Date</th>
<th>Entry Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>17880</td>
<td>LIQUID PETROLEUM GAS (LPG)</td>
<td>2WE</td>
<td>1965</td>
<td>2.1 - Flammable Gases</td>
<td>N/A</td>
<td>16 Kilogram</td>
<td>22 Sep 2011</td>
<td>22 Sep 2010</td>
</tr>
<tr>
<td>17880</td>
<td>LIQUID PETROLEUM GAS (LPG)</td>
<td>2WE</td>
<td>1965</td>
<td>2.1 - Flammable Gases</td>
<td>N/A</td>
<td>16 Kilogram</td>
<td>22 Sep 2011</td>
<td>22 Sep 2010</td>
</tr>
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</table>

### Site: 0367 SME/ S012 TPT SME/ POL SHED

<table>
<thead>
<tr>
<th>Stock Number</th>
<th>Product Name</th>
<th>Hazchem</th>
<th>UN No</th>
<th>DG Class</th>
<th>PKG</th>
<th>Quantity</th>
<th>Audit Date</th>
<th>Entry Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>23124</td>
<td>METHYLATED SPIRITS 100%</td>
<td>2YE</td>
<td>1170</td>
<td>3 - Flammable Liquids</td>
<td>II</td>
<td>24 Litre</td>
<td>22 Sep 2011</td>
<td>22 Sep 2010</td>
</tr>
<tr>
<td>96-203-8527</td>
<td>MINERAL TURPENTINE</td>
<td>3Y</td>
<td>1300</td>
<td>3 - Flammable Liquids</td>
<td>III</td>
<td>16 Litre</td>
<td>22 Sep 2011</td>
<td>22 Sep 2010</td>
</tr>
<tr>
<td>2352</td>
<td>MOLYBOND 122L DRY FILM LUBRICANT</td>
<td>3YE</td>
<td>1993</td>
<td>3 - Flammable Liquids</td>
<td>II</td>
<td>5000 Millilitre</td>
<td>22 Sep 2011</td>
<td>22 Sep 2010</td>
</tr>
<tr>
<td>27001</td>
<td>WD-40 BULK LIQUID</td>
<td>3Y</td>
<td>1268</td>
<td>3 - Flammable Liquids</td>
<td>III</td>
<td>20 Litre</td>
<td>22 Sep 2011</td>
<td>22 Sep 2010</td>
</tr>
</tbody>
</table>

### Site: 0367 SME/ S012 TPT SME/ STORAGE CAGE

<table>
<thead>
<tr>
<th>Stock Number</th>
<th>Product Name</th>
<th>Hazchem</th>
<th>UN No</th>
<th>DG Class</th>
<th>PKG</th>
<th>Quantity</th>
<th>Audit Date</th>
<th>Entry Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>66-141-6293</td>
<td>BRAKLEEN (BULK)</td>
<td>3WE</td>
<td>1992</td>
<td>3 - Flammable Liquids/6.1 - Toxic Substances</td>
<td>II</td>
<td>40 Litre</td>
<td>23 Sep 2011</td>
<td>23 Sep 2010</td>
</tr>
</tbody>
</table>

### Site: 0367 SME/ S019 CW (CIVIL SQN)/ LPG CAGE

<table>
<thead>
<tr>
<th>Stock Number</th>
<th>Product Name</th>
<th>Hazchem</th>
<th>UN No</th>
<th>DG Class</th>
<th>PKG</th>
<th>Quantity</th>
<th>Audit Date</th>
<th>Entry Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>3946</td>
<td>COMMERCIAL PROPANE (ORIGIN ENERGY)</td>
<td>2YE</td>
<td>1978</td>
<td>2.1 - Flammable Gases</td>
<td>N/A</td>
<td>90 Kilogram</td>
<td>01 Oct 2010</td>
<td>01 Oct 2010</td>
</tr>
</tbody>
</table>

### Site: 0367 SME/ S019 CW (CIVIL SQN)/ LPG TANK

<table>
<thead>
<tr>
<th>Stock Number</th>
<th>Product Name</th>
<th>Hazchem</th>
<th>UN No</th>
<th>DG Class</th>
<th>PKG</th>
<th>Quantity</th>
<th>Audit Date</th>
<th>Entry Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>3946</td>
<td>COMMERCIAL PROPANE (ORIGIN ENERGY)</td>
<td>2YE</td>
<td>1978</td>
<td>2.1 - Flammable Gases</td>
<td>N/A</td>
<td>200 Kilogram</td>
<td>01 Oct 2010</td>
<td>01 Oct 2010</td>
</tr>
</tbody>
</table>

### Site: 0367 SME/ S019 CW (CIVIL SQN)/ S017 BATTERY & CORROSIVE STORE

<table>
<thead>
<tr>
<th>Stock Number</th>
<th>Product Name</th>
<th>Hazchem</th>
<th>UN No</th>
<th>DG Class</th>
<th>PKG</th>
<th>Quantity</th>
<th>Audit Date</th>
<th>Entry Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>26729</td>
<td>BATTERIES - WET FILLED WITH ACID</td>
<td>2W</td>
<td>2794</td>
<td>8 - Corrosive Substances</td>
<td>III</td>
<td>10 Units</td>
<td>01 Oct 2010</td>
<td>01 Oct 2010</td>
</tr>
<tr>
<td>225588</td>
<td>SULPHURIC ACID WITH NOT MORE THAN 51% ACID OR BATTERY FLUID</td>
<td>2R</td>
<td>2796</td>
<td>8 - Corrosive Substances</td>
<td>II</td>
<td>60 Litre</td>
<td>01 Oct 2010</td>
<td>01 Oct 2010</td>
</tr>
</tbody>
</table>

### Site: 0367 SME/ S019 CW (CIVIL SQN)/ S017 POL SHED

<table>
<thead>
<tr>
<th>Stock Number</th>
<th>Product Name</th>
<th>Hazchem</th>
<th>UN No</th>
<th>DG Class</th>
<th>PKG</th>
<th>Quantity</th>
<th>Audit Date</th>
<th>Entry Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>66-093-5595</td>
<td>2.26 AEROSOL</td>
<td>2Y</td>
<td>1950</td>
<td>2.2 - Non-Flammable, Non-Toxic Gases</td>
<td>N/A</td>
<td>36000 Grams</td>
<td>30 Sep 2010</td>
<td>30 Sep 2010</td>
</tr>
<tr>
<td>66-141-6289</td>
<td>AEROSTART</td>
<td>2Y</td>
<td>1950</td>
<td>2.1 - Flammable Gases</td>
<td>N/A</td>
<td>10.8 Kilogram</td>
<td>30 Sep 2010</td>
<td>30 Sep 2010</td>
</tr>
</tbody>
</table>
## Dangerous Goods Listing

### Stock Number | Product Name | Hazchem | UN No | DG Class | PKG | Quantity | Audit Date | Entry Date
--- | --- | --- | --- | --- | --- | --- | --- | ---
66-108-0884 | BP REGULAR UNLEADED PETROL | 3YE | 1203 | 3 - Flammable Liquids | II | 1600 Litre | 30 Oct 2011 | 30 Sep 2010
66-017-9404 | DRY FILM LUBRICANT (122L) SPRAY | 2YE | 1950 | 2.1 - Flammable Gases | N/A | 21600 Grams | 30 Sep 2011 | 30 Sep 2010
4147 | DRY-MARK SPRAY & MARK AEROSOL FL COLOURS | 2YE | 1950 | 2.1 - Flammable Gases | N/A | 35000 Grams | 30 Sep 2011 | 30 Sep 2010
3626 | GALMET RUSTPAINT AEROSOL (ALL COLOURS EXCEPT SILVER) | 2YE | 1950 | 2.1 - Flammable Gases | N/A | 13500 Grams | 30 Sep 2011 | 30 Sep 2010

**Site: 0367 SME/ S119 IET SQN/ CE YARD/ BATTERY STORAGE**

66-065-0685 | BATTERIES - WET FILLED WITH ACID | 2W | 2794 | 8 - Corrosive Substances | III | 2 Units | 06 Oct 2011 | 06 Oct 2010
225588 | SULPHURIC ACID WITH NOT MORE THAN 51% ACID OR BATTERY FLUID | 2R | 2796 | 8 - Corrosive Substances | II | 10 Litre | 06 Oct 2011 | 06 Oct 2010

**Site: 0367 SME/ S119 IET SQN/ CE YARD/ CHEM SHED**

66-027-6610 | CALCIUM HYPOCHLORITE - HYDRATED (POOL RESOURCES) | 2W | 2880 | 5.1 - Oxidising Substances | II | 420 Litre | 06 Oct 2011 | 06 Oct 2010

**Site: 0367 SME/ S119 IET SQN/ CE YARD/ GAS CAGE**

3946 | COMMERCIAL PROPANE (ORIGIN ENERGY) | 2YE | 1978 | 2.1 - Flammable Gases | N/A | 50 Kilogram | 06 Oct 2011 | 06 Oct 2010

**Site: 0367 SME/ S119 IET SQN/ CE YARD/ OPEN SHED**

2419 | SODIUM BISULPHATE (APS CHEMICALS) | 2X | 3260 | 8 - Corrosive Substances | III | 400 Litre | 06 Oct 2011 | 06 Oct 2010
19282 | SODIUM HYPOCHLORITE (12.5% SOLUTION) | 2X | 1791 | 8 - Corrosive Substances | III | 800 Litre | 06 Oct 2011 | 06 Oct 2010

**Site: 0367 SME/ S180 GEW/ FLC**

66-064-4070 | DRY-MARK SPRAY INK ALL COLOURS LEAD-FREE AEROSOL | 2Y | 1950 | 2.1 - Flammable Gases | N/A | 3500 Grams | 30 Sep 2011 | 30 Sep 2010
4605 | METHYLATED SPIRT (GLENDALE) (C81) | 2YE | 1170 | 3 - Flammable Liquids | II | 4 Litre | 30 Sep 2011 | 30 Sep 2010
98-203-8527 | MINERAL TURPENTINE | 3Y | 1300 | 3 - Flammable Liquids | III | 4 Litre | 30 Sep 2011 | 30 Sep 2010
3324 | ROCOL EASYLINE ULTIMATE ALL COLOURS | 2Y | 1950 | 2.1 - Flammable Gases | N/A | 5250 Millilitre | 30 Sep 2011 | 30 Sep 2010
27190 | SLS ETCH PRIMER (AEROSOL) | 2Y | 1950 | 2.1 - Flammable Gases | N/A | 1750 Grams | 30 Sep 2011 | 30 Sep 2010
3722 | ULTRACOLOR AEROSOL LINE MARKER - COLOUR RANGE | 2Y | 1950 | 2.1 - Flammable Gases | N/A | 14000 Grams | 30 Sep 2011 | 30 Sep 2010
66-093-5595 (2) | WD40 AEROSOL | 2YE | 1950 | 2.1 - Flammable Gases | N/A | 425 Grams | 30 Sep 2011 | 30 Sep 2010

**Site: 0367 SME/ S180 GEW/ STORE ROOM**

1752 | FOAMCLENE | 2Y | 1950 | 2.2 - Non-Flammable, Non-Toxic Gases | N/A | 700 Grams | 30 Sep 2011 | 30 Sep 2010