

Compass Environmental Pty Ltd ABN: 29 938 692 270 Suite 6, 5 Rose Street Hawthorn East 3123 Australia Tel: +6139819 4704 Fax: +6139819 4724 www.compassenviro.com.au

Joss Engebretsen Land Development Manager BROADCAST AUSTRALIA Level 10, Tower A, 799 Pacific Highway Chatswood, NSW 2067 Joss.Engebretsen@broadcastaustralia.com.au

1 April 2019

Dear Joss,

REVIEW OF PREVIOUS REPORTS: 250 TAYLORS ROAD, DELAHEY VIC

Compass Environmental completed a review of previous reports for the site located at 250 Taylors Road, Delahey VIC. The objective was to review the previous environmental investigations completed by Douglas Partners, and the conclusions drawn.

We understand an initial environmental investigation was undertaken in 2010 following an original plan by Broadcast Australia to re-zone the site for residential purposes. Due to the elapsed time, Council requested that the original environmental investigation be updated to better reflect the current status of the site. This investigation was completed, with the conclusions stating that the site demonstrated low potential for contamination and that the removal of the Environmental Audit Overlay (EAO) by the Planning Authority was recommended.

The site comprised an approximate area of 46 hectares.

A summary of the information reviewed is detailed below.

1 Summary of Previous Reports

The following reports prepared by Douglas Partners were reviewed for information in relation to the previous works undertaken at the site and to obtain an indication of the potential contamination conditions for the site:

- Report to Broadcast Australia Pty Ltd, Environmental Site Assessment 250 Taylors Road, Delahey, Douglas Partners, February 2010.
- Report to Broadcast Australia Pty Ltd, Preliminary Site Investigation for Contamination Proposed Rezoning, 250 Taylors Road, Delahey, Douglas Partners, February 2019.

An overview of each report is provided below.

1.1 Douglas Partners, 2010

Douglas Partners conducted an initial preliminary environmental investigation of the site in January and February 2010. The assessment included:

□ A desktop site history review (including historical aerials, historic titles, EPA Priority Sites Register and internet search) and detailed site inspection.



- Drilling of 25 boreholes by drill-rig (solid flight auger) in a grid across the subject site, to a target depth of 0.5 m bgl.
- □ Logging of soil profiles at each investigation location, and soil sampling at each location, generally from near the site surface and from 0.5 m depth.
- □ Laboratory analysis of selected soil samples for a broad range of potential contaminants, including three samples for EPA screen, and 22 samples for metals (arsenic, cadmium, copper, lead, mercury, molybdenum, nickel, tin, selenium, silver and zinc) and OCPs. One set of QA/QC samples was collected during the 2010 soil sampling round.

Key findings of the assessment included:

- The site had comprised Crown land prior to 1932, after which it was granted as a Farm Allotment. In 1937, ownership of the land transferred to the Commonwealth of Australia, presumably for operation by the National Transmission Network (NTN). This included the land currently to the north of the site. Land ownership was transferred to NTL Australia Pty Ltd (National Transmission Network) in 2000, which was then re-branded as Broadcast Australia Pty Ltd in 2002.
- Historic aerial photographs indicated that the site had been vacant land (with the exception of a rural residence, trees and a dam) adjacent to the broadcasting operational area from 1937 until the time of the investigation. It was considered possible that the site had been used for pastoral or grazing purposes during this time. Aerial photography also indicated that the business selling bricks, roof tiles and pavers had been established in the southwest corner of the site from 2006.
- No imported fill material was identified, with each of the sampling locations encountering natural soils directly from the surface. The natural soils comprised pale brown to grey silt overlying brown silty clay. The report noted that the natural soil profile consisted of residual silt and clay overlying basalt floaters and bedrock, consistent with the geological setting (Newer Volcanics).
- □ Laboratory results indicated that the concentrations of all analytes were below the adopted ecological (NEPM EIL 1999/ANECC 1992) and human health (NEPM HIL A 1999) criteria. The results were also all below the EPA Fill Material upper limits.
- □ The report concluded that the potential for contamination at the site was considered very low. The report, however, also stated that there was low potential contamination from previous rural land uses, including the disturbance of the land and placement of fill in isolated pockets, burial of animals or used farm equipment and material and/or chemicals (pesticides and herbicides), and the application of the latter.
- □ The report recommended that the EAO be removed by the planning authority based on the findings of the investigation, and that a detailed site inspection was not considered necessary.

A copy of the report is provided in **Attachment A**.



1.2 Douglas Partners, 2019

Douglas Partners conducted a supplementary preliminary environmental investigation of the site in January and February 2019, following the recommendation by Council to update the original investigation. The assessment included:

- □ An updated site inspection, including the brick and paver business within the south-western corner of the site. It should be noted that this portion of the site was not including in the site inspection from 2010.
- **T** Two additional historical aerials (2004 and 2018) that were not included in the previous desktop site history.
- **G** Sampling of eight of the original 25 borehole locations via hand auger.
- □ Sampling of an additional three locations via hand auger in a brick and tile business within the southwestern corner of the site. It should be noted that this portion of the site was not included as part of the 2010 investigation.
- □ Logging of soil profiles at each investigation location, and soil sampling at each location, generally from near the site surface and from 0.5 m depth.
- Laboratory analysis of selected soil samples for a broad range of potential contaminants, including:
 - Two samples for EPA screen and eight samples for metals (arsenic, cadmium, total chromium, copper, lead, mercury, molybdenum, nickel, tin, selenium, silver and zinc) and OCPs from the eight original locations. It was noted that only a duplicate sample was collected during the 2019 round of soil sampling.
 - One sample for EPA screen and two samples for TRH, PAH and metals from the former brick and tile business.

Key findings of the assessment included:

- □ The additional historical aerials (Nearmap images) included in the site history from 2014 and 2018 showed no significant differences to the 2006 aerial, and no significant changes to the site.
- □ A recent site inspection found that the majority of the site comprised vacant grassed land, with the brick and tile business still present in the southwest of the site. There were no significant differences to the initial site inspection.
- □ No visual or olfactory evidence of potential contamination was observed during inspection of the brick and tile retail business. Aggregate gravel and broken tiles were noted on top of the natural soils, but no other important fill material was observed.
- □ A shallow layer of natural silt ranging between 0.02 m and 0.2 m in depth overlaid natural high plasticity silty clay derived from the underlying basalt, which confirmed the previous results. A layer of basalt gravel was present surrounding the retail business in the southwest of the site, which was identified as fill material, overlying the same natural soils observed throughout the rest of the site. It was noted that the bore logs for the three additional boreholes in the southwest of the site surrounding the brick and tile business were not included in the report.



- □ The report concluded that all laboratory results (including both resampled and additional borehole locations and the results from the previous report) were below adopted ecological (NEPM EIL/ESL for residential and open space) and human health (NEPM HIL/HSL A and HSL A/B for vapour intrusion, clay) criteria.
- Comparison to EPA publication IWRG621 indicated that the analysed soil would be categorised as EPA Fill Material, except for one sample within the retail area to the southwest of the site, which was classified as EPA Category C Contaminated Soil due to the reported pH (9.8 standard units) and nickel (80 mg/kg) concentrations. The report considered that the alkaline pH and elevated nickel were likely attributed to the basalt gravel at that location, and was not indicative of contamination.
- □ It should be noted that the assessment excluded a fenced off area in the south-eastern portion of the site which contained a telecommunications tower and two small buildings associated with the tower. Further investigation may be required within this section of the site.
- The conclusions of the report were consistent with those from 2010, including the low potential for contamination at the site and the recommendation of the removal of the EAO by the planning authority. Douglas Partners considered further investigation to not be necessary.

A copy of the report is provided in Attachment A.

2 Available Guidance

The framework for assessment of contamination risks associated with the site, and the suitability of the site for the proposed use is provided in the following

- Potentially Contaminated Land General Practice Note, Department of Sustainability and Environment 2005.
 A copy is provided in Attachment B.
- D Ministerial Direction No. 1, Planning and Environment Act 1987. A copy is provided in Attachment C.
- Environmental Audit Overlay, Brimbank City Council Planning Scheme. A copy is provided in Attachment
 D.

2.1 Potentially Contaminated Land General Practice Note

The Department of Environment, Land Water and Planning (**DELWP**) provides guidance on this matter. This is effected principally through a guidance document they have prepared; *Potentially Contaminated Land, General Practice Note, Department of Sustainability and Environment, June 2005.* Note that DELWP was formally DSE. This guidance document provides advice to planners and applicants on several matters, including:

- □ How to identify if land is potentially contaminated.
- □ The appropriate level of assessment of contamination for a planning scheme amendment or planning permit application.
- □ Appropriate conditions on planning permits.
- Circumstances where the Environmental Audit Overlay should be applied or removed.



The application of the guidance document effectively works on the assessment of the historical uses of the site, and the associated potential for contamination. **Table 1** lists site uses that are ranked into high, medium and low potential for contamination. **Table 2** provides a matrix on the allocated risk, and the associated level of assessment recommended to be required to support the re-development of a site.

The process is based around the assessment of potential for the presence of contamination.

Based on the demonstrated **low** potential for contamination at the site (**Table 1**) and the proposed land use (mixed use including residential), the site would be classified as Category C (**Table 2**). Category C does not require completion of a Statutory Audit or assessment, rather implementation of general duties under Section 12(2)(b) and Section 60(I)(a)(iii) of the Planning and Environment Act 1987.

Further, the General Practice Note provides guidance on when an Environmental Audit Overlay should be removed. It states that the Planning Authority should remove the Environmental Audit Overlay in the following circumstances:

- 1. It determines that the land is not potentially contaminated land. The steps set out in 'How is potentially contaminated land identified?' will assist this decision; or
- 2. The site is given a Certificate of Environmental Audit.

Potentially contaminated land is defined by Ministerial Direction No. 1, as detailed in Section 2.2 below.

On the basis of the review of the level of assessment required, the former (Option 1) is considered the appropriate basis on which to remove the Environmental Audit Overlay.

2.2 Ministerial Direction No.1

The purpose of *Ministerial Direction No. 1* is to ensure that potentially contaminated land is suitable for a use which is proposed to be allowed under an amendment to a planning scheme and which could be significantly adversely affected by any contamination.

The Ministerial Direction specifically applies to a Planning Scheme amendment which would have the effect of allowing **potentially contaminated land** to be used for a **sensitive use**. These are defined as follows:

D Potentially contaminated land means land known or known to have been used for:

- o Industry.
- Mining.
- The storage of chemicals, gas, wastes or liquid fuel (if not ancillary to another use of the land).
- **Sensitive use** means a residential use, a child care centre, a pre-school centre or a primary school.

On the basis of the assessment works completed, the site is not considered to constitute potentially contaminated land on the basis that it has not been used for the purposes described above.



2.3 Environmental Audit Overlay

The site is encumbered by an Environmental Audit Overlay. The purpose of the overlay is stated to be as follows:

- **D** To implement the Municipal Planning Strategy and the Planning Policy Framework.
- □ To ensure that potentially contaminated land is suitable for a use which could be significantly adversely affected by any contamination.

The Environmental Audit Overlay requires the following:

- □ Before a sensitive use commences or before the construction or carrying out of buildings and works in association with a sensitive use commences, either:
 - A certificate of environmental audit must be issued for the land in accordance with Part IXD of the *Environment Protection Act 1970*, or
 - An environmental auditor appointed under the *Environmental Protection Act* 1970 must make a statement in accordance with Part IXD of that Act that the environmental conditions of the land are suitable for the sensitive use.

On the basis of the above, completion of a Statutory Environmental Audit would be required to support redevelopment of the site for a sensitive use.

3 Conclusions

Based on review of the available reports, Compass Environmental makes the following conclusions:

- □ Based on the methodology and results presented in both Douglas Partners reports, the assessment works completed and conclusions drawn are made on a sound basis and are reliable in nature.
- □ The preliminary assessments completed reflect a limited amount of testing, however the level of assessment completed supports the conclusion from Douglas Partners that the site presents low potential for contamination.
- □ With respect to the DSE Potentially Contaminated Land General Practice Note;
 - Completion of a Statutory Audit or assessment are not considered warranted to support the proposed sensitive use, rather implementation of general duties under Section 12(2)(b) and Section 60(I)(a)(iii) of the Planning and Environment Act 1987.
 - The Planning Authority should remove the Environmental Audit Overlay, on the basis that the site is not potentially contaminated land as defined by Ministerial Direction No. 1.
- □ With respect to *Ministerial Direction No. 1*, the site is not considered to constitute potentially contaminated land on the basis that it has not been used for the purposes described above. On that basis, completion of a Statutory Audit is not considered warranted to support the proposed sensitive use.
- □ The Environmental Audit Overlay requires completion of a Statutory Environmental Audit to support for re-development of the site for a sensitive use. In this case, the requirements of the Environmental Audit



Overlay appear inconsistent with the requirements of the DSE Potentially Contaminated Land General Practice Note and Ministerial Direction No. 1. Compass concurs with the conclusion of Douglas Partners that completion of an Audit is not warranted to support the re-development of the site for a sensitive use and the removal of the Environmental Audit Overlay is supported.

4 Limitations

The services performed by Compass Environmental have been conducted in a manner consistent with the level of quality and skill generally exercised by the consulting profession. Compass Environmental assumes no responsibility for any changes that may have occurred after this time. Compass Environmental has made no independent verification of this information and assumes no responsibility for any inaccuracies or omissions.

I trust this information assists. Please do not hesitate to call if you have any questions or require any further information or assistance.

For and on behalf of COMPASS ENVIRONMENTAL PTY LTD

Travis Germaine Environmental Engineer

Damon Scoffern Director Principal Environmental Scientist

ATTACHMENTS:

- Previous Reports.
- DSE General Practice Note.
- Ministerial Direction No. 1.
- Environmental Audit Overlay.



Attachment A



REPORT ON ENVIRONMENTAL SITE ASSESSMENT

250 TAYLORS ROAD DELAHEY

For Broadcast Australia Pty Ltd

PROJECT: 42662.00 18 February 2010



REPORT ON ENVIRONMENTAL SITE ASSESSMENT

250 TAYLORS ROAD DELAHEY

For

Broadcast Australia Pty Ltd

PROJECT: 42662.00 18 February 2010

Douglas Partners Pty Ltd ABN 75 053 980 117 P.O. Box 4155 68 Brighton Street Richmond VIC 3121 Australia Phone (03) 9428 1831 Fax: (03) 9428 7841 melbourne@douglaspartners.com.au





TABLE OF CONTENTS _____

Page No.

1.	INTRODUCTION1	l
2.	SCOPE OF WORK	2
3.	SITE IDENTIFICATION AND DESCRIPTION	3
	3.1 Site Identification	3
	3.2 Zoning	ł
	3.3 Site Inspection	ł
4.	REGIONAL GEOLOGY	5
5.	SITE HISTORY REVIEW	5
	5.1 Scope of Work	5
	5.2 Aerial Photographs	5
	5.3 Certificates of Title	3
	5.4 EPA Priority Site Register	7
	5.5 Potential for Contamination	7
6.	FIELD WORK METHODOLOGY	3
7.	FIELD WORK RESULTS)
8.	SITE ASSESSMENT CRITERIA)
	8.1 Soil Ecological Guidelines)
	8.2 Soil Health-Based Guidelines)
	8.3 Waste Classification Criteria 10)
9.	LABORATORY ANALYSIS AND RESULTS 12	2
	9.1 Laboratory Analysis Program	2
	9.2 Laboratory Analysis Results12	2
	9.2.1 Comparison to Ecological Investigation Levels	3
	9.2.2 Comparison to Human Health Based Investigation Levels	3
	9.2.3 Comparisons to Waste Classification Criteria	3
10.	QUALITY ASSURANCE/QUALITY CONTROL	3
11.	CONCLUSIONS AND RECOMMENDATIONS 14	ł
12.	LIMITATIONS	7
13.	REFERENCES 18	3

APPENDICES

Appendix A	Drawings and Photographs
Appendix B	Proposed Plan of Subdivision, Property Report and Site History Documents
Appendix C	Borehole Logs and Notes Relating to this Report
Appendix D	Tabulated Laboratory Analytical Results
Appendix E	NATA Certified Laboratory Reports
Appendix F	Quality Assurance / Quality Control



18 February 2010 Project : TD:ae/42662.00

REPORT ON ENVIRONMENTAL SITE ASSESSMENT 250 TAYLORS ROAD, DELAHEY

For Broadcast Australia Pty Ltd

1. INTRODUCTION

Douglas Partners Pty Ltd (DP) was engaged by Broadcast Australia Pty Ltd to conduct an Environmental Site Assessment (ESA) in connection with the proposed development of a 51 hectare parcel of land located at 250 Taylors Road, Delahey. The site is currently used for the purpose of transmitting AM radio services in the MF Band. To ensure the continued operation of the broadcast facility, that activity area is protected by virtue of Section 24 of the National Transmissions and Network Sale Act 1998 (Cth) (NTNS Act). The practical effect of the NTNS Act is that certain state regulatory laws, including laws that relate to the use of land, do not apply to the activity area while it is owned by Broadcast Australia. The Planning and Environment Act 1987 is a state regulatory law for the purpose of the NTNS Act. This report sets out a response to any requirements of the NTNS Act.

If it were not for the operation of the NTNS Act, the site would otherwise be administered by the Brimbank planning scheme. The Brimbank planning scheme currently depicts the site as being subject to an Environmental Audit Overlay (EAO). It is understood that an application will be made to rezone the site to allow likely future urban development (including residential). As part of the rezoning application it is understood that Broadcast Australia intends to submit this ESA report to support a request to remove the EAO.



The Department of Sustainability and Environment (DSE) published *Potentially Contaminated Land General Practice Note* in June 2005. The practice note provides guidance to planners and applicants on the level of environmental site assessment required for a planning scheme amendment or planning permit application. The practice note provides an assessment matrix for the level of assessment required taking into consideration the proposed land use and the potential for contamination based upon the current or previous land use. The assessment matrix indicates that for a site with low or medium potential for contamination, an environmental site assessment should be conducted by a suitably qualified environmental professional prior to redevelopment for residential use, and an environmental audit is only required when a site with high potential for contamination is redeveloped for residential use.

This assessment comprised a review of available site history information, and a limited soil sampling and analytical program targeting a range of potential contaminants. The objective of the assessment was to identify the potential for contamination at the site and make recommendations regarding the level of environmental assessment required prior to the likely future urban development (including residential) of the site by applying the assessment matrix provided in the DSE practice note.

2. SCOPE OF WORK

The Environmental Site Assessment was carried out in accordance with the scope of work outlined in DP's proposal, reference MEL090407 dated 11 December 2009, and comprised:

- A desktop site history review and site walkover inspection to identify the potential for contamination at the site.
- Set out of twenty-five (25) sample locations in a broad grid pattern across the site.
- Environmental drilling at each sample location using a solid flight auger drilling rig. The boreholes were drilled to a target depth of 0.5 m.
- At each sample location, the soil profile was logged and soil samples were generally collected at the site surface (0 - 0.1 m depth) and 0.5 m depth, or to suit the soil horizons encountered during drilling.
- Laboratory analysis of selected soil samples for a broad range of potential contaminants.

 Preparation of a factual report detailing the site history review and site conditions encountered during field work, interpretation and comparison of laboratory results to ecological investigation levels, human health based investigation levels for low density residential land use and EPA waste classification criteria.

It should be noted that the scope of work for this assessment comprised a preliminary site investigation in general accordance with Section 3 of Australian Standard AS 4482.1-2005 *Guide to the investigation and sampling of sites with potentially contaminated* and does not constitute a detailed site investigation as defined by Australian Standard AS 4482.1-2005.

The objective of the preliminary site investigation is to determine whether there has been potentially contaminating land use and to conduct limited sampling and laboratory analysis to produce evidence through an investigation to indicate whether a site is potentially contaminated and to determine whether a detailed site investigation should be conducted.

In addition, the scope of work conducted may not satisfy the requirements of EPA Publication IWRG702 *Soil Sampling* and EPA Publication IWRG621 *Soil Hazard Categorisation and Management*, the current industry guidelines for assessing soil prior to off-site disposal or reuse. Therefore, further testing is likely to be required to meet EPA requirements for off-site disposal of site soils, depending on volumes of soil generated during site development and building works.

3. SITE IDENTIFICATION AND DESCRIPTION

3.1 Site Identification

The site is located on the northern side of Taylors Road, Delahey as shown on Drawing 1, Appendix A. The site is described as Lots 2, 3, 4 and 5 on the proposed Plan of Subdivision PS611273G and comprises an irregular shaped parcel of land covering an area of approximately 51 hectares. A copy of the proposed plan of subdivision is provided in Appendix B. No development on these super lots is proposed by Broadcast Australia. It is anticipated that any future urban development will be subject to further subdivision to be undertaken by subsequent purchasers of the land.

The site is bounded by Taylors Road to the south, Kings Road to the west, and Sydenham Road and the Sydenham railway line to the east. The area to the north of the site comprises a large area (approximately 43 hectares) of mostly vacant land occupied by the Broadcast Australia Sydenham Transmitting Station and radio masts. The land to the north of the site is described as Lot 1 on the proposed Plan of Subdivision PS611273G.

The land described as Lot 1 on the proposed Plan of Subdivision PS611273G is excluded from the current assessment. It is not anticipated that the proposed Lot 1 will be used for future urban purposes.

3.2 Zoning

If it were not for the operation of the NTNS Act, the site would otherwise be administered by the Brimbank planning scheme. Online planning maps sourced from the Department of Planning and Community Development indicates that the Brimbank planning scheme currently depicts the site as being zoned Special Use Zone - Schedule 2 (SUZ2). The surrounding land to the north, east and west is zoned for residential use, while the land to the north of the site is part of the Special Use Zone - Schedule 2 (SUZ2). The Brimbank planning scheme currently depicts the site as being subject to an Environmental Audit Overlay (EAO). A copy of the planning property report for the site is provided in Appendix B.

3.3 Site Inspection

A site inspection was conducted by a DP Environmental Engineer on 13 January 2010. At the time of the inspection, the majority of the site comprised vacant grassed land. Photographs of the site are provided in Appendix A.

A business selling bricks, roof tiles and pavers was located in the south western corner of the site, on the north eastern corner of the Taylors Road and Kings Road intersection. A telecommunications tower and two small building associated with the tower were located within a fenced off area in the south eastern section of the site fronting Taylors Road.

Two areas of mature trees were present on the site, one within a fenced off area in the north eastern section of the site, the other in the vicinity of an empty dam located in the south eastern section of the site and to the north of the telecommunications tower.

No visual or olfactory evidence of potential contamination, such as imported fill material, spills, stains or odours, were observed during the site inspection.

The surrounding land use comprised residential properties to the east beyond the Sydenham railway line, residential properties and three large water storage tanks to the south beyond Taylors Road, a small shopping centre and residential properties to the west beyond Kings Road and vacant land occupied by the Broadcast Australia Sydenham Transmitting Station and radio masts to the north.



4. **REGIONAL GEOLOGY**

Reference to the Geological Survey of Victoria's 1:63,360 scale Sunbury sheet indicates the site surface geology to be Quaternary Age Newer Volcanics Basalt. The natural soil profile is generally characterised by a variable thickness of residual silt and clay overlying basalt floaters and bedrock. The natural soil profile encountered during the investigation was considered to be consistent with the geological setting.

5. SITE HISTORY REVIEW

5.1 Scope of Work

The site history review was carried out in general accordance with Section 3 of Australian Standards AS 4482.1-2005 *Guide to the investigation and sampling of sites with potentially contaminated soil*. The site history review was conducted utilising information from the following sources:

- Department of Sustainability and Environment, Land Information Centre, aerial photographs from 1951, 1960, 1970, 1982 and 1991.
- Google Earth Website, aerial photography from 2006.
- Certificate of Land Title Search.
- Victorian EPA Priority Site Register.
- Broadcast Australia website.

5.2 Aerial Photographs

Historical aerial photographs from 1951, 1960, 1970, 1982 and 1991 were obtained from the Department of Sustainability and Environment (DSE). Recent aerial photography from 2006 was obtained from the Google Earth website. Aerial photographs were reviewed to determine the likely past uses of the site. Copies of the aerial photographs are included in Appendix B.

Aerial photography from 1951 indicates that the site and surrounding area appears to comprise undeveloped land possibly used for grazing. The dam and area of trees observed in the south eastern section of the site during the site inspection were present in this photograph. A rural residence appears to be present in the south eastern section of the site, fronting Taylors Road and south of the dam. Taylors Road and the Sydenham Railway line were well established at this time. In addition, a radio mast and a small building were present within the vacant land to the north of the site.

Aerial photography from 1960 indicates very little change to the site and the surrounding area. The existing Broadcast Australia main administration building appears to be present to the north of the site, fronting Sydenham Road.

Aerial photography from 1970 indicates very little change to the site with the exception of the first signs of the area of trees observed in the north eastern section of the site during the site inspection. The former Melbourne and Metropolitan Board of Works (MMBW) water storage site had commenced operation with one large water tank visible to the south of the site beyond Taylors Road.

Aerial photography from 1982 indicates that the rural residence present in the south eastern section of the site appears to have been demolished. The remainder of the site appears to be relatively unchanged. Low density residential development is evident to the east of the site beyond the railway line and to the south of the site beyond Taylors Road. The MMBW site on the southern side of Taylors Road had expanded with the addition of a second large water storage tank.

Aerial photography from 1991 indicates very little change to the site. Low density residential development is well established to the east, south and west of the site. The MMBW site on the southern side of Taylors Road had expanded further with the addition of a third large water storage tank.

Aerial photography from 2006 indicates that the business selling bricks, roof tiles and pavers had been established in the south western corner of the site. The remainder of the site appears to be relatively unchanged. The main change to the surrounding area is the addition of Kings Road to the west of the site and construction of a new shopping centre to the west of the site on the north western corner of Taylors Road and Kings Road.

Based on the aerial photographs, it appears that the site has remained undeveloped and possibly used for pastoral/grazing purposes from at least 1951.

5.3 Certificates of Title

A historical land title search was conducted by CIMA Office Services. Determination of the ownership or occupancy of the property, including company names, can assist in the identification of previous land uses and therefore establish potentially contaminating activities.

The historical land title search indicates that prior to 1932 the site comprised crown land. On 18 March 1932 the site, and land to the north of the site, was granted to Margaret McAuley for use as a Farm Allotment. In 1937 it was determined that land granted to Margaret McAuley could be used to better advantage than for a Farm Allotment and the land was transferred to the Commonwealth of Australia on 21 August 1937.

The land was transferred to NTL Australia Pty Ltd (National Transmission Network) in 2000 prior to transfer to Broadcast Australia Pty Ltd when NTL Australia was re-branded as Broadcast Australia in 2002.

The site is currently described on Certificate of Title Volume 10758 Folio 746 and registered to Broadcast Australia Pty Ltd. Copies of the historical land title search documentation are provided in Appendix B.

5.4 EPA Priority Site Register

A search of the EPA Priority Site Register indicated that at the present time, the site is not present on the register and therefore neither a Clean Up Notice pursuant to Section 62A or a Pollution Abatement Notice pursuant to Section 31A or 31B of the Environment Protection Act 1970, has been issued. The relevant extract of the EPA Priority Site Register is provided in Appendix B.

5.5 **Potential for Contamination**

Based on the available site history information, the site and land to the north of the site, comprised crown land up until 1932 when a Farm Allotment was granted to Margaret McAuley. In 1937 the Commonwealth of Australia re-acquired the land and the government owned and operated National Transmission Network (NTN) commenced broadcasting from the land to the north of the site. The NTN was sold to National Transcommunications Limited (NTL) Australia in 1999 and was re-branded as Broadcast Australia in 2002. Broadcast Australia was still broadcasting from the land to the north of the site at the time of this assessment. From 1937 until 2010, the site has comprised vacant land adjacent to the broadcasting operational area. It is possible that the site was used for pastoral/grazing purposes during this period.

The potential for gross contamination at the site is considered to be very low. However, there is low potential for contamination from previous rural land uses, which could include the disturbance of the land and the placement of fill in isolated pockets, burial of animals or used farm equipment and materials and/or chemicals (pesticides and herbicides) and the application of the latter.



The potential sources/ contaminants identified during the site history review and site inspection are:

 Former agricultural activities: It is possible that agricultural activities were undertaken within the site in the 1800s and 1900s. Potential contaminants associated with agricultural activities include Organochlorine Pesticides (OCP) and heavy metals. Impacts associated with broad acre application of pesticides would typically be confined to the near surface horizon.

6. FIELD WORK METHODOLOGY

Field work was conducted on 14 January 2010 and comprised collection of soil samples from twenty-five (25) borehole locations, designated B1 to B25. The borehole co-ordinates were recorded by using a hand held GPS unit set to reference WGS84 horizontal datum and UTM zone 55 map grids, with an estimated accuracy of \pm 5 m. The approximate borehole locations are shown on Drawing 2, Appendix A.

The drilling was conducted by Horizon Drilling under the supervision of an experienced DP field engineer. The bores were drilled using solid flight auger drilling methods. At each borehole location, the soil profile was logged and soil samples were generally collected at the site surface (0-0.1 m) and 0.5 m depth, or to suit the soil horizons encountered during drilling. The borehole locations were positioned in a broad gird pattern across the site and are considered to provide general site coverage. No boreholes were drilled within the land occupied by the business selling bricks, roof tiles and pavers, located in the south western corner of the site.

Environmental sampling was performed according to the standard operating procedures outlined in the DP *Field Procedures Manual*. The general sampling procedure comprised:

- Collection of soil samples off the auger using disposable latex gloves (a new pair of gloves were used for each sample).
- Labelling laboratory prepared glass jar sample containers with individual and unique identification including project number, sampling date, borehole number and sample number.
- Placing samples into prepared glass jars and then into a cooled, insulated and sealed container.
- Decontaminating all sampling equipment using a 3% solution of phosphate free detergent and then rinsing with potable water prior to collection of each sample.
- Transportation of samples to the testing laboratory under chain of custody documentation.



7. FIELD WORK RESULTS

Detailed descriptions of the ground conditions encountered in the boreholes are presented on the borehole logs in Appendix C. These should be read in conjunction with *The Notes Relating to This Report*, also presented in Appendix C.

The subsurface conditions encountered in the investigation were consistent with the broad geological setting of the area. The subsurface conditions generally comprised a shallow layer of natural silt ranging from 0.02 m to 0.2 m depth, overlying natural high plasticity basalt-derived silty clay. No visual or olfactory evidence of potential contamination, including the presence of imported filling material, staining or odours were observed during the field work.

8. SITE ASSESSMENT CRITERIA

According to the approach detailed in the SEPP '*Prevention and Management of Contamination of Land*", results were compared to ecological and human health criteria to assess its suitability to remain onsite. A separate set of criteria (EPA Waste Classification) applies when soil is removed from the site.

8.1 Soil Ecological Guidelines

The NEPM presents Ecological Investigation Levels (EILs) which are based on protection of ecosystems. The EILs are conservative and used as a 'first pass' in the assessment of site contamination. In the absence of EILs, the ANZECC (1992) criteria have been adopted.

8.2 Soil Health-Based Guidelines

The National Environmental Health Forum (NEHF, 1996) have derived Human health based Investigation Levels (HILs) for exposure to chemicals in environmental media, and have been included as part of the NEPM. HILs have been set for various beneficial use scenarios including: low density residential, child care, primary schools (A), high density residential with minimal access to soil (D), recreational (E) and commercial/industrial (F). These criteria are applicable where aesthetic and ecological concerns are not of direct concern. As the likely future use of the site is for urban development, the HIL (A) were selected as the most appropriate human health investigation level. The levels of contaminants in the soil were therefore assessed against Site Assessment Criteria (SAC) adopted from the health based investigation levels for 'Standard' residential land use with garden/accessible soil (HIL A) as published by the NEPC (1999).

Where a criterion was not specified in the NEPM, such as total petroleum hydrocarbons (fractions $TPHC_6-C_9$ and $TPH>C_9$) and BTEX, the NSW EPA Guidelines for Assessing Service Station Sites have been adopted. The SAC and their source documents are detailed in Table D1, Appendix D.

Exceedences of the relevant HIL usually require that the risk posed by contamination is assessed and if necessary, some form of remediation or management be implemented.

8.3 Waste Classification Criteria

If soil is to be removed from a site it should be classified as waste material in accordance with the current EPA guidelines outlined in the EPA June 2009 Publication IWRG621, *Soil Hazard Categorisation and Management*, which is the current industry standard used to assess soil prior to offsite disposal. Under the guidelines, soil can be classified into one of four categories based on its relative hazard. From least to most contaminated, the categories are:

- Fill Material
- Category C Contaminated Soil
- Category B Contaminated Soil
- Category A Contaminated Soil.

i) Fill Material

This classification consists of soil (being clay, silt and sand), gravel and rock, all being naturally occurring materials. The total contaminant concentration must be below the total concentration TCO specified in Table 2 of EPA Publication IWRG621 otherwise the material must be classified as a prescribed waste (Contaminated soil).

Soil may contain naturally elevated levels of metals, such as arsenic, or other constituents. Where it can be demonstrated that the constituents of concern are naturally elevated, EPA does not consider these soils to be 'contaminated'. However, the deposit of Fill Material with naturally elevated constituents must still be managed to ensure that it will not adversely affect human health and the environment.

EPA has no restriction on where Fill Material may be disposed although councils may have other requirements. The deposit of Fill Material must not result in any off-site impact on surface or groundwaters. The industry refers to Fill Material as "clean fill". Fill material may contain contaminants above background levels and may not be suitable for all uses.

ii) Category C Contaminated Soil

Soil with total contaminant concentrations above the Fill Material upper limits specified in Table 2 of EPA Publication IWRG621, but not exceeding both the total contaminant TC1 and leachable concentration level ASLP1 specified in Table 2 of EPA Publication IWRG621. Category C contaminated soil can only be disposed off-site to select landfills licensed by EPA to accept Category C contaminated soil. Vehicles transporting Category C contaminated soil must have a current EPA Waste Transport Permit and an EPA Waste Transport Certificate must be completed for soil tracking purposes. All loads should be covered to prevent wind blown loss. Leaks or spills of contaminated material to the environment must be prevented.

iii) Category B Contaminated Soil

Soil with total contaminant concentrations and/or leachable concentrations above the Category C upper limits specified in Table 2 of EPA Publication IWRG621, but not exceeding both the total contaminant TC2 and leachable concentration level ASLP2 specified in Table 2 of EPA Publication IWRG621. Category B contaminated soil can only be disposed off site to select landfills licensed by EPA to accept Category B contaminated soil. There is currently only one landfill facility in Victoria licensed to accept Category B contaminated soil, SITA Aust Limited at Lyndhurst.

Vehicles transporting Category B contaminated soil must also have a current EPA Waste Transport Permit and a waste transport certificate for soil tracking purposes. All loads should be covered to prevent wind blown loss. Leaks or spills of contaminated material to the environment must be prevented.



iv) Category A Contaminated Soil

Soils with any contaminant concentration or leachable concentration above the highest value specified in EPA Publication IWRG621 are classified as Category A Contaminated Soils. Category A contaminated soil cannot be disposed off site to landfill without prior treatment. Commonly these soils are transported to a licensed facility for treatment prior to land filling.

9. LABORATORY ANALYSIS AND RESULTS

9.1 Laboratory Analysis Program

Laboratory analysis was conducted by Ecowise Environmental Pty Ltd (Ecowise) and MGT Environmental (MGT). Both laboratories are accredited with the National Association of Testing Authorities (NATA) for all analyses undertaken. All analyses were conducted within the holding times recommended by Standards Australia AS 4482.1-2005. Soil samples were selected for analysis based on field observations and tested for a range of potential contaminants as follows:

- Three (3) samples were analysed for a range of organic and inorganic analytes known as an EPA Table 2 Screen as set out in EPA Publication IWRG621 June 2009 Soil Hazard Categorisation and Management. This comprises metals (arsenic, cadmium, chromium (VI), copper, lead, mercury, molybdenum, nickel, tin, selenium, silver and zinc), total cyanide, total fluoride, speciated phenols (halogenated and non-halogenated), monocyclic aromatic hydrocarbons (including benzene, toluene, ethyl benzene and xylenes known as BTEX), polycyclic aromatic hydrocarbons (PAH), total petroleum hydrocarbons (TPH), polychlorinated biphenyls (PCB), chlorinated hydrocarbons (volatile and semi-volatile) and organochlorine pesticides (OCP).
- Twenty-two (22) samples were analysed for metals (arsenic, cadmium, chromium, copper, lead, mercury, molybdenum, nickel, tin, selenium, silver and zinc) and OCP.
- Two samples (one intra-laboratory duplicate and one inter-laboratory duplicate) were analysed for metals and OCP for QA/QC purposes.

9.2 Laboratory Analysis Results

Tabulated laboratory analysis results are provided in Tables D1 and D2, Appendix D. Copies of the NATA certified laboratory reports are provided in Appendix E.

9.2.1 Comparison to Ecological Investigation Levels

The laboratory analysis results were compared to the relevant Site Assessment Criteria (SAC) for protection of ecosystems. The reported concentrations of all analytes for all samples tested were below the adopted ecological investigation levels. Based upon the reported laboratory results, soil represented by the samples tested does not pose a risk to flora and fauna.

9.2.2 Comparison to Human Health Based Investigation Levels

The laboratory analysis results were compared to the relevant Site Assessment Criteria (SAC) for low density residential land use. The reported concentrations of all analytes for all samples tested were below the adopted SAC for low density residential land use. Based upon the reported laboratory results, soil represented by the samples tested does not pose a risk to human health for the likely future urban development of the site.

9.2.3 Comparisons to Waste Classification Criteria

Waste soil classification was conducted with respect to EPA Publication IWRG621 *Soil Hazard Categorisation and Management* to provide an indication of the likely waste classification of site soils if they are excavated and removed offsite. The reported concentrations of all analytes for all samples tested were below the Fill Material upper limits. Therefore, based upon the results of this assessment, site soils would be classified as Fill Material if removed off-site, noting that some additional testing may be required depending on volumes of soil generated during site development and building works.

10. QUALITY ASSURANCE/QUALITY CONTROL

Data quality objectives (DQO) were developed for the soil sampling undertaken to ensure the integrity and reproducibility of the tests and to provide a check on the potential for cross-contamination during the sampling process.

The procedures undertaken to achieve the DQO included deployment of trained personnel familiar with soil sampling techniques. Laboratory QA/QC was undertaken and fulfilled by the nominated laboratories, Ecowise and MGT. A list of the procedures used and other information on quality assurance (QA) and quality control (QC) is presented in Appendix F.

The accuracy and precision of the soil testing procedures, as inferred by the QA/QC data, is considered by DP to be of sufficient standard to allow the data reported by Ecowise and MGT to be used for interpretation of site contamination conditions.

11. CONCLUSIONS AND RECOMMENDATIONS

An Environmental Site Assessment has been conducted in connection with the proposed development of a 51 hectare parcel of land located at 250 Taylors Road, Delahey. It is understood that an application will be made to rezone the site to allow likely future urban development (including residential). As part of the rezoning application it is understood that Broadcast Australia intends to submit this ESA report to support a request to remove the Environmental Audit Overlay (EAO) present on the site.

The assessment comprised a review of available site history information, and a limited soil sampling and analytical program targeting a range of potential contaminants. The objective of the assessment was to identify the potential for contamination at the site and make recommendations regarding the level of environmental assessment required prior to the likely future urban development (including residential) of the site by applying the assessment matrix provided in the Department of Sustainability and Environment (DSE) June 2005 *Potentially Contaminated Land General Practice Note.*

At the time of the inspection, the majority of the site comprised vacant grassed land. A business selling bricks, roof tiles and pavers was located in the south western corner of the site, on the north eastern corner of Taylors Road and Kings Road. A telecommunications tower and two small building associated with the tower were located within a fenced off area in the south eastern section of the site fronting Taylors Road. No visual or olfactory evidence of potential contamination, such as imported fill material, spills, stains or odours, were observed during the site inspection.

Based on the available site history information, the site and land to the north of the site, comprised crown land up until 1932 when a Farm Allotment was granted to Margaret McAuley. In 1937 the Commonwealth of Australia re-acquired the land and the government owned and operated National Transmission Network (NTN) commenced broadcasting from the land to the north of the site. The NTN was sold to National Transcommunications Limited (NTL) Australia in 1999 and was re-branded as Broadcast Australia in 2002. Broadcast Australia was still broadcasting from the land to the north of the site at the time of this assessment. From 1937 until 2010, the site has comprised vacant land adjacent to the broadcasting operational area. It is possible that the site was used for grazing purposes during this period.

The potential for gross contamination at the site is considered to be very low. However, there is low potential for contamination from previous rural land uses, which could include the disturbance of the land and the placement of fill in isolated pockets, burial of animals or used farm equipment and materials and/or chemicals (pesticides and herbicides) and the application of the latter.

To assess the actual contamination status of soil at the site, soil samples were collected from twenty-five (25) borehole locations to a maximum depth of 0.5 m. The borehole locations were positioned in a general gird pattern across the site and are considered to provide general site coverage. The subsurface conditions generally comprised a shallow layer of natural silt ranging from 0.02 m to 0.2 m depth, overlying natural high plasticity basalt derived silty clay. No visual or olfactory evidence of potential contamination, including the presence of imported filling material, staining or odours were observed during the field work.

A total of twenty-five (25) soil samples were analysed for a range of potential contaminants. The reported concentrations of all analytes for all samples tested were below the adopted SAC for both protection of ecosystems and low density residential land use. Based upon the reported laboratory results, soil represented by the samples tested does not pose a risk to flora and fauna, nor human health for the likely future urban development (including residential) of the site.

Waste soil classification was conducted with respect to EPA Publication IWRG621 *Soil Hazard Categorisation and Management* to provide an indication of the likely waste classification of site soils if they are excavated and removed offsite. The reported concentrations of all analytes for all samples tested were below the Fill Material upper limits. Therefore, based upon the results of this assessment, site soils would be classified as Fill Material if removed off-site, noting that some additional testing may be required depending on volumes of soil generated during site development and building works.

The DSE practice note provides guidance to planners and applicants on the level of environmental site assessment required for a planning scheme amendment or planning permit application. The practice note provides an assessment matrix for the level of assessment required taking into consideration the proposed land use and the potential for contamination based upon the current or previous land use. The assessment matrix indicates that for a site with low or medium potential for contamination, an environmental site assessment should be conducted by a suitably qualified environmental professional prior to redevelopment for residential use, and an environmental audit is only required when a site with high potential for contamination is redeveloped for residential use.



Based upon the available site history data, the potential for gross contamination at the site is considered to be very low, which is supported by the sampling and laboratory analysis conducted for this assessment that indicates very low concentrations of contaminants well below the SAC for both protection of ecosystems and human health based investigation levels for low density residential land use. Therefore, in accordance with the DSE practice note, determination of the suitability for residential use of the site should be based upon an environmental site assessment, i.e. the assessment presented in this report, and development of the site for residential land use should not be subject to an environmental audit.

Ministerial Direction No.1 Potentially Contaminated Land requires a planning authority to satisfy itself that the environmental conditions of potentially contaminated land are or will be suitable for a sensitive land use (such as residential use) by way of the environmental audit process. However, in accordance with the Direction, potentially contaminated land is defined as land used or known to have been used for industry, mining or the storage of chemicals, gas, wastes or liquid fuel. The site is not considered to represent potentially contaminated land in accordance with Ministerial Direction No.1 and hence the requirement to implement the environmental audit process should not apply.

In addition, the DSE practice note indicates that a planning authority should remove an EAO if it determines that the land is not potentially contaminated. Based upon the results of this assessment, it is considered appropriate the EAO be removed (or not applied to the site as part of a future planning scheme amendment in light of the current effect of the NTNS Act), however the EAO should be retained for the land to the north of the site (Lot 1 on the proposed Plan of Subdivision PS PS611273G) subject to further assessment.

It should be noted that the scope of work for this assessment comprised a preliminary site investigation in general accordance with Section 3 of Australian Standard AS 4482.1-2005 *Guide to the investigation and sampling of sites with potentially contaminated* and does not constitute a detailed site investigation as defined by Australian Standard AS 4482.1-2005. The objective of the preliminary site investigation is to determine whether there has been potentially contaminating land use and to conduct limited sampling and laboratory analysis to produce evidence through an investigation to indicate whether a site is potentially contaminated and to determine whether a detailed site investigation should be conducted. Based upon the available site history data, and the results of the sampling and laboratory analysis conducted, a detailed site investigation is not considered necessary.



12. LIMITATIONS

Douglas Partners (DP) has prepared this report for this project at 250 Taylors Road, Delahey in accordance with DP's proposal dated 11 December 2009 and acceptance received from Gary Wallis dated 21 December 2009. The work was carried out under Broadcast Australia's Standard Consultancy Agreement, dated 6 January 2010. This report is provided for the exclusive use of Broadcast Australia Pty Ltd for the specific project and purpose as described in the report. It should not be used by or relied upon for other projects or purposes on the same or other site or by a third party.

The results provided in the report are considered to be indicative of the sub-surface conditions on the site only to the depths investigated at the specific sampling and/or testing locations, and only at the time the work was carried out. DP's advice may be based on observations, measurements, tests or derived interpretations. The accuracy of the advice provided by DP in this report is limited by unobserved features and variations in ground conditions across the site in areas between test locations and beyond the site boundaries or by variations with time. The advice may be limited by restrictions in the sampling and testing which was able to be carried out, as well as by the amount of data that could be collected given the project and site constraints. Actual ground conditions and materials behaviour observed or inferred at the test locations may differ from those which may be encountered elsewhere on the site. Should variations in subsurface conditions be encountered, then additional advice should be sought from DP and, if required, amendments made.

This report must be read in conjunction with the attached "Notes Relating to This Report" and any other attached explanatory notes and should be kept in its entirety without separation of individual pages or sections. DP cannot be held responsible for interpretations or conclusions from review by others of this report or test data, which are not otherwise supported by an expressed statement, interpretation, outcome or conclusion stated in this report. In preparing this report DP has necessarily relied upon information provided by the client and/or their agents.

Douglas Partners Pty Ltd

Tamie Qu

Tamie DickAssociate/Environmental Engineer

Reviewed by:

. My mald

Peter McDonald Principal



13. **REFERENCES**

- Australian and New Zealand Conservation Council (ANZECC) and National Health and Medical Research Council (NHMRC), January 1992: "Australian and New Zealand Guidelines for the Assessment and Management of Contaminated Sites".
- Department of Sustainability and Environment "Planning Schemes Online".
- Department of Sustainability and Environment (DSE), June 2005, "Potentially Contaminated Land General Practice Note".
- Environment Protection Authority of New South Wales (EPA NSW), 1994: "Guidelines for Assessing Service Station Sites".
- Geological Survey of Victoria 1:63,360 Scale Sunbury Map Sheet, 1973.
- Planning and Environment Act, 1987: Section 12 (2) (a) Ministerial Direction No. 1: Potentially Contaminated Land.
- National Environment Protection Council (NEPC), National Environmental Protection Measure (NEPM) for Assessment of Site Contamination, December, 1999.]
- Standards Australia, AS 4482.1-2005: "Guide to the investigation and sampling of sites with potentially contaminated soil. Part 1: Non-volatile and semi-volatile compounds".
- Victorian Government, June 2002 "State Environment Protection Policy (SEPP), Prevention and Management of Contamination of Land", Victoria Government Gazette, No. S95.

APPENDIX A

Drawings and Photographs











Photo 4 : View of the site looking west towards Kings Road.

Project : 42662.00



APPENDIX B

Proposed Plan of Subdivision, Property Report and Site History Documentation

	PLAN OF SUBD	VISION	STAGE No.	LRS USE ONLY EDITION	PLAN NUMBER PS 611273G
LOCATION OF LA PARISH: TOWNSHIP: SECTION: CROWN ALLOTMENT: CROWN PORTION: TITLE REFERENCES: LAST PLAN REFEREN POSTAL ADDRESS: (at time of subdivision) MGA CO-ORDINATES: (of approx. centre of pl	AND MARIBYRNONG B 25 (PART) VOL. 10758 FOL. 7 CE: TP12442M (LOT 2) 250 TAYLORS ROAL DELAHEY 3061 E: 304797 2 N: 5822784 ['46 D ZONE: 55 DATUM: GDA94	COUNCIL NAME 1. THIS 2. THIS DATE 3. THIS SUBE OPEN SPACE (i) A RE SUBE (ii) THE (iii) THE COUL COUL COUL	DUNCIL CERTIFICATION A E: BRIMBANK CITY COUNCIL PLAN IS CERTIFIED UNDER SECTION PLAN IS CERTIFIED UNDER SECTION PLAN IS CERTIFIED UNDER SECTION OF ORIGINAL CERTIFICATION UNIT IS A STATEMENT OF COMPLIANCE DIVISION ACT 1988. QUIREMENT FOR PUBLIC OPEN SP DIVISION ACT 1988 HAS / HAS NOT IN REQUIREMENT HAS BEEN SATISFIED NCIL DELEGATE NCIL SEAL E / / .	ND ENDORSEMENT REF: ON 6 OF THE SUBDIVISION ACT 1988. ON 11(7) OF THE SUBDIVISION ACT 1988. DER SECTION 6 / . ISSUED UNDER SECTION 21 OF THE PACE UNDER SECTION 18 OF THE BEEN MADE. ED. O IN STAGE
VESTIN	G OF ROADS OR RESERVES				
			COUL	NCIL DELEGATE	
	I		NOTATION	NS	
DEPTH LIMITATION D	DES NOT APPLY		STA	AGING THIS IS NOT Planning F	A STAGED SUBDIVISION PERMIT No.
NOTES: TANGENT P SURVEY: THIS PLAN I	OINTS ARE SHOWN THUS: — S BASED ON SURVEY	+~	THIS SURVEY H	AS BEEN CONNECTED TO PERMAN SURVEY AREA No.	NENT MARKS No(s). 1202, 1196.
	EASEN	IENT INFOF	RMATION		NOTATIONS
LEGEND: A - APPL	JRTENANT E - ENCUM		IENT R - ENG		ESTATE: STAGE: No. OF LOTS: 5
EASEMENT REFERENCE	PURPOSE	(METRES)	ORIGIN	OR IN FAVOUR OF	AREA: 95.064ha MEL: 13:H6
					LRS USE ONLY STATEMENT OF COMPLIANCE/ EXEMPTION STATEMENT RECEIVED DATE / /

		LRS USE ONLY PLAN REGISTERED TIME DATE / / ASSISTANT REGISTRAR OF TITLES SHEET 1 OF 3 SHEETS
Breese Pitt Dixon Pty Ltd 1/19 Cato Street Hawthorn East Vic 3123 Ph: 8823 2300 Fax: 8823 2310 www.bpd.com.au info@bpd.com.au	LICENSED SURVEYOR: SIMON P. COX SIGNATURE: DATE: 12/11/09 REF: 7800 VERSION: 5	DATE / / COUNCIL DELEGATE SIGNATURE
CHECKED DV DATE: 12/11/09		ORIGINAL SHEET SIZE A3




Department of Planning and Community Development

Planning Property Report

From www.dpcd.vic.gov.au/planning on 02 February 2010 10:08 AM

Address: 250 TAYLORS ROAD DELAHEY 3037 Lot and Plan Number: Lot 2 TP12442 Local Government (Council): BRIMBANK Council Property Number: 931303 Directory Reference: Melway 13 G8

Planning Zone

SPECIAL USE ZONE - SCHEDULE 2 (SUZ2) SCHEDULE TO THE SPECIAL USE ZONE - SCHEDULE 2



PUZS - Public Use - Cemetery / Crematorium
PUZS - Public Use - Local Government

UGZ - Urban Growth

Copyright © - State Government of Victoria Disclaimer: This content is provided for information purposes only. No claim is made as to the accuracy or authenticity of the content. The Victorian Government does not accept any liability to any person for the information provided. Read the full disclaimer at <u>www.land.vic.gov.au/disclaimer</u>



250-TAYLORS-ROAD-DELAHEY-PLANNING-PROPERTY-REPORT

FZ - Farming

GWAZ - Green Wedge A

GWZ - Green Wedge

Planning Overlays

ENVIRONMENTAL AUDIT OVERLAY (EAO) ENVIRONMENTAL AUDIT OVERLAY (EAO)



ENVIRONMENTAL SIGNIFICANCE OVERLAY (ESO) ENVIRONMENTAL SIGNIFICANCE OVERLAY - SCHEDULE 1 (ESO1)



Copyright © - State Government of Victoria

Disclaimer: This content is provided for information purposes only. No claim is made as to the accuracy or authenticity of the content. The Victorian Government does not accept any liability to any person for the information provided. Read the full disclaimer at <u>www.land.vic.gov.au/disclaimer</u>



250-TAYLORS-ROAD-DELAHEY-PLANWING-PROPERTY-REPORT

Planning Overlays

SPECIAL BUILDING OVERLAY (SBO) SPECIAL BUILDING OVERLAY SCHEDULE (SBO)



Note: due to overlaps some colours on the maps may not match those in the legend.

Further Planning Information

Planning scheme data last updated on 29 January 2010.

A planning scheme sets out policies and requirements for the use, development and protection of land. This report provides information about the zone and overlay provisions that apply to the selected land. Information about the State, local, particular and general provisions of the local planning scheme that may affect the use of this land can be obtained by contacting the <u>local council</u> or by visiting <u>Planning Schemes Online</u>

This report is NOT a **Planning Certificate** issued pursuant to Section 199 of the Planning & Environment Act 1987. It does not include information about exhibited planning scheme amendments, or zonings that may abut the land. To obtain a Planning Certificate go to <u>Titles and Property Certificates</u>

To view planning zones, overlay and heritage information in an interactive format visit. Planning Maps Online

For other information about planning in Victoria visit www.dpcd.vic.gov.au/planning

Copyright C - State Government of Victoria

Disclaimer: This content is provided for information purposes only. No claim is made as to the accuracy or authenticity of the content. The Victorian Government does not accept any liability to any person for the information provided. Read the full disclaimer at <u>www.land.vic.gov.au/disclaimer</u>





CLIENT: BROADCAST AUS	OFFICE: MELBOURNE		
DRAWN BY: TD	HEIGHT: 12,200 feet	PROJECT No: 42662.00	PHOTO NO: 134
RUN: 12			
APPROVED BY: TD		DATE: JANUARY 2010	





Sydney, Newcastle Brisbane, Melbourne, Perth, Darwin, Singleton, Campbelltown Townsvillle, Cairns Wollongong, Wyong

CLIENT: BROADCAST AUS	OFFICE: MELBOURNE		
DRAWN BY: TD	HEIGHT: 8,200 feet	PROJECT No: 42662.00	PHOTO NO: 72
RUN: 12	FILM: 1280	SCALE: 1:9,600	
APPROVED BY: TD		DATE: JANUARY 2010	





Sydney, Newcastle Brisbane, Melbourne, Perth, Darwin, Singleton, Campbelltown Townsvillle, Cairns Wollongong, Wyong

CLIENT: BROADCAST AUS	OFFICE: MELBOURNE		
DRAWN BY: TD	HEIGHT: 5,100 feet	PHOTO NO: 161	
RUN: 31	FILM: 2364	SCALE: 1:9,600	
APPROVED BY: TD		DATE: JANUARY 2010	





Sydney, Newcastle Brisbane, Melbourne, Perth, Darwin, Singleton, Campbelltown Townsvillle, Cairns Wollongong, Wyong

CLIENT: BROADCAST AUS	OFFICE: MELBOURNE		
DRAWN BY: TD	HEIGHT: 13,000 feet	PROJECT No: 42662.00	PHOTO NO: 201
RUN: 7	FILM: 3695	SCALE: 1:25,000	
APPROVED BY: TD		DATE: JANUARY 2010	





Extract of EPA Priority Site Register





**** Delivered by the LANDATA® System, Department of Sustainability and Environment ****

PROPERTY INQUIRY DETAILS:

STREET ADDRESS: 250 TAYLORS ROAD SUBURB: DELAHEY MUNICIPALITY: CITY OF BRIMBANK MAP REFERENCES: Melways 36th Edition, Street Directory, Map 13 Reference G6 Melways 36th Edition, Street Directory, Map 13 Reference H8 Melways 36th Edition, Street Directory, Map 13 Reference J7 Melways 36th Edition, Street Directory, Map 13 Reference J7 Melways 36th Edition, Street Directory, Map 13 Reference J8 Melways 36th Edition, Street Directory, Map 13 Reference G8 Melways 36th Edition, Street Directory, Map 13 Reference G7 Melways 36th Edition, Street Directory, Map 13 Reference G7 Melways 36th Edition, Street Directory, Map 13 Reference G7 Melways 36th Edition, Street Directory, Map 13 Reference G7 Melways 36th Edition, Street Directory, Map 13 Reference G7 Melways 36th Edition, Street Directory, Map 13 Reference G7 Melways 36th Edition, Street Directory, Map 13 Reference G7 Melways 36th Edition, Street Directory, Map 13 Reference G5 Melways 36th Edition, Street Directory, Map 13 Reference G4 Melways 36th Edition, Street Directory, Map 13 Reference G4 Melways 36th Edition, Street Directory, Map 13 Reference G4 Melways 36th Edition, Street Directory, Map 13 Reference G4 Melways 36th Edition, Street Directory, Map 13 Reference G4 Melways 36th Edition, Street Directory, Map 13 Reference G7

DATE OF SEARCH: 5th January 2010

PRIORITY SITES REGISTER REPORT:

A search of the Priority Sites Register for the above map references, corresponding to the address given above, has indicated that this site is not listed on, and is not in the vicinity of a site listed on the Priority Sites Register at the above date.

IMPORTANT INFORMATION ABOUT THE PRIORITY SITES REGISTER:

You should be aware that the Priority Sites Register lists only those sites for which EPA has requirements for active management of land and groundwater contamination. Appropriate clean up and management of these sites is an EPA priority, and as such, EPA has issued either a:

Clean Up Notice pursuant to section 62A, or a

Pollution Abatement Notice pursuant to section 31A or 31B of the Environment Protection Act 1970 on the occupier of the site to require active management of these sites.

The Priority Sites Register does not list all sites known to be contaminated in Victoria. A site should not be presumed to be free of contamination just because it does not appear on the Priority Sites Register.

Persons intending to enter into property transactions should be aware that many properties may have been contaminated by past land uses and EPA may not be aware of the presence of contamination. EPA has published information advising of potential contaminating land uses. Municipal planning authorities hold information about previous land uses, and it is advisable that such sources of information also be consulted.

For sites listed on the Priority Sites Register, a copy of the relevant Notice, detailing the reasons for issue of the Notice, and management requirements, is available on request from EPA for \$8 per Notice.

For more information relating to the Priority Sites Register, refer to EPA contaminated site information bulletin: Priority Sites Register & Contaminated

[Extract of Priority Sites Register] # 10017353 - 10017353083833
'42662.00'

Extract of EPA Priority Site Register



**** Delivered by the LANDATA® System, Department of Sustainability and Environment ****

Land Audit Site Listing (EPA Publication 735). For a copy of this publication, copies of relevant Notices, or for more information relating to sites listed on the Priority Sites Register, please contact EPA as given below:

EPA Information Centre Herald & Weekly Times Tower 40 City Road, Southbank 3006 Tel: (03)9695 2700 Fax:(03)9695 2710

[Extract of Priority Sites Register] # 10017353 - 10017353083833 '42662.00'



Copyright State of Victoria. This publication is copyright and includes confidential information. No part may be reproduced by any process except in accordance with the provisions of the Copyright Act or pursuant to a written agreement. The State of Victoria does not warrant the accuracy or completeness of the information in this publication and any person using or relying upon such information does so on the basis that the State of Victoria shall bear no responsibility or liability whatsoever for any errors, faults, defects or omissions in the information.

Description: Lot 2 of Plan TP12442M

SPI	Parish	Municipality
2\TP12442	Unknown	Unknown

Address:	Property Municipality:	Property Number:	
2-148 SYDENHAM ROAD, DELAHEY 3037	BRIMBANK	307983	
250 TAYLORS ROAD, DELAHEY 3037	BRIMBANK	931303	

Related Title(s)

Volume Folio:			
10533/210 (Cancelled)	View Title	10758/746	View Title

Related Owners Corporations:

No Owners Corporation could be located

View Plan

View Survey Reports

				Fee: \$5.66	
Home	Account:	25700		GST: \$0.56	06/01/2010 12:17PM
			MCOTE The Place To Be	Total: \$6.22	

Your reference: cima

©State Government of Victoria.

		*.•	Depar	tment of	
	State Covernment	<u>ک</u> ر	Sus	tainability	
•	Victor	18	and	Environment	

Product Report

Search Type Register

Number: 10021370

Customer Reference 25700

cima

Document Title 10758/746

Search Statement supplied and Plan to be supplied.

© State of Victoria. This publication is copyright. No part may be reproduced by any process except in accordance with the provisions of the Copyright Act and for the purposes of Section 32 of the Sale of Land Act 1962 or pursuant to a written agreement. The information is only valid at the time and in the form obtained from the LANDATA® System. The State of Victoria accepts no responsibility for any subsequent release, publication or reproduction of the information.

FINAL SEARCH STATEMENT

Land Victoria

Volume 10758 Folio 746

Security No : 124032302216Y Produced 06/01/2010 12:17 PM

ACTIVITY IN THE LAST 125 DAYS

NIL

STATEMENT END

NOTE

This statement details any dealing with the land being searched which has either been registered within the last 105 days or which remains unregistered other than a dealing affecting a Subdivision Act plan or strata or cluster subdivision a memorandum of which or a reference to which has been or is to be entered on the plan.

If the land is part of a Subdivision Act plan or strata or cluster subdivision the relevant plan should be inspected.

Incl GST:**\$0.00** Fee: \$8.95





REGISTER SEARCH STATEMENT (Title Search) Transfer of Land Act 1958

VOLUME 10758 FOLIO 746

Security no : 124032302214C Produced 06/01/2010 12:17 pm

LAND DESCRIPTION

Lot 2 on Title Plan 012442M. PARENT TITLE Volume 10533 Folio 210 Created by instrument AC378604R 02/10/2003

REGISTERED PROPRIETOR

Estate Fee Simple Sole Proprietor BROADCAST AUSTRALIA PTY LTD of LEVEL 3, 655 PACIFIC HIGHWAY ST LEONARDS NSW

2065 W601596F

W601596E 16/02/2000

ENCUMBRANCES, CAVEATS AND NOTICES

Any encumbrances created by Section 98 Transfer of Land Act 1958 or Section

24 Subdivision Act 1988 and any other encumbrances shown or entered on the plan set out under DIAGRAM LOCATION below.

DIAGRAM LOCATION

SEE TP012442M FOR FURTHER DETAILS AND BOUNDARIES

ACTIVITY IN THE LAST 125 DAYS

NIL

DOCUMENT END





	PLAN			EDITION	1	TP1;	2442M
Location of LandParish:MARIBYRNONGTownship:BSection:BCrown Allotment:25 (PART)					Nota	ations	
Crown Portion: LTO Base Record: DCMB Last Plan Reference: TP7724F (LOT 2) Title References: VOL. 10351 FOL. 934 Depth Limitation: NIL							
	Ea	sement Infe	ormation			THIS PLAN HAS	BEEN PREPARED
Easement Reference	Purpose / Authority	Width (Metres)	Orig	in Land bene In favou	fitted / ir of	FOR LAND TITLE DIAGRAM PURP	ES OFFICE TITLE OSES
					-	Date 2 27 Assistant Reg	1 99 istrar of Titles
					i		· ·
	SEE SHEET 2						
				•			
							·
LENGTH	S ARE IN MET	RES	SCALE	SHEET SIZ	E	FILE NO: V	699600W
© Victorian Lan	d Titles Office	Drawn By:		DEALING CO	ODE:		Sheet 1 of 2

		Бөр	art	ment of
	State Covernment	Su	S	tainability
•	Victoria	an	d	Environment

Product Report

Search Type Historical

Number: 10021372

\$

Customer **25700**

Reference cima Document
Title 10758/746

Historical Search Statement supplied.

© State of Victoria. This publication is copyright. No part may be reproduced by any process except in accordance with the provisions of the Copyright Act and for the purposes of Section 32 of the Sale of Land Act 1962 or pursuant to a written agreement. The information is only valid at the time and in the form obtained from the LANDATA® System. The State of Victoria accepts no responsibility for any subsequent release, publication or reproduction of the information.

Incl GST:**\$0.00** Fee: **\$6.20**





HISTORICAL SEARCH STATEMENT

Produced 06/01/2010 12:18 PM

Volume 10758 Folio 746 Folio Creation: Created as a computer folio Parent title Volume 10533 Folio 210





HISTORICAL SEARCH STATEMENT

RECORD OF ALTS DEALINGS

Date Lodged for Registration	Date Recorded on Register	Dealing	Imaged	Dealing Type and Details
RECORD OF VOTS D	EALINGS			
Date Lodged for Registration	Date Recorded on Register	Dealing	Imaged	
22/06/2006	23/06/2006	AE431138J	Y	
APPLICATION RE N NOTICE as to ROADS CORPOR ADDRESS FOR VICROADS PRO AE431138J 22	OTICE OF INTENTION part Section 10() ATION SERVICE OF NOTICE PERTY, ROADS CORPO /06/2006	N TO ACQUIRE LAND 1) Land Acquisitio S ORATION of 60 DEN	on and C MARK STR	ompensation Act 1986 EET KEW VIC 3101
31/07/2006	01/08/2006	AE513223N	Y	

CANCELLATION OF NOTICE OF INTENTION TO AQUIRE NOTICE AE431138J REMOVED

STATEMENT END





HISTORICAL SEARCH STATEMENT

VOTS Snapshot

Volume 10758 Folio 746 124007881043B Produced 21/10/2003 02:59 pm

LAND DESCRIPTION

Lot 2 on Title Plan 012442M. PARENT TITLE Volume 10533 Folio 210 Created by instrument AC378604R 02/10/2003

REGISTERED PROPRIETOR

Estate Fee Simple Sole Proprietor BROADCAST AUSTRALIA PTY LTD of LEVEL 3, 655 PACIFIC HIGHWAY ST LEONARDS NSW 2065 W601596E 16/02/2000

ENCUMBRANCES, CAVEATS AND NOTICES

Any encumbrances created by Section 98 Transfer of Land Act 1958 or Section 24 Subdivision Act 1988 and any other encumbrances shown or entered on the plan set out under DIAGRAM LOCATION below.

DIAGRAM LOCATION

SEE TP012442M FOR FURTHER DETAILS AND BOUNDARIES



State Covernment V Sustaina Victoria and Env	ability ironment		Page 1 of 1 Print Date: 6/1/2010
Number: 10021373	P	roduct Report	Time: 12:18
Search Type Historical	Customer 25700	Reference cima	Document Title 10533/210

Historical Search Statement supplied.

© State of Victoria. This publication is copyright. No part may be reproduced by any process except in accordance with the provisions of the Copyright Act and for the purposes of Section 32 of the Sale of Land Act 1962 or pursuant to a written agreement. The information is only valid at the time and in the form obtained from the LANDATA® System. The State of Victoria accepts no responsibility for any subsequent release, publication or reproduction of the information.

Incl GST:**\$0.00** Fee: **\$6.20**





HISTORICAL SEARCH STATEMENT

Produced 06/01/2010 12:18 PM

Volume 10533 Folio 210 Folio Creation: Details Unknown Parent title Volume 10425 Folio 452





HISTORICAL SEARCH STATEMENT

RECORD OF ALTS DEALINGS

Date Lodged for Registration	Date Recorded on Register	Dealing	Imaged	Dealing Type and Details
RECORD OF VOTS D	EALINGS			
Date Lodged for Registration	Date Recorded on Register	Dealing	Imaged	
02/10/2003	21/10/2003	AC378604R	Y	
Cancelled by AC378604R				

STATEMENT END





HISTORICAL SEARCH STATEMENT

VOTS Snapshot

Volume 10533 Folio 210 124007880830J Produced 21/10/2003 02:56 pm

LAND DESCRIPTION

Lot 2 on Title Plan 012442M. PARENT TITLE Volume 10425 Folio 452 Created by instrument W745474K 27/04/2000

REGISTERED PROPRIETOR

Estate Fee Simple Sole Proprietor NTL AUSTRALIA PTY LIMITED of LEVEL 5 BLUE BLDG. BENJAMIN OFFICES BENJAMIN WAY BELCONNEN ACT 2617 W601596E 16/02/2000

ENCUMBRANCES, CAVEATS AND NOTICES

Any encumbrances created by Section 98 Transfer of Land Act 1958 or Section 24 Subdivision Act 1988 and any other encumbrances shown or entered on the plan set out under DIAGRAM LOCATION below.

DIAGRAM LOCATION SEE TP012442M FOR FURTHER DETAILS AND BOUNDARIES



State Covernment Sustaina Victoria and Env	of ability ironment		Page 1 of 1 Print Date: 6/1/2010
Number: 10021375	Ρ	roduct Report	Time: 12:18
Search Type	Customer	Reference	Document
Historical	25700	cima	Title 10425/452

Historical Search Statement supplied.

© State of Victoria. This publication is copyright. No part may be reproduced by any process except in accordance with the provisions of the Copyright Act and for the purposes of Section 32 of the Sale of Land Act 1962 or pursuant to a written agreement. The information is only valid at the time and in the form obtained from the LANDATA® System. The State of Victoria accepts no responsibility for any subsequent release, publication or reproduction of the information.

.

Incl GST:**\$0.00** Fee: **\$6.20**



·3



HISTORICAL SEARCH STATEMENT

Produced 06/01/2010 12:19 PM

Volume 10425 Folio 452 Folio Creation: Created as paper folio continued as computer folio Parent title Volume 10351 Folio 934





HISTORICAL SEARCH STATEMENT

RECORD OF ALTS DEALINGS

Date Lodged for Registration	Date Recorded on Register	Dealing	Imaged	Dealing Type and Details
16/02/2000	07/04/2000	W601596E	У	TRANSFER NATIONAL TRANSMISSION COMPANY PTY LTD
16/02/2000	18/07/2000	W601596E	Y	TRANSFER NTL AUSTRALIA PTY LIMITED

RECORD OF VOTS DEALINGS

Date Lodged for	Date Recorded	Dealing	Imaged
Registration	on Register		

STATEMENT END



State Covernment Sustaina Victoria and Env	n bility ironment		Page 1 of 1 Print Date: 6/1/2010
Number: 10021379	Ρ	roduct Report	Time: 12:19
Search Type Historical	Customer 25700	Reference cima	Document Title 10351/934

Historical Search Statement supplied.

© State of Victoria. This publication is copyright. No part may be reproduced by any process except in accordance with the provisions of the Copyright Act and for the purposes of Section 32 of the Sale of Land Act 1962 or pursuant to a written agreement. The information is only valid at the time and in the form obtained from the LANDATA® System. The State of Victoria accepts no responsibility for any subsequent release, publication or reproduction of the information.

Incl GST:**\$0.00** Fee: **\$6.20**





HISTORICAL SEARCH STATEMENT

Produced 06/01/2010 12:19 PM

Volume 10351 Folio 934 Folio Creation: Created as a computer folio Parent title Volume 10344 Folio 018





HISTORICAL SEARCH STATEMENT

RECORD OF ALTS DEALINGS

Date Lodged for Registration	Date Recorded on Register	Dealing .	Imaged	Dealing Type and Details
19/10/1998	29/01/1999	TP012442M	Y	Cancelled by V699600W
19/10/1998	29/01/1999	TP012442M	Y	Partially Cancelled by V699600W

RECORD OF VOTS DEALINGS

Date Lodged for	Date Recorded	Dealing	Imaged
Registration	on Register		

STATEMENT END



		Dopart	ment of
	State Government	Sus	tainability
ų	Victoria	and	Environment

Product Report

Search Type Historical

Number: 10021384

Customer R 25700 ci

Reference **cima** Document Title 10344/018

Historical Search Statement supplied.

© State of Victoria. This publication is copyright. No part may be reproduced by any process except in accordance with the provisions of the Copyright Act and for the purposes of Section 32 of the Sale of Land Act 1962 or pursuant to a written agreement. The information is only valid at the time and in the form obtained from the LANDATA® System. The State of Victoria accepts no responsibility for any subsequent release, publication or reproduction of the information.

Incl GST:**\$0.00** Fee: **\$6.20**





HISTORICAL SEARCH STATEMENT

Produced 06/01/2010 12:20 PM

Volume 10344 Folio 018 Folio Creation: Created as a computer folio Parent title Volume 05662 Folio 274





HISTORICAL SEARCH STATEMENT

RECORD OF ALTS DEALINGS

Date Lodged for Registration	Date Recorded on Register	Dealing	Imaged	Dealing Type and Details
13/08/1997	22/10/1997	TP007724F	Y	Partially Cancelled by U925407X
13/08/1997	23/02/1999	U925407X .	Y	TRANSFER FULLY CANCELLED SEE VOLUME 10351 FOLIO 934

RECORD OF VOTS DEALINGS

Date Lodged for	Date Recorded	Dealing	Imaged
Registration	on Register		

STATEMENT END



0 • * * *	Department of
State Covernment	Sustainability
Victoria	and Environment

Product Report

Search Type Historical

Number: 10021387

Customer Reference 25700 cima

Document Title 5662/274

Historical Search Statement supplied. Imaged title to be supplied.

© State of Victoria. This publication is copyright. No part may be reproduced by any process except in accordance with the provisions of the Copyright Act and for the purposes of Section 32 of the Sale of Land Act 1962 or pursuant to a written agreement. The information is only valid at the time and in the form obtained from the LANDATA® System. The State of Victoria accepts no responsibility for any subsequent release, publication or reproduction of the information.

Incl GST:**\$0.00** Fee: **\$6.20**




© State of Victoria. This publication is copyright. No part may be reproduced by any process except in accordance with the provisions of the Copyright Act and for the purposes of Section 32 of the Sale of Land Act 1962 or pursuant to a written agreement. The information is only valid at the time and in the form obtained from the LANDATA® System. The State of Victoria accepts no responsibility for any subsequent release, publication or reproduction of the information.

HISTORICAL SEARCH STATEMENT

Produced 06/01/2010 12:20 PM

Volume 05662 Folio 274 Folio Creation: Created as paper folio continued as computer folio





© State of Victoria. This publication is copyright. No part may be reproduced by any process except in accordance with the provisions of the Copyright Act and for the purposes of Section 32 of the Sale of Land Act 1962 or pursuant to a written agreement. The information is only valid at the time and in the form obtained from the LANDATA® System. The State of Victoria accepts no responsibility for any subsequent release, publication or reproduction of the information.

HISTORICAL SEARCH STATEMENT

RECORD OF ALTS DEALINGS

Date Lodged for Registration	Date Recorded on Register	Dealing	Imaged	Dealing Type and Details
31/07/1997	29/08/1997	PS406791C	Y	Cancelled by U902608T

RECORD OF VOTS DEALINGS

Date Lodged for	Date Recorded	Dealing	Imaged
Registration	on Register		

STATEMENT END





5662/274, Page 1 of 4, Printed 12:20 06/01/2010, Search Enquiry 0021387, Customer 25700

FOLIS C As the Mary Elizabeth Maitchell H 0 t registered н fs A have numbered 675697 Transfer as to part no. 4902608 T 500 VOI 10244 TOI 017 being Road R-1 P3406791C K.B. cancelled as to balance -02 which is issued pursuant to Section 32 (2) act 6399 see Vol 10344 fol 018 La Ô SUPERSEDED FOLIO OF THE been fully converted t sistant Registrar of Tilles Lot one PSHOG791C Registered 31-7-97 Williams lie H registered RHE numbered 700510 CANCELLED Anta Assistant Registrar of The Commonwealth of Australia is Do. within described estate by (impressor of the un. Η Hartugust 1937 transfer registered on Z H and numbered 165714 Н E Assistant Registrar of Titles nder Section 162 of Act No. 3656 the Closer Settlement ----omnission under Seal has certified that the land comprised h the within Grown Grant can be used to better advantage--0 a Farm Allotment. REGISTER. a computer All restrictions and restraints other than those which may be inserted in a Grown Grant of a Selection Purchase---ildsment under the Land Act 1928 cease to have any ------peration or effect. Hee Correspondence No.37/21242. atant Regist 17th August 1937. the Commonwealth of Australia is now the proprietor of the within described estate by transfor registered on 2 August 1937 Щ 80 F0 F0 F0 F0 F0 μ and numbered 165 7141 0 t 0 X t enn Assistant Registrar of Title and TRANSFER AS TO PART No. R650193 D registered 21-11-91 С Ч CANCELLED AS TO PART See Vol. 10057 Fol. 777 agram TRANSFER AS TO PART No. 5.238789 G Н registered 26th November 1992. 0 Ŕ CANCELLE PART 'n 187 See Vol. 101021. 4 CR ĪΛ 1.518 hu. anen 的行





APPENDIX C

Borehole Logs Notes Relating to this Report

CLIENT: Broadcast Australia Pty Ltd PROJECT: Phase 1 & 2 Environmental Site Assessment LOCATION: 250 Taylors Road, Delahey

SURFACE LEVEL: --EASTING: 305384 NORTHING: 5822174 **DIP/AZIMUTH:** 90°/--

BORE No: B1 PROJECT No: 42662.00 DATE: 14 Jan 2010 SHEET 1 OF 1

		Description	Sampling & In Situ Testing			& In Situ Testing	_	Well		
RL	Depth (m)	of Strata	Graph Log	Type	Depth	Sample	Results & Comments	Wate	Constructio Details	n
		SILT (ML): Hard, pale brown, humid.		D	-0.0	B1-1				
	-				0.1				-	
	- 0.2	SILTY CLAY (CH): Hard, brown, damp to moist.							-	
	-								-	
	-				0.4	B1-2			-	
	- 0.5	Data discontinued at 0.5m	1/1/		-0.5-	01-2				
		Bore discontinued at 0.5m								
	-								-	
	-								-	
	-								-	
	-								-	
	- 1								- 1	
	-								-	
	-								-	
	_								-	
	-								-	
	_								-	
	-								-	
	_								_	
	-								-	

RIG: Custom 4WD TYPE OF BORING: Solid Flight Auger

DRILLER: Horizon Drilling

LOGGED: TD

CASING: NA

WATER OBSERVATIONS: No free groundwater observed REMARKS: Datum WGS 84, UTM Zone 55H

Auger sample Disturbed sample Bulk sample Tube sample (x mm dia.) Water sample Core drilling

A D B U W C

 SAMPLING & IN SITU TESTING LEGEND

 pp
 Pocket penetrometer (kPa)

 le
 PID
 Photo ionisation detector

 standard penetration test
 S
 Standard penetration test

 mm dia.)
 PL
 Point load strength Is(50) MPa

 V
 Shear Vane (kPa)
 P

 Water seep
 ¥
 Water level



CLIENT: Broadcast Australia Pty Ltd PROJECT: Phase 1 & 2 Environmental Site Assessment LOCATION: 250 Taylors Road, Delahey

SURFACE LEVEL: --EASTING: 305238 NORTHING: 5822175 DIP/AZIMUTH: 90°/--

BORE No: B2 PROJECT No: 42662.00 DATE: 14 Jan 2010 SHEET 1 OF 1

		Description	Sampling & In Situ			& In Situ Testing	Well			
RL	Depth (m)	of Strata	Graph Log	Type	Depth	Sample	Results & Comments	Wate	Constructio Details	'n
		SILT (ML): Hard, pale brown, humid.		D	-0.0	B2-1				
	-				0.1				-	
	- 0.2	SILTY CLAY (CH): Hard, brown, damp to moist.	1/1/						-	
	-								-	
	-				0.4				-	
	0.5			D	_0 5	B2-2				
	0.5	Bore discontinued at 0.5m			0.5					
	-								-	
	-								-	
	-								-	
	-								-	
	- 1								- 1	
	-								-	
									-	
	-								-	
	-								-	
	-								-	
	-								-	
	-								-	
	-								-	

RIG: Custom 4WD TYPE OF BORING: Solid Flight Auger

DRILLER: Horizon Drilling

LOGGED: TD

CASING: NA

WATER OBSERVATIONS: No free groundwater observed REMARKS: Datum WGS 84, UTM Zone 55H

Auger sample Disturbed sample Bulk sample Tube sample (x mm dia.) Water sample Core drilling

A D B U W C

 SAMPLING & IN SITU TESTING LEGEND

 pp
 Pocket penetrometer (kPa)

 le
 PID
 Photo ionisation detector

 standard penetration test
 S
 Standard penetration test

 mm dia.)
 PL
 Point load strength Is(50) MPa

 V
 Shear Vane (kPa)
 P

 Water seep
 ¥
 Water level

CHECKED Initials: Date



CLIENT: Broadcast Australia Pty Ltd PROJECT: Phase 1 & 2 Environmental Site Assessment LOCATION: 250 Taylors Road, Delahey

SURFACE LEVEL: --EASTING: 305103 NORTHING: 5822177 **DIP/AZIMUTH:** 90°/--

BORE No: B3 PROJECT No: 42662.00 DATE: 14 Jan 2010 SHEET 1 OF 1

Γ		Description	<u>.</u>		Sam	pling a	& In Situ Testing		Well	
R	Depth (m)	of Strata	Graph Log	Type	Depth	ample	Results & Comments	Wate	Constructior Details	ו
		SILT (ML): Hard, pale brown, humid.		D	0.0	B3-1				
	- 0.1	SILTY CLAY (CH): Hard, brown, damp to moist.			0.1				-	
	-				0.4				-	
				D	0.5	B3-2				
	- 0.5	Bore discontinued at 0.5m			-0.5-				- 1	

RIG: Custom 4WD

DRILLER: Horizon Drilling

LOGGED: TD

CASING: NA

WATER OBSERVATIONS: No free groundwater observed REMARKS: Datum WGS 84, UTM Zone 55H

 SAMPLING & IN SITU TESTING LEGEND

 pp
 Pocket penetrometer (kPa)

 le
 PID
 Photo ionisation detector

 standard penetration test
 S
 Standard penetration test

 mm dia.)
 PL
 Point load strength Is(50) MPa

 V
 Shear Vane (kPa)
 P

 Water seep
 ¥
 Water level

Auger sample Disturbed sample Bulk sample Tube sample (x mm dia.) Water sample Core drilling

TYPE OF BORING: Solid Flight Auger

A D B U W C



CLIENT: Broadcast Australia Pty Ltd PROJECT: Phase 1 & 2 Environmental Site Assessment LOCATION: 250 Taylors Road, Delahey

SURFACE LEVEL: --EASTING: 304964 NORTHING: 5822180 DIP/AZIMUTH: 90°/--

BORE No: B4 PROJECT No: 42662.00 DATE: 14 Jan 2010 SHEET 1 OF 1

Γ		Description	. <u>ಲ</u>		Sam	npling a	& In Situ Testing		Well	
a	Depth (m)	of Strata	Graphi Log	Type	Depth	Sample	Results & Comments	Water	Constructio Details	n
		SILT (ML): Hard, pale brown, humid.		D	-0.0	B4-1				
	- 0.1	SILTY CLAY (CH): Hard, brown, moist.			0.1				-	
	-			D	0.4	B4-2			-	
	- 0.5	Bore discontinued at 0.5m			-0.5-					

RIG: Custom 4WD

DRILLER: Horizon Drilling

LOGGED: TD

CASING: NA

WATER OBSERVATIONS: No free groundwater observed REMARKS: Datum WGS 84, UTM Zone 55H

Auger sample Disturbed sample Bulk sample Tube sample (x mm dia.) Water sample Core drilling

TYPE OF BORING: Solid Flight Auger

A D B U W C

 SAMPLING & IN SITU TESTING LEGEND

 pp
 Pocket penetrometer (kPa)

 le
 PID
 Photo ionisation detector

 standard penetration test
 S
 Standard penetration test

 mm dia.)
 PL
 Point load strength Is(50) MPa

 V
 Shear Vane (kPa)
 P

 Water seep
 ¥
 Water level



CLIENT: Broadcast Australia Pty Ltd PROJECT: Phase 1 & 2 Environmental Site Assessment LOCATION: 250 Taylors Road, Delahey

SURFACE LEVEL: --EASTING: 304824 NORTHING: 5822182 DIP/AZIMUTH: 90°/--

BORE No: B5 PROJECT No: 42662.00 DATE: 14 Jan 2010 SHEET 1 OF 1

Γ		Description	<u>.</u>		Sam	npling &	& In Situ Testing		Well	
R	Depth (m)	of	braph Log	/pe	spth	nple	Results &	Wate	Construction	
		Strata		Ê	_ 	Sar	Comments		Details	
	0.0	SILT (ML): Hard, pale brown, humid.	ЦЦ	D	0.05	B5-1				
	-	SILTY CLAY (CH): Hard, brown, moist.		1					-	
	-		1/1						-	
]						
	-			1					-	
			1/1							
	-				0.4				-	
				D		B5-2				
	- 0.	5 Bore discontinued at 0.5m			-0.5-					
									-	
	_								-	
	-								-	
	-								-	
	-1								-1	
	-								-	
	_								-	
	-								-	
	-								-	
	-								-	
	ľ									
									-	
L										

RIG: Custom 4WD

DRILLER: Horizon Drilling

LOGGED: TD

CASING: NA

WATER OBSERVATIONS: No free groundwater observed REMARKS: Datum WGS 84, UTM Zone 55H

 SAMPLING & IN SITU TESTING LEGEND

 pp
 Pocket penetrometer (kPa)

 le
 PID
 Photo ionisation detector

 standard penetration test
 S
 Standard penetration test

 mm dia.)
 PL
 Point load strength Is(50) MPa

 V
 Shear Vane (kPa)
 P

 Water seep
 ¥
 Water level

Auger sample Disturbed sample Bulk sample Tube sample (x mm dia.) Water sample Core drilling

TYPE OF BORING: Solid Flight Auger

A D B U W C



CLIENT: Broadcast Australia Pty Ltd PROJECT: Phase 1 & 2 Environmental Site Assessment LOCATION: 250 Taylors Road, Delahey

SURFACE LEVEL: --EASTING: 304684 NORTHING: 5822185 DIP/AZIMUTH: 90°/--

BORE No: B6 PROJECT No: 42662.00 DATE: 14 Jan 2010 SHEET 1 OF 1

		Description	. <u>0</u>		Sam	pling 8	& In Situ Testing	L	Well	
RL	Depth (m)	of	iraph Log	/be	spth	nple	Results &	Wate	Constructio	n
		Strata		Ѓ		Sar	Comments		Details	
	0.05	SILT (ML): Hard, pale brown, humid.		D	0.05	B6-1				
	-	SILTY CLAY (CH): Hard, brown, moist.							-	
	-				0.4				-	
				D		B6-2				
	- 0.55	Basalt boulder at 0.5 m depth.			0.5				-	
	0.55 - - - - - - -	Bore discontinued at 0.55m. Auger refusal on basalt boulder/rock.							- 1	

RIG: Custom 4WD

DRILLER: Horizon Drilling

LOGGED: TD

CASING: NA

WATER OBSERVATIONS: No free groundwater observed REMARKS: Datum WGS 84, UTM Zone 55H

 SAMPLING & IN SITU TESTING LEGEND

 pp
 Pocket penetrometer (kPa)

 le
 PID
 Photo ionisation detector

 standard penetration test
 S
 Standard penetration test

 mm dia.)
 PL
 Point load strength Is(50) MPa

 V
 Shear Vane (kPa)
 P

 Water seep
 ¥
 Water level

Auger sample Disturbed sample Bulk sample Tube sample (x mm dia.) Water sample Core drilling

TYPE OF BORING: Solid Flight Auger

A D B U W C



CLIENT: Broadcast Australia Pty Ltd PROJECT: Phase 1 & 2 Environmental Site Assessment LOCATION: 250 Taylors Road, Delahey

SURFACE LEVEL: --EASTING: 304540 NORTHING: 5822326 DIP/AZIMUTH: 90°/--

BORE No: B7 PROJECT No: 42662.00 DATE: 14 Jan 2010 SHEET 1 OF 1

Γ		Description	. <u>u</u>		Sam	pling a	& In Situ Testing		Well	
RL	Depth (m)	of Strata	Graphi Log	Type	Depth	Sample	Results & Comments	Water	Construction Details	
		SILT (ML): Hard, grey, humid.		D	-0.0	B7-1				
	- 0.1	SILTY CLAY (CH): Hard, brown, damp to moist.			0.1					
				D	0.4	B7-2				
	- 0.5	Bore discontinued at 0.5m			-0.5-					

RIG: Custom 4WD

DRILLER: Horizon Drilling

LOGGED: TD

CASING: NA

WATER OBSERVATIONS: No free groundwater observed REMARKS: Datum WGS 84, UTM Zone 55H

Auger sample Disturbed sample Bulk sample Tube sample (x mm dia.) Water sample Core drilling

TYPE OF BORING: Solid Flight Auger

A D B U W C

 SAMPLING & IN SITU TESTING LEGEND

 pp
 Pocket penetrometer (kPa)

 le
 PID
 Photo ionisation detector

 standard penetration test
 S
 Standard penetration test

 mm dia.)
 PL
 Point load strength Is(50) MPa

 V
 Shear Vane (kPa)
 P

 Water seep
 ¥
 Water level



Date

CLIENT: Broadcast Australia Pty Ltd PROJECT: Phase 1 & 2 Environmental Site Assessment LOCATION: 250 Taylors Road, Delahey

SURFACE LEVEL: --EASTING: 304680 NORTHING: 5822320 DIP/AZIMUTH: 90°/--

BORE No: B8 PROJECT No: 42662.00 DATE: 14 Jan 2010 SHEET 1 OF 1

		Description	<u>.0</u>		Sam	npling a	& In Situ Testing		Well	
RL	Depth (m)	of	raph Log	be	pth	ple	Results &	Nate	Constructio	n
		Strata	0	L P	ے م	San	Comments		Details	
		SILT (ML): Hard, pale brown, humid.		р	0.0	B8-1				
	- 0.4		ЦЦ		0.1				-	
		SILTY CLAY (CH): Hard, brown, moist to damp.								
	-		1/1/	1					-	
]						
	-								-	
				{						
	-				0.4				-	
		Some calcareous silt and sand below 0.4 m depth.	1/1/	D		B8-2				
	- 0.5			1	-0.5-					
		Bore discontinued at 0.5m								
	-								-	
	-								-	
	-								-	
	-								-	
	-1								- 1	
	-								-	
	-								-	
	-								_	
	-								-	
	-								-	
	-								-	
	ŀ								-	
	ŀ									
	ŀ								†	

RIG: Custom 4WD

DRILLER: Horizon Drilling

LOGGED: TD

CASING: NA

WATER OBSERVATIONS: No free groundwater observed REMARKS: Datum WGS 84, UTM Zone 55H

Auger sample Disturbed sample Bulk sample Tube sample (x mm dia.) Water sample Core drilling

TYPE OF BORING: Solid Flight Auger

A D B U W C

 SAMPLING & IN SITU TESTING LEGEND

 pp
 Pocket penetrometer (kPa)

 le
 PID
 Photo ionisation detector

 standard penetration test
 S
 Standard penetration test

 mm dia.)
 PL
 Point load strength Is(50) MPa

 V
 Shear Vane (kPa)
 P

 Water seep
 ¥
 Water level



CLIENT: Broadcast Australia Pty Ltd PROJECT: Phase 1 & 2 Environmental Site Assessment LOCATION: 250 Taylors Road, Delahey

SURFACE LEVEL: --EASTING: 304820 NORTHING: 5822320 DIP/AZIMUTH: 90°/--

BORE No: B9 PROJECT No: 42662.00 DATE: 14 Jan 2010 SHEET 1 OF 1

		Description	Ŀ		Sam	npling &	& In Situ Testing		Well	
RL	Depth (m)	of	Log	be	pth	nple	Results &	Wate	Constructio	n
		Strata	0	Тy		San	Comments		Details	
	0.0	SILT (ML): Hard, pale brown, humid.		D	0.05	B9-1				
	-	SILTY CLAY (CH): Hard, brown, damp to moist.							-	
	F		11						-	
	-								-	
			1/1							
	-	Grey below 0.4 m depth.			0.4				-	
				D		B9-2				
	- 0.9	Bore discontinued at 0.5m			-0.5-					
	-								-	
	-								-	
	-								-	
	-1								- 1	
	-								-	
	-								-	
	-								-	
	-								-	
	-								-	
	ŀ								-	
	[
	ļ								-	

RIG: Custom 4WD

A D B U W C

DRILLER: Horizon Drilling

LOGGED: TD

CASING: NA

WATER OBSERVATIONS: No free groundwater observed REMARKS: Datum WGS 84, UTM Zone 55H

 SAMPLING & IN SITU TESTING LEGEND

 pp
 Pocket penetrometer (kPa)

 le
 PID
 Photo ionisation detector

 standard penetration test
 S
 Standard penetration test

 mm dia.)
 PL
 Point load strength Is(50) MPa

 V
 Shear Vane (kPa)
 P

 Water seep
 ¥
 Water level
 Auger sample Disturbed sample Bulk sample Tube sample (x mm dia.) Water sample Core drilling

TYPE OF BORING: Solid Flight Auger

CHECKED Initials: Date



CLIENT: Broadcast Australia Pty Ltd PROJECT: Phase 1 & 2 Environmental Site Assessment LOCATION: 250 Taylors Road, Delahey

SURFACE LEVEL: --EASTING: 304960 NORTHING: 5822317 **DIP/AZIMUTH:** 90°/--

BORE No: B10 PROJECT No: 42662.00 DATE: 14 Jan 2010 SHEET 1 OF 1

		Description	.cj		Sam	pling &	& In Situ Testing	-	Well	
RL	Deptr	of	iraph Log	/pe	spth	nple	Results &	Wate	Construction	
		Strata		ŕ		Sar	Comments		Details	
	0.0	SILT (ML): Hard, pale brown, humid.	ЦŲ	D	0.05	B10-1				
	-	SILTY CLAY (CH): Hard, brown, damp to moist.							-	
	F								-	
	-								-	
			1/1/							
	ſ			_	0.4				-	
		-		D	0.5	B10-2				
	0	Bore discontinued at 0.5m			-0.5-					
	_								_	
	-								-	
	F								-	
	-								-	
	- 1								- 1	
	Ī								-	
									_	
	-								-	
	-								-	
	F								-	
	-								-	
	ľ									
	[

RIG: Custom 4WD

DRILLER: Horizon Drilling

LOGGED: TD

CASING: NA

WATER OBSERVATIONS: No free groundwater observed REMARKS: Datum WGS 84, UTM Zone 55H

Auger sample Disturbed sample Bulk sample Tube sample (x mm dia.) Water sample Core drilling

TYPE OF BORING: Solid Flight Auger

A D B U W C

 SAMPLING & IN SITU TESTING LEGEND

 pp
 Pocket penetrometer (kPa)

 le
 PID
 Photo ionisation detector

 standard penetration test
 S
 Standard penetration test

 mm dia.)
 PL
 Point load strength Is(50) MPa

 V
 Shear Vane (kPa)
 P

 Water seep
 ¥
 Water level





CLIENT: Broadcast Australia Pty Ltd PROJECT: Phase 1 & 2 Environmental Site Assessment LOCATION: 250 Taylors Road, Delahey

SURFACE LEVEL: --EASTING: 305098 NORTHING: 5822315 DIP/AZIMUTH: 90°/--

BORE No: B11 PROJECT No: 42662.00 DATE: 14 Jan 2010 SHEET 1 OF 1

		Description	. <u>e</u>		Sam	pling &	& In Situ Testing		Well
RL	Depth (m)	of	Log	be	pth	nple	Results &	Wate	Construction
		Strata	0	Ţ	De	San	Comments		Details
	0.0	SILT (ML): Hard, pale brown, humid.	ЦĻ	D	0.05	B11-1			
	-	SILTY CLAY (CH): Hard, brown, damp to moist.							-
	-	Grey and brown below 0.4 m depth.		D	0.4	B11-2			-
	- 0.	5 Bore discontinued at 0.5m			-0.5-				
	- 1								

RIG: Custom 4WD

DRILLER: Horizon Drilling

LOGGED: TD

CASING: NA

WATER OBSERVATIONS: No free groundwater observed REMARKS: Datum WGS 84, UTM Zone 55H

Auger sample Disturbed sample Bulk sample Tube sample (x mm dia.) Water sample Core drilling

TYPE OF BORING: Solid Flight Auger

A D B U W C

 SAMPLING & IN SITU TESTING LEGEND

 pp
 Pocket penetrometer (kPa)

 le
 PID
 Photo ionisation detector

 standard penetration test
 S
 Standard penetration test

 mm dia.)
 PL
 Point load strength Is(50) MPa

 V
 Shear Vane (kPa)
 P

 Water seep
 ¥
 Water level



CLIENT: Broadcast Australia Pty Ltd PROJECT: Phase 1 & 2 Environmental Site Assessment LOCATION: 250 Taylors Road, Delahey

SURFACE LEVEL: --EASTING: 305240 NORTHING: 5822312 DIP/AZIMUTH: 90°/--

BORE No: B12 PROJECT No: 42662.00 DATE: 14 Jan 2010 SHEET 1 OF 1

		Description	. <u>c</u>		Sam	pling &	& In Situ Testing		Well	
RL	Depth (m)	of	iraph Log	/pe	pth	nple	Results &	Wate	Construction	
		Strata		LÊ		Sar	Comments		Details	
	0.02	SILT (ML): Hard, pale brown, humid.			0.02	<u>,B12-1</u> ,				
	-	SILLY CLAY (CH): Hard, brown, damp to moist.							-	
	-								-	
				1						
	-								-	
	-	Some calcareous silt and sand below 0.4 m depth.			0.4				-	
				D	0.5	B12-2				
	0.5	Bore discontinued at 0.5m			-0.5-					
	-								-	
	-								-	
	-								-	
	-								-	
	1								1	
	[
	-								-	
	-								-	
	-								-	
	-								-	
	-								-	
	_								-	
	-								-	
	ŀ								-	
	ŀ									

RIG: Custom 4WD

DRILLER: Horizon Drilling

LOGGED: TD

CASING: NA

WATER OBSERVATIONS: No free groundwater observed REMARKS: Datum WGS 84, UTM Zone 55H

Auger sample Disturbed sample Bulk sample Tube sample (x mm dia.) Water sample Core drilling

TYPE OF BORING: Solid Flight Auger

A D B U W C

 SAMPLING & IN SITU TESTING LEGEND

 pp
 Pocket penetrometer (kPa)

 le
 PID
 Photo ionisation detector

 standard penetration test
 S
 Standard penetration test

 mm dia.)
 PL
 Point load strength Is(50) MPa

 V
 Shear Vane (kPa)
 P

 Water seep
 ¥
 Water level



CLIENT: Broadcast Australia Pty Ltd PROJECT: Phase 1 & 2 Environmental Site Assessment LOCATION: 250 Taylors Road, Delahey

SURFACE LEVEL: --EASTING: 305363 NORTHING: 5822308 **DIP/AZIMUTH:** 90°/--

BORE No: B13 PROJECT No: 42662.00 DATE: 14 Jan 2010 SHEET 1 OF 1

Γ		Description	.e		Sam	pling a	& In Situ Testing	-	Well	
ā	Depth (m)	of Strata	Graph Log	Type	Depth	ample	Results & Comments	Wate	Constructio Details	n
\vdash	0.0	SILT (ML): Hard, pale grev brown, humid.			-0.0-	В13-1				
	-	SILTY CLAY (CH): Hard, brown, damp to moist.			0.02				-	
	-			D	0.4	B13-2			-	
	- 0.	Bore discontinued at 0.5m	<u> </u>		-0.5-					
	- 1								- 1	

RIG: Custom 4WD

A D B U W C

DRILLER: Horizon Drilling

LOGGED: TD

CASING: NA

WATER OBSERVATIONS: No free groundwater observed REMARKS: Datum WGS 84, UTM Zone 55H

 SAMPLING & IN SITU TESTING LEGEND

 pp
 Pocket penetrometer (kPa)

 le
 PID
 Photo ionisation detector

 standard penetration test
 S
 Standard penetration test

 mm dia.)
 PL
 Point load strength Is(50) MPa

 V
 Shear Vane (kPa)
 P

 Water seep
 ¥
 Water level
 Auger sample Disturbed sample Bulk sample Tube sample (x mm dia.) Water sample Core drilling

TYPE OF BORING: Solid Flight Auger



CLIENT: Broadcast Australia Pty Ltd PROJECT: Phase 1 & 2 Environmental Site Assessment LOCATION: 250 Taylors Road, Delahey

SURFACE LEVEL: --EASTING: 305309 NORTHING: 5822452 DIP/AZIMUTH: 90°/--

BORE No: B14 PROJECT No: 42662.00 DATE: 14 Jan 2010 SHEET 1 OF 1

		Description	Li		Sam	pling &	& In Situ Testing	_	Well
RL	Depth	of	raph Log	be	pth	nple	Results &	Wate	Construction
		Strata	0	Ţ	ے م	San	Comments		Details
	0.0	SILT (ML): Hard, pale grey brown, humid.		D	0.0	B14-1			
		SILTY CLAY (CH): Hard, brown, damp to moist.			0.00				-
	-								-
	-	Grey brown and orange brown below 0.3 m depth.							-
					0.4				
				D	0.4	B14-2			-
	- 0.	5			-0.5-				
		Bore discontinued at 0.5m							
	-								-
	-								-
									-
	-								-
	- 1								-1
									-
	-								-
	-								-
	-								-
	-								-
	-								-
	-								
	-								

RIG: Custom 4WD

DRILLER: Horizon Drilling

LOGGED: TD

CASING: NA

WATER OBSERVATIONS: No free groundwater observed REMARKS: Datum WGS 84, UTM Zone 55H

Auger sample Disturbed sample Bulk sample Tube sample (x mm dia.) Water sample Core drilling

TYPE OF BORING: Solid Flight Auger

A D B U W C

 SAMPLING & IN SITU TESTING LEGEND

 pp
 Pocket penetrometer (kPa)

 le
 PID
 Photo ionisation detector

 standard penetration test
 S
 Standard penetration test

 mm dia.)
 PL
 Point load strength Is(50) MPa

 V
 Shear Vane (kPa)
 P

 Water seep
 ¥
 Water level



CLIENT: Broadcast Australia Pty Ltd PROJECT: Phase 1 & 2 Environmental Site Assessment LOCATION: 250 Taylors Road, Delahey

SURFACE LEVEL: --EASTING: 305200 NORTHING: 5822455 DIP/AZIMUTH: 90°/--

BORE No: B15 PROJECT No: 42662.00 DATE: 14 Jan 2010 SHEET 1 OF 1

		Description	ic		Sam	npling &	& In Situ Testing	-	Well	
R	Depth (m)	of	iraph Log	/pe	spth	nple	Results &	Wate	Construction	
		Strata		ŕ		Sar	Comments		Details	
		SILT (ML): Hard, pale brown, humid.		D	0.0	B15-1, DUP1, DUP2				
	- 0.1	SILTY CLAY (CH): Hard, brown, damp to moist.	1/1		0.1				-	
									_	
	-								-	
			11							
	-				0.4				-	
				D		B15-2				
	- 0.5	Bore discontinued at 0.5m			-0.5-					
	-								-	
	F								-	
	-								-	
	-1								-1	
	-								-	
									-	
	-								-	
									_	
	-								-	
	-								-	
	ŀ									
	ļ									
	ŀ								.	

RIG: Custom 4WD TYPE OF BORING: Solid Flight Auger

DRILLER: Horizon Drilling

LOGGED: TD

CASING: NA

WATER OBSERVATIONS: No free groundwater observed REMARKS: Datum WGS 84, UTM Zone 55H

 SAMPLING & IN SITU TESTING LEGEND

 pp
 Pocket penetrometer (kPa)

 le
 PID
 Photo ionisation detector

 standard penetration test
 S
 Standard penetration test

 mm dia.)
 PL
 Point load strength Is(50) MPa

 V
 Shear Vane (kPa)
 P

 Water seep
 ¥
 Water level

Auger sample Disturbed sample Bulk sample Tube sample (x mm dia.) Water sample Core drilling

A D B U W C





CLIENT: Broadcast Australia Pty Ltd PROJECT: Phase 1 & 2 Environmental Site Assessment LOCATION: 250 Taylors Road, Delahey

SURFACE LEVEL: --EASTING: 305060 NORTHING: 5822458 DIP/AZIMUTH: 90°/--

BORE No: B16 PROJECT No: 42662.00 DATE: 14 Jan 2010 SHEET 1 OF 1

Γ		Description	. <u>e</u>		Sam	pling &	& In Situ Testing	_	Well	
R	Depth (m)	of	Braph Log	ype	epth	mple	Results &	Wate	Construction	
		Strata		É.	 	Sa	Comments		Details	
	0.05	SILT (ML): Hard, pale brown, humid.	ЦŲ	D	0.05	B16-1				
	-	SILTY CLAY (CH): Hard, brown, damp to moist.							-	
	-								-	
	-								-	
	-				0.4				-	
		Grey below 0.45 m depth.		D		B16-2				
	- 0.5	Bore discontinued at 0.5m	<u> </u>		-0.5-					
	-								-	
									-	
	-								-	
	- 1								- 1	
	-								-	
	-								-	
	-								-	
									-	
	Ī								-	
	ļ									
	ŀ								-	
	ŀ									

RIG: Custom 4WD TYPE OF BORING: Solid Flight Auger

DRILLER: Horizon Drilling

LOGGED: TD

CASING: NA

WATER OBSERVATIONS: No free groundwater observed REMARKS: Datum WGS 84, UTM Zone 55H

Auger sample Disturbed sample Bulk sample Tube sample (x mm dia.) Water sample Core drilling

A D B U W C

 SAMPLING & IN SITU TESTING LEGEND

 pp
 Pocket penetrometer (kPa)

 le
 PID
 Photo ionisation detector

 standard penetration test
 S
 Standard penetration test

 mm dia.)
 PL
 Point load strength Is(50) MPa

 V
 Shear Vane (kPa)
 P

 Water seep
 ¥
 Water level



CLIENT: Broadcast Australia Pty Ltd PROJECT: Phase 1 & 2 Environmental Site Assessment LOCATION: 250 Taylors Road, Delahey

SURFACE LEVEL: --EASTING: 304920 NORTHING: 5822460 DIP/AZIMUTH: 90°/--

BORE No: B17 PROJECT No: 42662.00 DATE: 14 Jan 2010 SHEET 1 OF 1

		Description	<u>.</u>		Sam	npling &	& In Situ Testing		Well
R	Depth (m)	of	iraph Log	be	pth	nple	Results &	Wate	Construction
		Strata	σ	Τ		Sar	Comments		Details
	0.05	SILT (ML): Hard, pale brown, humid.	ЦЦ	D	0.05	B17-1			
	-	SILTY CLAY (CH): Hard, brown, damp to moist.							-
	-			D	0.4	B17-2			-
	- 0.5				-0.5-				
	- 1	Bore discontinued at 0.5m							

RIG: Custom 4WD

DRILLER: Horizon Drilling

LOGGED: TD

CASING: NA

WATER OBSERVATIONS: No free groundwater observed REMARKS: Datum WGS 84, UTM Zone 55H

 SAMPLING & IN SITU TESTING LEGEND

 pp
 Pocket penetrometer (kPa)

 le
 PID
 Photo ionisation detector

 standard penetration test
 S
 Standard penetration test

 mm dia.)
 PL
 Point load strength Is(50) MPa

 V
 Shear Vane (kPa)
 P

 Water seep
 ¥
 Water level

TYPE OF BORING: Solid Flight Auger

Auger sample Disturbed sample Bulk sample Tube sample (x mm dia.) Water sample Core drilling

A D B U W C

CHECKED Initials: Date



CLIENT: Broadcast Australia Pty Ltd PROJECT: Phase 1 & 2 Environmental Site Assessment LOCATION: 250 Taylors Road, Delahey

SURFACE LEVEL: --EASTING: 304780 NORTHING: 5822461 DIP/AZIMUTH: 90°/--

BORE No: B18 PROJECT No: 42662.00 DATE: 14 Jan 2010 SHEET 1 OF 1

Γ		Description	lic		Sam	npling &	& In Situ Testing	-	Well	
ā	Depth ار (m)	of	braph Log	/pe	epth	nple	Results &	Wate	Construction	
		Strata		Ĺ		Sar	Comments		Details	
	0.05	SILT (ML): Hard, pale brown, humid.		D	0.05	B18-1				
	-	SILTY CLAT (CH). Hard, brown, damp to moist.								
	-									
			1/1/							
	-								-	
					0.4					
	-			Ē	0.4	D10 2				
	- 0!				-0.5-	D10-2				
	0.0	Bore discontinued at 0.5m			0.0					
	-									
	-								-	
	-									
	-								-	
	-1								-1	
	_									
	_									
	-								-	
	-								-	
	-									
	Ī									
	-									
	-									
L										

RIG: Custom 4WD

A D B U W C

DRILLER: Horizon Drilling

LOGGED: TD

CASING: NA

WATER OBSERVATIONS: No free groundwater observed REMARKS: Datum WGS 84, UTM Zone 55H

 SAMPLING & IN SITU TESTING LEGEND

 pp
 Pocket penetrometer (kPa)

 le
 PID
 Photo ionisation detector

 standard penetration test
 S
 Standard penetration test

 mm dia.)
 PL
 Point load strength Is(50) MPa

 V
 Shear Vane (kPa)
 P

 Water seep
 ¥
 Water level
 Auger sample Disturbed sample Bulk sample Tube sample (x mm dia.) Water sample Core drilling

TYPE OF BORING: Solid Flight Auger

CHECKED Initials: Date



CLIENT: Broadcast Australia Pty Ltd PROJECT: Phase 1 & 2 Environmental Site Assessment LOCATION: 250 Taylors Road, Delahey

SURFACE LEVEL: --EASTING: 304640 NORTHING: 5822464 DIP/AZIMUTH: 90°/--

BORE No: B19 PROJECT No: 42662.00 DATE: 14 Jan 2010 SHEET 1 OF 1

		Description	. <u></u>		Sam	pling &	& In Situ Testing	L	Well	
R	Depth (m)	of	raph Log	be	pth	nple	Results &	Wate	Construction	
		Strata	0		De	San	Comments		Details	
	0.02	SILT (ML): Hard, grey, humid.		_D_	0.0	, <u>B19-1</u> ,				
		SILTY CLAY (CH): Hard, grey, moist.	1/1/							
			1/1/							
									-	
			1/1/							
	-								-	
			1/1/							
	-	Becoming pale gey with depth.			0.4				-	
			1/1/	D		B19-2				
	- 0.5	Bore discontinued at 0.5m	<u>////</u>		-0.5-					
	-								-	
	-								-	
	-								-	
	-								-	
	-1								-1	
	_								_	
	-								-	
	-								-	
	-								-	
	-								-	
	-									
	ŀ								-	
	ŀ									

RIG: Custom 4WD

DRILLER: Horizon Drilling

LOGGED: TD

CASING: NA

WATER OBSERVATIONS: No free groundwater observed REMARKS: Datum WGS 84, UTM Zone 55H

 SAMPLING & IN SITU TESTING LEGEND

 pp
 Pocket penetrometer (kPa)

 le
 PID
 Photo ionisation detector

 standard penetration test
 S
 Standard penetration test

 mm dia.)
 PL
 Point load strength Is(50) MPa

 V
 Shear Vane (kPa)
 P

 Water seep
 ¥
 Water level

Auger sample Disturbed sample Bulk sample Tube sample (x mm dia.) Water sample Core drilling

TYPE OF BORING: Solid Flight Auger

A D B U W C





CLIENT: Broadcast Australia Pty Ltd PROJECT: Phase 1 & 2 Environmental Site Assessment LOCATION: 250 Taylors Road, Delahey

SURFACE LEVEL: --EASTING: 304500 NORTHING: 5822467 DIP/AZIMUTH: 90°/--

BORE No: B20 PROJECT No: 42662.00 DATE: 14 Jan 2010 SHEET 1 OF 1

Γ	_	Description	Sampling & In Situ Testing				& In Situ Testing	L	Well	
RL	Depth (m)	of Strata	Graph Log	Type	Depth	Sample	Results & Comments	Wate	Constructio Details	n
		SILT (ML): Hard, pale grey, humid		D	-0.0	B20-1				
	- 0.1	SILTY CLAY (CH): Hard, brown, damp to moist.			0.1				-	
	-								-	
	-								-	
	-				0.4	D 00.0			-	
	- 0.5	Bore discontinued at 0.5m	<u> //</u>	D	-0.5-	B20-2				
	-								-	
	-								-	
	-								-	
	- 1								-1	
	-								-	
	-								-	
	-								-	
	-								-	
	-								-	
	-								-	
	-								-	
	-								-	
	-								-	

RIG: Custom 4WD

DRILLER: Horizon Drilling

LOGGED: TD

CASING: NA

WATER OBSERVATIONS: No free groundwater observed REMARKS: Datum WGS 84, UTM Zone 55H

Auger sample Disturbed sample Bulk sample Tube sample (x mm dia.) Water sample Core drilling

TYPE OF BORING: Solid Flight Auger

A D B U W C

 SAMPLING & IN SITU TESTING LEGEND

 pp
 Pocket penetrometer (kPa)

 le
 PID
 Photo ionisation detector

 standard penetration test
 S
 Standard penetration test

 mm dia.)
 PL
 Point load strength Is(50) MPa

 V
 Shear Vane (kPa)
 P

 Water seep
 ¥
 Water level





CLIENT: Broadcast Australia Pty Ltd PROJECT: Phase 1 & 2 Environmental Site Assessment LOCATION: 250 Taylors Road, Delahey

SURFACE LEVEL: --EASTING: 304500 NORTHING: 5822640 **DIP/AZIMUTH:** 90°/--

BORE No: B21 PROJECT No: 42662.00 DATE: 14 Jan 2010 SHEET 1 OF 1

		Description	Ŀ		Sam	pling &	& In Situ Testing	_	Well	
RL	Depth	of	iraph Log	/pe	epth	nple	Results &	Wate	Construction	1
		Strata	0	Ţ		Sar	Comments	-	Details	
	0.0	SILT (ML): Hard, pale brown, humid.	ЦЦ	D	0.05	B21-1				
	-	SILTY CLAY (CH): Hard, brown, damp to moist.							-	
	-		1/1/						-	
	-								-	
	ſ		1/1/		0.4				-	
		-		D		B21-2				
	- 0.	5 Bore discontinued at 0.5m			-0.5-					
									_	
	-								-	
	F								-	
	-								-	
	- 1								- 1	
	Ē								-	
	-								-	
	-								-	
	F								-	
	-								-	
	ľ									
	[
									-	

RIG: Custom 4WD

DRILLER: Horizon Drilling

LOGGED: TD

CASING: NA

WATER OBSERVATIONS: No free groundwater observed REMARKS: Datum WGS 84, UTM Zone 55H

 SAMPLING & IN SITU TESTING LEGEND

 pp
 Pocket penetrometer (kPa)

 le
 PID
 Photo ionisation detector

 standard penetration test
 S
 Standard penetration test

 mm dia.)
 PL
 Point load strength Is(50) MPa

 V
 Shear Vane (kPa)
 P

 Water seep
 ¥
 Water level

Auger sample Disturbed sample Bulk sample Tube sample (x mm dia.) Water sample Core drilling

TYPE OF BORING: Solid Flight Auger

A D B U W C





CLIENT: Broadcast Australia Pty Ltd PROJECT: Phase 1 & 2 Environmental Site Assessment LOCATION: 250 Taylors Road, Delahey

SURFACE LEVEL: --EASTING: 304707 NORTHING: 5822604 DIP/AZIMUTH: 90°/--

BORE No: B22 PROJECT No: 42662.00 DATE: 14 Jan 2010 SHEET 1 OF 1

	_	Description	Sampling & In Situ Testing				& In Situ Testing	-	Well
RL	(m)	of Strata	Graph Log	Type	Depth	Sample	Results & Comments	Wate	Construction Details
		SILT (ML): Hard, pale brown, humid.		D	-0.0	B22-1			
	- 0.1	SILTY CLAY (CH): Hard, brown, damp to moist.			0.1				
	-			D	0.4	B22-2			
	- 0.5	Bore discontinued at 0.5m			_0.5_				- 1 - 1
	-								

RIG: Custom 4WD TYPE OF BORING: Solid Flight Auger

DRILLER: Horizon Drilling

LOGGED: TD

CASING: NA

WATER OBSERVATIONS: No free groundwater observed REMARKS: Datum WGS 84, UTM Zone 55H

 SAMPLING & IN SITU TESTING LEGEND

 pp
 Pocket penetrometer (kPa)

 le
 PID
 Photo ionisation detector

 standard penetration test
 S
 Standard penetration test

 mm dia.)
 PL
 Point load strength Is(50) MPa

 V
 Shear Vane (kPa)
 P

 Water seep
 ¥
 Water level

Auger sample Disturbed sample Bulk sample Tube sample (x mm dia.) Water sample Core drilling A D B U W C



CLIENT: Broadcast Australia Pty Ltd PROJECT: Phase 1 & 2 Environmental Site Assessment LOCATION: 250 Taylors Road, Delahey

SURFACE LEVEL: --EASTING: 304945 NORTHING: 5822614 DIP/AZIMUTH: 90°/--

BORE No: B23 PROJECT No: 42662.00 DATE: 14 Jan 2010 SHEET 1 OF 1

			h Description of	.ci		Sampling & In Situ Testing			_	Well	
R	Dept (m)	th)		iraph Log	,pe	pth	요		Wate	Construction	
			Strata	σ	Тy		San	Comments	_	Details	
	0	.05	SILT (ML): Hard, pale brown, humid.	ЦЦ	D	0.05	B23-1				
	-		SILTY CLAY (CH): Hard, brown, damp to moist.							-	
				1/1/							
	-				n	0.4	B23-2			-	
		05			D	-0.5-	D23-2				
		2.0	Bore discontinued at 0.5m								
	1										
	-										
L											

RIG: Custom 4WD

DRILLER: Horizon Drilling

LOGGED: TD

CASING: NA

WATER OBSERVATIONS: No free groundwater observed REMARKS: Datum WGS 84, UTM Zone 55H

Auger sample Disturbed sample Bulk sample Tube sample (x mm dia.) Water sample Core drilling

TYPE OF BORING: Solid Flight Auger

A D B U W C

 SAMPLING & IN SITU TESTING LEGEND

 pp
 Pocket penetrometer (kPa)

 le
 PID
 Photo ionisation detector

 standard penetration test
 S
 Standard penetration test

 mm dia.)
 PL
 Point load strength Is(50) MPa

 V
 Shear Vane (kPa)
 P

 Water seep
 ¥
 Water level

CHECKED Initials: Date



CLIENT: Broadcast Australia Pty Ltd PROJECT: Phase 1 & 2 Environmental Site Assessment LOCATION: 250 Taylors Road, Delahey

SURFACE LEVEL: --EASTING: 305145 NORTHING: 5822772 DIP/AZIMUTH: 90°/--

BORE No: B24 PROJECT No: 42662.00 DATE: 14 Jan 2010 SHEET 1 OF 1

		Description			Sampling		& In Situ Testing		Well	
R	Depth (m)	pth . n) of	iraph Log	be	pth	nple	Results &	Wate	Construction	
	_	Strata	0	ŕ		Sar	Comments		Details	
	0.05	SILT (ML): Hard, pale brown, humid.	ЦĻ	D	0.05	B24-1				
		SILTY CLAY (CH): Hard, brown, damp to moist.							-	
	•			D	0.4	B24-2			-	
	0.5	Bore discontinued at 0.5m	/1/1/		-0.5-					
	· · · ·	Bore discontinued at 0.5m								

RIG: Custom 4WD

DRILLER: Horizon Drilling

LOGGED: TD

CASING: NA

WATER OBSERVATIONS: No free groundwater observed REMARKS: Datum WGS 84, UTM Zone 55H

 SAMPLING & IN SITU TESTING LEGEND

 pp
 Pocket penetrometer (kPa)

 le
 PID
 Photo ionisation detector

 standard penetration test
 S
 Standard penetration test

 mm dia.)
 PL
 Point load strength Is(50) MPa

 V
 Shear Vane (kPa)
 P

 Water seep
 ¥
 Water level

Auger sample Disturbed sample Bulk sample Tube sample (x mm dia.) Water sample Core drilling

TYPE OF BORING: Solid Flight Auger

A D B U W C



CLIENT: Broadcast Australia Pty Ltd PROJECT: Phase 1 & 2 Environmental Site Assessment LOCATION: 250 Taylors Road, Delahey

SURFACE LEVEL: --EASTING: 305168 NORTHING: 5822616 **DIP/AZIMUTH:** 90°/--

BORE No: B25 PROJECT No: 42662.00 DATE: 14 Jan 2010 SHEET 1 OF 1

		Description	ic		Sampling & In Situ Testing			-	Well	
RL	Depth (m)	of Strata	Graph Log	Type	Depth	Sample	Results & Comments	Wate	Construction Details	
		SILT (ML): Hard, pale brown, humid.		D	-0.0	B25-1				_
	- 0.1	SILTY CLAY (CH): Hard, brown, damp to moist.			0.1					
	-			D	0.4	B25-2				
	- 0.5	Bore discontinued at 0.5m	r <u>././</u>		-0.5-					
	-									
	-									
	-								-	
	- 1								- 1	
	-									
	-									
	-									
	-									
	-									
	-								-	
	-									
	-								-	

RIG: Custom 4WD TYPE OF BORING: Solid Flight Auger

DRILLER: Horizon Drilling

LOGGED: TD

CASING: NA

WATER OBSERVATIONS: No free groundwater observed REMARKS: Datum WGS 84, UTM Zone 55H

Auger sample Disturbed sample Bulk sample Tube sample (x mm dia.) Water sample Core drilling

A D B U W C

 SAMPLING & IN SITU TESTING LEGEND

 pp
 Pocket penetrometer (kPa)

 le
 PID
 Photo ionisation detector

 standard penetration test
 S
 Standard penetration test

 mm dia.)
 PL
 Point load strength Is(50) MPa

 V
 Shear Vane (kPa)
 P

 Water seep
 ¥
 Water level

CHECKED Initials: Date





NOTES RELATING TO THIS REPORT

Introduction

These notes have been provided to amplify the geotechnical report in regard to classification methods, specialist field procedures and certain matters relating to the Discussion and Comments section. Not all, of course, are necessarily relevant to all reports.

Geotechnical reports are based on information gained from limited subsurface test boring and sampling, supplemented by knowledge of local geology and experience. For this reason, they must be regarded as interpretive rather than factual documents, limited to some extent by the scope of information on which they rely.

Description and Classification Methods

The methods of description and classification of soils and rocks used in this report are based on Australian Standard 1726, Geotechnical Site Investigations Code. In general, descriptions cover the following properties strength or density, colour, structure, soil or rock type and inclusions.

Soil types are described according to the predominating particle size, qualified by the grading of other particles present (eg. sandy clay) on the following bases:

Soil Classification	Particle Size
Clay	less than 0.002 mm
Silt	0.002 to 0.06 mm
Sand	0.06 to 2.00 mm
Gravel	2.00 to 60.00 mm

Cohesive soils are classified on the basis of strength either by laboratory testing or engineering examination. The strength terms are defined as follows.

	Undrained
Classification	Shear Strength kPa
Very soft	less than 12
Soft	12—25
Firm	25—50
Stiff	50—100
Very stiff	100—200
Hard	Greater than 200

Non-cohesive soils are classified on the basis of relative density, generally from the results of standard penetration tests (SPT) or Dutch cone penetrometer tests (CPT) as below:

Relative Density	SPT "N" Value (blows/300 mm)	CPT Cone Value (q _c — MPa)
Very loose	less than 5	less than 2
Loose	5—10	2—5
Medium dense	10—30	5—15
Dense	30—50	15—25
Very dense	greater than 50	greater than 25

Rock types are classified by their geological names. Where relevant, further information regarding rock classification is given on the following sheet.

Sampling

Sampling is carried out during drilling to allow engineering examination (and laboratory testing where required) of the soil or rock.

Disturbed samples taken during drilling provide information on colour, type, inclusions and, depending upon the degree of disturbance, some information on strength and structure.

Undisturbed samples are taken by pushing a thin-walled sample tube into the soil and withdrawing with a sample of the soil in a relatively undisturbed state. Such samples yield information on structure and strength, and are necessary for laboratory determination of shear strength and compressibility. Undisturbed sampling is generally effective only in cohesive soils.

Details of the type and method of sampling are given in the report.

Drilling Methods.

The following is a brief summary of drilling methods currently adopted by the Company and some comments on their use and application.

Test Pits — these are excavated with a backhoe or a tracked excavator, allowing close examination of the in-situ soils if it is safe to descent into the pit. The depth of penetration is limited to about 3 m for a backhoe and up to 6 m for an excavator. A potential disadvantage is the disturbance caused by the excavation.

Large Diameter Auger (eg. Pengo) — the hole is advanced by a rotating plate or short spiral auger, generally 300 mm or larger in diameter. The cuttings are returned to the surface at intervals (generally of not more than 0.5 m) and are disturbed but usually unchanged in moisture content. Identification of soil strata is generally much more reliable than with continuous spiral flight augers, and is usually supplemented by occasional undisturbed tube sampling.

Continuous Sample Drilling — the hole is advanced by pushing a 100 mm diameter socket into the ground and withdrawing it at intervals to extrude the sample. This is the most reliable method of drilling in soils, since moisture content is unchanged and soil structure, strength, etc. is only marginally affected.

Continuous Spiral Flight Augers — the hole is advanced using 90—115 mm diameter continuous spiral flight augers which are withdrawn at intervals to allow sampling or in-situ testing. This is a relatively economical means of drilling in clays and in sands above the water



table. Samples are returned to the surface, or may be collected after withdrawal of the auger flights, but they are very disturbed and may be contaminated. Information from the drilling (as distinct from specific sampling by SPTs or undisturbed samples) is of relatively lower reliability, due to remoulding, contamination or softening of samples by ground water.

Non-core Rotary Drilling — the hole is advanced by a rotary bit, with water being pumped down the drill rods and returned up the annulus, carrying the drill cuttings. Only major changes in stratification can be determined from the cuttings, together with some information from 'feel' and rate of penetration.

Rotary Mud Drilling — similar to rotary drilling, but using drilling mud as a circulating fluid. The mud tends to mask the cuttings and reliable identification is again only possible from separate intact sampling (eg. from SPT).

Continuous Core Drilling — a continuous core sample is obtained using a diamond-tipped core barrel, usually 50 mm internal diameter. Provided full core recovery is achieved (which is not always possible in very weak rocks and granular soils), this technique provides a very reliable (but relatively expensive) method of investigation.

Standard Penetration Tests

Standard penetration tests (abbreviated as SPT) are used mainly in non-cohesive soils, but occasionally also in cohesive soils as a means of determining density or strength and also of obtaining a relatively undisturbed sample. The test procedure is described in Australian Standard 1289, "Methods of Testing Soils for Engineering Purposes" — Test 6.3.1.

The test is carried out in a borehole by driving a 50 mm diameter split sample tube under the impact of a 63 kg hammer with a free fall of 760 mm. It is normal for the tube to be driven in three successive 150 mm increments and the 'N' value is taken as the number of blows for the last 300 mm. In dense sands, very hard clays or weak rock, the full 450 mm penetration may not be practicable and the test is discontinued.

The test results are reported in the following form.

 In the case where full penetration is obtained with successive blow counts for each 150 mm of say 4, 6 and 7

 In the case where the test is discontinued short of full penetration, say after 15 blows for the first 150 mm and 30 blows for the next 40 mm

as 15, 30/40 mm.

The results of the tests can be related empirically to the engineering properties of the soil.

Occasionally, the test method is used to obtain samples in 50 mm diameter thin walled sample tubes in clays. In such circumstances, the test results are shown on the borelogs in brackets.

Cone Penetrometer Testing and Interpretation

Cone penetrometer testing (sometimes referred to as Dutch cone — abbreviated as CPT) described in this report has been carried out using an electrical friction cone penetrometer. The test is described in Australian Standard 1289, Test 6.4.1.

In the tests, a 35 mm diameter rod with a cone-tipped end is pushed continuously into the soil, the reaction being provided by a specially designed truck or rig which is fitted with an hydraulic ram system. Measurements are made of the end bearing resistance on the cone and the friction resistance on a separate 130 mm long sleeve, immediately behind the cone. Transducers in the tip of the assembly are connected by electrical wires passing through the centre of the push rods to an amplifier and recorder unit mounted on the control truck.

As penetration occurs (at a rate of approximately 20 mm per second) the information is plotted on a computer screen and at the end of the test is stored on the computer for later plotting of the results.

The information provided on the plotted results comprises: —

- Cone resistance the actual end bearing force divided by the cross sectional area of the cone expressed in MPa.
- Sleeve friction the frictional force on the sleeve divided by the surface area expressed in kPa.
- Friction ratio the ratio of sleeve friction to cone resistance, expressed in percent.

There are two scales available for measurement of cone resistance. The lower scale (0-5 MPa) is used in very soft soils where increased sensitivity is required and is shown in the graphs as a dotted line. The main scale (0-50 MPa) is less sensitive and is shown as a full line.

The ratios of the sleeve friction to cone resistance will vary with the type of soil encountered, with higher relative friction in clays than in sands. Friction ratios of 1%—2% are commonly encountered in sands and very soft clays rising to 4%—10% in stiff clays.

In sands, the relationship between cone resistance and SPT value is commonly in the range:—

 q_c (MPa) = (0.4 to 0.6) N (blows per 300 mm)

In clays, the relationship between undrained shear strength and cone resistance is commonly in the range:—

$$q_c = (12 \text{ to } 18) c_u$$

Interpretation of CPT values can also be made to allow estimation of modulus or compressibility values to allow calculation of foundation settlements.

Inferred stratification as shown on the attached reports is assessed from the cone and friction traces and from experience and information from nearby boreholes, etc. This information is presented for general guidance, but must be regarded as being to some extent interpretive. The test method provides a continuous profile of engineering properties, and where precise information on soil classification is required, direct drilling and sampling may be preferable.



Hand Penetrometers

Hand penetrometer tests are carried out by driving a rod into the ground with a falling weight hammer and measuring the blows for successive 150 mm increments of penetration. Normally, there is a depth limitation of 1.2 m but this may be extended in certain conditions by the use of extension rods.

Two relatively similar tests are used.

- Perth sand penetrometer a 16 mm diameter flatended rod is driven with a 9 kg hammer, dropping 600 mm (AS 1289, Test 6.3.3). This test was developed for testing the density of sands (originating in Perth) and is mainly used in granular soils and filling.
- Cone penetrometer (sometimes known as the Scala Penetrometer) a 16 mm rod with a 20 mm diameter cone end is driven with a 9 kg hammer dropping 510 mm (AS 1289, Test 6.3.2). The test was developed initially for pavement subgrade investigations, and published correlations of the test results with California bearing ratio have been published by various Road Authorities.

Laboratory Testing

Laboratory testing is carried out in accordance with Australian Standard 1289 "Methods of Testing Soil for Engineering Purposes". Details of the test procedure used are given on the individual report forms.

Bore Logs

The bore logs presented herein are an engineering and/or geological interpretation of the subsurface conditions, and their reliability will depend to some extent on frequency of sampling and the method of drilling. Ideally, continuous undisturbed sampling or core drilling will provide the most reliable assessment, but this is not always practicable, or possible to justify on economic grounds. In any case, the boreholes represent only a very small sample of the total subsurface profile.

Interpretation of the information and its application to design and construction should therefore take into account the spacing of boreholes, the frequency of sampling and the possibility of other than 'straight line' variations between the boreholes.

Ground Water

Where ground water levels are measured in boreholes, there are several potential problems;

- In low permeability soils, ground water although present, may enter the hole slowly or perhaps not at all during the time it is left open.
- A localised perched water table may lead to an erroneous indication of the true water table.
- Water table levels will vary from time to time with seasons or recent weather changes. They may not be

the same at the time of construction as are indicated in the report.

• The use of water or mud as a drilling fluid will mask any ground water inflow. Water has to be blown out of the hole and drilling mud must first be washed out of the hole if water observations are to be made.

More reliable measurements can be made by installing standpipes which are read at intervals over several days, or perhaps weeks for low permeability soils. Piezometers, sealed in a particular stratum, may be advisable in low permeability soils or where there may be interference from a perched water table.

Engineering Reports

Engineering reports are prepared by qualified personnel and are based on the information obtained and on current engineering standards of interpretation and analysis. Where the report has been prepared for a specific design proposal (eg. a three storey building), the information and interpretation may not be relevant if the design proposal is changed (eg. to a twenty storey building). If this happens, the Company will be pleased to review the report and the sufficiency of the investigation work.

Every care is taken with the report as it relates to interpretation of subsurface condition, discussion of geotechnical aspects and recommendations or suggestions for design and construction. However, the Company cannot always anticipate or assume responsibility for:

- unexpected variations in ground conditions the potential for this will depend partly on bore spacing and sampling frequency
- changes in policy or interpretation of policy by statutory authorities
- the actions of contractors responding to commercial pressures.

If these occur, the Company will be pleased to assist with investigation or advice to resolve the matter.

Site Anomalies

In the event that conditions encountered on site during construction appear to vary from those which were expected from the information contained in the report, the Company requests that it immediately be notified. Most problems are much more readily resolved when conditions are exposed than at some later stage, well after the event.

Reproduction of Information for Contractual Purposes

Attention is drawn to the document "Guidelines for the Provision of Geotechnical Information in Tender Documents", published by the Institution of Engineers, Australia. Where information obtained from this investigation is provided for tendering purposes, it is recommended that all information, including the written report and discussion, be made available. In circumstances where the discussion or comments section



is not relevant to the contractual situation, it may be appropriate to prepare a specially edited document. The Company would be pleased to assist in this regard and/or to make additional report copies available for contract purposes at a nominal charge.

Site Inspection

The Company will always be pleased to provide engineering inspection services for geotechnical aspects of work to which this report is related. This could range from a site visit to confirm that conditions exposed are as expected, to full time engineering presence on site.

Copyright © 1998 Douglas Partners Pty Ltd
APPENDIX D

Tabulated Laboratory Analytical Results

TABLE D1 RESULTS OF SOIL ANALYSIS COMPARISON TO HUMAN HEALTH AND ECOLOGICAL INVESTIGATION LEVELS (all results in mg/kg unless otherwise stated)

 			1	r								1								1		1	_		1				_		-1
 	Halogenated Volatile Organics						Q																Q						DN		
 	(bətanəgolaH noV) slonərd latoT						<30																<30						<30		
 	(bətanəgolaH) slonərfə latoT						<0.5																<0.5						<0.5		
1 1 <t< th=""><th>Chlorinated Hydrocarbons</th><th></th><th></th><th></th><th></th><th></th><th><0.1</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th><0.1</th><th></th><th></th><th></th><th></th><th></th><th><0.1</th><th></th><th></th></t<>	Chlorinated Hydrocarbons						<0.1																<0.1						<0.1		
	Total Polychlorinated Biphenyls		9				<0.1																<0.1						<0.1		
1 1	Organochlorine Pesticides				ΠN	ΩN	ΩN	ND	ND	ND	ND	ND	QN	ND	ΩN	QN	ND	QN	ND	ND	ND	Q	ND	ND	ND	QN	ND	QN	ND	Q	QN
1 1	HA9 IstoT		20				<0.1																<0.1						<0.1		
1 1	døB		-				<0.1																<0.1						<0.1		
Math	əbineyO		250				÷5 د																<5>						<5>		
	Total Fluoride						240																210						170		
Manusclear Manuuclear Manusclear Manusclear Manusclear Manusclear Manusclear Manua	anasnaB lγdtaminT-∔ 2 1						<0.5																<0.5						<0.5		
Manual matrixes and a sector of the se	Cumene						<0.5																<0.5						<0.5		
Mathematication Mathemati	Styrene						<0.5																<0.5						<0.5		
Mathematical math mathematical math mathematical math math math math math math math math	sənəlyX			14			<0.5																<0.5						<0.5		
Submittation Submittation<	enezne8 lydt3			3.1			<0.5																<0.5						<0.5		
Summer list of the	ənəuloT			1.4			<0.5																<0.5						<0.5		
Balantializationalizatidizationalizatidicoluzitationalizationalizationalizationalizatio	əuəzuəg			-			<0.5																<0.5						<0.5		
Samuelli station Samuelli station<	TPH C ₂₉ -C ₃₆						53																<50						77		
Hamma Bandmandia Bandmandia </th <th>ssD-srD H9T</th> <th></th> <th></th> <th>1000</th> <th></th> <th></th> <th><50</th> <th></th> <th><50</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th><50</th> <th></th> <th></th>	ssD-srD H9T			1000			<50																<50						<50		
Methed in log	*,D-0,D H9T						<20																<20						<20		
Methodation bubble bubble bubble bubble bubble Second and and and and and and and and and a	TPH C ₆ -C ₉			65			<20																<20						<20		
Mathial building	Zinc	200	7000		11	29	12	24	10	11	10	10	10	10	10	13	16	8	13	8	11	6	16	6	11	14	10	10	8	17	17
Sumple formational memberational me	niT	50			<5<	<5	<5	<5	<5	<5	<5	<5	<u><</u> 5	<5	<5	<5<	<5	<5<	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	22 V	<10
Sample functionational bunchandinabunchanistreparties bunchandinational bunchandinational bunchan	Silver				<5	€5	€5	<5	<5	<5	<5	<5	<5	<5	€	€	<5	€	<5	<5	<5	\$	<5	<5	<5	€5	<5	€5	<5	ŝ	€
Bandlo unitation Imanify and unitation <thi< th=""><th>muinələS</th><th></th><th></th><th></th><th><5</th><th><5</th><th><5</th><th><5</th><th><5</th><th><5</th><th><5</th><th><5</th><th><5<</th><th><5</th><th><5</th><th><5></th><th><5</th><th><5></th><th><5</th><th><5</th><th><5</th><th><5</th><th><5</th><th><5</th><th><5</th><th><5</th><th><5</th><th><5</th><th><5</th><th>22 V</th><th><2</th></thi<>	muinələS				<5	<5	<5	<5	<5	<5	<5	<5	<5<	<5	<5	<5>	<5	<5>	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	22 V	<2
Sample build bu build bu build build build build build build build build build	pead	600	300		11	23	15	15	15	11	11	16	14	12	17	17	18	12	19	15	18	13	15	16	13	11	13	10	13	18	11
Sample foreflection betweeting for any partial betweeting for any partial betweeting for any partial betweeting for any partial for any	Nickel	60	600		29	14	15	8	7	18	12	6	8	35	6	8	6	5	6	6	8	8	18	11	18	23	18	20	8	7	8.2
Sample fountification Sampling Date in Minibiand Samp	mnnsbdyloM				-55	<5>	<5>	<5	<5	<5	<5	<5	-55	<5	-55	<5>	<5	<5>	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10
Sample founditication ampling Data ampling Data Sample Data ampling Data Sample Data ampling Data Sample Data S	Wercury	۲	15		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1
Sample Montification Montification Sample Sample (m) Sample (m) Samp	Copper	100	1000		1	12	10	8	9	7	7	9	7	8	7	7	8	5	7	9	9	7	11	8	11	10	10	9	9	9	7.5
Sample Identification Mamping Data Sample Depth (m) Sample Depth (m) <th< th=""><th>[≯]muimont∂ IstoT</th><th>400</th><th>120000</th><th></th><th>22</th><th>33</th><th></th><th>24</th><th>24</th><th>30</th><th>34</th><th>24</th><th>24</th><th>25</th><th>29</th><th>24</th><th>20</th><th>20</th><th>32</th><th>23</th><th>29</th><th>26</th><th></th><th>37</th><th>32</th><th>32</th><th>28</th><th>19</th><th></th><th>25</th><th>30</th></th<>	[≯] muimont∂ IstoT	400	120000		22	33		24	24	30	34	24	24	25	29	24	20	20	32	23	29	26		37	32	32	28	19		25	30
Sample Montification Sample Sample Sample (m) Sample (m) Sample (m)<	(IV) muimortO	-	100				ž																٢						۲		
Sample Identification Methodification M	(III) muimorid	400	120000																												
Sample Identification Sample Sample (m) Sample (m) Strata (m) Strata (m) Membling Data Membling Laboration Sample Depth (m) Strata (m) Strata (m) Strata (m) Membling Data Membling Laboration Strata (m) Strata (m) Strata (m) Strata (m) Membling Data Membling Linit Strata (m) Strata (m) Strata (m) Strata (m) Membling Data Membling Coll Membling Data (m) Strata (m) Strata (m) Strata (m) Membling Coll Membling Data (m)	muimbsO	3	20		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	<0.2	<0.2	<0.2	<0.5
Sample Identification Betwein Sampling Date (m) Sample Depth (m) Stenta MEPM EIL/ INEPM	Singer	20	100		₽	\$	\$	€5	€5	<5	<5	€5	\$	<5	ŝ	ŝ	€5	ŝ	€5	€	<5	ŝ	€5	€5	€5	\$5	<5	\$5	<5	ŝ	3.0
Sample Identification Methentification Sampling Date Sample Sampling Date Sample Sample Depth (m) NEPM HL/ Amstecc ² CRTERIA/ Amstecc ² CRTERIA/ CRTERIA/ Amstecc ² CRTERIA/ CRTE	Strata				Silty Clay	Sit	Sit	Silt	Silt	Sity Clay	Silt	Silt	Silt	Sity Clay	Sit	Sit	Silt	Sit	Silt	Silty Clay	Silt	Silty Clay	Silt	Silt	Silt						
Sample Sample Identification Sampling Date Identification Sampling Date NEPM ELL'I ANZECC' CHTERA? Intervention NNW EPA CRITERA? Intervention NNM EPA CRITERA? Intervention B1-2 1401/2010 B2-1 1401/2010 B3-1 1401/2010 B4-1 1401/2010 B1-1 1401/2010 B1-1 1401/2010 B1-1 1401/2010 B1-1 1401/2010 B1-1 1401/2010 B1-1 1401/2010 B2-1 1401/2010 B2-1 1401/2010 B2-1 1401/2010	Sample Depth (m)				0.4-0.5	0-0.1	0-0.1	0-0.1	0-0.05	0.4-0.5	0-0.1	0-0.1	0-0.05	0.4-0.5	0-0.05	0-0.02	0-0.02	0-0.05	0-0.1	0-0.05	0-0.05	0-0.05	0-0.02	0-0.1	0-0.05	0.4-0.5	0-0.05	0.4-0.5	0-0.1	0-0.1	0-0.1
Sample Identification Identification NEPM ELL' / AN NEPM ELL' / AN NEPM ELL' / AN IDEN ILL (A) C NSW EPA CRTIT B1-2 B2-1 B2-1 B2-1 B3-1 B1-1 B1-1 <	Sampling Date	ZECC ² CRITERIA	RITERIA	ERIA ³	14/01/2010	14/01/2010	14/01/2010	14/01/2010	14/01/2010	14/01/2010	14/01/2010	14/01/2010	14/01/2010	14/01/2010	14/01/2010	14/01/2010	14/01/2010	14/01/2010	14/01/2010	14/01/2010	14/01/2010	14/01/2010	14/01/2010	14/01/2010	14/01/2010	14/01/2010	14/01/2010	14/01/2010	14/01/2010	14/01/2010	14/01/2010
	Sample Identification	NEPM EIL ¹ / AN	NEPM HIL (A) C	NSW EPA CRITH	B1-2	B2-1	B3-1	B4-1	B5-1	B6-2	B7-1	B8-1	B9-1	B10-2	B11-1	B12-1	B13-1	B14-1	B15-1	B16-1	B17-1	B18-1	B19-1	B20-1	B21-1	B22-2	B23-1	B24-2	B25-1	DUP1	DUP2

<u>Nides:</u> ND: None dietocled at a concentration greater than the taboratory reporting limit ND: None dietocled at a concentration greater than the taboratory reporting limit Sample DUP? Is a bind upgraate sample of sample B15-1 (analysed by MGT) Sample DUP2 is a spiti duplicate sample of sample B15-1 (analysed by MGT)

Edenances for Criteria Usor. 1) National European (and Section Source) (NEPC), National Environmental Protection Measure (NEPM) for Assessment of Site Contamination, December 1998, Table 5-A. 2) National Environmental Protection Council (NEPC), and National Health and Medical Research Council (NHMRC), January 1982: Yustanian and New Zabard Organes for the Assessment and Athanianel Medical Research Council (NHMRC), January 1983: Antonnen Protection Automicy of New Sources (NHMRC), 1984, "Couldmine for Assessing Sarvice Station Steat

TABLE D2 RESULTS OF SOIL ANALYSIS COMPARISON TO EPA WASTE CLASSIFICATION CRITERIA (all results in mg/kg unless otherwise stated)

 			1	1																											
 	(bətanəgolaH noV) slonərd latoT	60	560	2200			<30																30						30		
1 1	Total Phenols (Halogenated)	1	10	320			<0.5																<0.5						<0.5		
	Total Polychlorinated Biphenyls	2					<0.1																<0.1						<0.1		
	Organochlorine Pesticides				Q	Q	QN	QN	Q	QN	QN	QN	QN	Q	QN	Q	QN	QN	Q	ND	Q	Q	Q	ND	ND	ND	ND	Q	g	Q	Q
 	HA9 IstoT	20	100	400			<0.1																≤0.1						<0.1		
 	qs8	1	s 2	20			<0.1																<0.1						<0.1		
	əbineyƏ	50	2500	10 000			<5																<5°						<5>		
1 1	Total Fluoride	450	10000	40000			240																210						170		
Mathematical	ənəznə8 lyrtiəmirT-4 2 f						<0.5																<0.5						<0.5		
1 1	ənəmuƏ						<0.5																<0.5						<0.5		
	Styrene						<0.5																<0.5						<0.5		
	sənəlyX						<0.5																<0.5						<0.5		
Matrix Matrix<	Ethyl Benzene		20	240			<0.5		_														<0.5						<0.5		
Matrix	ənəuloT						<0.5																<0.5						<0.5		
Matrix	əuəzuəg	-	4	16			<0.5																<0.5						<0.5		
Mathematication Mathemati	sbruogenated Volatile Compounds						QN																Q						g		
Sample statistication statisticati statistication statistication statistication statist	Chlorinated Hydrocarbons						<0.1																6.1						<0.1		
Sample Sample	TPH C ₂₅ -C ₃₆						53																<50						1		
Sample Bandle Manufactionic and matrix sample and matrix sample and matrix sample and matrix and matrix and matrix and matrix and and matrix andmatrix andmatrix andmatrix andmatrix andm	TPH C ₁₅ -C ₂₈	1000	10000	4000			<50																€50						<50		
Bandhan bandhandhan Bandhandhan Bandhan bandhan	TPH C ₁₀ -C ₁₄						<20																<20						<20		
Sample formation between the formation betw	TPH Ce-Cs	100	650	2600			<20																<20						<20		
Sample langle	Sinc	200	35000	14000	7	29	12	24	10	1	10	10	10	10	10	13	16	8	13	8	£	6	16	9	11	14	10	10	8	17	17
Sample bettingtion and possible Sample sample (m) Sample (m) Sample<	niT	50	500		ŝ	Ŷ	ŝ	€5	Ŷ	ŝ	€5	€5	ŝ	ŝ	ŝ	ų	€5	ŝ	Ŷ	\$2	Ŷ	Ŷ	Ŷ	\$	\$	\$	\$	\$	Ŷ	Ŷ	<10
Sample alloating alloating build buil	Silver	10	180	720	ŝ	ŝ	ŝ	<5	ŝ	ŝ	<5	<5	ŝ	ŝ	ŝ	Ŷ	<5	\$	Ŷ	≤5	Ŷ	Ŷ	Ŷ	<5	<5	<5	<5	\$	ŝ	ŝ	ŝ
Sampling Industrictation (m) Sampling Date (m)	muinələS	10	50	200	ŝ	ŝ	\$5	<5	ŝ	\$5	<5	<5	\$5	ŝ	\$5	ŝ	<5	€5	Ŷ	<5	Ŷ	ŝ	ŝ	<5	<5	<5	<5	\$	ŝ	ŝ	V
Sampling built formitification analytication built formitification form	Nickel	99	3000	12000	29	4	15	8	7	18	12	9	8	35	6	œ	6	5	6	9	80	80	18	11	18	23	18	20	80	2	8.2
Sampling boundification boundification boundification Sampling band sampling band boundification Sampling band boundification	muəbdyioM	40	1000	4000	\$	Ŷ	ŝ	€5	ŝ	ŝ	€5	€5	ŝ	Ŷ	ŝ	ų	€5	\$	ų	\$	ų	ŝ	ŝ	€	€	€	€	₽	Ŷ	Ŷ	<10
Sampling band Identification functification Sampling band Sampling band (m) Sampling band Strata Sampling band	Mercury	-	15	300	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1
Sample Identification Sample Sample Depth Sample Depth Strata Strata Strata Strata Identification Sample Depth (m) 1	P63d	300	1500	0009 (5	23	15	15	15	1	11	16	14	12	17	17	18	12	19	15	18	13	15	16	13	11	13	10	13	18	£
Sample families and f	Copper	100	5000	2000	5	12	10	8	9	7	7	9	7	80	7	2	8	5	7	9	9	2	5	8	11	10	10	9	9	9	7.5
Sample legitification legiti	(IV) muimondO	-	500	2000			v																¥						Ł		
Sampling bank leartification Sampling bank simple bank (m) Sample bank strata Sample bank strata Sample bank strata Sample bank strata Strata Stra <tra></tra>	muimonda latoT				22	33		24	24	30	34	24	24	25	29	24	20	20	32	23	29	26		37	32	32	28	19		25	30
Sample Sample Depth	muimbeO	3	100	400	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	<0.2	<0.2	<0.2	<0.5
Samples Sampling Date Sampling Date Sample Depth Strata Identification Sampling Date Sample Depth Strata Identification Sampling Date Imple Depth Strata ILL MATERIAL UPER LIMITS Imple Depth Strata ATE-GORVE ULPER LIMITS Imple Depth Strata CATE-GORVE ULPER LIMITS Imple Depth Strata BS-1 1401/2010 0-011 Str <d td=""> BS-1 1401/2010 0-016 Str<d td=""> BS-1 1401/2010 0-016 Str<d td=""> BS-1 1401/2010 0-016 Str<d td=""> BS-1</d></d></d></d>	Arsenic	20	500	2000	\$	\$	€5	<5	Ŷ	€5	<5	<5	€5	\$	€5	Ŷ	<5	€5	Ŷ	\$5	Ŷ	Ŷ	Ŷ	\$	\$	\$	\$	\$	ŝ	ŝ	3.0
Sample lognification Sampling Date Sample Depth Sample Copin lognification Sample Depth FILL MATERIAL UPPER LIMITS (m) FILL MATERIAL UPPER LIMITS (m) CATEGORY & UPPER LIMITS (m) BE-1 1401/2010 0-0.05 B12-1 1401/2010 0-0.05	Strata				Silty Clay	Sit	Sit	Silt	Silt	Sity Clay	Silt	Silt	Sit	Silty Clay	Sit	Sit	Silt	Sit	Silt	Silty Clay	Silt	Silty Clay	Silt	Sit	Silt						
Sample Sampling Date Identification Sampling Date FILL MATERIAL LIPPER LIMITS CATEGORY & UPPER LIMITS CATEGORY & UPPER LIMITS CATEGORY & UPPER LIMITS B1-1 1401/2010 B2-1 1401/2010 B2-1 1401/2010 B1-1 1401/2010 </th <th>Sample Depth (m)</th> <th></th> <th></th> <th></th> <th>0.4-0.5</th> <th>0-0.1</th> <th>0-0.1</th> <th>0-0.1</th> <th>0-0.05</th> <th>0.4-0.5</th> <th>0-0.1</th> <th>0-0.1</th> <th>0-0.05</th> <th>0.4-0.5</th> <th>0-0.05</th> <th>0-0.02</th> <th>0-0.02</th> <th>0-0.05</th> <th>0-0.1</th> <th>0-0.05</th> <th>0-0.05</th> <th>0-0.05</th> <th>0-0.02</th> <th>0-0.1</th> <th>0-0.05</th> <th>0.4-0.5</th> <th>0-0.05</th> <th>0.4-0.5</th> <th>0-0.1</th> <th>0-0.1</th> <th>0-0.1</th>	Sample Depth (m)				0.4-0.5	0-0.1	0-0.1	0-0.1	0-0.05	0.4-0.5	0-0.1	0-0.1	0-0.05	0.4-0.5	0-0.05	0-0.02	0-0.02	0-0.05	0-0.1	0-0.05	0-0.05	0-0.05	0-0.02	0-0.1	0-0.05	0.4-0.5	0-0.05	0.4-0.5	0-0.1	0-0.1	0-0.1
Sample Identification Identification FILL MATERIAL FILL MATERIAL EILL MATERIAL Bill Bill </th <th>Sampling Date</th> <th>UPPER LIMITS</th> <th>PPER LIMITS</th> <th>PPER LIMITS</th> <th>14/01/2010</th>	Sampling Date	UPPER LIMITS	PPER LIMITS	PPER LIMITS	14/01/2010	14/01/2010	14/01/2010	14/01/2010	14/01/2010	14/01/2010	14/01/2010	14/01/2010	14/01/2010	14/01/2010	14/01/2010	14/01/2010	14/01/2010	14/01/2010	14/01/2010	14/01/2010	14/01/2010	14/01/2010	14/01/2010	14/01/2010	14/01/2010	14/01/2010	14/01/2010	14/01/2010	14/01/2010	14/01/2010	14/01/2010
	Sample Identification	FILL MATERIAL	CATEGORY C U	CATEGORY B U	B1-2	B2-1	B3-1	B4-1	B5-1	B6-2	B7-1	B8-1	B9-1	B10-2	B11-1	B12-1	B13-1	B14-1	B15-1	B16-1	B17-1	B18-1	B19-1	B20-1	B21-1	B22-2	B23-1	B24-2	B25-1	DUP1	DUP2

Notes: Mone detected at a concertration greater than the laboratory reporting limit A blank space indicates no test performed, or no criteria analable Sample DUPT is a bit duplicatie sample of sample B15-1 (analysed by Ecowies) Sample DUPZ is a signit duplicate sample of sample B15-1 (analysed by MGT)

References for Criteria Used: 1) Environment Protection Authority of Victoria (EPA), June 2009: EPA Publication IWRG62115o/d Hazard Categorisation & Management¹:

APPENDIX E

NATA Certified Laboratory Reports

CD Do	chnics - EL	IS Parl wironment - Gr				CHAIN OF CUSTODY DESPATCH SHEET	
Project Name:		Delahey				To Ecowise Environmental	
Project Number.		42662				22 Dalmore Drive	
DP Contact Per	SON:	Tamie Dick				Scoresby	
Prior storage:		Esky and Frid	ge			Ph; Atta: Tuven Nauven	
Date relinquishe	d: d:	15/01/2010				No. of samples in container: 51	
Results required Turnaround requ	ł by: Jirements:	22/01/2010 STANDARD				Signedt.	
LAB REFEREN	ICE: O	-0316	م			Date:!5/1/10	Laboratory Sample Receipt Stamp
Sample ID	Sample	Lab ID	EPA	Metal	OCP		Notes
	Type		Screen	Screen			
B1-1	Soil/ Jar	2056903					EPA Screen:
B1-2	Soil/ Jar	1		>	>		EPA 448.3 Table 2
B2-1	Soil/ Jar	8		>	>		
B2-2	Soll/ Jar	හි					
B3-1	Soil/ Jar	45	>				Metal Screen:
B3-2	Soil/ Jar	8					As, Cd, Cr, Cu, Pb,
B4-1	Soil/ Jar	69		>	>		Hg, Mo, Ni, Sn, Se,
B4-2	Soil/ Jar	(0					Ag, Zn.
B5-1	Soil/ Jar			>	>		
B5-2	Soll Jar	2					
B6-1	Soil/ Jar	2					
B6-2	Soll/ Jar	14		>	>		
B7-1	Soil/ Jar	5		>	>		
B7-2	Soil/ Jar	9					
B8-1	Soll/ Jar	С С		>	>		
B8-2	Soil/ Jar	8					
B9-1	Soil/ Jar	D		>	>		
B9-2	Soll/ Jar	8			_		
B10-1	Soll/ Jar	5					
B10-2	Soil/ Jar	27		>	>		
B11-1	Soil/ Jar	1 23		>	>		
B11-2	Soll/ Jar	HZ A					

() Do Geote	ugla chnics - Et	IS Part		(A >		CHAIN OF CUSTODY DESPATCH SHEET	
Project Name: Project Number: DP Contact Pers Prior storage:	:	Delahey 42662 Tamie Dick Esky and Frid _t	e			To Ecowise Environmental 22 Dalmore Drive Scoresby Ph:	
Date relinquishe Results required Turnaround requ	:d: 1 by: Jirements:	15/01/2010 22/01/2010 STANDARD				Attn: Tuyen Nguyen No. of samples in container: 51 Sample Receipt Signed:	
LAB REFEREN	CE					Date:	tboratory Sample Receipt Stamp
Sample ID	Sample	Lab ID	EPA	Metal	OCP		Notes
	Type		Screen	Screen			
B12-1	Soil/ Jar	2056925		>	>		
B12-2	Soll/ Jar	8					
B13-1	Soil/ Jar	\$		>	>		
B13-2	Soil/ Jar	8					
B14-1	Soil/ Jar	29		>	>		
B14-2	Solt/ Jar	30					
B15-1	Solt/ Jar	31		>	>		
B15-2	Soli/ Jar						
B16-1	Soil/ Jar	33		>	>		and the second se
B16-2	Soil/ Jar	34					
B17-1	Soll/ Jar	S		>	>		
B17-2	Soll/ Jar	36					
B18-1	Soil/ Jar	₿		>	>		
B18-2	Soll/ Jac	9 3					
B19-1	Soil/ Jar	39	>				
B19-2	Soil/ Jar	\$					
820-1	Soll/Jar	2		>	>		
<u>820-</u> 2	Soll/ Jar	42					
B21-1	Soil/ Jar	53		>	>		
B21-2	Soil/ Jar	4					
B22-1	Soil/ Jar	£					
B22-2	Soil/ Jar	VI 46		>	>		

7 2/3

			sboratory Sample Receipt Stamp	Notes														
OF CUSTODY DESPATCH SHEET	To Ecowise Environmental 22 Dalmore Drive Scoresby Ph: Attn: Tuyen Nguyen	No. of samples in container: 51 Sample Receipt: Signed:	Date:														·	
CHAIN (
				OCP		>		>	_		>		_					
14 4				Metal	Screen	>		>			>							
	e			EPA	Screen				>									
IS Part.	Delahey 42662 Tamie Dick Esky and Fridç	15/01/2010 22/01/2010 STANDARD		Lab ID	C101 - 10	202674T	14	es	ସ	6	N 53							
ugla thrics - En	:uo	1: by: irements:	 بن	Sample	Type	Soil/ Jar	Soll/ Jar	Soil/ Jar	Soil/ Jar	Soil/ Jar	Soil/ Jar							
(D) Do Geoter	Project Name: Project Number: DP Contact Pers Prior storage:	Date relinquisher Results required Turnaround requ	LAB REFEREN	Sample ID		B23-1 B23-2	B24-1	B24-2	B25-1	B25-2	DUP1							

3/3

Client:	Douglas Partners	Pty Ltd		Certifi	icate of Analys	is		Ecowise Australia Pty	Ltd	
Address:	68 Brighton Street RICHMOND VIC	3121		Bat	tch No: 10-0316	Q	Ecowise	22 Dalmore Drive Scoresby VIC 3179	div	
					Final Report		Environmental	Tel: 03 8756 8000		
Attention:	Tamie Dick			Repu	ort Number: 139871			Fax: 03 9763 1862		
Page 1 of 4	0						Date Issued	: 22-Jan-2010		
Client	f Program Ref: 426	62		PO N	o: 84625		Date Sampled	: 15-Jan-2010		
Ecowise	Program Ref: DOI	NGLAS					Date Received	: 15-Jan-2010		
	he sample(s) referred	to in this report were	e analysed by the follow	ing method(s):						_
Analysis	V	Vethod	Laboratory	Analysis	Method	Laboratory	Analysis	Method	Laboratory	
СНС	~~~	WSL 8210 B HCCP not VATA)	Melbourne	Cyanide	APHA 4120 B	Melbourne	Tot Fluoride	NEPM 404 (not NATA)	Melbourne	
HVOL		VIC-CM047	Melbourne	МАН	VIC-CM047	Melbourne	MS Total Metals	WSL 032	Melbourne	
ОСР	~	NSL 8080B	Melbourne	РАН	WSL 8100B	Melbourne	PCB	WSL 8080B	Melbourne	
Phenols(Há	alo) (CM8040D	Melbourne	Phenols(NonHalo)	CM8040D	Melbourne	Total Cr 6+	EPA 3060A (not NATA)	Melbourne	
ТРН	/	/IC-CM030	Melbourne					,		

Total PAH's refers only to the sum of the positive individual PAH's tested above.

Total PCB's refers only to the sum of the positive Aroclors® tested above.

Report:
for this
Contact
Principal (

Huy Gro-

Tuyen Nguyen Client Manager



esults in this report were authorised by:	Title	Principal Organic Chemist	Team Leader - Metals	Chemist/Analyst	Principal Inorganic Chemist
The r	Name	Hao Zhang	John Earl	Kosta Christopoulos	Michael Clahsen

Page 2 of 40

Client: Douglas Partners Pty Ltd

Client Program Ref: 42662

Batch No:10-03166Report Number:139871

Ecowise Program Ref: DOUGLAS



Date Issued: 22-Jan-2010

LOR = Limit of reporting. When a reported LOR is higher than the standard LOR, this may be due to high moisture content, insufficient sample or matrix interference.

CAS Number = Chemistry Abstract Services Number. The analytical procedures in this report (including in house methods) are developed from internationally recognised procedures such as those published by USEPA, APHA and NEPM.

				Sample No.	2056904	2056905	2056907	2056909	2056911	2056914
			Ci	ent Sample ID	B1-2	B2-1	B3-1	B4-1	B5-1	B6-2
				Sample Date	15/01/10	15/01/10	15/01/10	15/01/10	15/01/10	15/01/10
				Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Analysis	Analyte	CAS #	LOR							
CHC	1,2,3,4-Tetrachlorobenzene	634-66-2	<0.1	mg/kg			<0.1			
CHC	1,2,3,5-Tetrachlorbenzene	634-90-2	<0.1	mg/kg			<0.1			
CHC	1,2,3-Trichlorobenzene	87-61-6	<0.1	mg/kg			<0.1			
CHC	1,2,4,5-Tetrachlorobenzene	95-94-3	<0.1	mg/kg			<0.1			
CHC	1,2,4-Trichlorobenzene	120-82-1	<0.1	mg/kg			<0.1			
CHC	1,2-Dichlorobenzene	95-50-1	<0.1	mg/kg			<0.1			
CHC	1,3,5-Trichlorobenzene	108-70-3	<0.1	mg/kg			<0.1			
CHC	1,3-Dichlorobenzene	541-73-1	<0.1	mg/kg			<0.1			
CHC	1,4-Dichlorobenzene	106-46-7	<0.1	mg/kg			<0.1			
CHC	2-Chloronaphthalene	91-58-7	<0.1	mg/kg			<0.1			
CHC	Benzal Chloride	98-87-3	<0.1	mg/kg			<0.1			
CHC	Benzotrichloride	98-07-7	<0.1	mg/kg			<0.1			
CHC	Benzylchloride	100-44-7	<0.1	mg/kg			<0.1			
CHC	Hexachloroethane	67-72-1	<0.1	mg/kg			<0.1			
CHC	Hexachlorobutadiene	87-68-3	<0.1	mg/kg			<0.1			
CHC	Hexachlorocyclopentadiene	77-47-4	<0.1	mg/kg			<0.1			
CHC	Pentachlorobenzene	608-93-5	<0.1	mg/kg			<0.1			
Analysis	Analyte	CAS #	LOR							
HVOL	1,1,1,2-Tetrachloroethane	630-20-6	<0.5	mg/kg			<0.5			
HVOL	1,1,2,2-Tetrachloroethane	79-34-5	<0.5	mg/kg			<0.5			
HVOL	1,1- Dichloroethane	75-34-3	<0.5	mg/kg			<0.5			
HVOL	1,1-Dichloroethene	75-35-4	<0.5	mg/kg			<0.5			
HVOL	1,1-Dichloropropene	563-58-6	<0.5	mg/kg			<0.5			
HVOL	1,2,3-Trichloropropane	96-18-4	<0.5	mg/kg			<0.5			
HVOL	1,2-Dibromo-3-Chloropropane	96-12-8	<0.5	mg/kg			<0.5			
HVOL	1,2-Dichloroethene [cis]	540-59-0(cis)	<0.5	mg/kg			<0.5			
HVOL	1,2-Dichloroethene [trans]	540-59-0(trans)	<0.5	mg/kg			<0.5			
HVOL	1,2-Dichloroethane	107-06-2	<0.5	mg/kg			<0.5			
HVOL	1,2-Dichloropropane	78-87-5	<0.5	mg/kg			<0.5			
HVOL	1,3-Dichloropropane	142-28-9	<0.5	mg/kg			<0.5			
HVOL	1.3-Dichloropropene [cis]	10061-01-5	<0.5	ma/ka			<0.5			

Page 3 of 40			Bat	ch No: 10-031	66		Date Issued: 22-Ja	in-2010	
	Client: Douglas Partners Pty Ltd		Report	Number: 139871					owice
Client Program F	Ref: 42662		Ecowise Pro	gram Ref: DOUGLA	S				invironmental
			Sample No.	2056904	2056905	2056907	2056909	2056911	2056914
			Client Sample ID	B1-2	B2-1	B3-1	B4-1	B5-1	B6-2
			Sample Date	15/01/10	15/01/10	15/01/10	15/01/10	15/01/10	15/01/10
			Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
HVOL	1,3-Dichloropropene [trans]	10061-02-6	<0.5 mg/kg			<0.5			
HVOL	2,2-Dichloropropane	594-20-7	<0.5 mg/kg			<0.5			
HVOL	2-Chlorotoluene	95-49-8	<0.5 mg/kg			<0.5			
HVOL	4-Chlorotoluene	106-43-4	<0.5 mg/kg			<0.5			
HVOL	Bromochloromethane	74-97-5	<0.5 mg/kg			<0.5			
HVOL	Bromodichloromethane	75-27-4	<0.5 mg/kg			<0.5			
HVOL	Bromobenzene	108-86-1	<0.5 mg/kg			<0.5			
HVOL	Bromoform (Tribromomethane)	75-25-2	<0.5 mg/kg			<0.5			
HVOL	Carbon Tetrachloride	56-23-5	<0.5 mg/kg			<0.5			
HVOL	Chloroform (Trichloromethane)	67-66-3	<0.5 mg/kg			<0.5			
HVOL	Chlorobenzene	108-90-7	<0.5 mg/kg			<0.5			
HVOL	Dibromochloromethane	124-48-1	<0.5 mg/kg			<0.5			
HVOL	Dibromomethane	74-95-3	<0.5 mg/kg			<0.5			
HVOL	1,2-Dibromoethane	106-93-4	<0.5 mg/kg			<0.5			
HVOL	Dichloromethane	75-09-2	<1 mg/kg			₹			
HVOL	Trichlorofluoromethane (CFC11)	75-69-4	<2 mg/kg			<2			
HVOL	Tetrachloroethene	127-18-4	<0.5 mg/kg			<0.5			
HVOL	Vinyl Chloride (Monomer)	75-01-4	<1 mg/kg			4			
HVOL	1,1,1-Trichloroethane	71-55-6	<0.5 mg/kg			<0.5			
HVOL	1,1,2-Trichloroethane	79-00-5	<0.5 mg/kg			<0.5			
HVOL	Trichloroethene	79-01-6	<0.5 mg/kg			<0.5			
Analysis	Analyte	CAS #	LOR						
MAH	Benzene	71-43-2	<0.5 mg/kg			<0.5			
MAH	Toluene	108-88-3	<0.5 mg/kg			<0.5			
MAH	Ethyl Benzene	100-41-4	<0.5 mg/kg			<0.5			
MAH	Xylenes	1330-20-7	<0.5 mg/kg			<0.5			
MAH	Styrene	100-42-5	<0.5 mg/kg			<0.5			
MAH	Cumene	98-82-8	<0.5 mg/kg			<0.5			
MAH	1,2,4-Trimethylbenzene	95-63-6	<0.5 mg/kg			<0.5			
Analysis	Analyte	CAS #	LOR						
OCP	BHC (alpha isomer)	319-84-6	<0.05 mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
OCP	a-Endosulphan	959-98-8	<0.05 mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
OCP	Aldrin	309-00-2	<0.05 mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
OCP	BHC (beta isomer)	319-85-7	<0.05 mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Page 4 of 40			Bat	ch No: 10-031	36		Date Issued: 22-Jar	n-2010	
U	<i>lient</i> : Douglas Partners Pty Ltd		Repor	t Number: 139871				H	Durice
Client Program R€	sf: 42662		Ecowise Pro	gram Ref: DOUGLA	(0				Environmental
			Sample No.	2056904	2056905	2056907	2056909	2056911	2056914
			Client Sample ID	B1-2	B2-1	B3-1	B4-1	B5-1	B6-2
			Sample Date	15/01/10	15/01/10	15/01/10	15/01/10	15/01/10	15/01/10
			Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
OCP	b-Endosulphan	33213-65-9	<0.05 mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
OCP	cis-Chlordane	5103-71-9	<0.05 mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
OCP	trans-Chlordane	5103-74-2	<0.05 mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
OCP	BHC (delta isomer)	319-86-8	<0.05 mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
ОСР	DDD	72-54-8	<0.05 mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
ОСР	DDE	72-55-9	<0.05 mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
ОСР	DDT	50-29-3	<0.05 mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
ОСР	Dieldrin	60-57-1	<0.05 mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
OCP	Endosulfan Sulfate	1031-07-8	<0.05 mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
OCP	Endrin	72-20-8	<0.05 mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
ОСР	Endrin Aldehyde	7421-93-4	<0.05 mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
ОСР	Endrin Ketone	53494-70-5	<0.05 mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
ОСР	Hexachlorobenzene	118-74-1	<0.05 mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
ОСР	Heptachlor Epoxide	1024-57-3	<0.05 mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
ОСР	Heptachlor	76-44-8	<0.05 mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
ОСР	BHC (gamma isomer) [Lindane]	58-89-9	<0.05 mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
OCP	Methoxychlor	72-43-5	<0.05 mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Analysis	Analyte	CAS #	LOR						
PAH	Acenaphthene	83-32-9	<0.1 mg/kg			<0.1			
PAH	Acenaphthylene	208-96-8	<0.1 mg/kg			<0.1			
PAH	Anthracene	120-12-7	<0.1 mg/kg			<0.1			
PAH	Benz(a)anthracene	56-55-3	<0.1 mg/kg			<0.1			
PAH	Benzo(a)pyrene	50-32-8	<0.1 mg/kg			<0.1			
PAH	Benzo(b)fluoranthene	205-99-2	<0.1 mg/kg			<0.1			
PAH	Benzo(g,h,i)perylene	191-24-2	<0.1 mg/kg			<0.1			
PAH	Benzo(k)fluoranthene	207-08-9	<0.1 mg/kg			<0.1			
PAH	Chrysene	218-01-9	<0.1 mg/kg			<0.1			
PAH	Dibenz(a,h)anthracene	53-70-3	<0.1 mg/kg			<0.1			
PAH	Fluoranthene	206-44-0	<0.1 mg/kg			<0.1			
PAH	Fluorene	86-73-7	<0.1 mg/kg			<0.1			
PAH	Indeno(1,2,3-cd)pyrene	193-39-5	<0.1 mg/kg			<0.1			
PAH	Naphthalene	91-20-3	<0.1 mg/kg			<0.1			
PAH	Phenanthrene	85-01-8	<0.1 mg/kg			<0.1			
PAH	Pyrene	129-00-0	<0.1 mg/kg			<0.1			

Samples tested as received. A blank space indicates no test performed. Soil results expressed in mg/kg dry weight unless specified otherwise

ō	<i>lient:</i> Douglas Partners Pty Ltd			Report	Number: 139871				10H	owise
Client Program Re.	f: 42662			Ecowise Prog	ram Ref: DOUGLAS				E	nvironmental
				Sample No.	2056904	2056905	2056907	2056909	2056911	2056914
			Clie	ent Sample ID	B1-2	B2-1	B3-1	B4-1	B5-1	B6-2
				Sample Date	15/01/10	15/01/10	15/01/10	15/01/10	15/01/10	15/01/10
				Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
PAH	Total PAH	TOTALPAH	<0.1	mg/kg			<0.1			
Analysis	Analyte	CAS #	LOR							
PCB	Aroclor 1016	12674-11-2	<0.1	mg/kg			<0.1			
PCB	Aroclor 1221	11104-28-2	<0.1	mg/kg			<0.1			
PCB	Aroclor 1232	11141-16-5	<0.1	mg/kg			<0.1			
PCB	Aroclor 1242	53469-21-9	<0.1	mg/kg			<0.1			
PCB	Aroclor 1248	12672-29-6	<0.1	mg/kg			<0.1			
PCB	Aroclor 1254	11097-69-1	<0.1	mg/kg			<0.1			
PCB	Aroclor 1260	11096-82-5	<0.1	mg/kg			<0.1			
PCB	Total PCB	1336-36-3	<0.1	mg/kg			<0.1			
Analysis	Analyte	CAS #	LOR							
Phenols(Halo)	4-Chloro-3-Methylphenol	59-50-7	<0.5	mg/kg			<0.5			
Phenols(Halo)	2-Chlorophenol	95-57-8	<0.5	mg/kg			<0.5			
Phenols(Halo)	2,4-Dichlorophenol	120-83-2	<0.5	mg/kg			<0.5			
Phenols(Halo)	2,6-Dichlorophenol	87-65-0	<0.5	mg/kg			<0.5			
Phenols(Halo)	Pentachlorophenol	87-86-5	<0.5	mg/kg			<0.5			
Phenols(Halo)	2,3,4,5-Tetrachlorophenol	4901-51-3	<0.5	mg/kg			<0.5			
Phenols(Halo)	2,3,4,6-Tetrachlorophenol	58-90-2	<0.5	mg/kg			<0.5			
Phenols(Halo)	2,3,5,6-Tetrachlorophenol	935-95-5	<0.5	mg/kg			<0.5			
Phenols(Halo)	2,4,5-Trichlorophenol	95-95-4	<0.5	mg/kg			<0.5			
Phenols(Halo)	2,4,6-Trichlorophenol	88-06-2	<0.5	mg/kg			<0.5			
Phenols(Halo)	Total Phenols (Halogenated)	64743-03-9(Hal	<0.5	mg/kg			<0.5			
Analysis	Analyte	CAS #	LOR							
Phenols(NonHalo)	Phenol	108-95-2	<0.5	mg/kg			<0.5			
Phenols(NonHalo)	Total Cresols	1319-77-3	v	mg/kg			<			
Phenols(NonHalo)	2,4-Dimethylphenol	105-67-9	<0.5	mg/kg			<0.5			
Phenols(NonHalo)	2,4-Dinitrophenol	51-28-5	<30	mg/kg			<30			
Phenols(NonHalo)	2-Methyl-4,6-Dinitrophenol	534-52-1	<10	mg/kg			<10			
Phenols(NonHalo)	2-Nitrophenol	88-75-5	<0.5	mg/kg			<0.5			
Phenols(NonHalo)	4-Nitrophenol	100-02-7	<0.5	mg/kg			<0.5			
Phenols(NonHalo)	2-Cyclohexyl-4,6-Dinitrophenol	131-89-5	<30	mg/kg			<30			
Phenols(NonHalo)	Dinoseb	88-85-7	<10	mg/kg			<10			
Phenols(NonHalo)	Total Phenols (non Halogenated)	64743-03-9(Non	<30	mg/kg			<30			
Analysis	Analyte	CAS #	LOR							

Samples tested as received. A blank space indicates no test performed. Soil results expressed in mg/kg dry weight unless specified otherwise

Date Issued: 22-Jan-2010

Batch No: 10-03166

Page 5 of 40

∂|∞|⊅|∆ Ecowise

40	
đ	
9 e	
Pag	

42662

Client Program Ref:

Batch No: 10-03166

Report Number: 139871

Ecowise Program Ref: DOUGLAS



				Sample No.	2056904	2056905	2056907	2056909	2056911	2056914
			Clie	ent Sample ID	B1-2	B2-1	B3-1	B4-1	B5-1	B6-2
				Sample Date	15/01/10	15/01/10	15/01/10	15/01/10	15/01/10	15/01/10
				Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Tot Fluoride	Total Fluoride, as F	16984-48-8	<100	mg/kg			240			
Cyanide	Cyanide, as CN	57-12-5	<5	mg/kg			<5			
Total Cr 6+	Hexavalent Chromium (Total) Soil	18540-29-9	Ÿ	mg/kg			¥			
Analysis	Analyte	CAS #	LOR							
MS Total Metals	Arsenic	7440-38-2	<5	mg/kg	<5	<5	<5	<5	<5	<5
MS Total Metals	Cadmium	7440-43-9	<0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
MS Total Metals	Chromium	7440-47-3	<5	mg/kg	22	33		24	24	30
MS Total Metals	Copper	7440-50-8	<5	mg/kg	11	12	10	8	9	7
MS Total Metals	Lead	7439-92-1	<5	mg/kg	11	23	15	15	15	11
MS Total Metals	Mercury	7439-97-6	<0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
MS Total Metals	Molybdenum	7439-98-7	<5	mg/kg	<5	<5	<5	<5	<5	<5
MS Total Metals	Nickel	7440-02-0	<5	mg/kg	29	14	15	8	7	18
MS Total Metals	Selenium	7782-49-2	<5	mg/kg	<5	<5	<5	<5	<5	<5
MS Total Metals	Silver	7440-22-4	<5	mg/kg	<5	<5	<5	<5	<5	<5
MS Total Metals	Tin	7440-31-5	<5	mg/kg	<5	<5	<5	<5	<5	<5
MS Total Metals	Zinc	7440-66-6	<5	mg/kg	11	29	12	24	10	1
Analysis	Analyte	CAS #	LOR							
TPH	Petroleum Hydrocarbons (C6-C9)	TPHC6_C9	<20	mg/kg			<20			
TPH	Petroleum Hydrocarbons (C10-C14)	TPHC10_C14	<20	mg/kg			<20			
TPH	Petroleum Hydrocarbons (C15-C28)	TPHC15_C28	<50	mg/kg			<50			
TPH	Petroleum Hydrocarbons (C29-C36)	TPHC29_C36	<50	mg/kg			53			

4
ę
7
θ
0
ص_
n

42662

Client Program Ref:

ŭ

Ecowise Program Ref: DOUGLAS

Batch No: 10-03166

Report Number: 139871



Date Issued: 22-Jan-2010

CAS Number = Chemistry Abstract Services Number. The analytical procedures in this report (including in house methods) are developed from internationally recognised procedures such as those published by USEPA, APHA and NEPM. LOR = Limit of reporting. When a reported LOR is higher than the standard LOR, this may be due to high moisture content, insufficient sample or matrix interference.

				Sample No.	2056915	2056917	2056919	2056922	2056923	2056925
			Cli	ent Sample ID	B7-1	B8-1	B9-1	B10-2	B11-1	B12-1
				Sample Date	15/01/10	15/01/10	15/01/10	15/01/10	15/01/10	15/01/10
				Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Analysis	Analyte	CAS #	LOR							
OCP	BHC (alpha isomer)	319-84-6	<0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
OCP	a-Endosulphan	959-98-8	<0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
OCP	Aldrin	309-00-2	<0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
OCP	BHC (beta isomer)	319-85-7	<0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
OCP	b-Endosulphan	33213-65-9	<0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
OCP	cis-Chlordane	5103-71-9	<0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
OCP	trans-Chlordane	5103-74-2	<0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
OCP	BHC (delta isomer)	319-86-8	<0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
OCP	DDD	72-54-8	<0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
ОСР	DDE	72-55-9	<0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
OCP	DDT	50-29-3	<0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
OCP	Dieldrin	60-57-1	<0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
OCP	Endosulfan Sulfate	1031-07-8	<0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
OCP	Endrin	72-20-8	<0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
OCP	Endrin Aldehyde	7421-93-4	<0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
OCP	Endrin Ketone	53494-70-5	<0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
ОСР	Hexachlorobenzene	118-74-1	<0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
OCP	Heptachlor Epoxide	1024-57-3	<0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
ОСР	Heptachlor	76-44-8	<0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
OCP	BHC (gamma isomer) [Lindane]	58-89-9	<0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
OCP	Methoxychlor	72-43-5	<0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Analysis	Analyte	CAS #	LOR							
MS Total Metals	Arsenic	7440-38-2	<5	mg/kg	<5	<5	<5	<5	<5	<5
MS Total Metals	Cadmium	7440-43-9	<0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
MS Total Metals	Chromium	7440-47-3	<5	mg/kg	34	24	24	25	29	24
MS Total Metals	Copper	7440-50-8	<5	mg/kg	7	9	7	8	7	7
MS Total Metals	Lead	7439-92-1	<5	mg/kg	11	16	14	12	17	17
MS Total Metals	Mercury	7439-97-6	<0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
MS Total Metals	Molybdenum	7439-98-7	<5	mg/kg	<5	<5	<5	<5	<5	<5
MS Total Metals	Nickel	7440-02-0	<5	mg/kg	12	9	8	35	6	ω
MS Total Metals	Selenium	7782-49-2	<5	mg/kg	<5	<5	<5	<5	<5	<5

_
0
4
<u>ب</u>
0
œ
Φ
σ
a
Δ.

42662

Client Program Ref:

Report Number: 139871

Ecowise Program Ref: DOUGLAS

Batch No: 10-03166



		Sam	ole No. 205691	15 2056	5917	2056919	2056922	2056923	2056925
		Client San	nple ID B7-1	8	3-1	B9-1	B10-2	B11-1	B12-1
		Sampl	le Date 15/01/1	15/0	1/10	15/01/10	15/01/10	15/01/10	15/01/10
		Sampl	e Type SOIL	SC	OIL	SOIL	SOIL	SOIL	SOIL
MS Total Metals Silver	7440-22-4	<5 mg/kg	€	v	5	<5	<5	<5	<5
MS Total Metals Tin	7440-31-5	<5 mg/kg	€	•	ç	<5	<5	<5	<5
MS Total Metals Zinc	7440-66-6	<5 mg/kg	10		0	10	10	10	13

0
4
-
0
6
Ð
0
a
•

42662

Client Program Ref:

Report Number: 139871

Batch No: 10-03166

Ecowise Program Ref: DOUGLAS



ECOWISE Environmental

2056937

2056935

2056933

2056931

2056929

2056927

Sample No.

LOR = Limit of reporting. When a reported LOR is higher than the standard LOR, this may be due to high moisture content, insufficient sample or matrix interference.

CAS Number = Chemistry Abstract Services Number. The analytical procedures in this report (including in house methods) are developed from internationally recognised procedures such as those published by USEPA, APHA and NEPM.

			Clie	nt Sample ID	B13-1	B14-1	B15-1	B16-1	B17-1	B18-1
				Sample Date	15/01/10	15/01/10	15/01/10	15/01/10	15/01/10	15/01/10
			-	Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Analysis	Analyte	CAS #	LOR							
OCP	BHC (alpha isomer)	319-84-6	<0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
OCP	a-Endosulphan	959-98-8	<0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
OCP	Aldrin	309-00-2	<0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
OCP	BHC (beta isomer)	319-85-7	<0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
OCP	b-Endosulphan	33213-65-9	<0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
OCP	cis-Chlordane	5103-71-9	<0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
OCP	trans-Chlordane	5103-74-2	<0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
OCP	BHC (detta isomer)	319-86-8	<0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
OCP	DDD	72-54-8	<0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
OCP	DDE	72-55-9	<0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
OCP	DDT	50-29-3	<0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
OCP	Dieldrin	60-57-1	<0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
OCP	Endosulfan Sulfate	1031-07-8	<0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
OCP	Endrin	72-20-8	<0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
OCP	Endrin Aldehyde	7421-93-4	<0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
OCP	Endrin Ketone	53494-70-5	<0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
OCP	Hexachlorobenzene	118-74-1	<0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
OCP	Heptachlor Epoxide	1024-57-3	<0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
OCP	Heptachlor	76-44-8	<0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
OCP	BHC (gamma isomer) [Lindane]	58-89-9	<0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
OCP	Methoxychlor	72-43-5	<0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Analysis	Analyte	CAS #	LOR							
MS Total Metals	Arsenic	7440-38-2	<5	mg/kg	<5	<5	<5	<5	<5	<5
MS Total Metals	Cadmium	7440-43-9	<0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
MS Total Metals	Chromium	7440-47-3	~£	mg/kg	20	20	32	23	29	26
MS Total Metals	Copper	7440-50-8	<5	mg/kg	8	5	7	9	9	7
MS Total Metals	Lead	7439-92-1	<5	mg/kg	18	12	19	15	18	13
MS Total Metals	Mercury	7439-97-6	<0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
MS Total Metals	Molybdenum	7439-98-7	<5	mg/kg	<5	<5	<5	<5	<5	<5
MS Total Metals	Nickel	7440-02-0	<5	mg/kg	6	5	6	9	8	80
MS Total Metals	Selenium	7782-49-2	\$	mg/kg	<5	<5	<5	<5	<5	\$5

Page 10 of 40

Client: Douglas Partners Pty Ltd

Client Program Ref: 42662

Batch No: 10-03166

Report Number: 139871

Ecowise Program Ref: DOUGLAS



			San	mple No.	2056927	2056929	2056931	2056933	2056935	2056937
			Client Sá	ample ID	B13-1	B14-1	B15-1	B16-1	B17-1	B18-1
			Sam	nple Date	15/01/10	15/01/10	15/01/10	15/01/10	15/01/10	15/01/10
			Sam	ple Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
MS Total Metals	Silver	7440-22-4	<5 mg/k	by	<5	<5	<5	<5	<5	<5
MS Total Metals	Tin	7440-31-5	<5 mg/k	Ş	<5	<5	<5	<5	<5	<5
MS Total Metals	Zinc	7440-66-6	<5 mg/k	ę	16	8	13	8	11	6

Page 11 of 40

Client: Douglas Partners Pty Ltd

42662 Client Program Ref:

Report Number: 139871

Batch No: 10-03166

Ecowise Program Ref: DOUGLAS



Date Issued: 22-Jan-2010

LOR = Limit of reporting. When a reported LOR is higher than the standard LOR, this may be due to high moisture content, insufficient sample or matrix interference. CAS Number = Chemistry Abstract Services Number. The analytical procedures in this report (including in house methods) are developed from internationally recognised procedures such as those published by USEPA, APHA and NEPM.

	-						_					_	_		_	_		_	_	_	_	_	_	_								_			_
2056950	B24-2	15/01/10	SOIL																																
2056947	B23-1	15/01/10	SOIL																																
2056946	B22-2	15/01/10	SOIL																																
2056943	B21-1	15/01/10	SOIL																																
2056941	B20-1	15/01/10	SOIL																																
2056939	B19-1	15/01/10	SOIL		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Sample No.	ent Sample ID	Sample Date	Sample Type		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	ma/ka
	Ci			LOR	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	LOR	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
				CAS #	634-66-2	634-90-2	87-61-6	95-94-3	120-82-1	95-50-1	108-70-3	541-73-1	106-46-7	91-58-7	98-87-3	98-07-7	100-44-7	67-72-1	87-68-3	77-47-4	608-93-5	CAS #	630-20-6	79-34-5	75-34-3	75-35-4	563-58-6	96-18-4	96-12-8	540-59-0(cis)	540-59-0(trans)	107-06-2	78-87-5	142-28-9	10061-01-5
				Analyte	1,2,3,4-Tetrachlorobenzene	1,2,3,5-Tetrachlorbenzene	1,2,3-Trichlorobenzene	1,2,4,5-Tetrachlorobenzene	1,2,4-Trichlorobenzene	1,2-Dichlorobenzene	1,3,5-Trichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	2-Chloronaphthalene	Benzal Chloride	Benzotrichloride	Benzylchloride	Hexachloroethane	Hexachlorobutadiene	Hexachlorocyclopentadiene	Pentachlorobenzene	Analyte	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	1,1- Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichloropropane	1,2-Dibromo-3-Chloropropane	1,2-Dichloroethene [cis]	1,2-Dichloroethene [trans]	1,2-Dichloroethane	1,2-Dichloropropane	1,3-Dichloropropane	1.3-Dichloropropene [cis]
				Analysis	CHC	CHC	CHC	CHC	CHC	CHC	CHC	CHC	CHC	CHC	CHC	CHC	CHC	CHC	CHC	CHC	CHC	Analysis	HVOL	HVOL	HVOL	HVOL	HVOL	HVOL	HVOL	HVOL	HVOL	HVOL	HVOL	HVOL	HVOL

Ŭ	<i>lient:</i> Douglas Partners Pty Ltd			Report I	Vumber: 139871				N	onvice
Client Program Re	f: 42662			Ecowise Progr	am Ref. DOUGLAS	6				nvironmental
				Sample No.	2056939	2056941	2056943	2056946	2056947	2056950
			Clie	ent Sample ID	B19-1	B20-1	B21-1	B22-2	B23-1	B24-2
				Sample Date	15/01/10	15/01/10	15/01/10	15/01/10	15/01/10	15/01/10
				Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
HVOL	1,3-Dichloropropene [trans]	10061-02-6	<0.5	mg/kg	<0.5					
HVOL	2,2-Dichloropropane	594-20-7	<0.5	mg/kg	<0.5					
HVOL	2-Chlorotoluene	95-49-8	<0.5	mg/kg	<0.5					
HVOL	4-Chlorotoluene	106-43-4	<0.5	mg/kg	<0.5					
HVOL	Bromochloromethane	74-97-5	<0.5	mg/kg	<0.5					
HVOL	Bromodichloromethane	75-27-4	<0.5	mg/kg	<0.5					
HVOL	Bromobenzene	108-86-1	<0.5	mg/kg	<0.5					
HVOL	Bromoform (Tribromomethane)	75-25-2	<0.5	mg/kg	<0.5					
HVOL	Carbon Tetrachloride	56-23-5	<0.5	mg/kg	<0.5					
HVOL	Chloroform (Trichloromethane)	67-66-3	<0.5	mg/kg	<0.5					
HVOL	Chlorobenzene	108-90-7	<0.5	mg/kg	<0.5					
HVOL	Dibromochloromethane	124-48-1	<0.5	mg/kg	<0.5					
HVOL	Dibromoethane	74-95-3	<0.5	mg/kg	<0.5					
HVOL	1,2-Dibromoethane	106-93-4	<0.5	mg/kg	<0.5					
HVOL	Dichloromethane	75-09-2	ř	mg/kg	Ŷ					
HVOL	Trichlorofluoromethane (CFC11)	75-69-4	<2	mg/kg	<2					
HVOL	Tetrachloroethene	127-18-4	<0.5	mg/kg	<0.5					
HVOL	Vinyl Chloride (Monomer)	75-01-4	⊽	mg/kg	Ŷ					
HVOL	1,1,1.1-Trichloroethane	71-55-6	<0.5	mg/kg	<0.5					
HVOL	1,1,2-Trichloroethane	79-00-5	<0.5	mg/kg	<0.5					
HVOL	Trichloroethene	79-01-6	<0.5	mg/kg	<0.5					
Analysis	Analyte	CAS #	LOR							
MAH	Benzene	71-43-2	<0.5	mg/kg	<0.5					
MAH	Toluene	108-88-3	<0.5	mg/kg	<0.5					
MAH	Ethyl Benzene	100-41-4	<0.5	mg/kg	<0.5					
MAH	Xylenes	1330-20-7	<0.5	mg/kg	<0.5					
MAH	Styrene	100-42-5	<0.5	mg/kg	<0.5					
MAH	Cumene	98-82-8	<0.5	mg/kg	<0.5					
MAH	1,2,4-Trimethylbenzene	95-63-6	<0.5	mg/kg	<0.5					
Analysis	Analyte	CAS #	LOR							
OCP	BHC (alpha isomer)	319-84-6	<0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
ОСР	a-Endosulphan	959-98-8	<0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
ОСР	Aldrin	309-00-2	<0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
OCP	BHC (beta isomer)	319-85-7	<0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Batch No: 10-03166

Page 12 of 40

 $0 | \mathcal{M} | \not \supset | \mathcal{L}$

Page 13 of 40				Batch No: 10	-03166		Date Issued: 22-Ja	n-2010	
0	://ent: Douglas Partners Pty Ltd			Report Number: 139	871			u	Durice
Client Program R¢	əf: 42662		Ecowi	se Program Ref: DO	JGLAS			1	Environmental
			Sample	No. 2056939	2056941	2056943	2056946	2056947	2056950
			Client Sample	e ID B19-1	B20-1	B21-1	B22-2	B23-1	B24-2
			Sample L	late 15/01/10	15/01/10	15/01/10	15/01/10	15/01/10	15/01/10
			Sample T	ype SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
OCP	b-Endosulphan	33213-65-9	<0.05 mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
OCP	cis-Chlordane	5103-71-9	<0.05 mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
OCP	trans-Chlordane	5103-74-2	<0.05 mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
OCP	BHC (delta isomer)	319-86-8	<0.05 mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
OCP	DDD	72-54-8	<0.05 mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
OCP	DDE	72-55-9	<0.05 mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
OCP	DDT	50-29-3	<0.05 mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
OCP	Dieldrin	60-57-1	<0.05 mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
OCP	Endosulfan Sulfate	1031-07-8	<0.05 mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
OCP	Endrin	72-20-8	<0.05 mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
OCP	Endrin Aldehyde	7421-93-4	<0.05 mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
OCP	Endrin Ketone	53494-70-5	<0.05 mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
OCP	Hexachlorobenzene	118-74-1	<0.05 mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
OCP	Heptachlor Epoxide	1024-57-3	<0.05 mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
OCP	Heptachlor	76-44-8	<0.05 mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
OCP	BHC (gamma isomer) [Lindane]	58-89-9	<0.05 mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
OCP	Methoxychlor	72-43-5	<0.05 mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Analysis	Analyte	CAS #	LOR						
PAH	Acenaphthene	83-32-9	<0.1 mg/kg	<0.1					
PAH	Acenaphthylene	208-96-8	<0.1 mg/kg	<0.1					
PAH	Anthracene	120-12-7	<0.1 mg/kg	<0.1					
PAH	Benz(a)anthracene	56-55-3	<0.1 mg/kg	<0.1					
PAH	Benzo(a)pyrene	50-32-8	<0.1 mg/kg	<0.1					
PAH	Benzo(b)fluoranthene	205-99-2	<0.1 mg/kg	<0.1					
PAH	Benzo(g,h,i)perylene	191-24-2	<0.1 mg/kg	<0.1					
PAH	Benzo(k)fluoranthene	207-08-9	<0.1 mg/kg	<0.1					
PAH	Chrysene	218-01-9	<0.1 mg/kg	<0.1					
PAH	Dibenz(a,h)anthracene	53-70-3	<0.1 mg/kg	<0.1					
PAH	Fluoranthene	206-44-0	<0.1 mg/kg	<0.1					
PAH	Fluorene	86-73-7	<0.1 mg/kg	<0.1					
PAH	Indeno(1,2,3-cd)pyrene	193-39-5	<0.1 mg/kg	<0.1					
PAH	Naphthalene	91-20-3	<0.1 mg/kg	<0.1					
PAH	Phenanthrene	85-01-8	<0.1 mg/kg	<0.1					
PAH	Pyrene	129-00-0	<0.1 mg/kg	<0.1					

Page 14 of 40				Bat	ch No: 10-0316	9		Date Issued: 22-Jan	1-2010	
Ũ	<i>lient</i> : Douglas Partners Pty Ltd			Report	Number: 139871				H	Durice
Client Program Re	f: 42662			Ecowise Proç	gram Ref: DOUGLAS					Environmental
				Sample No.	2056939	2056941	2056943	2056946	2056947	2056950
			Clie	ent Sample ID	B19-1	B20-1	B21-1	B22-2	B23-1	B24-2
				Sample Date	15/01/10	15/01/10	15/01/10	15/01/10	15/01/10	15/01/10
				Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
PAH	Total PAH	TOTALPAH	<0.1	mg/kg	<0.1					
Analysis	Analyte	CAS #	LOR							
PCB	Aroclor 1016	12674-11-2	<0.1	mg/kg	<0.1					
PCB	Aroclor 1221	11104-28-2	<0.1	mg/kg	<0.1					
PCB	Aroclor 1232	11141-16-5	<0.1	mg/kg	<0.1					
PCB	Aroclor 1242	53469-21-9	<0.1	mg/kg	<0.1					
PCB	Aroclor 1248	12672-29-6	<0.1	mg/kg	<0.1					
PCB	Aroclor 1254	11097-69-1	<0.1	mg/kg	<0.1					
PCB	Aroclor 1260	11096-82-5	<0.1	mg/kg	<0.1					
PCB	Total PCB	1336-36-3	<0.1	mg/kg	<0.1					
Analysis	Analyte	CAS #	LOR							
Phenols(Halo)	4-Chloro-3-Methylphenol	59-50-7	<0.5	mg/kg	<0.5					
Phenols(Halo)	2-Chlorophenol	95-57-8	<0.5	mg/kg	<0.5					
Phenols(Halo)	2,4-Dichlorophenol	120-83-2	<0.5	mg/kg	<0.5					
Phenols(Halo)	2,6-Dichlorophenol	87-65-0	<0.5	mg/kg	<0.5					
Phenols(Halo)	Pentachlorophenol	87-86-5	<0.5	mg/kg	<0.5					
Phenols(Halo)	2,3,4,5-Tetrachlorophenol	4901-51-3	<0.5	mg/kg	<0.5					
Phenols(Halo)	2,3,4,6-Tetrachlorophenol	58-90-2	<0.5	mg/kg	<0.5					
Phenols(Halo)	2,3,5,6-Tetrachlorophenol	935-95-5	<0.5	mg/kg	<0.5					
Phenols(Halo)	2,4,5-Trichlorophenol	95-95-4	<0.5	mg/kg	<0.5					
Phenols(Halo)	2,4,6-Trichlorophenol	88-06-2	<0.5	mg/kg	<0.5					
Phenols(Halo)	Total Phenols (Halogenated)	64743-03-9(Hal	<0.5	mg/kg	<0.5					
Analysis	Analyte	CAS #	LOR							
Phenols(NonHalo)	Phenol	108-95-2	<0.5	mg/kg	<0.5					
Phenols(NonHalo)	Total Cresols	1319-77-3	v	mg/kg	⊽					
Phenols(NonHalo)	2,4-Dimethylphenol	105-67-9	<0.5	mg/kg	<0.5					
Phenols(NonHalo)	2,4-Dinitrophenol	51-28-5	<30	mg/kg	<30					
Phenols(NonHalo)	2-Methyl-4,6-Dinitrophenol	534-52-1	<10	mg/kg	<10					
Phenols(NonHalo)	2-Nitrophenol	88-75-5	<0.5	mg/kg	<0.5					
Phenols(NonHalo)	4-Nitrophenol	100-02-7	<0.5	mg/kg	<0.5					
Phenols(NonHalo)	2-Cyclohexyl-4,6-Dinitrophenol	131-89-5	<30	mg/kg	<30					
Phenols(NonHalo)	Dinoseb	88-85-7	<10	mg/kg	<10					
Phenols(NonHalo)	Total Phenols (non Halogenated)	64743-03-9(Non	<30	mg/kg	<30					
Analvsis	Analyte	CAS #	LOR							

_
4
ę
ŝ
6
ğ
ň

42662

Client Program Ref:

Report Number: 139871

Batch No: 10-03166

Ecowise Program Ref: DOUGLAS



				Sample No.	2056939	2056941	2056943	2056946	2056947	2056950
			Clie	int Sample ID	B19-1	B20-1	B21-1	B22-2	B23-1	B24-2
				Sample Date	15/01/10	15/01/10	15/01/10	15/01/10	15/01/10	15/01/10
				Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Tot Fluoride	Total Fluoride, as F	16984-48-8	<100	mg/kg	210					
Cyanide	Cyanide, as CN	57-12-5	<5	mg/kg	<5					
Total Cr 6+	Hexavalent Chromium (Total) Soil	18540-29-9	¥	mg/kg	Ÿ					
Analysis	Analyte	CAS #	LOR							
MS Total Metals	Arsenic	7440-38-2	<5	mg/kg	<5	<5	<5	<5	<5	₹2
MS Total Metals	Cadmium	7440-43-9	<0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	0.2	<0.2
MS Total Metals	Chromium	7440-47-3	<5	mg/kg		37	32	32	28	19
MS Total Metals	Copper	7440-50-8	₹2	mg/kg	11	ω	11	10	10	9
MS Total Metals	Lead	7439-92-1	<5	mg/kg	15	16	13	11	13	10
MS Total Metals	Mercury	7439-97-6	<0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
MS Total Metals	Molybdenum	7439-98-7	<5	mg/kg	<5	<5	<5	<5	<5	<5
MS Total Metals	Nickel	7440-02-0	<5	mg/kg	18	11	18	23	18	20
MS Total Metals	Selenium	7782-49-2	<5	mg/kg	<5	<5	<5	<5	<5	<5
MS Total Metals	Silver	7440-22-4	<5	mg/kg	<5	<5	<5	<5	<5	<5
MS Total Metals	Tin	7440-31-5	<5	mg/kg	<5	<5	<5	<5	<5	<5
MS Total Metals	Zinc	7440-66-6	<5	mg/kg	16	9	11	14	10	10
Analysis	Analyte	CAS #	LOR							
ТРН	Petroleum Hydrocarbons (C6-C9)	TPHC6_C9	<20	mg/kg	<20					
ТРН	Petroleum Hydrocarbons (C10-C14)	TPHC10_C14	<20	mg/kg	<20					
TPH	Petroleum Hydrocarbons (C15-C28)	TPHC15_C28	<50	mg/kg	<50					
TPH	Petroleum Hydrocarbons (C29-C36)	TPHC29_C36	<50	mg/kg	<50					

2
7
8
<u>`</u> _
Ř
ğ
à

42662 Client Program Ref:

Batch No: 10-03166 Report Number: 139871 Ecowise Program Ref: DOUGLAS

Date Issued: 22-Jan-2010

LOR = Limit of reporting. When a reported LOR is higher than the standard LOR, this may be due to high moisture content, insufficient sample or matrix interference.

CAS Number = Chemistry Abstract Services Number. The analytical procedures in this report (including in house methods) are developed from internationally recognised procedures such as those published by USEPA, APHA and NEPM.

				Sample No.	2056951	2056953	
			Cli	ent Sample ID	B25-1	DUP1	
				Sample Date	15/01/10	15/01/10	
				Sample Type	SOIL	SOIL	
Analysis	Analyte	CAS #	LOR				
CHC	1,2,3,4-Tetrachlorobenzene	634-66-2	<0.1	mg/kg	<0.1		
CHC	1,2,3,5-Tetrachlorbenzene	634-90-2	<0.1	mg/kg	<0.1		
CHC	1,2,3-Trichlorobenzene	87-61-6	<0.1	mg/kg	<0.1		
CHC	1,2,4,5-Tetrachlorobenzene	95-94-3	<0.1	mg/kg	<0.1		
CHC	1,2,4-Trichlorobenzene	120-82-1	<0.1	mg/kg	<0.1		
CHC	1,2-Dichlorobenzene	95-50-1	<0.1	mg/kg	<0.1		
CHC	1,3,5-Trichlorobenzene	108-70-3	<0.1	mg/kg	<0.1		
CHC	1,3-Dichlorobenzene	541-73-1	<0.1	mg/kg	<0.1		
CHC	1,4-Dichlorobenzene	106-46-7	<0.1	mg/kg	<0.1		
CHC	2-Chloronaphthalene	91-58-7	<0.1	mg/kg	<0.1		
CHC	Benzal Chloride	98-87-3	<0.1	mg/kg	<0.1		
CHC	Benzotrichloride	98-07-7	<0.1	mg/kg	<0.1		
CHC	Benzylchloride	100-44-7	<0.1	mg/kg	<0.1		
CHC	Hexachloroethane	67-72-1	<0.1	mg/kg	<0.1		
CHC	Hexachlorobutadiene	87-68-3	<0.1	mg/kg	<0.1		
CHC	Hexachlorocyclopentadiene	77-47-4	<0.1	mg/kg	<0.1		
CHC	Pentachlorobenzene	608-93-5	<0.1	mg/kg	<0.1		
Analysis	Analyte	CAS #	LOR				
HVOL	1,1,1,2-Tetrachloroethane	630-20-6	<0.5	mg/kg	<0.5		
HVOL	1,1,2,2-Tetrachloroethane	79-34-5	<0.5	mg/kg	<0.5		
HVOL	1,1- Dichloroethane	75-34-3	<0.5	mg/kg	<0.5		
HVOL	1,1-Dichloroethene	75-35-4	<0.5	mg/kg	<0.5		
HVOL	1,1-Dichloropropene	563-58-6	<0.5	mg/kg	<0.5		
HVOL	1,2,3-Trichloropropane	96-18-4	<0.5	mg/kg	<0.5		
HVOL	1,2-Dibromo-3-Chloropropane	96-12-8	<0.5	mg/kg	<0.5		
HVOL	1,2-Dichloroethene [cis]	540-59-0(cis)	<0.5	mg/kg	<0.5		
HVOL	1,2-Dichloroethene [trans]	540-59-0(trans)	<0.5	mg/kg	<0.5		
HVOL	1,2-Dichloroethane	107-06-2	<0.5	mg/kg	<0.5		
HVOL	1,2-Dichloropropane	78-87-5	<0.5	mg/kg	<0.5		
HVOL	1,3-Dichloropropane	142-28-9	<0.5	mg/kg	<0.5		
HVOL	1,3-Dichloropropene [cis]	10061-01-5	<0.5	mg/kg	<0.5		

Page 17 of 40

Client: Douglas Partners Pty Ltd

42662

Client Program Ref:

Batch No: 10-03166

Report Number: 139871

Ecowise Program Ref: DOUGLAS

Date Issued: 22-Jan-2010

				Sample No.	2056951	2056953
			CI	ent Sample ID	B25-1	DUP1
				Sample Date	15/01/10	15/01/10
				Sample Type	SOIL	SOIL
IVOL	1,3-Dichloropropene [trans]	10061-02-6	<0.5	mg/kg	<0.5	
TOL	2,2-Dichloropropane	594-20-7	<0.5	mg/kg	<0.5	
HVOL	2-Chlorotoluene	95-49-8	<0.5	mg/kg	<0.5	
HVOL	4-Chlorotoluene	106-43-4	<0.5	mg/kg	<0.5	
HVOL	Bromochloromethane	74-97-5	<0.5	mg/kg	<0.5	
HVOL	Bromodichloromethane	75-27-4	<0.5	mg/kg	<0.5	
HVOL	Bromobenzene	108-86-1	<0.5	mg/kg	<0.5	
HVOL	Bromoform (Tribromomethane)	75-25-2	<0.5	mg/kg	<0.5	
HVOL	Carbon Tetrachloride	56-23-5	<0.5	mg/kg	<0.5	
HVOL	Chloroform (Trichloromethane)	67-66-3	<0.5	mg/kg	<0.5	
HVOL	Chlorobenzene	108-90-7	<0.5	mg/kg	<0.5	
HVOL	Dibromochloromethane	124-48-1	<0.5	mg/kg	<0.5	
HVOL	Dibromomethane	74-95-3	<0.5	mg/kg	<0.5	
HVOL	1,2-Dibromoethane	106-93-4	<0.5	mg/kg	<0.5	
HVOL	Dichloromethane	75-09-2	v	mg/kg	⊽	
IVOL	Trichlorofluoromethane (CFC11)	75-69-4	42	mg/kg	~2	
IVOL	Tetrachloroethene	127-18-4	<0.5	mg/kg	<0.5	
HVOL	Vinyl Chloride (Monomer)	75-01-4	Ÿ	mg/kg	~	
TOL	1,1,1-Trichloroethane	71-55-6	<0.5	mg/kg	<0.5	
HVOL	1,1,2-Trichloroethane	79-00-5	<0.5	mg/kg	<0.5	
HVOL	Trichloroethene	79-01-6	<0.5	mg/kg	<0.5	
nalysis	Analyte	CAS #	LOR			
ИАН	Benzene	71-43-2	<0.5	mg/kg	<0.5	
ААН	Toluene	108-88-3	<0.5	mg/kg	<0.5	
AAH	Ethyl Benzene	100-41-4	<0.5	mg/kg	<0.5	
ЛАН	Xylenes	1330-20-7	<0.5	mg/kg	<0.5	
ААН	Styrene	100-42-5	<0.5	mg/kg	<0.5	
AAH	Cumene	98-82-8	<0.5	mg/kg	<0.5	
AAH	1,2,4-Trimethylbenzene	95-63-6	<0.5	mg/kg	<0.5	
nalysis	Analyte	CAS #	LOR			
DCP	BHC (alpha isomer)	319-84-6	<0.05	mg/kg	<0.05	<0.05
)CP	a-Endosulphan	959-98-8	<0.05	mg/kg	<0.05	<0.05
DCP	Aldrin	309-00-2	<0.05	mg/kg	<0.05	<0.05
DCP	BHC (beta isomer)	319-85-7	<0.05	mg/kg	<0.05	<0.05

Page 18 of 40

Client: Douglas Partners Pty Ltd

42662

Client Program Ref:

Batch No: 10-03166

Report Number: 139871

Ecowise Program Ref: DOUGLAS

Date Issued: 22-Jan-2010

				Sample No.	2056951	2056953	
			Clie	ent Sample ID	B25-1	DUP1	
				Sample Date	15/01/10	15/01/10	
				Sample Type	SOIL	SOIL	
OCP	b-Endosulphan	33213-65-9	<0.05	mg/kg	<0.05	<0.05	
OCP	cis-Chlordane	5103-71-9	<0.05	mg/kg	<0.05	<0.05	
OCP	trans-Chlordane	5103-74-2	<0.05	mg/kg	<0.05	<0.05	
OCP	BHC (delta isomer)	319-86-8	<0.05	mg/kg	<0.05	<0.05	
OCP	DDD	72-54-8	<0.05	mg/kg	<0.05	<0.05	
OCP	DDE	72-55-9	<0.05	mg/kg	<0.05	<0.05	
OCP	DDT	50-29-3	<0.05	mg/kg	<0.05	<0.05	
OCP	Dieldrin	60-57-1	<0.05	mg/kg	<0.05	<0.05	
OCP	Endosulfan Sulfate	1031-07-8	<0.05	mg/kg	<0.05	<0.05	
OCP	Endrin	72-20-8	<0.05	mg/kg	<0.05	<0.05	
OCP	Endrin Aldehyde	7421-93-4	<0.05	mg/kg	<0.05	<0.05	
OCP	Endrin Ketone	53494-70-5	<0.05	mg/kg	<0.05	<0.05	
OCP	Hexachlorobenzene	118-74-1	<0.05	mg/kg	<0.05	<0.05	
OCP	Heptachlor Epoxide	1024-57-3	<0.05	mg/kg	<0.05	<0.05	
OCP	Heptachlor	76-44-8	<0.05	mg/kg	<0.05	<0.05	
OCP	BHC (gamma isomer) [Lindane]	58-89-9	<0.05	mg/kg	<0.05	<0.05	
OCP	Methoxychlor	72-43-5	<0.05	mg/kg	<0.05	<0.05	
Analysis	Analyte	CAS #	LOR				
PAH	Acenaphthene	83-32-9	<0.1	mg/kg	<0.1		
PAH	Acenaphthylene	208-96-8	<0.1	mg/kg	<0.1		
PAH	Anthracene	120-12-7	<0.1	mg/kg	<0.1		
PAH	Benz(a)anthracene	56-55-3	<0.1	mg/kg	<0.1		
PAH	Benzo(a)pyrene	50-32-8	<0.1	mg/kg	<0.1		
PAH	Benzo(b)fluoranthene	205-99-2	<0.1	mg/kg	<0.1		
PAH	Benzo(g,h,i)perylene	191-24-2	<0.1	mg/kg	<0.1		
PAH	Benzo(k)fluoranthene	207-08-9	<0.1	mg/kg	<0.1		
PAH	Chrysene	218-01-9	<0.1	mg/kg	<0.1		
PAH	Dibenz(a,h)anthracene	53-70-3	<0.1	mg/kg	<0.1		
PAH	Fluoranthene	206-44-0	<0.1	mg/kg	<0.1		
PAH	Fluorene	86-73-7	<0.1	mg/kg	<0.1		
PAH	Indeno(1,2,3-cd)pyrene	193-39-5	<0.1	mg/kg	<0.1		
PAH	Naphthalene	91-20-3	<0.1	mg/kg	<0.1		
PAH	Phenanthrene	85-01-8	<0.1	mg/kg	<0.1		
PAH	Pyrene	129-00-0	<0.1	mg/kg	<0.1		

Page 19 of 40

Client: Douglas Partners Pty Ltd

42662

Client Program Ref:

Batch No: 10-03166

Report Number: 139871

Ecowise Program Ref: DOUGLAS



Date Issued: 22-Jan-2010

, 30 430

mg/kg mg/kg

ŝ

131-89-5

30 ⁴0

88-85-7

ଞ ୧୪

LOR

CAS #

64743-03-9(Non

Total Phenols (non Halogenated)

Analyte

Analysis

Dinoseb

2-Cyclohexyl-4,6-Dinitrophenol

Phenols(NonHalo) Phenols(NonHalo) Phenols(NonHalo)

Page 20 of 40

Client: Douglas Partners Pty Ltd

42662

Client Program Ref:

Batch No: 10-03166

Report Number: 139871

Ecowise Program Ref: DOUGLAS

Date Issued: 22-Jan-2010

				Sample No.	2056951	2056953
			Clie	ent Sample ID	B25-1	DUP1
				Sample Date	15/01/10	15/01/10
				Sample Type	SOIL	SOIL
Tot Fluoride	Total Fluoride, as F	16984-48-8	<100	mg/kg	170	
Cyanide	Cyanide, as CN	57-12-5	<5	mg/kg	<5	
Total Cr 6+	Hexavalent Chromium (Total) Soil	18540-29-9	ž	mg/kg	Ÿ	
Analysis	Analyte	CAS #	LOR			
MS Total Metals	Arsenic	7440-38-2	<5	mg/kg	<5	<5
MS Total Metals	Cadmium	7440-43-9	<0.2	mg/kg	<0.2	<0.2
MS Total Metals	Chromium	7440-47-3	<5	mg/kg		25
MS Total Metals	Copper	7440-50-8	<5	mg/kg	9	9
MS Total Metals	Lead	7439-92-1	<5	mg/kg	13	18
MS Total Metals	Mercury	7439-97-6	<0.05	mg/kg	<0.05	<0.05
MS Total Metals	Molybdenum	7439-98-7	<5	mg/kg	<5	<5
MS Total Metals	Nickel	7440-02-0	<5	mg/kg	8	7
MS Total Metals	Selenium	7782-49-2	<5	mg/kg	<5	<5
MS Total Metals	Silver	7440-22-4	<5	mg/kg	<5	<5
MS Total Metals	Tin	7440-31-5	<5	mg/kg	<5	<5
MS Total Metals	Zinc	7440-66-6	<5	mg/kg	8	17
Analysis	Analyte	CAS #	LOR			
TPH	Petroleum Hydrocarbons (C6-C9)	TPHC6_C9	<20	mg/kg	<20	
TPH	Petroleum Hydrocarbons (C10-C14)	TPHC10_C14	<20	mg/kg	<20	
TPH	Petroleum Hydrocarbons (C15-C28)	TPHC15_C28	<50	mg/kg	<50	
ТРН	Petroleum Hydrocarbons (C29-C36)	TPHC29_C36	<50	mg/kg	77	

Page 21 of 40

Client: Douglas Partners Pty Ltd

Client Program Ref: 42662

Batch No: 10-03166 Report Number: 139871 Ecowise Program Ref: DOUGLAS

Date Issued: 22-Jan-2010

QUALITY CONTROL - BLANKS

QC Blanks are an 'analyte free' matrix in which all applicable reagents have been added in the same proportion as in standard samples and are an internal monitor for laboratory contamination.

					Value
Lab Sample ID	Client Sample ID	Analysis	Analyte		
2057257	QC - Blank	Tot Fluoride	Total Fluoride, as F	mg/kg	<100
2058999	QC - Blank	Total Cr 6+	Hexavalent Chromium (Total) Soil	mg/kg	2
Lab Sample ID	Client Sample ID	Analysis	Analyte		
2059956	QC - Blank	MS Total Metals	Arsenic	mg/kg	<5
2059956	QC - Blank	MS Total Metals	Cadmium	mg/kg	<0.2
2059956	QC - Blank	MS Total Metals	Chromium	mg/kg	<5
2059956	QC - Blank	MS Total Metals	Copper	mg/kg	<5
2059956	QC - Blank	MS Total Metals	Lead	mg/kg	<5
2059956	QC - Blank	MS Total Metals	Mercury	mg/kg	<0.05
2059956	QC - Blank	MS Total Metals	Molybdenum	mg/kg	<5
2059956	QC - Blank	MS Total Metals	Nickel	mg/kg	<5
2059956	QC - Blank	MS Total Metals	Selenium	mg/kg	<5
2059956	QC - Blank	MS Total Metals	Silver	mg/kg	<5
2059956	QC - Blank	MS Total Metals	Tin	mg/kg	<5
2059956	QC - Blank	MS Total Metals	Zinc	mg/kg	<5
2059964	QC - Blank	MS Total Metals	Arsenic	mg/kg	<5
2059964	QC - Blank	MS Total Metals	Cadmium	mg/kg	<0.2
2059964	QC - Blank	MS Total Metals	Chromium	mg/kg	<5
2059964	QC - Blank	MS Total Metals	Copper	mg/kg	5
2059964	QC - Blank	MS Total Metals	Lead	mg/kg	<5
2059964	QC - Blank	MS Total Metals	Mercury	mg/kg	<0.05
2059964	QC - Blank	MS Total Metals	Molybdenum	mg/kg	<5
2059964	QC - Blank	MS Total Metals	Nickel	mg/kg	<5
2059964	QC - Blank	MS Total Metals	Selenium	mg/kg	<5
2059964	QC - Blank	MS Total Metals	Silver	mg/kg	<5
2059964	QC - Blank	MS Total Metals	Tin	mg/kg	<5
2059964	QC - Blank	MS Total Metals	Zinc	mg/kg	<5
Lab Sample ID	Client Sample ID	Analysis	Analyte		
2059810	QC - Blank	MAH	Benzene	mg/kg	<0.5
2059810	QC - Blank	MAH	Toluene	mg/kg	<0.5
2059810	QC - Blank	MAH	Ethyl Benzene	mg/kg	<0.5

Page 22 of 40

Client: Douglas Partners Pty Ltd

42662

Client Program Ref:

Batch No: 10-03166

Report Number: 139871

Ecowise Program Ref: DOUGLAS

Date Issued: 22-Jan-2010

					Value
2059810	QC - Blank	MAH	Xylenes	mg/kg	<0.5
2059810	QC - Blank	MAH	Styrene	mg/kg	<0.5
2059810	QC - Blank	MAH	Cumene	mg/kg	<0.5
2059810	QC - Blank	MAH	1,2,4-Trimethylbenzene	mg/kg	<0.5
Lab Sample ID	Client Sample ID	Analysis	Analyte		
2060011	QC - Blank	TPH	Petroleum Hydrocarbons (C6-C9)	mg/kg	<20
2060011	QC - Blank	Н	Petroleum Hydrocarbons (C10-C14)	mg/kg	<20
2060011	QC - Blank	TPH	Petroleum Hydrocarbons (C15-C28)	mg/kg	<50
2060011	QC - Blank	TPH	Petroleum Hydrocarbons (C29-C36)	mg/kg	<50
Lab Sample ID	Client Sample ID	Analysis	Analyte		
2059702	QC - Blank	PAH	Acenaphthene	mg/kg	<0.1
2059702	QC - Blank	PAH	Acenaphthylene	mg/kg	<0.1
2059702	QC - Blank	PAH	Anthracene	mg/kg	<0.1
2059702	QC - Blank	PAH	Benz(a)anthracene	mg/kg	<0.1
2059702	QC - Blank	PAH	Benzo(a)pyrene	mg/kg	<0.1
2059702	QC - Blank	PAH	Benzo(b)fluoranthene	mg/kg	<0.1
2059702	QC - Blank	PAH	Benzo(g,h,i)perylene	mg/kg	<0.1
2059702	QC - Blank	PAH	Benzo(k)fluoranthene	mg/kg	<0.1
2059702	QC - Blank	PAH	Chrysene	mg/kg	<0.1
2059702	QC - Blank	PAH	Dibenz(a,h)anthracene	mg/kg	<0.1
2059702	QC - Blank	PAH	Fluoranthene	mg/kg	<0.1
2059702	QC - Blank	PAH	Fluorene	mg/kg	<0.1
2059702	QC - Blank	PAH	Indeno(1,2,3-cd)pyrene	mg/kg	<0.1
2059702	QC - Blank	PAH	Naphthalene	mg/kg	<0.1
2059702	QC - Blank	PAH	Phenanthrene	mg/kg	<0.1
2059702	QC - Blank	PAH	Pyrene	mg/kg	<0.1
2059702	QC - Blank	PAH	Total PAH	mg/kg	<0.1
2061311	QC - Blank	PAH	Acenaphthene	mg/kg	<0.1
2061311	QC - Blank	PAH	Acenaphthylene	mg/kg	<0.1
2061311	QC - Blank	PAH	Anthracene	mg/kg	<0.1
2061311	QC - Blank	PAH	Benz(a)anthracene	mg/kg	<0.1
2061311	QC - Blank	PAH	Benzo(a)pyrene	mg/kg	<0.1
2061311	QC - Blank	PAH	Benzo(b)fluoranthene	mg/kg	<0.1
2061311	QC - Blank	PAH	Benzo(g,h,i)perylene	mg/kg	<0.1
2061311	QC - Blank	PAH	Benzo(k)fluoranthene	mg/kg	<0.1
2061311	QC - Blank	PAH	Chrysene	mg/kg	<0.1
2061311	QC - Blank	PAH	Dibenz(a,h)anthracene	mg/kg	<0.1

Page 23 of 40

Client: Douglas Partners Pty Ltd

42662

Client Program Ref:

Batch No: 10-03166

Report Number: 139871

Ecowise Program Ref: DOUGLAS

Date Issued: 22-Jan-2010

2061311	QC - Blank	PAH	Fluoranthene	mg/kg	<0.1
2061311	QC - Blank	PAH	Fluorene	mg/kg	<0.1
2061311	QC - Blank	PAH	Indeno(1,2,3-cd)pyrene	mg/kg	<0.1
2061311	QC - Blank	PAH	Naphthalene	mg/kg	<0.1
2061311	QC - Blank	PAH	Phenanthrene	mg/kg	<0.1
2061311	QC - Blank	PAH	Pyrene	mg/kg	<0.1
2061311	QC - Blank	PAH	Total PAH	mg/kg	<0.1
Lab Sample II	D Client Sample ID	Analysis	Analyte		
2060055	QC - Blank	OCP	BHC (alpha isomer)	mg/kg	<0.05
2060055	QC - Blank	OCP	a-Endosulphan	mg/kg	<0.05 20.05
2060055	QC - Blank	OCP	Aldrin	mg/kg	¥0.0≻
2060055	QC - Blank	OCP	BHC (beta isomer)	mg/kg	<0.05
2060055	QC - Blank	OCP	b-Endosulphan	mg/kg	<0.05 20.05
2060055	QC - Blank	OCP	cis-Chlordane	mg/kg	¥0.0≻
2060055	QC - Blank	OCP	trans-Chlordane	mg/kg	<0.05
2060055	QC - Blank	OCP	BHC (delta isomer)	mg/kg	\$0.0¥
2060055	QC - Blank	OCP	DDD	mg/kg	<0.05
2060055	QC - Blank	OCP	DDE	mg/kg	<0.05
2060055	QC - Blank	OCP	DDT	mg/kg	<0.05
2060055	QC - Blank	OCP	Dieldrin	mg/kg	<0.05
2060055	QC - Blank	OCP	Endosulfan Sulfate	mg/kg	<0.05
2060055	QC - Blank	OCP	Endrin	mg/kg	<0.05
2060055	QC - Blank	OCP	Endrin Aldehyde	mg/kg	<0.0>
2060055	QC - Blank	OCP	Endrin Ketone	mg/kg	<0.05
2060055	QC - Blank	OCP	Hexachlorobenzene	mg/kg	×0.0
2060055	QC - Blank	OCP	Heptachlor Epoxide	mg/kg	×0.0
2060055	QC - Blank	OCP	Heptachlor	mg/kg	<0.0
2060055	QC - Blank	OCP	BHC (gamma isomer) [Lindane]	mg/kg	<0.0>
2060055	QC - Blank	OCP	Methoxychlor	mg/kg	<0.0>
2061310	QC - Blank	OCP	BHC (alpha isomer)	mg/kg	<0.05
2061310	QC - Blank	OCP	a-Endosulphan	mg/kg	<0 [.] 0>
2061310	QC - Blank	OCP	Aldrin	mg/kg	<0.05
2061310	QC - Blank	OCP	BHC (beta isomer)	mg/kg	<0.05
2061310	QC - Blank	OCP	b-Endosulphan	mg/kg	<0 [.] 0>
2061310	QC - Blank	OCP	cis-Chlordane	mg/kg	<0.0
2061310	QC - Blank	OCP	trans-Chlordane	mg/kg	<0.0>
				:	

Page 24 of 40

Client: Douglas Partners Pty Ltd

42662

Client Program Ref:

Batch No: 10-03166

Report Number: 139871

Ecowise Program Ref: DOUGLAS

Date Issued: 22-Jan-2010

2061310 0C Blank 0CP DDD 2061310 0C Blank 0CP DDT 2061310 0C Blank 0CP Endolu 2061312 0C Blank PCB Anodor 2063707 0C Blank PCB Anodor 2063112 0C Blank PCB Anodor						
2061310 0C - Blank 0CP DDT 2061310 0C - Blank 0CP DDI 2061310 0C - Blank 0CP Dieldrin 2061310 0C - Blank 0CP Endrin 2061310 0C - Blank 0CP Herach 2061310 0C - Blank 0CP Herach 2061310 0C - Blank 0CP Methon 2061310 0C - Blank 0CP Methon 2061310 0C - Blank Nochon Nochon 2061310 0C - Blank Nochon Nochon 2061310 0C - Blank Nochon Nochon 2061311 0C - Blank Nochon Nochon 2061312 0C - Blank Nochon Nochon 2061311 <t< td=""><td>2061310</td><td>QC - Blank</td><td>OCP</td><td>DDD</td><td>mg/kg</td><td><0.05</td></t<>	2061310	QC - Blank	OCP	DDD	mg/kg	<0.05
2061310 0CC Blank 0CP DDT 2061310 0C - Blank 0CP Dieldin 2061310 0C - Blank 0CP Endin 2061310 0C - Blank 0CP Hepach 2061310 0C - Blank 0CP Merbon 2061310 0C - Blank 0CP Arodor 2061310 0C - Blank NCB Arodor 2061310 0C - Blank PCB Arodor 2061312 0C - Blank PCB Arodor 2063707 0C - Blank PCB Arodor 2063111 0C - Blank PCB Arodor 2063112 0C - Blank	2061310	QC - Blank	OCP	DDE	mg/kg	<0.05
2061310 CC - Blank OCP Dieldin 2061310 CC - Blank OCP Endin 2061310 CC - Blank OCP Hexach 2061310 CC - Blank OCP Anologi 2061310 CC - Blank CCP Anologi 2061312 CC - Blank CCB Anologi 2061312 CC - Bla	2061310	QC - Blank	OCP	DDT	mg/kg	<0.05
2061310 CC - Blank OCP Endin 2061310 CC - Blank OCP Hexach 2061310 CC - Blank OCP Analytic 2061310 CC - Blank OCP Anodor 205977 CC - Blank PCB Anodor 205977 CC - Blank	2061310	QC - Blank	OCP	Dieldrin	mg/kg	<0.05
2061310 CC - Blank OCP Endiin 2061310 CC - Blank OCP Endiin / Endiin 2061310 CC - Blank OCP Endiin / Endiin 2061310 CC - Blank OCP Endiin / Endiin 2061310 CC - Blank OCP Hexach 2061310 CC - Blank OCP Anolor 2061310 CC - Blank PCB Anolor 2069707 CC - Blank PCB Anolor 2061312	2061310	QC - Blank	OCP	Endosulfan Sulfate	mg/kg	<0.05
2061310 QC - Blank OCP Endrin A 2061310 QC - Blank OCP Endrin A 2061310 QC - Blank OCP Hexachi 2061310 QC - Blank OCP Hexachi 2061310 QC - Blank OCP Heptach 2061310 QC - Blank OCP Heptach 2061310 QC - Blank OCP BHC (gr 2061310 QC - Blank OCP BHC (gr 2061310 QC - Blank OCP Analysis Analysis 2069707 QC - Blank PCB Anodor Anodor 2059707 QC - Blank PCB Anodor 20517 205112 QC - Blank PCB Anodor	2061310	QC - Blank	OCP	Endrin	mg/kg	<0.05
2061310 QC - Blank OCP Endrin K 2061310 QC - Blank OCP Hexachl 2061310 QC - Blank OCP Hexachl 2061310 QC - Blank OCP Hexachl 2061310 QC - Blank OCP Heptach 2061310 QC - Blank OCP Heptach 2061310 QC - Blank OCP BHC (gr 2061310 QC - Blank OCP BHC (gr 2061310 QC - Blank OCP Arodor 205977 QC - Blank PCB Arodor 2061312 QC - Blank PCB Arodor 2061312 QC - Bl	2061310	QC - Blank	OCP	Endrin Aldehyde	mg/kg	<0.05
2061310 QC - Blank OCP Hexach 2061310 QC - Blank OCP Heptach 2061310 QC - Blank OCP Heptach 2061310 QC - Blank OCP BHC (ge 2061310 QC - Blank OCP BHC (ge 2061310 QC - Blank OCP BHC (ge 2069707 QC - Blank OCP Analysis Analysis 2059707 QC - Blank PCB Aroclor Aroclor 2059707 QC - Blank PCB Aroclor 2059710 </td <td>2061310</td> <td>QC - Blank</td> <td>OCP</td> <td>Endrin Ketone</td> <td>mg/kg</td> <td><0.05</td>	2061310	QC - Blank	OCP	Endrin Ketone	mg/kg	<0.05
2061310 CC- Blank OCP Heptach 2061310 CC- Blank OCP Heptach 2061310 CC- Blank OCP BHC (gr 2061310 CC- Blank OCP BHC (gr 2061310 CC- Blank OCP Methoxy 2061310 CC- Blank OCP Methoxy 2059707 CC- Blank PCB Aroclor 20501312 CC- Blan	2061310	QC - Blank	OCP	Hexachlorobenzene	mg/kg	<0.05
2061310 QC - Blank OCP Heptach 2061310 QC - Blank OCP BHC (gr 2061310 QC - Blank OCP Methoxy 2061310 QC - Blank OCP Methoxy 2059707 QC - Blank PCB Anolycis 2059707 QC - Blank PCB Anoclor 2051312 QC - Blank PCB Anoclor 2051312 QC - Blank PCB Anoclor 2061312 QC - Blank PCB Anoclor 2061312	2061310	QC - Blank	OCP	Heptachlor Epoxide	mg/kg	<0.05
2061310 QC - Blank OCP BHC (ge 2061310 QC - Blank OCP Methoxy Lab Sample ID Cient Sample ID Analysis Analytis 2059707 QC - Blank PCB Anoclor 205112 QC - Blank PCB Anoclor 2061312 QC - Blank PCB Anoclor 2061312 QC - Blank PCB Anoclor 2061312 QC - Blank PCB Anoclor 2	2061310	QC - Blank	OCP	Heptachlor	mg/kg	<0.05
2061310 QC - Blank OCP Methoxy Lab Sample ID Client Sample ID Analysis Analysis Analysis 2059707 QC - Blank PCB Aroclor Aroclor 2059707 QC - Blank PCB Aroclor 2061312 QC - Blank PCB Aroclor 2061312 </td <td>2061310</td> <td>QC - Blank</td> <td>OCP</td> <td>BHC (gamma isomer) [Lindane]</td> <td>mg/kg</td> <td><0.05</td>	2061310	QC - Blank	OCP	BHC (gamma isomer) [Lindane]	mg/kg	<0.05
Lab Sample ID Client Sample ID Analysis Analysis 2059707 QC - Blank PCB Aroclor 205112 QC - Blank PCB Aroclor 2061312 QC - Blank PCB Aroclor	2061310	QC - Blank	OCP	Methoxychlor	mg/kg	<0.05
2059707 QC - Blank PCB Arodor 2051312 QC - Blank PCB Arodor 2061312 QC - Blan	Lab Sample ID	Client Sample ID	Analysis	Analyte		
2059707 QC - Blank PCB Aroclor 2051312 QC - Blank PCB Aroclor 2051312 QC - Blank PCB Aroclor 2061312	2059707	QC - Blank	PCB	Aroclor 1016	mg/kg	<0.1
2059707 QC - Blank PCB Arodor 2051312 QC - Blank PCB Arodor 2061312 QC - Blan	2059707	QC - Blank	PCB	Arodor 1221	mg/kg	<0.1
2059707 QC - Blank PCB Arodor 2051312 QC - Blank PCB Arodor 2061312 QC - Blank PCB Arodor 2069710 QC - Blan	2059707	QC - Blank	PCB	Arodor 1232	mg/kg	<0.1
2059707 QC - Blank PCB Arodor 2059717 QC - Blank PCB Arodor 2061312 QC - Blank PCB Arodor 2069710 QC - Blan	2059707	QC - Blank	PCB	Aroclor 1242	mg/kg	<0.1
2059707 QC - Blank PCB Arodor 2061312 QC - Blank PCB Arodor 2069710 QC - Blank PCB Arodor 2059710 QC - Blank CHC 1,2,3,4. 2059710 QC - Bl	2059707	QC - Blank	PCB	Aroclor 1248	mg/kg	<0.1
2059707 QC - Blank PCB Arodor 205977 QC - Blank PCB Total PC 2061312 QC - Blank PCB Arodor 2069710 QC - Blank PCB Arodor 2059710 QC - Blank CHC 1,2,3,4- 2059710 QC - B	2059707	QC - Blank	PCB	Aroclor 1254	mg/kg	<0.1
2059707 QC - Blank PCB Total PC 2061312 QC - Blank PCB Aroclor 2059710 QC - Blank CHC 1,2,3,4- 2059710 QC - Blank CHC 1,2,3,4- 2059710 QC - Blank CHC 1,2,4,4- 2059710	2059707	QC - Blank	PCB	Aroclor 1260	mg/kg	<0.1
2061312 QC - Blank PCB Arodor 2063710 QC - Blank PCB Arodor 2069710 QC - Blank CHC 1,2,3,4- 2059710 QC - Blank CHC 1,2,4,5- 2059710 QC - Blank CHC 1,2,4,5- 2059710 QC - Blank CHC 1,2,4,5- 2059710 Q	2059707	QC - Blank	PCB	Total PCB	mg/kg	<0.1
2061312 QC - Blank PCB Arodor 2063710 QC - Blank CHC 1,2,3,4- 2059710 QC - Blank CHC 1,2,3,4- 2059710 QC - Blank CHC 1,2,4,5- 2059710 QC - Blank CHC 1,2,4,5- 2059710 QC - Blank CHC 1,2,4,5-	2061312	QC - Blank	PCB	Aroclor 1016	mg/kg	<0.1
2061312 QC - Blank PCB Arodor 2063710 QC - Blank CHC 1,2,3,4- 2059710 QC - Blank CHC 1,2,3,5- 2059710 QC - Blank CHC 1,2,3,5- 2059710 QC - Blank CHC 1,2,3,5- 2059710 QC - Blank CHC 1,2,4,5- 2059710 QC - Blank CHC 1,2,4,5-	2061312	QC - Blank	PCB	Arodor 1221	mg/kg	<0.1
2061312 QC - Blank PCB Arodor 2063710 QC - Blank PCB Analysis Analysis 2059710 QC - Blank CHC 1,2,3,4- 2,3,4- 2059710 QC - Blank CHC 1,2,3,4- 2,2,5- 2059710 QC - Blank CHC 1,2,3,4- 2,2,5- 2059710 QC - Blank CHC 1,2,3,4- 2,2,4- 2059710 QC - Blank CHC 1,2,3,4- 2,2,4,5- 2059710 QC - Blank CHC 1,2,4,4- 2,2,4,5-	2061312	QC - Blank	PCB	Aroclor 1232	mg/kg	<0.1
2061312 QC - Blank PCB Arodor 2061312 QC - Blank PCB Analysis Analysis 2059710 QC - Blank CHC 1,2,3,4- 2,3,4- 2059710 QC - Blank CHC 1,2,3,4- 2,2,5- 2059710 QC - Blank CHC 1,2,3,4- 2,2,5- 2059710 QC - Blank CHC 1,2,3,4- 2,2,5- 2059710 QC - Blank CHC 1,2,3,4- 2,4,5- 2059710 QC - Blank CHC 1,2,4,5- 2,2,5- 2059710 QC - Blank CHC 1,2,4,5- 2,2,4-	2061312	QC - Blank	PCB	Aroclor 1242	mg/kg	<0.1
2061312 QC - Blank PCB Arodor 2061312 QC - Blank PCB Analysis Analysis 2059710 QC - Blank CHC 1,2,3,4- 2,3,4- 2059710 QC - Blank CHC 1,2,3,4- 2,2,5- 2059710 QC - Blank CHC 1,2,3,5- 2,2,5- 2059710 QC - Blank CHC 1,2,3,5- 2,2,5- 2059710 QC - Blank CHC 1,2,3,5- 2,2,5- 2059710 QC - Blank CHC 1,2,4,5- 2,2,5- 2059710 QC - Blank CHC 1,2,4,5- 2,2,4-	2061312	QC - Blank	PCB	Aroclor 1248	mg/kg	<0.1
2061312 QC - Blank PCB Arodor 2061312 QC - Blank PCB Total PC 2061312 QC - Blank PCB Total PC Lab Sample ID Client Sample ID Analysis Analysis 2059710 QC - Blank CHC 1,2,3,4- 2059710 QC - Blank CHC 1,2,3,5- 2059710 QC - Blank CHC 1,2,4,5- 2059710 QC - Blank CHC 1,2,4,5-	2061312	QC - Blank	PCB	Aroclor 1254	mg/kg	<0.1
2061312 QC - Blank PCB Total PC Lab Sample ID Client Sample ID Analysis Total PC 2059710 QC - Blank CHC 1,2,3,4 ⁻¹ 2059710 QC - Blank CHC 1,2,3,5 ⁻¹ 2059710 QC - Blank CHC 1,2,3,5 ⁻¹ 2059710 QC - Blank CHC 1,2,3,5 ⁻¹ 2059710 QC - Blank CHC 1,2,4,5 ⁻¹ 2059710 QC - Blank CHC 1,2,4,5 ⁻¹ 2059710 QC - Blank CHC 1,2,4,5 ⁻¹	2061312	QC - Blank	PCB	Aroclor 1260	mg/kg	<0.1
Lab Sample ID Client Sample ID Analysis Analysis 2059710 QC - Blank CHC 1,2,3,4 ⁻ 2059710 QC - Blank CHC 1,2,3,4 ⁻ 2059710 QC - Blank CHC 1,2,3,5 ⁻ 2059710 QC - Blank CHC 1,2,3,5 ⁻ 2059710 QC - Blank CHC 1,2,3,5 ⁻ 2059710 QC - Blank CHC 1,2,4,5 ⁻ 2059710 QC - Blank CHC 1,2,4,5 ⁻	2061312	QC - Blank	PCB	Total PCB	mg/kg	<0.1
2059710 QC - Blank CHC 1,2,3,4- 2059710 QC - Blank CHC 1,2,3,5- 2059710 QC - Blank CHC 1,2,4,5- 2059710 QC - Blank CHC 1,2,4,5-	Lab Sample ID	Client Sample ID	Analysis	Analyte		
2059710 QC - Blank CHC 1,2,3,5- 2059710 QC - Blank CHC 1,2,3,5- 2059710 QC - Blank CHC 1,2,4,5- 2059710 QC - Blank CHC 1,2,4,5- 2059710 QC - Blank CHC 1,2,4,5-	2059710	QC - Blank	CHC	1,2,3,4-Tetrachlorobenzene	mg/kg	<0.1
2059710 QC - Blank CHC 1,2,3-Tr 2059710 QC - Blank CHC 1,2,4,5- 2059710 QC - Blank CHC 1,2,4,5-	2059710	QC - Blank	CHC	1,2,3,5-Tetrachlorbenzene	mg/kg	<0.1
2059710 QC - Blank CHC 1,2,4,5- 2059710 QC - Blank CHC 1,2,4,5-	2059710	QC - Blank	CHC	1,2,3-Trichlorobenzene	mg/kg	<0.1
2059710 QC - Blank CHC 1,2,4-Tr	2059710	QC - Blank	CHC	1,2,4,5-Tetrachlorobenzene	mg/kg	<0.1
	2059710	QC - Blank	CHC	1,2,4-Trichlorobenzene	mg/kg	<0.1
2059710 QC - Blank CHC 1,2-Dict	2059710	QC - Blank	CHC	1,2-Dichlorobenzene	mg/kg	<0.1

Page 25 of 40

Client: Douglas Partners Pty Ltd

42662

Client Program Ref:

Batch No: 10-03166

Report Number: 139871

Ecowise Program Ref: DOUGLAS

Date Issued: 22-Jan-2010

					value
2059710	QC - Blank	CHC	1,3,5-Trichlorobenzene	mg/kg	<0.1
2059710	QC - Blank	CHC	1,3-Dichlorobenzene	mg/kg	<0.1
2059710	QC - Blank	CHC	1,4-Dichlorobenzene	mg/kg	<0.1
2059710	QC - Blank	CHC	2-Chloronaphthalene	mg/kg	<0.1
2059710	QC - Blank	CHC	Benzal Chloride	mg/kg	<0.1
2059710	QC - Blank	CHC	Benzotrichloride	mg/kg	<0.1
2059710	QC - Blank	CHC	Benzylchloride	mg/kg	<0.1
2059710	QC - Blank	CHC	Hexachloroethane	mg/kg	<0.1
2059710	QC - Blank	CHC	Hexachlorobutadiene	mg/kg	<0.1
2059710	QC - Blank	CHC	Hexachlorocyclopentadiene	mg/kg	<0.1
2059710	QC - Blank	CHC	Pentachlorobenzene	mg/kg	<0.1
2060023	QC - Blank	CHC	1,2,3,4-Tetrachlorobenzene	mg/kg	<0.1
2060023	QC - Blank	CHC	1,2,3,5-Tetrachlorbenzene	mg/kg	<0.1
2060023	QC - Blank	CHC	1,2,3-Trichlorobenzene	mg/kg	<0.1
2060023	QC - Blank	CHC	1,2,4,5-Tetrachlorobenzene	mg/kg	<0.1
2060023	QC - Blank	CHC	1,2,4-Trichlorobenzene	mg/kg	<0.1
2060023	QC - Blank	CHC	1,2-Dichlorobenzene	mg/kg	<0.1
2060023	QC - Blank	CHC	1,3,5-Trichlorobenzene	mg/kg	<0.1
2060023	QC - Blank	CHC	1,3-Dichlorobenzene	mg/kg	<0.1
2060023	QC - Blank	CHC	1,4-Dichlorobenzene	mg/kg	<0.1
2060023	QC - Blank	CHC	2-Chloronaphthalene	mg/kg	<0.1
2060023	QC - Blank	CHC	Benzal Chloride	mg/kg	<0.1
2060023	QC - Blank	CHC	Benzotrichloride	mg/kg	<0.1
2060023	QC - Blank	CHC	Benzylchloride	mg/kg	<0.1
2060023	QC - Blank	CHC	Hexachloroethane	mg/kg	<0.1
2060023	QC - Blank	CHC	Hexachlorobutadiene	mg/kg	<0.1
2060023	QC - Blank	CHC	Hexachlorocyclopentadiene	mg/kg	<0.1
2060023	QC - Blank	CHC	Pentachlorobenzene	mg/kg	<0.1
2061357	QC - Blank	CHC	1,2,3,4-Tetrachlorobenzene	mg/kg	<0.1
2061357	QC - Blank	CHC	1,2,3,5-Tetrachlorbenzene	mg/kg	<0.1
2061357	QC - Blank	CHC	1,2,3-Trichlorobenzene	mg/kg	<0.1
2061357	QC - Blank	CHC	1,2,4,5-Tetrachlorobenzene	mg/kg	<0.1
2061357	QC - Blank	CHC	1,2,4-Trichlorobenzene	mg/kg	<0.1
2061357	QC - Blank	CHC	1,2-Dichlorobenzene	mg/kg	<0.1
2061357	QC - Blank	CHC	1,3,5-Trichlorobenzene	mg/kg	<0.1
2061357	QC - Blank	CHC	1,3-Dichlorobenzene	mg/kg	<0.1
2061357	QC - Blank	CHC	1,4-Dichlorobenzene	mg/kg	<0.1