
13. Orders under the Trees (Disputes Between Neighbours) Act 2006

Whether an order has been made under the Trees (Disputes Between Neighbours) Act, 2006 to carry out work in relation to a tree on the land (but only if the Council has been notified of the order).

The land is not affected by an order issued under the Trees (Disputes between Neighbours) Act 2006.

14. Directions under Part 3A (Environmental Planning and Assessment Act 1979)

If there is a direction by the Minister in force under section 75P (2) (c1) of the Act that a provision of an environmental planning instrument prohibiting or restricting the carrying out of a project or a stage of a project on the land under Part 4 of the Act does not have effect, a statement to that effect identifying the provision that does not have effect.

There are no ministerial direction in force that applies under the section 75P (2) (c1) of the Environmental Planning and Assessment Act 1979

15. Conditions affecting Seniors Housing

If a Development Application is granted on or after the date on which this clause commences under State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 with respect to the land, a statement setting out the terms of any conditions on which the application was granted of the kind referred to in Clause 18(2) of that Policy.

A Development Application has not been granted under State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 with respect to the land.

16. Site Compatibility Certificates for Infrastructure

A statement of whether there is a valid site compatibility certificate (of which the council is aware), issued under clause 19 of State Environmental Planning Policy (Infrastructure) 2007 in respect of proposed development on the land and, if there is a certificate, the statement is to include:-

- (a) the period for which the certificate is valid, and*
- (b) that a copy may be obtained from the head office of the Department of Planning.*

There is no valid site compatibility certificate (of which the Council is aware) issued under Clause 19 of State Environmental Planning Policy (Infrastructure 2007) in respect of the proposed development on the land.

In accordance with the requirements of Section 149(5) of the *Environmental Planning and Assessment Act, 1979* (as amended), the following additional information is provided about the land to which this certificate applies.

Note: In accordance with Section 149(6) of the *Environmental Planning and Assessment Act, 1979* (as amended), Council will not incur any liability for the following additional information, which is provided in good faith. The absence of any matter affecting the land does not imply that the land is not affected by any matter not referred to in this Certificate.

The land is affected by a Tree Preservation Order.

The NSW Scientific Committee, established by the Threatened Species Conservation Act, 1995 has made a Preliminary Determination to support a proposal to list the Cumberland Plain Woodland in the Sydney Basin Bioregion as a Critically Endangered Ecological Community on Part 2 of Schedule 1A of the Act and to omit reference to Cumberland Plain Woodland from Part 3 of Schedule 1 (Endangered Ecological Communities) of the Act.

Auburn Council at its Ordinary meeting of 16 July 2008 resolved to place the Auburn Town Centre Draft Strategy 2031 on public exhibition. The draft strategy is on public exhibition from 21 July 2008 to 15 August 2008 and can be viewed at [www.auburn.nsw.gov.au/Building and Development/Plan on exhibition](http://www.auburn.nsw.gov.au/Building_and_Development/Plan_on_exhibition).

Auburn Council at its Ordinary meeting of 16 July 2008 resolved to adopt the Auburn Employment Lands Study, June 2008. Further information on this study can be found at www.auburn.nsw.gov.au.



John Burgess
General Manager

Per: *Darrie Elasi*
Specialist Development
Administration Officer



1 Susan Street, P.O. Box 118 Auburn, NSW Australia 1835

Glenda Stapley
URS Australia Pty Limited
Level 3, 116 Miller Street
NORTH SYDNEY NSW 2060

Telephone: 9735 1222 Facsimile: 9643 1120
ABN 63 914 691 587

In reply quote:

Contact Name:

PLANNING CERTIFICATE

Issued under Section 149(2) of the
Environmental Planning and Assessment Act, 1979

Certificate No: 9560
Receipt No: 354328
Date: 18 May 2009
Your Reference: 43217997.00200

Property Details

Address: 19-21 Parramatta Road, LIDCOMBE

Legal Description: Lot 1 DP 214452

Owner(s) Name (as recorded by Council):

Tallen Pty Limited
PO Box 283
BOTANY NSW 1455

In accordance with the requirements of Section 149(2) of the *Environmental Planning and Assessment Act, 1979* (as amended), the following prescribed matters relate to the land at the date of this certificate.

Note: The information contained in Planning Certificates issued for a lot within Strata-Titled development relates to the land the development is situated on.

1. Names of Relevant SEPPs, REPs, LEPs and DCPs

(1) *The names of:*

- (a) *each Local Environmental Plan and Deemed Environmental Planning Instrument applying to the land, and*
- (b) *each draft Local Environmental Plan applying to the land that has been placed on exhibition under Section 66(1)(b) of the Act, and*
- (c) *each development control plan applying to the land that has been made by the relevant planning authority under Division 6 of Part 3 of the Act (including any made by the council under section 72, or the Director-General under section 51A, before the repeal of those sections).*

1(a) Auburn Local Environmental Plan 2000, as amended.

1(b) At its meeting on 20 October 2004, Council resolved to prepare a Draft Local Environmental Plan to revise various objectives, provisions, zoning tables, and definitions, so as to remove anomalies in the Auburn Local Environmental Plan 2000. The public exhibition period for Draft Auburn Local Environmental Plan (Amendment No. 14) is 8 June 2005 to 17 July 2005.

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- 1(c) There are no Development Control Plans that have been made by the Director-General under Section 51A of the Act that apply to this land.

General Requirements Development Control Plan - effective from 22 March 2000.

Notification of Development Proposals Development Control Plan - effective from 26 April, 2006.

Exempt and Complying Development Control Plan - effective from 19 October 2000.

Car Parking and Loading Development Control Plan - effective from 22 March 2000.

Stormwater Drainage Development Control Plan - effective from 5 June 2002.

Guidelines for Erosion and Sediment Control Development Control Plan - effective from 19 November 2003.

Language of Advertising and Signage Development Control Plan - effective from 28 May 2003.

Childcare Centres Development Control Plan - effective from 22 March 2000.

Detached Dwellings and Dual Occupancy Development Control Plan Amendment No. 1 - effective from 25 October, 2006.

Multiple Dwellings Development Control Plan - effective from 24 September 2003.

Industrial Areas Development Control Plan - effective from 22 March 2000.

Access and Mobility Development Control Plan - effective from 4 May 2005.

- (2) *The names of:*

- (a) *each Regional Environmental Plan applying to the land, and*
- (b) *each draft Regional Environmental Plan applying to the land that has been placed on exhibition under section 47(b) of the Act.*
- (c) *Repealed.*

2(a) Sydney Regional Environmental Plan - (Sydney Harbour Catchment) 2005.

2(b) There are no draft Regional Environmental Plans that have been placed on exhibition under Section 47(b) of the Act that apply to this land.

2(c) Repealed

- (3) *The names of:*

- (a) *each State Environmental Planning Policy applying to the land, and*
- (b) *each draft State Environmental Planning Policy applying to the land that has been publicised as referred to in Section 39(2) of the Act.*

- | | | |
|------|--------------------------------------------|---------------------------------------------------------------------------------|
| 3(a) | State Environmental Planning Policy | (Temporary Structures and Places of Public Entertainment) 2007. |
| | State Environmental Planning Policy | (Infrastructure) 2007. |
| | State Environmental Planning Policy | (Exempt and Complying Development Codes) 2008 |
| | State Environmental Planning Policy | (Repeal of Concurrence & Referral Provisions) 2008. |
| | State Environmental Planning Policy No. 1 | Development Standards. |
| | State Environmental Planning Policy No. 4 | Development without Consent and Miscellaneous Exempt and Complying Development. |
| | State Environmental Planning Policy No. 6 | Number of Storeys in a Building. |
| | State Environmental Planning Policy No. 10 | Retention of Low-Cost Rental Accommodation. |
| | State Environmental Planning Policy No. 19 | Bushland in Urban Areas. |
| | State Environmental Planning Policy No. 21 | Caravan Parks. |

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State Environmental Planning Policy No. 22	Shops and Commercial Premises.
State Environmental Planning Policy No. 30	Intensive Agriculture.
State Environmental Planning Policy No. 32	Urban Consolidation (Redevelopment of Urban Land).
State Environmental Planning Policy No. 33	Hazardous and Offensive Development.
State Environmental Planning Policy No. 50	Canal Estate Development.
State Environmental Planning Policy No. 55	Remediation of Land.
State Environmental Planning Policy No. 60	Exempt and Complying Development.
State Environmental Planning Policy No. 64	Advertising and Signage.
State Environmental Planning Policy No. 65	Design Quality of Residential Flat Development.
State Environmental Planning Policy No. 70	Affordable Housing (Revised Schemes).
State Environmental Planning Policy	Building Sustainability Index: BASIX 2004.
State Environmental Planning Policy	(Major Projects) 2005.
State Environmental Planning Policy	(Mining, Petroleum Production and Extractive Industries) 2007.

- 3(b) Draft State Environmental Planning Policy 66 Integration of Land Use and Transport.
Draft State Environmental Planning Policy (Application of Development Standards) 2004.

Note: Any questions regarding State Environmental Planning Policies, Regional Environmental Planning Policies or Development Control Plans under section 51A of the Act should be directed to the NSW Department of Planning on 1300 305 694 or www.planning.nsw.gov.au

2. Zoning and Land Use under relevant LEPs

For each *Local Environmental Plan, Deemed Environmental Planning Instrument and draft Local Environmental Plan* applying to the land in any zone (however described):

- (a) *the identity of the zone, whether by reference to a name (such as "Residential Zone" or "Heritage Area") or by reference to a number (such as "Zone No. 2(a))",*
 - (b) *the purpose for which the plan or instrument provides that development may be carried out within the zone without the need for development consent,*
 - (c) *the purposes for which the plan or instrument provides that development may not be carried out within the zone except with development consent,*
 - (d) *the purposes for which the plan or instrument provides that development is prohibited within the zone,*
 - (e) *whether any development standards applying to the land fix minimum land dimensions for the erection of a dwelling-house on the land and, if so, the minimum land dimensions so fixed,*
 - (f) *whether the land includes or comprises critical habitat,*
 - (g) *whether the land is in a conservation area (however described),*
 - (h) *whether an item of environmental heritage (however described) is situated on the land.*
- (a) Zone No 4(c) – Industrial Enterprise.
- (b) Under the provisions of Clause 20(2) of Auburn Local Environmental Plan 2000, development for the purpose of the following may be carried out without development consent:

"exempt development (being development of minimal environmental impact that is listed and satisfies the criteria for exempt development relevant to land zoned 4(c) in the Auburn Development Control Plan identified in Schedule 5 of Auburn Local Environmental Plan 2000, as amended)."

Under the provisions of Clause 58 of Auburn Local Environmental Plan 2000, a public authority or a corporation that was a public authority but has been privatised may carry out an activity specified in Schedule 3 of Auburn Local Environmental Plan without development consent.

- (c) Under the provisions of Clause 9(5) of Auburn Local Environmental Plan 2000, the consent authority must not grant consent to the carrying out of development on land zoned Industrial 4(c) unless the consent authority is of the opinion that the carrying out of the development is consistent with the objectives of the Industrial 4(c) zone, which are specified in Clause 20(1) as:-

- a) to recognise the special character of Parramatta Road frontages and surrounding areas,
- b) to ensure that development in this zone does not reduce the economic viability of businesses in the business zones,
- c) to provide the flexibility required to encourage innovative and high technology industrial uses in the zone,
- d) to prohibit shops in this zone generally but permit minor retail development only where it is providing for the daily convenience needs of the local workforce, is ancillary or incidental to other permissible development or is in the form of bulky good retail outlets or motor showrooms.

Under the provisions of Clause 48 of Auburn Local Environmental Plan 2000, the consent authority must not grant consent to development if the consent authority considers that the development will prevent surrounding lots from being developed in accordance with Auburn Local Environmental Plan 2000.

Under the provisions of Clause 20(3) of Auburn Local Environmental Plan 2000, development for the purpose of the following may be carried out with development consent:

"banks; bulky goods retailing; car repair stations; child care centres; community facilities; complying development (being development that is listed and satisfies the criteria for complying development relevant to land zoned 4(c) in the Auburn Development Control Plan identified in Schedule 5 of Auburn Local Environmental Plan 2000, as amended); depots; dwellings used in conjunction with another land use which is permissible in this zone; educational establishments; equipment hire centres; exhibition homes; freight transport terminals; general advertising signs; high technology industries; hotels; industries; light industries; motels; motor showrooms; multiple dwellings; passenger transport terminals; places of public worship; public buildings; recreation areas; recreation facilities; refreshment rooms; restaurants; service support industries; serviced apartments; showrooms; site identification signs; subdivision; training facilities; utility undertakings; warehouses or distribution centres."

Under the provisions of Clause 23 of Auburn Local Environmental Plan 2000, residential development on land zoned 4(c) is allowed only where the land adjoins land zoned 2(a), 2(b) or 2(c) and does not front Parramatta Road.

Under the provisions of Clause 25 of Auburn Local Environmental Plan 2000, consent may be granted to development on land which immediately adjoins land zoned 4(d) as if the land was zoned 4(d) provided that the requirements of that clause are met.

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Under the provisions of Clause 49(2) of Auburn Local Environmental Plan 2000, development may be carried out, but only with development consent, on land within Zone 4(c) for the purpose of any building, work, place or land use that is not defined in Auburn Local Environmental Plan 2000 provided that the requirements of that clause are met.

Under the provisions of Clause 61 of Auburn Local Environmental Plan 2000, consent may be granted to the carrying out of development (other than designated or State significant development) for any purpose for a maximum period of 28 days, whether consecutive or non-consecutive, in any one year provided that the requirements of that clause are met.

NOTE: This certificate provides zoning information for the land that is the subject of this certificate only. The Auburn Local Environmental Plan 2000 Map must be viewed to determine if the land that is the subject of this certificate immediately adjoins land zoned 4(d) - Special Enterprise. The Auburn Local Environmental Plan 2000 written instrument and map may be inspected, and are available for purchase, at our Customer Service Centre located at 1 Susan Street, Auburn.

- (d) Development for a purpose that is not listed as being permissible either "with consent" or "without consent" is prohibited.
- (e) There are no development standards applying to this land that fix a minimum land dimension for the erection of a dwelling-house.
- (f) The land does not include or comprise critical habitat.
- (g) The land is not located within a Heritage Conservation Area under the provisions of Auburn Local Environmental Plan 2000, as amended.
- (h) The land has not been identified as an item of environmental heritage significance under the provisions of Auburn Local Environmental Plan 2000, as amended.

3. Complying Development

Whether or not the land is land on which no complying development may be carried out under the *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008* and, if no complying development may be carried out on that land under that Policy, the reason why complying development may not be carried out on that land.

No complying development may be carried out on the land under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 as the land is identified on an Acid Sulphate Soils Map as being Class 2.

No complying development may be carried out on the land under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 as the land is identified as a flood control lot.

No complying development may be carried out on the land under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 as the land is within a foreshore area.

4. Coastal Protection

Whether or not the land is affected by the operation of Section 38 or 39 of the *Coastal Protection Act, 1979*, but only to the extent that the Council has been so notified by the Department of Public Works.

Council has not been notified by the Department of Public Works that the land is affected by the operation of Section 38 or 39 of the *Coastal Protection Act, 1979*.

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5. Mine Subsidence

Whether or not the land is proclaimed to be a mine subsidence district within the meaning of Section 15 of the Mine Subsidence Compensation Act, 1961.

The land is not located in an area proclaimed to be a mine subsidence district within the meaning of Section 15 of the Mine Subsidence Compensation Act, 1961.

6. Road Widening and Road Realignment

Whether or not the land is affected by any road widening or road realignment under:

- (a) Division 2 of Part 3 of the Roads Act, 1993, or
 - (b) Any Environmental Planning Instrument, or
 - (c) Any resolution of the Council.
-
- (a) The land is not affected by any road widening or road realignment under Division 2 of Part 3 of the Roads Act 1993, as amended.
 - (b) The land is not affected by any road widening or road realignment under any Environmental Planning Instrument.
 - (c) The land is not affected by any road widening or road realignment under a Council resolution.

7. Council and other public authority policies on Hazard Risk Restriction

Whether or not the land is affected by a policy:

- (a) adopted by the Council, or
- (b) adopted by any other public authority and notified to the Council for the express purpose of its adoption by that authority being referred to in planning certificates issued by the Council.

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

- (a) Under the provisions of Clause 54 of Auburn Local Environmental Plan 2000, Council must not grant consent to the erection of a building or the carrying out of works if, in the opinion of Council, the land is within a floodway or the carrying out of the proposed development is likely to have consequences identified within Clause 54(b).
At its meeting on 6 November 2002, Council adopted the Haslams Creek Floodplain Risk Management Study and Plan. This Plan restricts development on land identified within the "High", "Medium" and "Low" Flood Risk Precincts. A copy of the plan is available on Council's website www.auburn.nsw.gov.au.
- (b) Council has been notified by Parramatta City Council that the following Flood Management Studies have been carried out and adopted. They are:-
 - 1. Duck River Flood Study Parramatta City Council – Final Flood study Report (September 2006).
 - 2. Lower Parramatta River Flood Plain Risk Management Study – Draft February 2003.

For more detailed information and enquiries regarding the above flood studies and affected areas please contact Council's Works and Services Department, Engineering Division.

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Council has been notified of the Acid Sulphate Soils Planning Guidelines prepared by the NSW Department of Planning. All land located within the Auburn Local Government Area has been identified as being Class 1 to 5 (high to low probability of acid sulphate soils being present) on the Acid Sulphate Soils Risk Maps published by NSW Department of Natural Resources.

7a Flood related Development Control Information

- (1) *Whether or not the development on that land or part of the land for the purposes of dwellings, dual occupancies, multi dwelling housing or residential flat buildings (not including development for the purposes of group homes or seniors housing) is subject to flood related development controls.*

Development on the land or part of the land for the above purposes is subject to flood related development controls. For more information, refer to Council's Development Control Plans including Stormwater Drainage Development Control Plan on Council's website www.auburn.nsw.gov.au.

- (2) *Whether or not development on that land or part of the land for any other purpose is subject to flood related development controls.*

Development on the land or part of the land for any other purpose is subject to flood related development controls. For more information, refer to Council's Development Control Plans including Stormwater Drainage Development Control Plan on Council's website www.auburn.nsw.gov.au.

- (3) *Words and expressions in this clause have the same meanings as in the instrument set out in the Schedule to the Standard Instrument (Local Environmental Plans) Order 2006.*

Words and expressions in this clause have the same meanings as in the instrument set out in the Schedule to the Standard Instrument (Local Environmental Plans) Order 2006.

8. Land Reserved for Acquisition

Whether or not any Environmental Planning Instrument, Deemed Environmental Planning Instrument or draft Environmental Planning Instrument applying to the land provides for the acquisition of the land by a public authority, as referred to in Section 27 of the Act.

The land is not affected by an Environmental Planning Instrument, Deemed Environmental Planning Instrument or draft Environmental Planning Instrument that provides for the acquisition of the land by a public authority referred to in Section 27 of the Act.

9. Contributions Plans

The name of each Contributions Plan applying to the land:

Auburn Development Contributions Plan 2007.

10. Matters arising under the Contaminated Land Management Act, 1997

Section 59(2) of the Contaminated Land Management Act, 1997 prescribes the following additional matters that are to be specified in a planning certificate:

- (a) that the land to which the certificate relates is within land declared to be an "investigation area" or "remediation site" under Part 3 of that Act (if it is within such an area or site at the date when the certificate is issued),
 - (b) that the land to which the certificate relates is subject to an "investigation order" or a "remediation order" within the meaning of that Act (if it is subject to such an order at the date when the certificate is issued),
 - (c) that the land to which the certificate relates is the subject of a voluntary investigation proposal (or voluntary remediation proposal) the subject of the Environmental Protection Authority's agreement under Section 19 or 26 of that Act (if it is the subject of such a proposal, and the proposal has not been fully carried out, at the date when the certificate is issued),
 - (d) that the land to which the certificate relates is the subject of a site audit statement within the meaning of Part 4 of that Act (if a copy of such a statement has been provided at any time to the local authority issuing the certificate).
-
- (a) The land has not been declared to be an "investigation area" or "remediation site" under Part 3 of the Contaminated Land Management Act 1997, as amended.
 - (b) The land is not subject to an "investigation order" or a "remediation order" within the meaning of the Contaminated Land Management Act 1997, as amended.
 - (c) The land is not the subject of a voluntary investigation proposal (or voluntary remediation proposal) that is the subject of the Environment Protection Authority's agreement under Section 19 or 26 of the Contaminated Land Management Act 1997, as amended, and that has not been fully carried out.
 - (d) The land is not the subject of a site audit statement within the meaning of Part 4 of the Contaminated Land Management Act 1997, as amended.

11. Bush Fire Prone Land

If any of the land is bush fire prone land (as defined in the Act), a statement that all or, as the case may be, some of the land is bush fire prone land. If none of the land is bush fire prone land, a statement to that effect.

The land is not located within an area that is bush fire prone as defined by the Environmental Planning and Assessment Act, 1979, as amended.

12. Property Vegetation Plans

If the land is land to which a Property Vegetation Plan under the Native Vegetation Act, 2003 applies, a statement to that effect (but only if the council has been notified of the existence of the plan by the person or body that approved the plan under that Act).

The land is not affected by a Property Vegetation Plan under the *Native Vegetation Act, 2003*.

13. Orders under the Trees (Disputes Between Neighbours) Act 2006

Whether an order has been made under the Trees (Disputes Between Neighbours) Act, 2006 to carry out work in relation to a tree on the land (but only if the Council has been notified of the order).

The land is not affected by an order issued under the Trees (Disputes between Neighbours) Act 2006.

14. Directions under Part 3A (Environmental Planning and Assessment Act 1979)

If there is a direction by the Minister in force under section 75P (2) (c1) of the Act that a provision of an environmental planning instrument prohibiting or restricting the carrying out of a project or a stage of a project on the land under Part 4 of the Act does not have effect, a statement to that effect identifying the provision that does not have effect.

There are no ministerial direction in force that applies under the section 75P (2) (c1) of the Environmental Planning and Assessment Act 1979

15. Conditions affecting Seniors Housing

If a Development Application is granted on or after the date on which this clause commences under State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 with respect to the land, a statement setting out the terms of any conditions on which the application was granted of the kind referred to in Clause 18(2) of that Policy.

A Development Application has not been granted under State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 with respect to the land.

16. Site Compatibility Certificates for Infrastructure

A statement of whether there is a valid site compatibility certificate (of which the council is aware), issued under clause 19 of State Environmental Planning Policy (Infrastructure) 2007 in respect of proposed development on the land and, if there is a certificate, the statement is to include:-

- (a) the period for which the certificate is valid, and*
- (b) that a copy may be obtained from the head office of the Department of Planning.*

There is no valid site compatibility certificate (of which the Council is aware) issued under Clause 19 of State Environmental Planning Policy (Infrastructure 2007) in respect of the proposed development on the land.

In accordance with the requirements of Section 149(5) of the *Environmental Planning and Assessment Act, 1979* (as amended), the following additional information is provided about the land to which this certificate applies.

Note: In accordance with Section 149(6) of the *Environmental Planning and Assessment Act, 1979* (as amended), Council will not incur any liability for the following additional information, which is provided in good faith. The absence of any matter affecting the land does not imply that the land is not affected by any matter not referred to in this Certificate.

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The NSW Scientific Committee, established by the Threatened Species Conservation Act, 1995 has made a Preliminary Determination to support a proposal to list the Cumberland Plain Woodland in the Sydney Basin Bioregion as a Critically Endangered Ecological Community on Part 2 of Schedule 1A of the Act and to omit reference to Cumberland Plain Woodland from Part 3 of Schedule 1 (Endangered Ecological Communities) of the Act.

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John Burgess
General Manager

Per: *Dania Elaggi*
Specialist Development
Administration Officer

Appendix C WorkCover, NSW



Our Ref: D09/056379
Your Ref: Glenda Stapley

19 May 2009

Attention: Glenda Stapley
URS Australia Pty Ltd
Level 3
116 Miller Street
North Sydney NSW 2060

Dear Glenda

RE SITE: 15-21 Parramatta Road, Lidcombe NSW 2141

I refer to your site search request received on 12th May 2009 requesting information on a Licence to Keep Dangerous Goods on the above site.

Enclosed are copies of the documents that WorkCover NSW holds on Dangerous Goods Licence **35/015782** relating to the storage of dangerous goods at the above-mentioned premises, as listed on the Stored Chemical Information Database (SCID).

If you have any further queries, please contact WorkCover's Dangerous Goods Licensing staff on (02) 4321 5500.

Yours sincerely

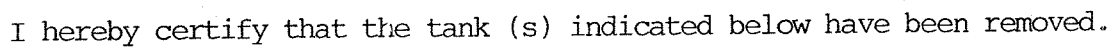
A handwritten signature in black ink, appearing to be 'Sue Waugh', written over a horizontal line.

Sue Waugh
A/C Senior Licensing Officer
Dangerous Goods Team

WorkCover. **Watching out for you.**

TO:- Chief Inspector of Dangerous Goods
Work Cover Authority
Chemical Safety Unit
Locked Bag 10
Clarence Street
Sydney NSW 2000

UNDERGROUND STORAGE TANKS



DATE

PUMP PROPOSAL FORM No. 2

FORM 03/4000 4/75 DA

Territory No. 1003

FOR THE INSTALLATION OF

COMPANY EQUIPMENT

Name of Customer: GUARDHOUSE & ROADS (AUSTRALIA) LIMITED BRANCH OFFICE

Trade Name of Customer: B. B. B.

Address: 5, APPALISTIA ROAD WIDJIE Telephone No. 6480144

Class of Agreement — Reseller ☐ Industrial ☒ Nature of Business: INDUSTRIAL

Nature of Proposal — New Installation ☒ Replacement ☐ Removal ☐ Purchase 1000 LITRE

EQUIPMENT

		PUMPS						TANKS = 2000 LITRE				
MANUAL		RESELLER METER				INDUSTRIAL METER		500	1000	2000	3000	4000
S.	D.	S. Tall	S. Squal Ped	D. Tall	D. Squal Ped	*Class 1	*Class 2					
Already Installed												
Required												

Product to be used — M/S Super ☒ M/S Standard ☐ Distillate ☐ Kerosine ☐

Approval granted by — County Council ☒ Local Council ☒ Roads Board ☒

WORK REQUIRED BY

Person to Contact re job: MR. B. ROBINSON Price at which Product to be sold: 15.000 (for Meter Heads only)

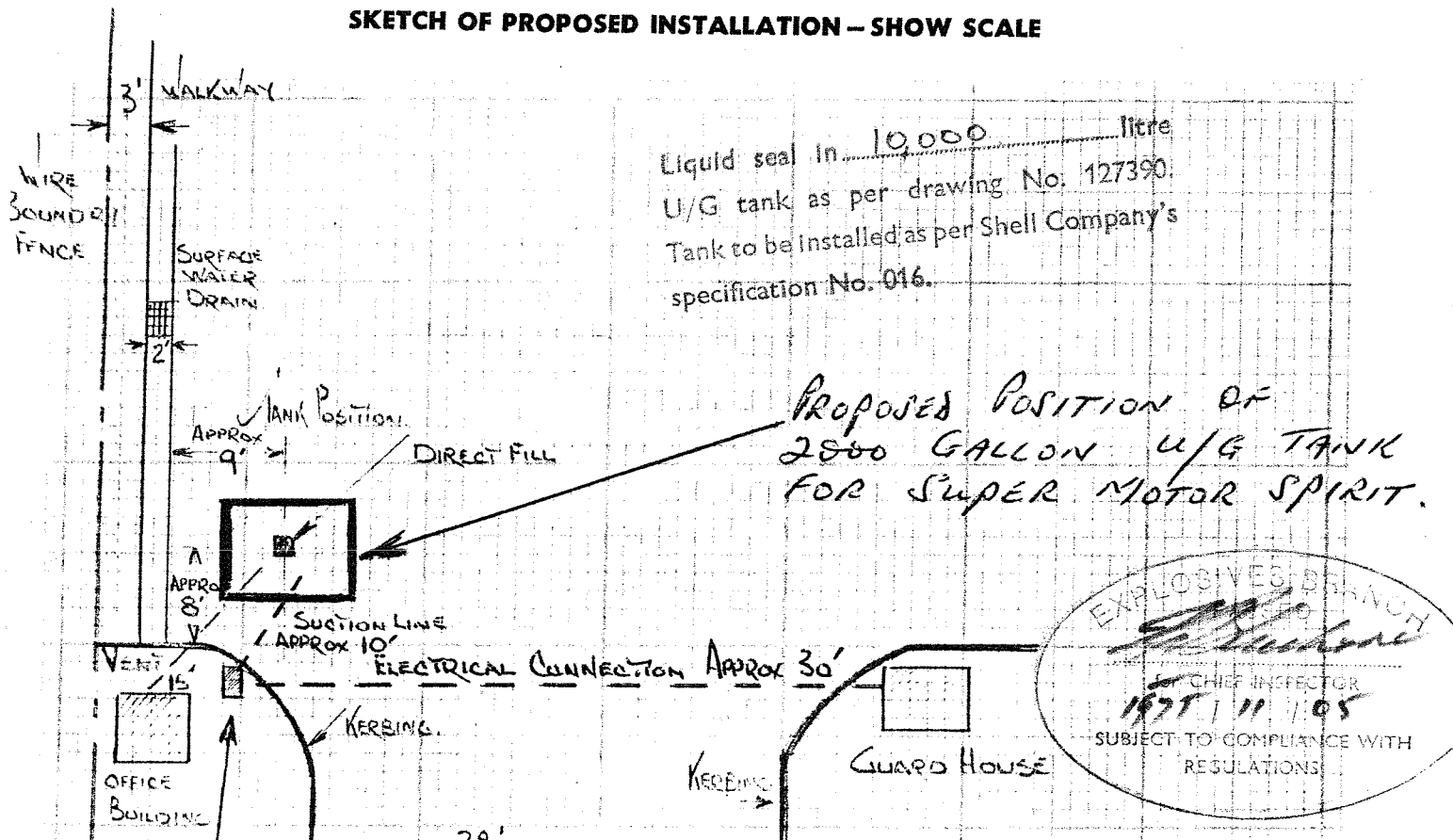
Type of electric current available: AT GUARD HOUSE Necessary alterations to switchboard: YES/NO By GOODYEAR

Equipment to be consigned to: ROAD by ROAD/RAIL

Concrete Slab required over Tank? CONCRETE REPLACEMENT OVER TANK REQUIRED If required, show dimensions below.

DISTANCES	Type of Country	Surface at Point of Excavation	Type of Building Walls
Tank to Pump: <u>Approx 10</u> ft.	Sandy	Concrete <input checked="" type="checkbox"/>	Wood
Tank to Fill Point: <u>DIRECT</u> ft.	Clay <input checked="" type="checkbox"/>	Wood Floor	Iron
Tank to Wall for Air Vent: <u>Approx 15</u> ft.	Gravel	Asphalt	Brick <input checked="" type="checkbox"/>
Wiring — Pump to nearest entry to Building: <u>Approx 30</u> ft.	Rock	Earth	
Wiring — Entry to Building to Switchboard: <u>10</u> ft.			

SKETCH OF PROPOSED INSTALLATION — SHOW SCALE



INFLAMMABLE LIQUID ACT, 1915

LICENCE No. 1-102

APPLICATION FOR:

REGISTRATION OF PREMISES
STORE LICENCE
AMENDMENT TO REGISTRATION OR LICENCE

A.
FOR THE KEEPING OF
INFLAMMABLE LIQUID
AND/OR DANGEROUS GOODS. 9

Name of Occupier

The Goodyear Tyre & Rubber Co (Australia) Limited
(Surname) (First Names)

Trading Name (if any)

Postal Address

P.O. Box 39, LIDCOMBE

Postcode 2141

Address of the
premises in which the
depot or depots are
situated

15-21 Parramatta Road, LIDCOMBE

Postcode 2141

Occupation

Nature of Premises

warehouse

Particulars of construction of depots and maximum quantities of inflammable liquid and/or dangerous goods to be kept at any one time.

PLEASE SKETCH SITE ON BACK OR ATTACH PLAN

Depot No.	Construction of depots *			Inflammable Liquid		Dangerous Goods						
	Walls	Roof	Floor	Mineral spirit litres	Mineral oil litres	Class 1 litres	Class 2 litres	Class 3 kg	Class 4 m ³	Class 5A# litres	Class 5B# litres	Class 9 litres
1	underground tank			10000								
2	underground tank			5000								
3												
4												
5												
6												
7												
8												
9												
10												
TOTAL												

* If kept in tanks describe depots as underground or aboveground tanks.

Insert water capacity of tanks or cylinders.

Name of Company supplying inflammable liquid Shell

Have premises previously been licensed? Yes A.15782 (9)

If known, state name of previous occupier same (increased storage only)

Signature of applicant X [Signature]

Date 21-10-75

Insp.
Metrop.

CERTIFICATE OF INSPECTION

I, William A. Mahon being an Inspector under the Inflammable Liquid Act, 1915, do hereby certify that the premises or store described above does comply with the requirements of that Act and regulations with regard to its situation and construction for the keeping of inflammable liquid and/or dangerous goods in quantity and nature specified.

INFLAMMABLE LIQUID ACT, 1915 (AS AMENDED)

Application for Registration of Premises or Store License under Division A or for the transfer, alteration or amendment of any such Registration or License, for the keeping of Inflammable Liquid and/or Dangerous Goods, in accordance with the provisions of the Inflammable Liquid Act, 1915 (as amended), for the ensuing year.

EXPLANATORY

Inflammable Liquid—

Mineral Oil—includes kerosene, mineral turpentine and white spirit (for cleaning), and compositions containing same.
Mineral Spirit—includes petrol, benzene, benzolene, benzol and naphtha, and compositions containing same.

Dangerous Goods—

Class 1.—Acetone, amyl acetate, butyl acetate, carbon bisulphide; any combination of substances of an inflammable character suitable for use as an industrial solvent and having a true flashing point of less than 73 degrees Fahrenheit.

Class 2.—Nitro-cellulose (also known as "pyroxylin" and "collodion cotton") moistened with an alcohol, butyl alcohol (also known as "butanol"), methylated spirits, vegetable turpentine; and any liquid or solid containing methylated spirits, having a true flashing point of less than 150 degrees Fahrenheit.

Class 3.—Nitro-cellulose product.

Class 4.—Compressed or dissolved acetylene contained in a porous substance.

DIRECTIONS

1. Applications must be forwarded to the Chief Inspector of Inflammable Liquid, Explosives Department, No. 16 Grosvenor Street, Sydney (Box 48, G.P.O.), and must be accompanied by the prescribed fee, as set out hereunder.

Registration of Premises (Fee £1 10s. 0d. p.a.).—For quantities not exceeding 300 gallons of mineral oil and 100 gallons of mineral spirit, if kept together; or 800 gallons of mineral oil and 100 gallons of mineral spirit, if kept in separate depots; or 500 gallons of mineral spirit, if kept in an underground tank depot; or 800 gallons of mineral oil and 500 gallons of mineral spirit, if mineral spirit is kept in an underground tank depot.

In addition to, or in lieu of the above, similar quantities of Dangerous Goods of Classes 1 and 2 may be kept under the like conditions; reading Dangerous Goods of Class 1 for the words Mineral Spirit and Dangerous Goods of Class 2 for the words Mineral Oil.

Store License, Div. A (Fee, £3 5s. 0d. p.a.).—For quantities in excess of those stated above, but not exceeding 4,000 gallons mineral oil and/or mineral spirit, and/or Dangerous Goods of Classes 1 and 2.

Store License, Div. B (Fees, See Regulation 7).—For quantities exceeding 4,000 gallons of mineral and/or mineral spirit, and/or dangerous goods of Classes 1 and 2, and/or dangerous goods of Class 3.

For the keeping of Dangerous Goods of Classes 3 and/or 4. (£7 10s. 0d. p.a.).

2. The certificate of inspection at foot hereof must be signed by an Inspector under the Inflammable Liquid Act, 1915 (as amended), or Police Officer, or other officer duly authorised in that behalf, and where the premises are situated outside the Metropolitan Area of Sydney, it is requested that such certificate be obtained prior to forwarding application.

1. Name in full of occupier ...
2. Occupation ...
3. Locality of the premises in which the depot or depots are situated ...
4. Nature of premises (Dwelling, Garage, Store, etc.) ...
5. Will mineral spirit be kept in a prescribed underground tank depot?

THE GOODYEAR TYRE & RUBBER CO. (AUSTRALIA) LIMITED

TYRE & TUBE WAREHOUSE

No. or Name

Street

Town

WAREHOUSE

YES 1000 G.L. TANK

6. Particulars of construction of depots and maximum quantities of inflammable liquid and/or Dangerous Goods to be kept at any one time.

Depot No.	Construction of Depots			Inflammable Liquid		Dangerous Goods			
	Walls	Roof	Floor	Mineral Spirit Gallons	Mineral Oil Gallons	Class 1 Gallons	Class 2 Gallons	Class 3 lb.	Class 4 cub. ft.
1	Under ground		Tank	1000					
2									
3									
4									
5									
6									
7									
8									
9									
10									

Date of Application 16/9/64 19

Signature of Applicant

Postal Address

CERTIFICATE OF INSPECTION

being an Inspector under the Inflammable

Appendix D NSW DECC Contaminated Land Search



Search results

Your search for: LGA: Auburn Council

Matched 58 notices relating to 12 sites.

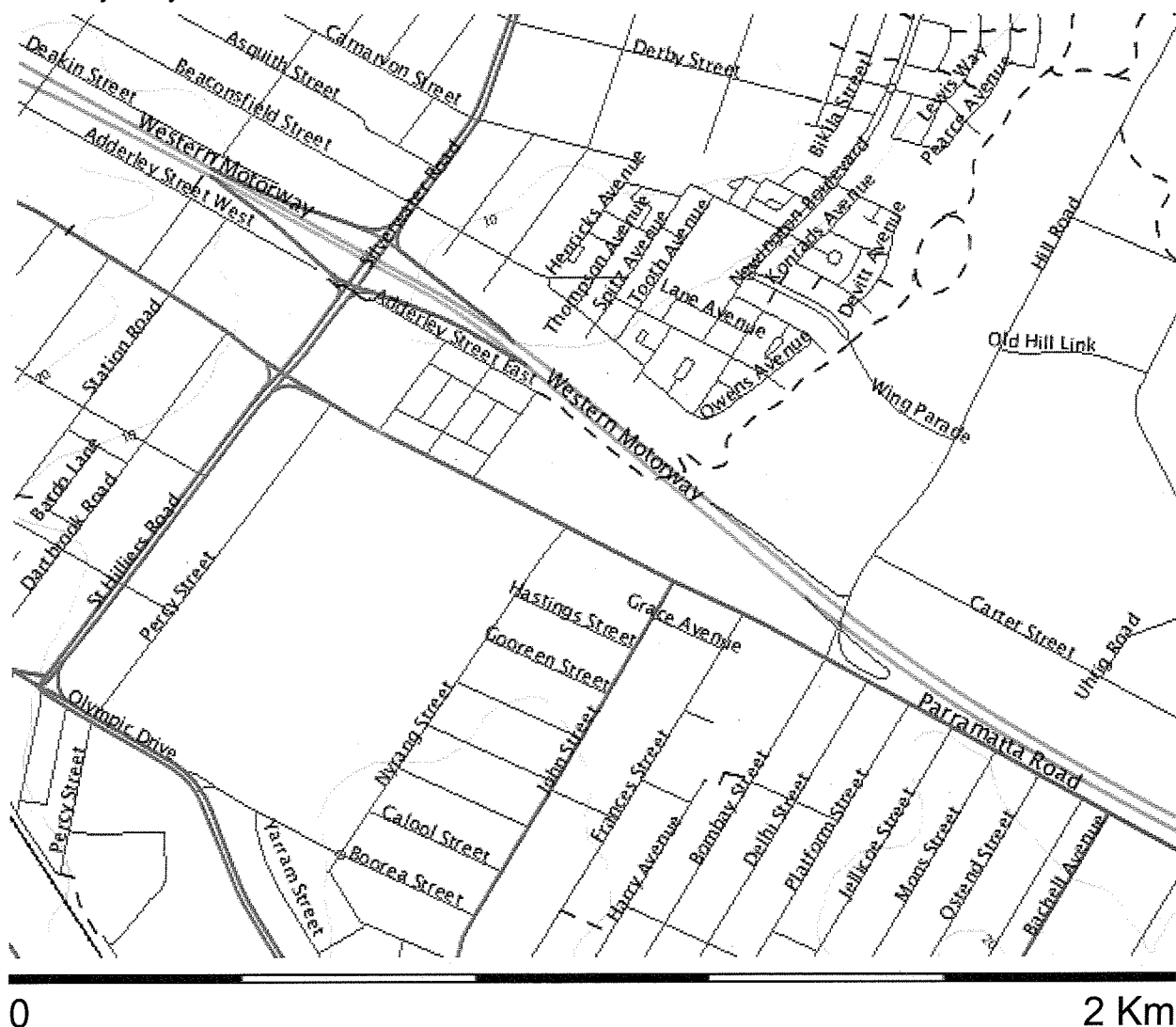
Suburb	Address	Site Name	Notices related to this site
Auburn	Short and Junction Streets	Ajax Chemical Factory	2 former
Homebush Bay	Olympic Boulevard	Aquatic Centre Car Park	1 current and 8 former
Homebush Bay	Bennelong Road	Bicentennial Park	1 current and 2 former
Homebush Bay	Hill Road	Haslams Creek South Area 3	1 current and 3 former
Homebush Bay	Kevin Coombs Avenue	Haslams Creek South Areas 1 and 2	1 current and 13 former
Homebush Bay	No specific Street	Homebush Bay General Area	2 former
Homebush Bay	Australia Avenue	State Sports Centre	1 current and 6 former
Homebush Bay	25 Bennelong Road	Timber Treatment Plant	4 former
Newington	Bennelong Road	Landfill - North Newington	2 current and 3 former
Silverwater	Jamieson Street	Auburn Landfill	2 current and 2 former
Silverwater	Jamieson Street	Silverwater Transport Unit	1 former
Silverwater	Silverwater Road	Wilson Park	4 current and 6 former

Appendix E Groundwater Bore Records

15 - 21 Parramatta Road, Lidcombe

Map created with NSW Natural Resource Atlas - <http://www.nratlas.nsw.gov.au>

Monday, May 25, 2009



Legend

Symbol	Layer	Custodian
○	Cities and large towns renderImage: Cannot build image from features.	
○	Populated places renderImage: Cannot build image from features	
○	Towns	
●	Groundwater Bores	
	Catchment Management	



Authority boundaries



Major rivers



Primary/arterial road



Motorway/freeway



Railway



Runway



Contour



Background

Topographic base map

Copyright © 2009 New South Wales Government. Map has been compiled from various sources and may contain errors or omissions. No representation is made as to its accuracy or suitability.

Appendix F Soil Bore Logs



MONITORING WELL SB01

URS Australia Pty. Ltd. Level 3, 116 Miller Street, North Sydney		Phone: 02 8925 5500 Fax: 02 8925 5555	Project Reference: Phase I and II Site Investigations	Client: COSTCO
Drilling Contractor: Macquarie Pty Ltd				Location: 17-21 Parramatta Rd, Lidombe, NSW
Project No.: 43217997				
Logged By: J Siwadi	Bore Size: 100 mm	Relative Level: mAHD	Drill Type: Hand Augering	
Checked By: K Ye	Total Depth: 0.90 m	Coordinates: N	Drill Model: N/A	
Date Started: 29-5-09	Casing Size: mm	E	Drill Fluid: N/A	
Date Finished: 29-5-09		Permit No:		

WELL_WITH_MOIST_CONDITION J:\JOBS\43217997\5 WORKS\ENVIRONMENTAL INVESTIGATION\LIDCOMBE ENVIRONMENTAL.GPJ WCC_AUS.GDT 7/9/09

Sample Interval PID (ppm)	Sample ID	Legend	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Classification	Depth (m)	Moisture Condition	WELL CONSTRUCTION DETAILS	
							Lockable Wellhead	PVC End Cap
0	SB01_0.5_29/05/09		TOPSOIL: Sandy materials, greyish black, with plant material, moist Becoming brown in colour at 0.15m		0	M MW		
			CLAY: Medium to high plasticity, greyish brown, with some iron staining, moist to wet Becoming hard at 0.80m with some ironstone fragments Bore discontinued @ 0.90m (Hand auger refusal)		1			
					2			
					3			
					4			
					5			
					6			
					7			
					8			



MONITORING WELL SB02

URS Australia Pty. Ltd. Level 3, 116 Miller Street, North Sydney		Phone: 02 8925 5500 Fax: 02 8925 5555		Project Reference: Phase I and II Site Investigations		Client: COSTCO	
Drilling Contractor: Macquarie Pty Ltd				Project No.: 43217997		Location: 17-21 Parramatta Rd, Lidcombe, NSW	
Logged By: J Siwadi		Bore Size: 100 mm		Relative Level: mAHD		Drill Type: Hand Augering	
Checked By: K Ye		Total Depth: 0.80 m		Coordinates: N		Drill Model: N/A	
Date Started: 29-5-09		Casing Size: mm		E		Drill Fluid: N/A	
Date Finished: 29-5-09				Permit No:			

Sample Interval PID (ppm)	Sample ID	Legend	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Classification	Depth (m)	Moisture Condition	WELL CONSTRUCTION DETAILS	
							Lockable Wellhead	PVC End Cap
0.2	SB02 0.70	29/05/09	TOPSOIL: Sandy soil, greyish black, moist		0	M		
			CLAY: Medium plasticity, reddish brown, moist			M		
			Gravelly CLAY: Medium plasticity, greyish brown, with some ironstone fragments, moist			M		
			Bore discontinued @ 0.80m (Hand auger refusal on ironstone)		1			
					2			
					3			
					4			
					5			
					6			
					7			
					8			

WELL_WITH_MOIST_CONDITION J:\JOBS\43217997\5 WORKS\ENVIRONMENTAL INVESTIGATION\LIDCOMBE ENVIRONMENTAL.GPJ WCC_AUS.GDT 7/9/09



MONITORING WELL SB04

URS Australia Pty. Ltd. Level 3, 116 Miller Street, North Sydney		Phone: 02 8925 5500 Fax: 02 8925 5555	Project Reference: Phase I and II Site Investigations	Client: COSTCO
Drilling Contractor: Macquarie Pty Ltd				Location: 17-21 Parramatta Rd, Lidcombe, NSW
Logged By: J Siwadi	Bore Size: 100 mm	Relative Level: mAHD	Project No.: 43217997	Drill Type: SFA "V" Bit, Hand Augering
Checked By: K Ye	Total Depth: 3.00 m	Coordinates: N		Drill Model: N/A
Date Started: 29-5-09	Casing Size: mm	E	Permit No:	Drill Fluid: N/A
Date Finished: 29-5-09				

WELL_WITH_MOIST_CONDITION J:\JOBS\43217997\5 WORKS\ENVIRONMENTAL INVESTIGATION\LIDCOMBE ENVIRONMENTAL.GPJ WCC_AUS.GDT 7/9/09

Sample Interval PID (ppm)	Sample ID	Legend	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Classification	Depth (m)	Moisture Condition	WELL CONSTRUCTION DETAILS	
							Lockable Wellhead	PVC End Cap
3.7	SB04_0.8_29/05/09		FILL: Sand, pale brown, medium grained, dry to moist		0	D/M		
			CLAY: Medium plasticity, greyish brown, mottled red, moist to wet Becoming dark brown at 0.6m		1	M/W		
			Becoming soft and wet at 1.50m, with some inclusions of black marine sandy clay		2	W		
			Becoming sandy and greyish brown at 2.10m		3			
	SB04_3.0_29/05/09		Bore discontinued @ 3.0m (Target depth reached)		3			
					4			
					5			
					6			
					7			
					8			



MONITORING WELL SB05

URS Australia Pty. Ltd. Level 3, 116 Miller Street, North Sydney		Phone: 02 8925 5500 Fax: 02 8925 5555	Project Reference: Phase I and II Site Investigations	Client: COSTCO
Drilling Contractor: Macquarie Pty Ltd				Location: 17-21 Parramatta Rd, Lidcombe, NSW
Logged By: J Siwadi	Bore Size: 100 mm	Relative Level: mAHD	Project No.: 43217997	Drill Type: SFA "V" Bit, Hand Augering
Checked By: K Ye	Total Depth: 3.00 m	Coordinates: 319488.00 N 6252972.00 E		Drill Model: Truck Mounted Rig
Date Started: 14-6-09	Casing Size: mm	Permit No:		Drill Fluid: N/A
Date Finished: 14-6-09				

WELL_WITH_MOIST_CONDITION J:\JOBS\43217997\5 WORKS\ENVIRONMENTAL INVESTIGATION\LIDCOMBE ENVIRONMENTAL.GPJ WCC_AUS.GDT 7/9/09





Sample Interval PID (ppm)	Sample ID	Legend	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Classification	Depth (m)	Moisture Condition	WELL CONSTRUCTION DETAILS	
							Lockable Wellhead	PVC End Cap
2	SB05_1.5_14/06/09		CONCRETE (130mm)		0			
			FILL: Sandy clay, low to medium plasticity, brownish black, with a trace of rock and concrete fragments		1			
			CLAY: Medium plasticity, greyish black, with a trace of rock fragments		2			
			Silty CLAY: Low to medium plasticity, black, with a trace of plant materials		3			
			Bore discontinued @ 3.0m (Target depth reached)		4			
					5			
					6			
					7			
					8			



MONITORING WELL SB06

URS Australia Pty. Ltd. Level 3, 116 Miller Street, North Sydney		Phone: 02 8925 5500 Fax: 02 8925 5555	Project Reference: Phase I and II Site Investigations	Client: COSTCO
Drilling Contractor: Macquarie Pty Ltd				Location: 17-21 Parramatta Rd, Lidcombe, NSW
Logged By: J Siwadi	Bore Size: 100 mm	Relative Level: mAHD	Project No.: 43217997	Drill Type: SFA "V" Bit, Hand Augering
Checked By: K Ye	Total Depth: 7.00 m	Coordinates: 319461.00 N 6252986.00 E		Drill Model: Truck Mounted Rig
Date Started: 13-6-09	Casing Size: mm	Permit No:		Drill Fluid: N/A
Date Finished: 13-6-09				

WELL_WITH_MOIST_CONDITION J:\JOBS\43217997\5 WORKS\ENVIRONMENTAL INVESTIGATION\LIDCOMBE ENVIRONMENTAL.GPJ WCC_AUS.GDT 7/9/09

Sample Interval PID (ppm)	Sample ID	Legend	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Classification	Depth (m)	Moisture Condition	WELL CONSTRUCTION DETAILS	
							Lockable Wellhead	PVC End Cap
1.2	SB06_0.9_13/06/09		Concrete (150mm)		0	M M		
			FILL: Sand, uniformly graded, angular, brown, moist Silty CLAY: Medium to high plasticity, grey, with a trace of roots, moist, very soft		1			
2.6	SB06_3.0_13/06/09		CLAY: Medium to high plasticity, grey, with a trace of gravels, moist to wet, very soft Perched water observed at 1.50m below surface		2	W		
			Becoming greyish brown with high plasticity at 3.0m		3			
3.1	SB06_4.5_13/06/09		Becoming dark grey at 4.30m, possibly marine clay		4			
			Perched water at 5.30m Getting harder to drill and hard in consistency from 5.50m		5			
1.8	SB06_6.0_13/06/09		Siltstone fragments observed below 5.8m		6			
			Bore discontinued @ 7.0m (V Bit refusal)		7			
					8			












MONITORING WELL SB07

Sheet 1 of 1

URS Australia Pty. Ltd. Level 3, 116 Miller Street, North Sydney		Phone: 02 8925 5500 Fax: 02 8925 5555	Project Reference: Phase I and II Site Investigations	Client: COSTCO
Drilling Contractor: Macquarie Pty Ltd				Location: 17-21 Parramatta Rd, Lidcombe, NSW
Logged By: J Siwadi	Bore Size: 100 mm	Relative Level: mAHD	Project No.: 43217997	Drill Type: SFA "Butterfly" Bit, Hand Augering
Checked By: K Ye	Total Depth: 6.70 m	Coordinates: 319518.00 N 6253002.00 E		Drill Model: Truck Mounted Rig
Date Started: 31-5-09	Casing Size: mm	Permit No:		Drill Fluid: N/A
Date Finished: 31-5-09				

WELL_WITH_MOIST_CONDITION J:\JOBS\43217997\5 WORKS\ENVIRONMENTAL INVESTIGATION\LIDCOMBE ENVIRONMENTAL.GPJ WCC_AUS.GDT 7/9/09







Sample Interval PID (ppm)	Sample ID	Legend	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Classification	Depth (m)	Moisture Condition	WELL CONSTRUCTION DETAILS	
							Lockable Wellhead	PVC End Cap
4.8	SB07_1.1_31/05/09 QC103_31/05/09	        	CONCRETE (150mm)		0	M		
			FILL: Sand, uniformly graded, angular, dirty brown, fine to medium grained, moist			M		
			CLAY: Medium to high plasticity, reddish brown, moist		1			
			Silty CLAY: Medium plasticity, dark grey, moist to wet, firm			M/W		
			(Wet possibly due to perched water at 1.80m) Becoming pale brown at 2.0m		2			
			With a trace of ironstone at 2.30m Becoming greyish brown at 2.45m					
					3			
			Stiff below 3.50m		4			
			Siltstone fragments observed at 4.70m		5			
			Dry below 5.00m SHALE: extremely low strength, extremely weathered, dark grey		6			
			Bore discontinued @ 6.7m (Butterfly bit refusal)		7			
					8			



MONITORING WELL SB08

URS Australia Pty. Ltd. Level 3, 116 Miller Street, North Sydney		Phone: 02 8925 5500 Fax: 02 8925 5555	Project Reference: Phase I and II Site Investigations	Client: COSTCO
Drilling Contractor: Macquarie Pty Ltd				Location: 17-21 Parramatta Rd, Lidcombe, NSW
Logged By: J Siwadi	Bore Size: 100 mm	Relative Level: mAHD	Project No.: 43217997	Drill Type: SFA "V" Bit, Hand Augering
Checked By: K Ye	Total Depth: 3.00 m	Coordinates: 319480.00 N 6252999.00 E		Drill Model: Truck Mounted Rig
Date Started: 14-6-09	Casing Size: mm	Permit No:		Drill Fluid: N/A
Date Finished: 14-6-09				

WELL_WITH_MOIST_CONDITION J:\JOBS\43217997\5 WORKS\ENVIRONMENTAL INVESTIGATION\LIDCOMBE ENVIRONMENTAL.GPJ WCC_AUS.GDT 7/9/09

Sample Interval PID (ppm)	Sample ID	Legend	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Classification	Depth (m)	Moisture Condition	WELL CONSTRUCTION DETAILS	
							Lockable Wellhead	PVC End Cap
3.5	SB08_0.9_14/06/09	   	CONCRETE (130mm)		0			
			FILL: Sand, medium grained, brown					
			CLAY: Medium plasticity, mottled red-brownish grey, with a trace of plant material					
			Becoming mottled grey-reddish brown and stiff at 0.8m		1			
2.5	SB08_2.8_14/06/09	 	Becoming greyish red and softer at 1.8m		2			
			Becoming mottled red-brownish grey and medium to high plasticity at 2.4m		3			
			Bore discontinued @ 3.0m (Target depth reached)		3			
					4			
					5			
					6			
					7			
					8			



MONITORING WELL SB09

URS Australia Pty. Ltd. Level 3, 116 Miller Street, North Sydney		Phone: 02 8925 5500 Fax: 02 8925 5555	Project Reference: Phase I and II Site Investigations	Client: COSTCO
Drilling Contractor: Macquarie Pty Ltd				Location: 17-21 Parramatta Rd, Lidcombe, NSW
Logged By: J Siwadi	Bore Size: 100 mm	Relative Level: mAHD	Project No.: 43217997	Drill Type: SFA "V" Bit, Hand Augering
Checked By: K Ye	Total Depth: 3.00 m	Coordinates: 319503.00 N 6253023.00 E		Drill Model: Truck Mounted Rig
Date Started: 14-6-09	Casing Size: mm	Permit No:		Drill Fluid: N/A
Date Finished: 14-6-09				

WELL_WITH_MOIST_CONDITION J:\JOBS\43217997\5 WORKS\ENVIRONMENTAL INVESTIGATION\LIDCOMBE ENVIRONMENTAL.GPJ WCC_AUS.GDT 7/9/09

Sample Interval PID (ppm)	Sample ID	Legend	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Classification	Depth (m)	Moisture Condition	WELL CONSTRUCTION DETAILS	
							Lockable Wellhead	PVC End Cap
1.7	SB09_0.9_14/06/09		CONCRETE (130mm)		0			
			FILL: Clay, medium plasticity, greyish brown, with a trace of sand and plant materials		1			
			Becoming greyish red and medium plasticity		2			
2.7	SB09_2.8_14/06/09		Becoming mottled orange-brownish grey and stiff at 1.8m		3			
			Bore discontinued @ 3.0m (Target depth reached)		4			
					5			
					6			
					7			
					8			



MONITORING WELL SB10

URS Australia Pty. Ltd. Level 3, 116 Miller Street, North Sydney	Phone: 02 8925 5500 Fax: 02 8925 5555	Project Reference: Phase I and II Site Investigations	Client: COSTCO
Drilling Contractor: Macquarie Pty Ltd		Project No.: 43217997	Location: 17-21 Parramatta Rd, Lidcombe, NSW
Logged By: J Siwadi	Bore Size: 100 mm	Relative Level: mAHD	Drill Type: SFA "V" Bit, Hand Augering
Checked By: K Ye	Total Depth: 6.30 m	Coordinates: 319523.00 N	Drill Model: Truck Mounted Rig
Date Started: 13-6-09	Casing Size: mm	6253020.00 E	Drill Fluid: N/A
Date Finished: 13-6-09		Permit No:	

WELL_WITH_MOIST_CONDITION J:\JOBS\43217997\5 WORKS\ENVIRONMENTAL INVESTIGATION\LIDCOMBE ENVIRONMENTAL.GPJ WCC_AUS.GDT 7/9/09

Sample Interval PID (ppm)	Sample ID	Legend	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Classification	Depth (m)	Moisture Condition	WELL CONSTRUCTION DETAILS	
							Lockable Wellhead	PVC End Cap
3.1	SB10_1.0_13/06/09		CONCRETE (190mm)		0	D/M		
			FILL: Sand, uniformly graded, angular, brown, with a trace of glass and sandstone fragments, dry to moist					
1.3	SB10_3.0_13/06/09 QC104_13/06/09		Furnace SLAG, black, with some gravels		1	D/M		
			CLAY: Medium plasticity, brownish grey, moist, firm			M		
					2			
					3			
			Perched water located at 3.00m below surface					
					4			
			Becoming brown mottled grey at 4.20m					
			Stiff below 4.50m					
					5			
			Getting harder to drill and shale fragments observed below 5.50m					
			V Bit refusal at 6.00m		6			
			Bore discontinued @ 6.3m (V Bit refusal)		7			
					8			



MONITORING WELL SB11

URS Australia Pty. Ltd. Level 3, 116 Miller Street, North Sydney		Phone: 02 8925 5500 Fax: 02 8925 5555	Project Reference: Phase I and II Site Investigations	Client: COSTCO
Drilling Contractor: Macquarie Pty Ltd				Location: 17-21 Parramatta Rd, Lidcombe, NSW
Logged By: J Siwadi	Bore Size: 100 mm	Relative Level: mAHD	Project No.: 43217997	Drill Type: SFA "V" Bit, Hand Augering
Checked By: K Ye	Total Depth: 3.00 m	Coordinates: 319544.00 N 6253028.00 E		Drill Model: Truck Mounted Rig
Date Started: 14-6-09	Casing Size: mm	Permit No:		Drill Fluid: N/A
Date Finished: 14-6-09				

WELL_WITH_MOIST_CONDITION J:\JOBS\43217997\5 WORKS\ENVIRONMENTAL INVESTIGATION\LIDCOMBE ENVIRONMENTAL.GPJ WCC_AUS.GDT 7/9/09

Sample Interval PID (ppm)	Sample ID	Legend	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Classification	Depth (m)	Moisture Condition	WELL CONSTRUCTION DETAILS	
							Lockable Wellhead	PVC End Cap
1.9	SB11_1.0_14/06/09		Concrete (130mm)		0			
			FILL: Sand, brown, medium grained					
			FILL: Clayey sand, greyish brown					
			FILL: Sand, brown, medium grained		1			
2.3	SB11_3.0_14/06/06		CLAY: Low to medium plasticity, brownish grey		2			
			Becoming silty at 2.5m					
			CLAY: Low plasticity, mottled brown grey, with a trace of silt		3			
			Bore discontinued @ 3.0m (Target depth reached)					
					4			
					5			
					6			
					7			
					8			

URS Australia Pty. Ltd. Level 3, 116 Miller Street, North Sydney		Phone: 02 8925 5500 Fax: 02 8925 5555	Project Reference: Phase I and II Site Investigations	Client: COSTCO
Drilling Contractor: Macquarie Pty Ltd				Location: 17-21 Parramatta Rd, Lidcombe, NSW
Logged By: J Siwadi		Bore Size: 100 mm	Project No.: 43217997	Drill Type: SFA "V" Bit, Hand Augering Drill Model: Hydra Power Drill Fluid: N/A
Checked By: K Ye		Total Depth: 8.00 m	Relative Level: mAHD	
Date Started: 30-5-09		Casing Size: mm	Coordinates: 319560.00 N 6253035.00 E	
Date Finished: 30-5-09			Permit No:	

WELL_WITH_MOIST_CONDITION J:\JOBS\43217997\5 WORKS\ENVIRONMENTAL INVESTIGATION\LIDCOMBE ENVIRONMENTAL.GPJ WCC_AUS.GDT 7/9/09











Sample Interval PID (ppm)	Sample ID	Legend	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Classification	Depth (m)	Moisture Condition	WELL CONSTRUCTION DETAILS	
							Lockable Wellhead	PVC End Cap
			BITUMEN (100mm) Road Base		0			
4.3	SB12_0.9_30/05/09		FILL: Sand, uniformly graded, angular, brown, fine to medium grained, moist		1	M		
1.9	SB12_1.9_30/05/09		Silty CLAY: Low to medium plasticity, dark grey, with a trace of fine sand, moist, soft Very soft from 2.0m to 2.4m Wet at 2.10m, possibly due to perched water		2	M		
			As above, but soft to firm		3			
			Becoming very soft		4			
			Becoming black grey at 4.2m					
			Becoming stiff		5			
			Becoming reddish brown at 5.2m					
			Ironstone band observed between 5.2m to 5.4m CLAY: Medium plasticity, reddish brown, moist, stiff		6	M		
			Very stiff and dry to moist from 6m					
			SHALE: Weathered, grey		7			
			Resistance on V Bit increases at 7.7m					
			Bore discontinued @ 8.0m (V Bit Refusal)		8			



MONITORING WELL SB13

URS Australia Pty. Ltd. Level 3, 116 Miller Street, North Sydney		Phone: 02 8925 5500 Fax: 02 8925 5555	Project Reference: Phase I and II Site Investigations	Client: COSTCO
Drilling Contractor: Macquarie Pty Ltd				Location: 17-21 Parramatta Rd, Lidcombe, NSW
Logged By: J Siwadi	Bore Size: 100 mm	Relative Level: mAHD	Project No.: 43217997	Drill Type: SFA "V" Bit, Hand Augering
Checked By: K Ye	Total Depth: 3.00 m	Coordinates: 319578.00 N 6253038.00 E		Drill Model: Hydra Power
Date Started: 30-5-09	Casing Size: mm	Permit No:		Drill Fluid: N/A
Date Finished: 30-5-09				

WELL_WITH_MOIST_CONDITION J:\JOBS\43217997\5 WORKS\ENVIRONMENTAL INVESTIGATION\LIDCOMBE ENVIRONMENTAL.GPJ WCC_AUS.GDT 7/9/09

Sample Interval PID (ppm)	Sample ID	Legend	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Classification	Depth (m)	Moisture Condition	WELL CONSTRUCTION DETAILS	
							Lockable Wellhead	PVC End Cap
1.0	SB13_0.8_30/05/09 QC101_30/05/09 / QC201_30/05/09	       	CONCRETE (150mm)		0	M		
			FILL: Gravelly sand, poorly graded, angular, dark brown, with a trace of igneous rock fragments and clay, moist			M		
			FILL: Sandy clay, medium plasticity, greyish brown, moist			M		
			FILL: Sand, uniformly graded, angular, brown, moist		1	M		
			Sandy CLAY: Medium plasticity, greyish brown, moist			M		
			Clayey SAND: Medium size grained, uniformly graded, angular, brown, moist		2	M		
1.0	SB13_3.0_30/05/09	 	Sandy SILT: Dark brown, moist		3	M		
			Silty CLAY: Medium plasticity, greyish brown, moist			M		
			Bore discontinued @ 3.0m (Target depth reached)		3			
					4			
					5			
					6			
					7			
					8			



MONITORING WELL SB14

Sheet 1 of 1

URS Australia Pty. Ltd. Level 3, 116 Miller Street, North Sydney	Phone: 02 8925 5500 Fax: 02 8925 5555	Project Reference: Phase I and II Site Investigations	Client: COSTCO
Drilling Contractor: Macquarie Pty Ltd		Project No.: 43217997	Location: 17-21 Parramatta Rd, Lidcombe, NSW
Logged By: J Siwadi	Bore Size: 100 mm	Relative Level: mAHD	Drill Type: SFA "V" Bit, Hand Augering
Checked By: K Ye	Total Depth: 6.90 m	Coordinates: 319588.00 N	Drill Model: Hydra Power
Date Started: 30-5-09	Casing Size: mm	6253011.00 E	Drill Fluid: N/A
Date Finished: 30-5-09		Permit No:	

WELL_WITH_MOIST_CONDITION J:\JOBS\43217997\5 WORKS\ENVIRONMENTAL INVESTIGATION\LIDCOMBE ENVIRONMENTAL.GPJ WCC_AUS.GDT 7/9/09

Sample Interval PID (ppm)	Sample ID	Legend	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Classification	Depth (m)	Moisture Condition	WELL CONSTRUCTION DETAILS	
							Lockable Wellhead	PVC End Cap
1.8	SB14_0.5_30/05/09		BITUMEN (30mm) SLAG FILL: Sand, uniformly graded, angular, brown, fine to medium size grain, moist		0	M		
1.6	SB14_1.1_30/05/09				1			
0.9	SB14_1.8_30/05/09		Sandy Silty CLAY: Medium plasticity, reddish brown, moist, firm to stiff		2	M		
1.4	SB14_3.1_30/05/09		With a trace of ironstone from 3m		3			
			Increasing ironstone at 4.5m		4			
					5			
					6			
			SHALE: Weathered, dark grey		6			
			Bore discontinued @ 6.9m (V Bit refusal)		7			
					8			



MONITORING WELL SB15

URS Australia Pty. Ltd. Level 3, 116 Miller Street, North Sydney		Phone: 02 8925 5500 Fax: 02 8925 5555	Project Reference: Phase I and II Site Investigations	Client: COSTCO Location: 17-21 Parramatta Rd, Lidcombe, NSW
Drilling Contractor: Macquarie Pty Ltd				
Logged By: J Siwadi	Bore Size: 100 mm	Relative Level: mAHD	Project No.: 43217997	Drill Type: SFA "V" Bit, Hand Augering
Checked By: K Ye	Total Depth: 7.14 m	Coordinates: 319604.00 N 6253035.00 E		
Date Started: 13-6-09	Casing Size: mm	Permit No:		Drill Model: Truck Mounted Rig
Date Finished: 13-6-09				Drill Fluid: N/A

WELL_WITH_MOIST_CONDITION J:\JOBS\43217997\5 WORKS\ENVIRONMENTAL INVESTIGATION\LIDCOMBE ENVIRONMENTAL.GPJ WCC_AUS.GDT 7/9/09

Sample Interval PID (ppm)	Sample ID	Legend	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Classification	Depth (m)	Moisture Condition	WELL CONSTRUCTION DETAILS	
							Lockable Wellhead	PVC End Cap
0.3	SB15_0.8_13/06/09		CONCRETE (150mm)		0	M		
			FILL: Sand, uniformly graded, angular, brown, moist		1			
					2			
			Silty SAND: Poorly graded, dark brown, dry to moist, loose		3	D/M		
			CLAY: Low to medium plasticity, brown mottled red, dry to moist, soft to firm		4	D/M		
					5			
			CLAY: Medium to high plasticity, greyish brown, with some ironstone, moist, soft to firm		6	M		
			Becoming brown and wet below 6.45m		7			
			Bore discontinued @ 7.14m (V Bit refusal)		8			



MONITORING WELL SB16

URS Australia Pty. Ltd. Level 3, 116 Miller Street, North Sydney		Phone: 02 8925 5500 Fax: 02 8925 5555	Project Reference: Phase I and II Site Investigations	Client: COSTCO
Drilling Contractor: Macquarie Pty Ltd				Location: 17-21 Parramatta Rd, Lidcombe, NSW
Logged By: J Siwadi	Bore Size: 100 mm	Relative Level: mAHD	Project No.: 43217997	Drill Type: SFA "V" Bit, Hand Augering
Checked By: K Ye	Total Depth: 5.00 m	Coordinates: 319621.00 N 6252997.00 E		Drill Model: Truck Mounted Rig
Date Started: 14-6-09	Casing Size: mm	Permit No:		Drill Fluid: N/A
Date Finished: 14-6-09				

WELL_WITH_MOIST_CONDITION J:\JOBS\43217997\5 WORKS\ENVIRONMENTAL INVESTIGATION\LIDCOMBE ENVIRONMENTAL.GPJ WCC_AUS.GDT 7/9/09











Sample Interval PID (ppm)	Sample ID	Legend	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Classification	Depth (m)	Moisture Condition	WELL CONSTRUCTION DETAILS	
							Lockable Wellhead	PVC End Cap
			BITUMEN and ROAD BASE		0			
1.4	SB16_0.9_14/06/09		FILL: Sand, medium grained, brown		1			
1.1	SB16_3.0_14/06/09		Becoming dark brown at 2.5m Becoming greyish black at 2.9m and wet		3	W		
2.2	SB16_4.5_14/06/09		CLAY: Medium plasticity, brownish black, with a trace of silt		4			
			Bore discontinued @ 5.0m (tagget depth reached)		5			
					6			
					7			
					8			



MONITORING WELL SB17

URS Australia Pty. Ltd. Level 3, 116 Miller Street, North Sydney	Phone: 02 8925 5500 Fax: 02 8925 5555	Project Reference: Phase I and II Site Investigations	Client: COSTCO
Drilling Contractor: Macquarie Pty Ltd		Project No.: 43217997	Location: 17-21 Parramatta Rd, Lidcombe, NSW
Logged By: J Siwadi	Bore Size: 100 mm	Relative Level: mAHD	Drill Type: SFA "V" Bit, Hand Augering
Checked By: K Ye	Total Depth: 4.00 m	Coordinates: 319653.00 N	Drill Model: Truck Mounted Rig
Date Started: 14-6-09	Casing Size: mm	6252924.00 E	Drill Fluid: N/A
Date Finished: 14-6-09		Permit No:	

WELL_WITH_MOIST_CONDITION J:\JOBS\43217997\5 WORKS\ENVIRONMENTAL INVESTIGATION\LIDCOMBE ENVIRONMENTAL.GPJ WCC_AUS.GDT 7/9/09

Sample Interval PID (ppm)	Sample ID	Legend	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Classification	Depth (m)	Moisture Condition	WELL CONSTRUCTION DETAILS	
							Lockable Wellhead	PVC End Cap
	SB17_2.0_14/06/09		BITUMEN and ROAD BASE		0	W		
			FILL: Sand, medium grained, brown, with some clay		1			
					2			
					3			
			Becoming greyish brown at 2.7m		4			
			Becoming wet at 3.1m		5			
			Silty CLAY: Low to medium plasticity, brownish black, wet		6			
			Becoming grey with more silt and low plasticity at 3.8m		7			
			Bore discontinued @ 4.0m (Target depth reached)		8			
					9			



MONITORING WELL SB18

URS Australia Pty. Ltd. Level 3, 116 Miller Street, North Sydney	Phone: 02 8925 5500 Fax: 02 8925 5555	Project Reference: Phase I and II Site Investigations	Client: COSTCO
Drilling Contractor: Macquarie Pty Ltd		Project No.: 43217997	Location: 17-21 Parramatta Rd, Lidcombe, NSW
Logged By: J Siwadi	Bore Size: 100 mm	Relative Level: mAHD	Drill Type: SFA "V" Bit, Hand Augering
Checked By: K Ye	Total Depth: 7.13 m	Coordinates: N	Drill Model: Truck Mounted Rig
Date Started: 29-5-09	Casing Size: mm	E	Drill Fluid: N/A
Date Finished: 29-5-09		Permit No:	

WELL_WITH_MOIST_CONDITION J:\JOBS\43217997\5 WORKS\ENVIRONMENTAL INVESTIGATION\LIDCOMBE ENVIRONMENTAL.GPJ WCC_AUS.GDT 7/9/09

Sample Interval PID (ppm)	Sample ID	Legend	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Classification	Depth (m)	Moisture Condition	WELL CONSTRUCTION DETAILS	
							Lockable Wellhead	PVC End Cap
			BITUMEN (60mm)		0			
			Road Base			M		
			FILL: Sand, uniformly graded, angular, brown, fine to medium grained, moist					
			Sandy CLAY: Medium plasticity, brownish dark grey, moist		1	M		
2.4	SB18_1.5_29/05/09 QC100_29/05/09		Becoming reddish grey at 2.0m		2			
			Very stiff from 3.0m		3			
1.1	SB18_3.0_29/05/09		Silty CLAY: Medium plasticity, reddish brown, dry to moist, hard		4	D/M		
			Very stiff from 5.0m		5			
			SHALE: Weathered, dark grey		6	D		
			Bore discontinued @ 7.13m (Refusal)		7			
					8			



MONITORING WELL SB19

URS Australia Pty. Ltd. Level 3, 116 Miller Street, North Sydney		Phone: 02 8925 5500 Fax: 02 8925 5555	Project Reference: Phase I and II Site Investigations	Client: COSTCO
Drilling Contractor: Macquarie Pty Ltd				Location: 17-21 Parramatta Rd, Lidcombe, NSW
Logged By: J Siwadi	Bore Size: 100 mm	Relative Level: mAHD	Project No.: 43217997	Drill Type: SFA "V" Bit, Hand Augering
Checked By: K Ye	Total Depth: 4.00 m	Coordinates: 319642.00 N 6252990.00 E		Drill Model: Truck Mounted Rig
Date Started: 29-5-09	Casing Size: mm	Permit No:		Drill Fluid: N/A
Date Finished: 29-5-09				

WELL_WITH_MOIST_CONDITION J:\JOBS\43217997\5 WORKS\ENVIRONMENTAL INVESTIGATION\LIDCOMBE ENVIRONMENTAL.GPJ WCC_AUS.GDT 7/9/09

Sample Interval PID (ppm)	Sample ID	Legend	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Classification	Depth (m)	Moisture Condition	WELL CONSTRUCTION DETAILS	
							Lockable Wellhead	PVC End Cap
2.5	SB19_0.5_14/06/09		BITUMEN and ROAD BASE		0			
			FILL: Sand, medium grained, brown, with minor clay		1			
3.0	SB19_3.5_14/06/09		FILL: Clay, medium plasticity, mottled red grey, stiff		2			
			Becoming reddish brown and gravelly with a trace of ironstone fragments at 3.0m		3			
			Silty CLAY: Medium plasticity, brownish grey, with some orange mottling		4			
			Bore discontinued @ 4m (Target depth reached)		5			
					6			
					7			
					8			



MONITORING WELL SB20

URS Australia Pty. Ltd. Level 3, 116 Miller Street, North Sydney		Phone: 02 8925 5500 Fax: 02 8925 5555	Project Reference: Phase I and II Site Investigations	Client: COSTCO
Drilling Contractor: Macquarie Pty Ltd				Location: 17-21 Parramatta Rd, Lidcombe, NSW
Logged By: J Siwadi	Bore Size: 100 mm	Relative Level: mAHD	Project No.: 43217997	Drill Type: SFA "V" Bit, Hand Augering
Checked By: K Ye	Total Depth: 4.00 m	Coordinates: 319680.00 N 6252973.00 E		Drill Model: Truck Mounted Rig
Date Started: 14-6-09	Casing Size: mm	Permit No:		Drill Fluid: N/A
Date Finished: 14-6-09				

WELL_WITH_MOIST_CONDITION J:\JOBS\43217997\5 WORKS\ENVIRONMENTAL INVESTIGATION\LIDCOMBE ENVIRONMENTAL.GPJ WCC_AUS.GDT 7/9/09

Sample Interval PID (ppm)	Sample ID	Legend	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Classification	Depth (m)	Moisture Condition	WELL CONSTRUCTION DETAILS	
							Lockable Wellhead	PVC End Cap
			CONCRETE (100mm)		0			
			FILL: Sand, medium grained, brown					
			FILL: Sandy clay, brownish black, with some rock fragments, slags, and glass					
			Becoming brown with less sand and stiff at 1.1m		1			
			Becoming mottled orange/grey red at 1.7m, medium plasticity		2			
			CLAY: Medium to high plasticity, red, mottled grey					
1.8	SB20_3.0_14/06/09		Becoming brownish grey at 3.8m		3			
			Bore discontinued @ 4.0m (Target depth reached)		4			
					5			
					6			
					7			
					8			



MONITORING WELL SB21

URS Australia Pty. Ltd. Level 3, 116 Miller Street, North Sydney		Phone: 02 8925 5500 Fax: 02 8925 5555	Project Reference: Phase I and II Site Investigations	Client: COSTCO
Drilling Contractor: Macquarie Pty Ltd				Location: 17-21 Parramatta Rd, Lidcombe, NSW
Logged By: J Siwadi	Bore Size: 100 mm	Relative Level: mAHD	Project No.: 43217997	Drill Type: SFA "V" Bit, Hand Augering
Checked By: K Ye	Total Depth: 3.00 m	Coordinates: 319670.00 N 6252966.00 E		Drill Model: Truck Mounted Rig
Date Started: 14-6-09	Casing Size: mm	Permit No:		Drill Fluid: N/A
Date Finished: 14-6-09				

WELL_WITH_MOIST_CONDITION J:\JOBS\43217997\5 WORKS\ENVIRONMENTAL INVESTIGATION\LIDCOMBE ENVIRONMENTAL.GPJ WCC_AUS.GDT 7/9/09

Sample Interval PID (ppm)	Sample ID	Legend	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Classification	Depth (m)	Moisture Condition	WELL CONSTRUCTION DETAILS	
							Lockable Wellhead	PVC End Cap
2.2	SB21_0.8_14/06/09		CONCRETE (130mm)		0			
			FILL: Sand, medium grained, brown, with minor clay					
			CLAY: Medium plasticity, brownish black, with some rock fragments		1			
1.9	SB21_3.0_14/06/09		Becoming brown at 1.3m		2			
			CLAY: Medium to high plasticity, mottled grey/brownish red, with some ironstone fragments		3			
			Becoming mottled brown-grey at 2.7m		4			
			Bore discontinued @ 3.0m (Target depth reached)		5			
					6			
					7			
					8			



MONITORING WELL SB22

URS Australia Pty. Ltd. Level 3, 116 Miller Street, North Sydney		Phone: 02 8925 5500 Fax: 02 8925 5555	Project Reference: Phase I and II Site Investigations	Client: COSTCO
Drilling Contractor: Macquarie Pty Ltd				Location: 17-21 Parramatta Rd, Lidcombe, NSW
Logged By: J Siwadi	Bore Size: 100 mm	Relative Level: mAHD	Project No.: 43217997	Drill Type: SFA "Butterfly" Bit, Hand Augering
Checked By: K Ye	Total Depth: 5.40 m	Coordinates: 319653.00 N 6252924.00 E		Drill Model: Truck Mounted Rig
Date Started: 31-5-09	Casing Size: mm	Permit No:		Drill Fluid: N/A
Date Finished: 31-5-09				



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Sample Interval PID (ppm)	Sample ID	Legend	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Classification	Depth (m)	Moisture Condition	WELL CONSTRUCTION DETAILS	
							Lockable Wellhead	PVC End Cap
2.6	SB22_0.8_31/05/09		CONCRETE (120mm)		0	M		
			FILL: Sand, uniformly graded, angular, brown, fine to medium size grain, moist			M		
3.4	SB22_3.0_31/05/09		CLAY: Medium to high plasticity, reddish brown, moist		1			
			Becoming mottled brown at 0.8m and minor ironstone					
			Becoming greyish brown at 1.30m		2			
			Very stiff in consistency from 2.0m					
			Dry from 2.5m		3	D		
			Hard from 3.0m					
			With a trace of ironstone at 3.45m		4			
			SHALE: Weathered, dark grey		5			
			Bore discontinued @ 5.4m (Butterfly bit refusal)		6			
					7			
					8			



MONITORING WELL SB23

URS Australia Pty. Ltd. Level 3, 116 Miller Street, North Sydney		Phone: 02 8925 5500 Fax: 02 8925 5555	Project Reference: Phase I and II Site Investigations	Client: COSTCO
Drilling Contractor: Macquarie Pty Ltd				Location: 17-21 Parramatta Rd, Lidcombe, NSW
Logged By: J Siwadi	Bore Size: 100 mm	Relative Level: mAHD	Project No.: 43217997	Drill Type: SFA "V" Bit, Hand Augering
Checked By: K Ye	Total Depth: 2.00 m	Coordinates: 319643.00 N 6252910.00 E		Drill Model: Truck Mounted Rig
Date Started: 14-6-09	Casing Size: mm	Permit No:		Drill Fluid: N/A
Date Finished: 14-6-09				

Sample Interval PID (ppm)	Sample ID	Legend	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Classification	Depth (m)	Moisture Condition	WELL CONSTRUCTION DETAILS	
							Lockable Wellhead	PVC End Cap
3.0	SB23_1.0_14/06/09	 	CONCRETE (130mm)		0			
			CLAY: Medium to high plasticity, mottled grey / reddish brown, with a trace of ironstone rock fragments		1			
			Becoming greyish brown at 1.5m		2			
			Bore discontinued @ 2.0m (Target depth reached)		3			
					4			
					5			
					6			
					7			
					8			

WELL_WITH_MOIST_CONDITION J:\JOBS\43217997\5 WORKS\ENVIRONMENTAL INVESTIGATION\LIDCOMBE ENVIRONMENTAL.GPJ WCC_AUS.GDT 7/9/09



MONITORING WELL SB24

URS Australia Pty. Ltd. Level 3, 116 Miller Street, North Sydney		Phone: 02 8925 5500 Fax: 02 8925 5555	Project Reference: Phase I and II Site Investigations	Client: COSTCO
Drilling Contractor: Macquarie Pty Ltd				Location: 17-21 Parramatta Rd, Lidcombe, NSW
Logged By: J Siwadi	Bore Size: 100 mm	Relative Level: mAHD	Project No.: 43217997	Drill Type: SFA "V" Bit, Hand Augering
Checked By: K Ye	Total Depth: 5.00 m	Coordinates: N		Drill Model: XC
Date Started: 4-7-09	Casing Size: mm	E	Permit No:	Drill Fluid: N/A
Date Finished: 4-7-09				

WELL_WITH_MOIST_CONDITION J:\JOBS\43217997\5 WORKS\ENVIRONMENTAL INVESTIGATION\LIDCOMBE ENVIRONMENTAL.GPJ WCC_AUS.GDT 7/9/09

Sample Interval PID (ppm)	Sample ID	Legend	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Classification	Depth (m)	Moisture Condition	WELL CONSTRUCTION DETAILS	
							Lockable Wellhead	PVC End Cap
1.2	SB24_1.5_04/07/09		CONCRETE (150mm)		0			
			FILL: Sand, medium grained, brown					
1.1	SB24_3.0_04/07/09		Sandy CLAY: Low to medium plasticity, mottled brown/greyish black, with some rock fragments and a trace of plant materials		1			
			Becoming greyish brown and medium plasticity at 0.9m					
			CLAY: Medium to high plasticity, greyish brown, moist		2			
					3			
					4			
					5			
			Bore discontinued @ 5.0m (Target depth reached)		6			
					7			
					8			



MONITORING WELL SB25

URS Australia Pty. Ltd. Level 3, 116 Miller Street, North Sydney		Phone: 02 8925 5500 Fax: 02 8925 5555	Project Reference: Phase I and II Site Investigations	Client: COSTCO
Drilling Contractor: Macquarie Pty Ltd			Project No.: 43217997	Location: 17-21 Parramatta Rd, Lidcombe, NSW
Logged By: J Siwadi	Bore Size: 100 mm	Relative Level: mAHD	Drill Type: SFA "V" Bit, Hand Augering	
Checked By: K Ye	Total Depth: 6.00 m	Coordinates: N		
Date Started: 4-7-09	Casing Size: mm	E		
Date Finished: 4-7-09		Permit No:	Drill Model: XC	
			Drill Fluid: N/A	

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Sample Interval PID (ppm)	Sample ID	Legend	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Classification	Depth (m)	Moisture Condition	WELL CONSTRUCTION DETAILS	
							Lockable Wellhead	PVC End Cap
1.5	SB25_1.0_04/07/09		CONCRETE (150mm)		0	W		
			FILL: Sand, medium grained, brown, with a trace of clay and rock fragments		1			
1.7	SB25_3.0_04/07/09		CLAY: Medium plasticity, brown mottled grey, with some rock fragments		2			
			FILL: Sand, fine to medium grained, brown		3			
2.5	SB25_4.0_04/07/09 QC106_04/07/09		Wet at 2.9m below surface		4			
			Clayey SAND: Medium grained, brownish grey, with a trace of rock fragments		5			
			Silty CLAY: Low plasticity, greyish brown		6			
			CLAY: Medium plasticity, brownish grey, wet		7			
			Becoming mottled red with some ironstone rock fragments		8			
			Bore discontinued @ 6.0m (Target depth reached)					



MONITORING WELL SB26

URS Australia Pty. Ltd. Level 3, 116 Miller Street, North Sydney		Phone: 02 8925 5500 Fax: 02 8925 5555	Project Reference: Phase I and II Site Investigations	Client: COSTCO
Drilling Contractor: Macquarie Pty Ltd				Location: 17-21 Parramatta Rd, Lidcombe, NSW
Logged By: J Siwadi	Bore Size: 100 mm	Relative Level: mAHD	Project No.: 43217997	Drill Type: SFA "V" Bit, Hand Augering
Checked By: K Ye	Total Depth: 3.00 m	Coordinates: N		Drill Model: XC
Date Started: 4-7-09	Casing Size: mm	E	Permit No:	Drill Fluid: N/A
Date Finished: 4-7-09				

WELL_WITH_MOIST_CONDITION J:\JOBS\43217997\5 WORKS\ENVIRONMENTAL INVESTIGATION\LIDCOMBE ENVIRONMENTAL.GPJ WCC_AUS.GDT 7/9/09




Sample Interval PID (ppm)	Sample ID	Legend	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Classification	Depth (m)	Moisture Condition	WELL CONSTRUCTION DETAILS	
							Lockable Wellhead	PVC End Cap
1.6	SB26_1.5_04/07/09		CONCRETE (150mm)		0			
			FILL: Sand, medium grained, brown, with some rock fragments and clay		1			
			CLAY: Medium plasticity, reddish brown mottled grey, with some ironstone and rock fragments		2			
			CLAY: Medium plasticity, brownish grey, stiff		3			
			Bore discontinued @ 3.0m (Target depth reached)		4			
					5			
					6			
					7			
					8			



MONITORING WELL SB27

URS Australia Pty. Ltd. Level 3, 116 Miller Street, North Sydney		Phone: 02 8925 5500 Fax: 02 8925 5555		Project Reference: Phase I and II Site Investigations		Client: COSTCO	
Drilling Contractor: Macquarie Pty Ltd				Project No.: 43217997		Location: 17-21 Parramatta Rd, Lidcombe, NSW	
Logged By: J Siwadi		Bore Size: 100 mm		Relative Level: mAHD		Drill Type: SFA "V" Bit, Hand Augering	
Checked By: K Ye		Total Depth: 2.80 m		Coordinates: N		Drill Model: XC	
Date Started: 4-7-09		Casing Size: mm		Permit No:		Drill Fluid: N/A	
Date Finished: 4-7-09							

WELL_WITH_MOIST_CONDITION J:\JOBS\43217997\5 WORKS\ENVIRONMENTAL INVESTIGATION\LIDCOMBE ENVIRONMENTAL.GPJ WCC_AUS.GDT 7/9/09

Sample Interval PID (ppm)	Sample ID	Legend	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Classification	Depth (m)	Moisture Condition	WELL CONSTRUCTION DETAILS	
							Lockable Wellhead	PVC End Cap
✖	SB27_0.8_04/07/09	  	CONCRETE (150mm)		0			
			FILL: Sand, medium grained, brown, with some clay		1			
			CLAY: Medium plasticity, reddish brown mottled grey, stiff		2			
			Becoming brownish grey at 1.8m		3			
			Becoming reddish brown, hard, and with some ironstone fragments at 2.3m		4			
			Bore discontinued @ 2.8m (Target depth reached)		5			
					6			
					7			
					8			

Appendix G Monitoring Wells Logs

URS Australia Pty. Ltd. Level 3, 116 Miller Street, North Sydney		Phone: 02 8925 5500 Fax: 02 8925 5555	Project Reference: Preliminary Geotechnical Assessment	Client: Costco Wholesale (Australia) Pty Ltd
Drilling Contractor: Terratest Pty Ltd			Project No.: 43217997	Location: 17-21 Parramatta Rd, Lidcombe
Logged By: J Kor	Bore Size: 100 mm	Relative Level: mAHD	Drill Type: SFA "V" Bit, Hand Augering	
Checked By: V Tandjiria	Total Depth: 15.00 m	Coordinates: 319602.00 N 6253023.00 E	Drill Model: EDSON 3000	
Date Started: 25-7-09	Casing Size: 50 mm	Permit No:	Drill Fluid: N/A	
Date Finished: 25-7-09				

WELL_WITH_MOIST_CONDITION J:\JOBS\43217997\5 WORKS\ENVIRONMENTAL INVESTIGATION\LIDCOMBE MW LOGS.GPJ WCC.AUS.GDT 7/9/09

Sample Interval PID (ppm)	Sample ID	Legend	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Classification	Depth (m)	Moisture Condition	WELL CONSTRUCTION DETAILS
			BITUMEN (50mm) Road Base FILL: Sand, fine to medium grained, brown, dry to moist, dense		0	D/M	Lockable Wellhead PVC End Cap
			Medium dense at 2m		2		
			Very loose at 3m (at boundary with silty clay below)		3	M/W	Grount
	MW01D_3.50 25/07/09		Silty CLAY: Medium to high plasticity, dark grey, moist to wet, soft		4	W	50mm uPVC casing
	MW01D_4.0 25/07/09		Silty CLAY: low to medium plasticity, dark grey, with a trace of organic matters and marine sediments odour, wet		5	M/W	
			Gravelly CLAY: Low plasticity, mottled red-brownish grey, with a trace of ironstone fragments, moist to wet		6		
	MW01D_6.0 25/07/09		CLAY: High plasticity, dark grey, with a trace of ironstone fragments, moist to wet		7		Bentonite seal
			Hard at 6.5 V Bit refusal at 7.2m, continues with NMLC coring		8		
			SHALE: Very low strength, weathered, brownish grey, highly fratured to fractured		9		
			SHALE: Medium strength, slightly weathered, dark grey, slightly fractured		10		
			SHALE: Grey, slightly fractured to fractured		11		50mm uPVC well screen
					12		2mm graded sand pack
					13		
					14		
			Coring ended at 15.0m (targeted depth)		15		End cap

URS Australia Pty. Ltd. Level 3, 116 Miller Street, North Sydney	Phone: 02 8925 5500 Fax: 02 8925 5555	Project Reference: Preliminary Geotechnical Assessment	Client: Costco Wholesale (Australia) Pty Ltd
Drilling Contractor: Terratest Pty Ltd		Project No.: 43217997	Location: 17-21 Parramatta Rd, Lidcombe
Logged By: J Kor	Bore Size: 100 mm	Relative Level: mAHD	Drill Type: SFA "V" Bit, Hand Augering
Checked By: V Tandjiria	Total Depth: 6.00 m	Coordinates: N	Drill Model: EDSON 3000
Date Started: 25-7-09	Casing Size: 50 mm	E	Drill Fluid: N/A
Date Finished: 25-7-09		Permit No:	

WELL_WITH_MOIST_CONDITION J:\JOBS\43217997\5 WORKS\ENVIRONMENTAL INVESTIGATION\LIDCOMBED MW LOGS.GPJ WCC.AUS.GDT 7/9/09

Sample Interval PID (ppm)	Sample ID	Legend	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Classification	Depth (m)	Moisture Condition	WELL CONSTRUCTION DETAILS
			BITUMEN (50mm) Road Base FILL: Sand, uniformly graded, fine to medium grained, brown, dry to moist, dense Medium dense at 2m Very loose at 3m (at boundary with silty clay below) Silty CLAY: Medium to high plasticity, dark grey, moist to wet, soft Silty CLAY: low to medium plasticity, dark grey, with a trace of organic matters and marine sediments odour, wet Gravelly CLAY: Low plasticity, mottled red-brownish grey, with a trace of ironstone fragments, moist to wet CLAY: High plasticity, dark grey, with a trace of ironstone and shell fragments, moist to wet End of hole at 6.0m		0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	D/M M/W W M/W	

URS Australia Pty. Ltd. Level 3, 116 Miller Street, North Sydney		Phone: 02 8925 5500 Fax: 02 8925 5555	Project Reference: Preliminary Geotechnical Assessment	Client: Costco Wholesale (Australia) Pty Ltd
Drilling Contractor: Terratest Pty Ltd			Project No.: 43217997	Location: 17-21 Parramatta Rd, Lidcombe
Logged By: J Kor	Bore Size: 100 mm	Relative Level: mAHD	Drill Type: SFA "V" Bit, Hand Augering	
Checked By: V Tandjiria	Total Depth: 15.00 m	Coordinates: 319485.00 N 6252973.00 E	Drill Model: EDSON 3000	
Date Started: 26-7-09	Casing Size: 50 mm	Permit No:	Drill Fluid: N/A	
Date Finished: 26-7-09				

WELL_WITH_MOIST_CONDITION J:\JOBS\43217997\5 WORKS\ENVIRONMENTAL INVESTIGATION\LIDCOMBE MW LOGS.GPJ WCC.AUS.GDT 7/9/09

Sample Interval PID (ppm)	Sample ID	Legend	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Classification	Depth (m)	Moisture Condition	WELL CONSTRUCTION DETAILS
			CONCRETE (150mm)		0		Lockable Wellhead
			Fill: Sand, fine to medium grained, brown, with a trace of clay colloid and gravels, moist			M	PVC End Cap
			Sandy CLAY: Medium plasticity, brown, moist		1	M	Grout
	MW02D_1.8_26/07/09		Silty CLAY: Low plasticity, greyish black, with a trace of organics, wet, stiff		2	W	
			CLAY: Medium plasticity, mottled red greyish brown, with a trace of organics, wet, stiff			W	
	MW02D_2.9_26/07/09		Silty CLAY: Medium to high plasticity, greyish black, wet		3	W	
							50mm uPVC casing
	MW02D_4.0_26/07/09		Very soft at 4m		4		Bentonite seal
			Becoming black, low plasticity and more silty at 4.35m				
			Becoming greyish black and medium to high plasticity at 4.6m		5	M/W	
			Shaley CLAY: Low to medium plasticity, greyish black, moist to wet, very stiff			D	
			SHALE: Weathered, grey		6		
			Wet at 6.6m				
			V Bit refusal at 7.0m, continues with NMLC coring		7		
			SHALE: Medium to high strength, weathered, dark grey, highly fractured to slightly fractured and fractured		8		
					9		
					10		
					11		50mm uPVC well screen
					12		2mm graded sand pack
					13		
					14		
			Coring ended at 15.0m (targeted depth)		15		End cap

URS Australia Pty. Ltd. Level 3, 116 Miller Street, North Sydney		Phone: 02 8925 5500 Fax: 02 8925 5555	Project Reference: Preliminary Geotechnical Assessment	Client: Costco Wholesale (Australia) Pty Ltd
Drilling Contractor: Terratest Pty Ltd			Project No.: 43217997	Location: 17-21 Parramatta Rd, Lidcombe
Logged By: J Kor	Bore Size: 100 mm	Relative Level: mAHD	Drill Type: SFA "V" Bit, Hand Augering	
Checked By: V Tandjiria	Total Depth: 6.10 m	Coordinates: N	Drill Model: EDSON 3000	
Date Started: 26-7-09	Casing Size: 50 mm	E	Drill Fluid: N/A	
Date Finished: 26-7-09		Permit No:		

WELL_WITH_MOIST_CONDITION J:\JOBS\43217997\5 WORKS\ENVIRONMENTAL INVESTIGATION\LIDCOMBED MW LOGS.GPJ WCC.AUS.GDT 7/9/09

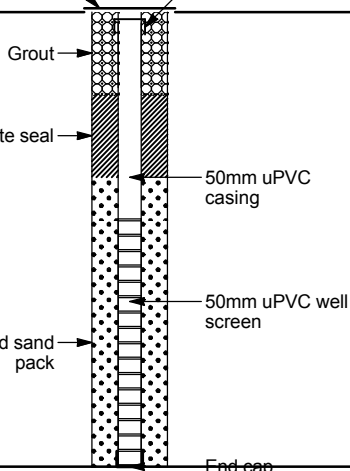
Sample Interval PID (ppm)	Sample ID	Legend	USC DESCRIPTION OF STRATA	Classification	Depth (m)	Moisture Condition	WELL CONSTRUCTION DETAILS
			Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations				Lockable WellheadPVC End Cap
			CONCRETE (150mm)		0	M	<p>Grout</p> <p>Bentonite seal</p> <p>50mm uPVC casing</p> <p>50mm uPVC well screen</p> <p>2mm graded sand pack</p> <p>End cap</p>
			Fill: Sand, uniformly graded, fine to medium grained, brown, with a trace of clay colloid and gravels, moist		1	M	
			Sandy CLAY: Medium plasticity, brown, moist		2	W	
			Silty CLAY: Low plasticity, greyish black, with a trace of organics, wet, stiff		3	W	
			CLAY: Medium plasticity, mottled red greyish brown, with a trace of organics, wet, stiff		4	W	
			Silty CLAY: Medium to high plasticity, greyish black, wet		5		
			Very soft at 4m		6	M/W	
			Becoming black, low plasticity and more silty at 4.35m		7	D	
			Becoming greyish black and medium to high plasticity at 4.6m		8		
			Shaley CLAY: Low to medium plasticity, greyish black, moist to wet, very stiff		9		
			SHALE: Weathered, dark grey		10		
			End of hole at 6.1m		11		
					12		
					13		
					14		
					15		

URS Australia Pty. Ltd. Level 3, 116 Miller Street, North Sydney	Phone: 02 8925 5500 Fax: 02 8925 5555	Project Reference: Preliminary Geotechnical Assessment	Client: Costco Wholesale (Australia) Pty Ltd
Drilling Contractor: Terratest Pty Ltd		Project No.: 43217997	Location: 17-21 Parramatta Rd, Lidcombe
Logged By: J Kor	Bore Size: 100 mm	Relative Level: mAHD	Drill Type: SFA "V" Bit, Hand Augering
Checked By: V Tandjiria	Total Depth: 13.00 m	Coordinates: 319631.00 N 6252885.00 E	Drill Model: EDSON 3000
Date Started: 1-8-09	Casing Size: 50 mm	Permit No:	Drill Fluid: N/A
Date Finished: 1-8-09			

WELL_WITH_MOIST_CONDITION J:\JOBS\43217997\5 WORKS\ENVIRONMENTAL INVESTIGATION\LIDCOMBE MW LOGS.GPJ WCC.AUS.GDT 7/9/09

Sample Interval PID (ppm)	Sample ID	Legend	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Classification	Depth (m)	Moisture Condition	WELL CONSTRUCTION DETAILS
			CONCRETE (140mm) Fill: Sand, fine grained, brown, with a trace of clay colloid, dry to moist CLAY: High plasticity, greyish red, with a trace of sand, moist to dry CLAY: Stiff, with a trace of ironstone (1m to 1.45m) and dry at 1m Very stiff and becoming brownish grey at 2m Hard and shaley at 3m V Bit refusal at 5.6m, continues with NMLC coring SHALE: Weathered, brownish grey, thinly laminated, iron staining, fractured to slightly fractured. Ironstone bands present SHALE: Slightly weathered, grey, thinly laminated, becoming slightly fractured to fractured Coring ended at 13.0m (target depth)		0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	D/M D/M	<div> <div>Lockable Wellhead</div> <div>PVC End Cap</div> <div>Grout</div> <div>50mm uPVC casing</div> <div>Bentonite seal</div> <div>50mm uPVC well screen</div> <div>2mm graded sand pack</div> <div>Well collapsed</div> <div>End cap</div> </div>

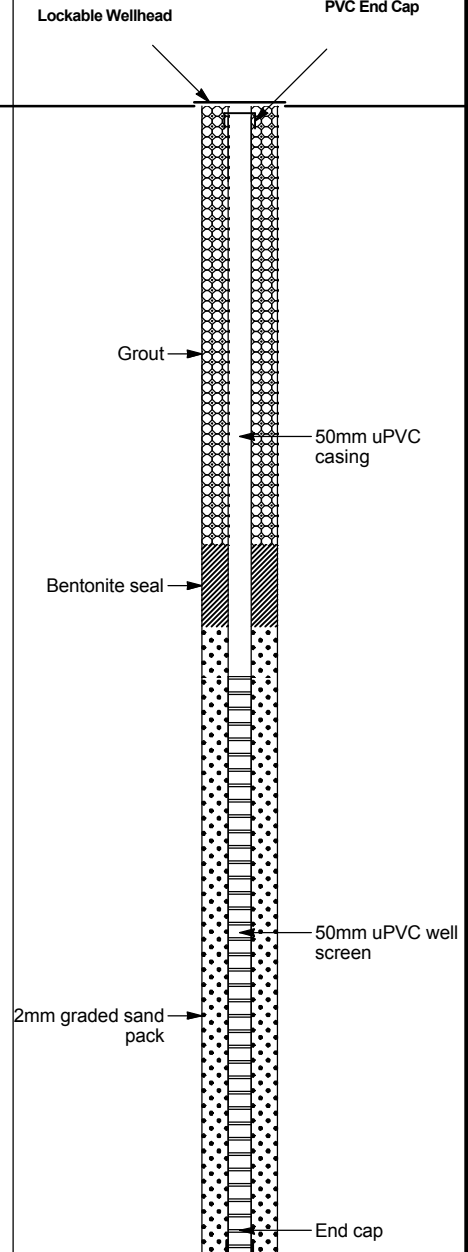
URS Australia Pty. Ltd. Level 3, 116 Miller Street, North Sydney		Phone: 02 8925 5500 Fax: 02 8925 5555		Project Reference: Preliminary Geotechnical Assessment	Client: Costco Wholesale (Australia) Pty Ltd
Drilling Contractor: Terratest Pty Ltd					Location: 17-21 Parramatta Rd, Lidcombe
Logged By: J Kor		Bore Size: 100 mm	Relative Level: mAHD		Drill Type: SFA "V" Bit, Hand Augering
Checked By: V Tandjiria		Total Depth: 5.50 m	Coordinates: N		Drill Model: EDSON 3000
Date Started: 1-8-09		Casing Size: 50 mm	E		Drill Fluid: N/A
Date Finished: 1-8-09		Permit No:			

Sample Interval PID (ppm)	Sample ID	Legend	USC DESCRIPTION OF STRATA	Classification	Depth (m)	Moisture Condition	WELL CONSTRUCTION DETAILS	
			Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations				Lockable Wellhead	PVC End Cap
			CONCRETE (140mm)		0	D/M D/M		
		Fill: Sand, fine grained, brown, with a trace of clay colloid, dry to moist		1				
		CLAY: High plasticity, greyish red, with a trace of sand, moist to dry		2				
		Stiff, with a trace of ironstone (1m to 1.45m) and dry at 1m		3				
		Very stiff and becoming brownish grey at 2m		4				
			Hard and shaley at 3m		5			
			End of hole at 5.5m		6			
					7			
					8			
					9			
					10			
					11			
					12			
					13			
					14			
					15			

URS Australia Pty. Ltd. Level 3, 116 Miller Street, North Sydney		Phone: 02 8925 5500 Fax: 02 8925 5555	Project Reference: Preliminary Geotechnical Assessment	Client: Costco Wholesale (Australia) Pty Ltd
Drilling Contractor: Terratest Pty Ltd			Project No.: 43217997	Location: 17-21 Parramatta Rd, Lidcombe
Logged By: J Kor	Bore Size: 100 mm	Relative Level: mAHD	Drill Type: SFA "V" Bit, Hand Augering	
Checked By: V Tandjiria	Total Depth: 13.90 m	Coordinates: 319630.00 N 6252888.00 E	Drill Model: EDSON 3000	
Date Started: 1-8-09	Casing Size: 50 mm	Permit No:	Drill Fluid: N/A	
Date Finished: 2-8-09				

Sample Interval PID (ppm)	Sample ID	Legend	USC DESCRIPTION OF STRATA Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Classification	Depth (m)	Moisture Condition	WELL CONSTRUCTION DETAILS	
							Lockable Wellhead	PVC End Cap
			CONCRETE (140mm)		0	D/M		
			FILL: Clayey sand, fine grained, dark brown, with a trace of glass, dry to moist		1	D/M		
			CLAY: Medium to high plasticity, dark brown, with a trace of sand, dry to moist, soft Becoming reddish brown at 1.5m		2			
			Very stiff, with iron staining, becoming mottled reddish brown, and dry at 2m		3			
			Hard, shaley, brownish grey, and with some ironstone fragments at 3m		4			
			Hard and shaley at 4m		5			
			SHALE: Weathered, grey, with iron staining		6			
			V Bit refusal at 6.45m, continues with coring SHALE: Weathered, brownish grey, thinly laminated, highly fractured to fractured		7			
					8			
					9			
					10			
			SHALE: slightly weathered to fresh, grey, thinly laminated, slightly fractured		11			
					12			
					13			
			Coring ended at 13.9m (targeted depth)		14			
					15			

WELL_WITH_MOIST_CONDITION J:\JOBS\43217997\5 WORKS\ENVIRONMENTAL INVESTIGATION\LIDCOMBE MW LOGS.GPJ WCC_AUS_GDT 7/9/09



URS Australia Pty. Ltd. Level 3, 116 Miller Street, North Sydney		Phone: 02 8925 5500 Fax: 02 8925 5555	Project Reference: Preliminary Geotechnical Assessment	Client: Costco Wholesale (Australia) Pty Ltd
Drilling Contractor: Terratest Pty Ltd			Project No.: 43217997	Location: 17-21 Parramatta Rd, Lidcombe
Logged By: J Kor	Bore Size: 100 mm	Relative Level: mAHD	Drill Type: SFA "V" Bit, Hand Augering	
Checked By: V Tandjiria	Total Depth: 6.10 m	Coordinates: N	Drill Model: EDSON 3000	
Date Started: 1-8-09	Casing Size: 50 mm	E	Drill Fluid: N/A	
Date Finished: 2-8-09		Permit No:		

WELL_WITH_MOIST_CONDITION J:\JOBS\43217997\5 WORKS\ENVIRONMENTAL INVESTIGATION\LIDCOMBE MW LOGS.GPJ WCC_AUS.GDT 7/9/09

Sample Interval PID (ppm)	Sample ID	Legend	USC DESCRIPTION OF STRATA		Depth (m)	Moisture Condition	WELL CONSTRUCTION DETAILS	
			Type, plasticity / particle size, colour, secondary / minor components (e.g., "trace"), moisture content, consistency / density, and additional observations	Classification			Lockable Wellhead	PVC End Cap
			CONCRETE (140mm)		0	D/M		
			FILL: Clayey sand, uniformly graded, fine grained, dark brown, with glass fragments, dry to moist		1	D/M		
			CLAY: Medium to high plasticity, dark brown, with a trace of sand, dry to moist, soft Becoming reddish brown at 1.5m		2			
			Very stiff, with iron staining, becoming mottled reddish brown, and dry at 2m		3			
			Hard, shaley, brownish grey, and with some ironstone fragments at 3m		4			
			Hard and shaley at 4m		5			
			SHALE: Weathered, grey, with iron staining		6			End cap
			End of hole at 6.1m		7			
					8			
					9			
					10			
					11			
					12			
					13			
					14			
					15			

Appendix H Data Validation Reports

URS		DATA VALIDATION SUMMARY	
Note: Data validation assesses each analyte in terms of all the data validation variables and only the exceedances and outliers are reported in this form			
Project Name:	Costco Australia Pty Ltd Combined Phase I & II	Project/Task Number:	43217997
Primary Laboratory:	ALS	Batch/Ref. Number(s):	ES0907880
Secondary Laboratory:			
Date Sampled:	29/05/2009	Sample Type:	Soil
Sample Handling, Receipt and Holding Times		Yes/No	Comments
COC completed adequately		Yes	
All requested analysis conducted		Yes	
Samples received intact and chilled		Yes	Random Sample Temp 2.8°C
Samples analysed within appropriate holding times per analytical methods.		Yes	
Samples volumes sufficient for QC analysis?		Yes	
Are there any non-NATA accredited methods used?		No	
Laboratory reports signed by an authorised person		Yes	
# of Primary Samples	# of QAQC Samples	# of Duplicate Samples	# of Triplicate Samples
6	2	1	0
Method Blank (MB), Rinsate Blank (RB), Trip Blank (TB), Field Blank (FB)			
Type	Comments		
MB, RB (QC500), TB (QC700)	Method blanks and Field blanks have acceptable results less than the limits of reporting. Rinsate Blank (QC500) reported a concentration of 0.035 mg/L for zinc		
Laboratory Control Samples (LCS)			
Analyte	Comments		
Metals	Recovery of Lead (116%) is greater than the upper control limit (111%)		
	Recovery of Nickel (117%) is greater than the upper control limit (116%)		
	Recovery of Zinc (114%) is greater than the upper control limit (112%)		
	Recovery of Naphthalene (116%) is greater than the upper control limit (113%)		
PAHs	Recovery of Benz(a)anthracene (75.9%) is less than the lower control limit (77.2%)		
	Recovery of Chrysene (78.1%) is less than the lower control limit (79.8%)		
	All the other laboratory control samples have acceptable results within laboratory control limits		
Matrix Spike (MS)			
Analyte	Comments		
Soil	Matrix Spike recoveries were conducted on URS samples from this batch. All MS control samples have acceptable results within laboratory control limits		
Water	Matrix Spike recoveries were conducted on Non URS samples.		
Trip Spike / Control Trip Spike			
Analyte	Comments		
NA			
Duplicates			
Laboratory Duplicates	Comments		
Analyte			
Soil	All laboratory duplicates recoveries were conducted on URS samples from this batch. All LD control samples have acceptable results within laboratory control limits		
Water	All LD recoveries were conducted on non URS samples with the exception of metals which were completed on URS sample QC700. The LD results were within acceptable laboratory control limits.		
Intra-Laboratory Duplicates			
Analyte	Comments		
SB18_1.5_29/05/09	All RPD recoveries are within control limits		
QC100_29/05/09			
Inter-Laboratory Duplicates			
Analyte	Comments		
NA			
Surrogate Monitoring Compound Analyses			
Analyte	Comments		
Soil	All surrogate recoveries are within control limits		
TPH/BTEX (water)	Surrogate recovery of 1,2-Dichloroethane-D4 in sample QC500_29/5/09 (122%) is greater than the upper control limit (120%)		
	Surrogate recovery of Toluene-D8 in sample QC500_29/05/09 (110%) is equal to the upper control limit		
Overall Comments			
<p>ALS note that LCS recovery for some elements falls outside ALS Dynamic Control Limit. However, they are within the acceptance criteria based on ALS DQO. No further action required</p> <p>Zinc results for samples QC500 confirmed by re-digestion and reanalysis</p> <p>Level of reporting raised for toluene due to ambient background levels in the laboratory</p> <p>The entire 500mL is required for PAH/PHENOL and TPH semi-volatile determination. Additional sample bottles for laboratory analysis duplicates and matrix spikes. These quality control parameters can not be reported when insufficient sample provided, this should not affect the quality of the results as the water samples provided to the laboratory were QC samples</p> <p>Detection of Zinc above the LOR in QC500 should not effect the overall data quality as it is an order of magnitude lower than detections in the primary samples</p> <p>Surrogate recovery and LCS outliers may lead to an over reporting of analytes however both outliers are all marginal and will not effect the overall data quality of this batch</p> <p>Data for this batch is considered suitable for environmental interpretative use.</p>			
Performed By:	H. Marshall	Reviewed By:	K Basso
Date:	10-Jul-09	Date:	14-Aug-09

RPD Calculations

Costco Australia Pty Ltd - Combined Phase I and II - 43217997

Batch ES0907880

Location
Sample ID
Date Sampled
Sample Type

SB18_1.5_29/05/09	SB18_1.5_29/05/09
SB18_1.5_29/05/09	QC100_29/05/09
29/05/2009	29/05/2009
Primary	Secondary

Analyte	LOR1	LOR2	Units			Primary vs. Duplicate	Category1
Benzene	0.2	0.2	mg/kg	< 0.2	< 0.2	NC	NC
o-Xylene	0.5	0.5	mg/kg	< 0.5	< 0.5	NC	NC
Arsenic	5	5	mg/kg	6	7	15.39%	Pass
Cadmium	1	1	mg/kg	< 1	< 1	NC	NC
Chromium	2	2	mg/kg	15	15	0.00%	Pass
Copper	5	5	mg/kg	11	13	16.67%	Pass
Lead	5	5	mg/kg	13	13	0.00%	Pass
Mercury	0.1	0.1	mg/kg	< 0.1	< 0.1	NC	NC
Nickel	2	2	mg/kg	6	3	66.67%	Pass-1
Zinc	5	5	mg/kg	14	10	33.33%	Pass-1
Moisture Content	1	1	%	14.6	17.7	19.20%	Pass
Acenaphthene	0.5	0.5	mg/kg	< 0.5	< 0.5	NC	NC
Acenaphthylene	0.5	0.5	mg/kg	< 0.5	< 0.5	NC	NC
Anthracene	0.5	0.5	mg/kg	< 0.5	< 0.5	NC	NC
Benzo(a)anthracene	0.5	0.5	mg/kg	< 0.5	< 0.5	NC	NC
Benzo(a)pyrene	0.5	0.5	mg/kg	< 0.5	< 0.5	NC	NC
Benzo(b)fluoranthene	0.5	0.5	mg/kg	< 0.5	< 0.5	NC	NC
Benzo(g,h,i)perylene	0.5	0.5	mg/kg	< 0.5	< 0.5	NC	NC
Benzo(k)fluoranthene	0.5	0.5	mg/kg	< 0.5	< 0.5	NC	NC
Chrysene	0.5	0.5	mg/kg	< 0.5	< 0.5	NC	NC
Dibenzo(a,h)anthracene	0.5	0.5	mg/kg	< 0.5	< 0.5	NC	NC
Fluoranthene	0.5	0.5	mg/kg	< 0.5	< 0.5	NC	NC
Fluorene	0.5	0.5	mg/kg	< 0.5	< 0.5	NC	NC
Indeno(1,2,3,cd)pyrene	0.5	0.5	mg/kg	< 0.5	< 0.5	NC	NC
Naphthalene	0.5	0.5	mg/kg	< 0.5	< 0.5	NC	NC
Phenanthrene	0.5	0.5	mg/kg	< 0.5	< 0.5	NC	NC
Pyrene	0.5	0.5	mg/kg	< 0.5	< 0.5	NC	NC
Toluene	0.5	0.5	mg/kg	< 0.5	< 0.5	NC	NC
Ethylbenzene	0.5	0.5	mg/kg	< 0.5	< 0.5	NC	NC
M&P Xylene	0.5	0.5	mg/kg	< 0.5	< 0.5	NC	NC
O Xylene	0.5	0.5	mg/kg	< 0.5	< 0.5	NC	NC
C10-C14 fraction	50	50	mg/kg	< 50	< 50	NC	NC
C15-C28 fraction	100	100	mg/kg	< 100	< 100	NC	NC
C29-C36 fraction	100	100	mg/kg	< 100	< 100	NC	NC
C6-C9 fraction	10	10	mg/kg	< 10	< 10	NC	NC

Pass RPD <= 30%
Pass-1 RPD > 30%, Analysis result < 10 times LOR
Pass-2 RPD <= 50%, Analysis result > 10 times LOR and < 20 times LOR
NC- Not Calculated

DATA VALIDATION SUMMARY

Note: Data validation assesses each analyte in terms of all the data validation variables and only the exceedances and outliers are reported in this form.

Project Name:	Costco Australia Pty Ltd Combined Phase I & II	Project/Task Number:	43217997
Primary Laboratory:	ALS	Batch/Ref. Number(s):	ES0907904
Secondary Laboratory:			
Date Sampled:	31/05/2009	Sample Type:	Soil

Sample Handling, Receipt and Holding Times	Yes/No	Comments
COC completed adequately	No	Time of sample collection and release not recorded and bottles supplied to ALS for RB and FB not noted
All requested analysis conducted	Yes	
Samples received intact and chilled	Yes	Random Sample Temp 3.6°C
Samples analysed within appropriate holding times per analytical methods.	Yes	
Samples volumes sufficient for QC analysis?	Yes	
Are there any non-NATA accredited methods used?	No	
Have chromatograms for positive TPH been supplied?	No	No TPH detections
Laboratory reports signed by an authorised person	Yes	

# of Primary Samples	# of QAQC Samples	# of Duplicate Samples	# of Triplicate Samples
3	2	1	0

Method Blank (MB), Rinsate Blank (RB), Trip Blank (TB), Field Blank (FB)	Comments
Type	
MB, RB (QC502), TB (QC702)	Method blank and Trip blank have acceptable results less than the limits of reporting. Zinc was detection above LOR in QC502 (0.051 mg/L)

Laboratory Control Samples (LCS)	Comments
Analyte	
	All the laboratory control samples have acceptable results within laboratory control limits

Matrix Spike (MS)	Comments
Analyte	
Soil	Matrix Spike recoveries were conducted on Non URS samples for PAHs, TPH C6-C9. All MS control samples have acceptable results within laboratory control limits
Water	Matrix Spike recoveries were conducted on Non URS samples with the exception of Hg. All MS control samples have acceptable results within laboratory control limits

Trip Spike /Control Trip Spike	Comments
Analyte	
NA	

Duplicates	Comments
Laboratory Duplicates	
Analyte	
Soil	All laboratory duplicates recoveries were conducted on URS samples from this batch with the exception of Moisture Content, TPH C6-C9 and PAHs. All LD control samples have acceptable results within laboratory control limits
Water	All LD recoveries were conducted on non URS samples. All LD control samples have acceptable results within laboratory control limits

Intra-Laboratory Duplicates	Comments
Analyte	
SB07-1.1-31/05/09	RPD recovery of Zinc (168%) exceeds control limits
QC103-31/05/09	

Inter-Laboratory Duplicates	Comments
Analyte	
NA	

Surrogate Monitoring Compound Analyses	Comments
Analyte	
	All surrogate recoveries are within control limits

Overall Comments
<p>The RPD exceedance for intra laboratory duplicate for Zinc is possibly due to sample heterogeneity and as a conservative measure the highest value will be used for interpretative use.</p> <p>Zinc results for samples QC500 confirmed by re-digestion and reanalysis.</p> <p>Level of reporting raised for toluene due to ambient background levels in the laboratory.</p> <p>The entire 500mL is required for PAH/PHENOL and TPH semi-volatile determination. Additional sample bottles for laboratory analysis duplicates and matrix spikes. These quality control parameters can not be reported when insufficient sample is provided.</p> <p>Detection of Zinc above the LOR in QC502 should not effect the overall data quality as it is an order of magnitude lower then detections in the primary samples.</p> <p>Data for this batch is considered suitable for environmental interpretative use.</p>

Performed By:	H. Marshall	Reviewed By:	Matt James
Date:	10-Jul-09	Date:	14-Aug-09

RPD Calculations

Costco Australia Pty Ltd - Combined Phase I and II - 43217997

Batch ES0907904

Location
Sample ID
Date Sampled
Sample Type

SB07-1.1-31/05/09	
SB07-1.1-31/05/09	QC103-31/05/09
31/05/2009	31/05/2009
Primary	Secondary

Analyte	LOR1	LOR2	Units			Primary vs. Duplicate	Category1
Benzene	0.2	0.2	mg/kg	< 0.2	< 0.2	NC	NC
o-Xylene	0.5	0.5	mg/kg	< 0.5	< 0.5	NC	NC
Toluene	0.5	0.5	mg/kg	< 0.5	< 0.5	NC	NC
Ethylbenzene	0.5	0.5	mg/kg	< 0.5	< 0.5	NC	NC
M&P Xylene	0.5	0.5	mg/kg	< 0.5	< 0.5	NC	NC
Arsenic	5	5	mg/kg	7	8	13.33%	Pass
Cadmium	1	1	mg/kg	< 1	1	0.00%	Pass
Chromium	2	2	mg/kg	31	22	33.96%	Pass-2
Copper	5	5	mg/kg	< 5	< 5	NC	NC
Lead	5	5	mg/kg	13	17	26.67%	Pass
Mercury	0.1	0.1	mg/kg	< 0.1	< 0.1	NC	NC
Nickel	2	2	mg/kg	< 2	< 2	NC	NC
Zinc	5	5	mg/kg	31	360	168.29%	Fail
Moisture Content	1	1	%	23	20.9	9.57%	Pass
Acenaphthene	0.5	0.5	mg/kg	< 0.5	< 0.5	NC	NC
Acenaphthylene	0.5	0.5	mg/kg	< 0.5	< 0.5	NC	NC
Anthracene	0.5	0.5	mg/kg	< 0.5	< 0.5	NC	NC
Benzo(a)anthracene	0.5	0.5	mg/kg	< 0.5	< 0.5	NC	NC
Benzo(a)pyrene	0.5	0.5	mg/kg	< 0.5	< 0.5	NC	NC
Benzo(b)fluoranthene	0.5	0.5	mg/kg	< 0.5	< 0.5	NC	NC
Benzo(g,h,i)perylene	0.5	0.5	mg/kg	< 0.5	< 0.5	NC	NC
Benzo(k)fluoranthene	0.5	0.5	mg/kg	< 0.5	< 0.5	NC	NC
Chrysene	0.5	0.5	mg/kg	< 0.5	< 0.5	NC	NC
Dibenzo(a,h)anthracene	0.5	0.5	mg/kg	< 0.5	< 0.5	NC	NC
Fluoranthene	0.5	0.5	mg/kg	< 0.5	< 0.5	NC	NC
Fluorene	0.5	0.5	mg/kg	< 0.5	< 0.5	NC	NC
Indeno(1,2,3,cd)pyrene	0.5	0.5	mg/kg	< 0.5	< 0.5	NC	NC
Naphthalene	0.5	0.5	mg/kg	< 0.5	< 0.5	NC	NC
Phenanthrene	0.5	0.5	mg/kg	< 0.5	< 0.5	NC	NC
Pyrene	0.5	0.5	mg/kg	< 0.5	< 0.5	NC	NC
C10-C14 fraction	50	50	mg/kg	< 50	< 50	NC	NC
C15-C28 fraction	100	100	mg/kg	< 100	< 100	NC	NC
C29-C36 fraction	100	100	mg/kg	< 100	< 100	NC	NC
C6-C9 fraction	10	10	mg/kg	< 10	< 10	NC	NC

Pass RPD <= 30%
Pass-1 RPD > 30%, Analysis result < 10 times LOR
Pass-2 RPD <= 50%, Analysis result > 10 times LOR and < 20 times LOR
NC- Not Calculated

Data Validation ES0907904.xls
 Prepared By: HM
 Checked By: MJ

URS

DATA VALIDATION SUMMARY

Note: Data validation assesses each analyte in terms of all the data validation variables and only the exceedances and outliers are reported in this form.

Project Name:

Costco Australia Pty Ltd
Combined Phase I & II

Project/Task Number:

43217997

Primary Laboratory:

ALS

Batch/Ref. Number(s):

ES0907905
29429

Secondary Laboratory:

Envirolab

Date Sampled:

30/05/2009

Sample Type:

Soil

Sample Handling, Receipt and Holding Times	Yes/No	Comments
COC completed adequately	Yes	Time of sample collection not recorded and bottles supplied to ALS for RB and FB not noted
All requested analysis conducted	Yes	
Samples received intact and chilled	Yes	Random Sample Temp 2.4°C
Samples analysed within appropriate holding times per analytical methods.	Yes	
Samples volumes sufficient for QC analysis?	Yes	
Are there any non-NATA accredited methods used?	No	
Have chromatograms for positive TPH been supplied?	No	No TPH detections
Laboratory reports signed by an authorised person	Yes	

# of Primary Samples	# of QAQC Samples	# of Duplicate Samples	# of Triplicate Samples
5	2	1	1

Method Blank (MB), Rinsate Blank (RB), Trip Blank (TB), Field Blank (FB)	
Type	Comments
MB, RB (QC500), TB (QC700)	Method blanks have acceptable results less than the limits of reporting in both ALS and Envirolab batches. Detections of Zinc above LOR in QC501 (0.016 mg/L) and QC701 (0.024 mg/L)

Laboratory Control Samples (LCS)	
Analyte	Comments
	All the laboratory control samples have acceptable results within laboratory control limits in both ALS and Envirolab batches.

Matrix Spike (MS)	
Analyte	Comments
Soil (ALS)	Matrix Spike recoveries were conducted on Non URS samples.
Water (ALS)	Matrix Spike recoveries were conducted on Non URS samples.
Envirolab	No MS completed for Envirolab batch

Trip Spike / Control Trip Spike	
Analyte	Comments
NA	

Duplicates	
Laboratory Duplicates	Comments
Soil (ALS)	All laboratory duplicates recoveries were conducted on Non URS samples for PAH, Hg, BTEX and C6-C9. All LD control samples have acceptable results within laboratory control limits
Water (ALS)	All LD recoveries were conducted on non URS samples. All LD control samples have acceptable results within laboratory control limits
Envirolab	LD not reported for inter-laboratory results

Intra-Laboratory Duplicates	
Analyte	Comments
SB13_0.8_30/05/09 / QC101_30/05/09	All RPDs are within control limits

Inter-Laboratory Duplicates	
Analyte	Comments
SB13_0.8_30/05/09 / QC201_30/05/09	All RPDs are within control limits with the exception of the RPD for lead (66.66%) which failed RPD control limits

Surrogate Monitoring Compound Analyses	
Analyte	Comments
TPH/BTEX	All surrogate recoveries within control limits

Overall Comments
<p>Since results for samples QC501 and QC701 confirmed by re-digestion and reanalysis</p> <p>Level of reporting raised for toluene due to ambient background levels in the laboratory</p> <p>Detection of Zinc above the LOR in QC501 and QC701 does not appear to have affected the data as there were no detections of zinc in the primary sample SB14_1.1 which was collected the same day. Also as zinc was detected in both the rinsate blank and trip blank it is possible the water used to prepare these blanks contained zinc</p> <p>Envirolab note: Duplicate and matrix samples recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the sample batch were within laboratory acceptance criteria</p> <p>The poor inter-laboratory duplicate result should not significantly affect the overall data quality of this batch as the primary and triplicate sample concentrations were within similar orders of magnitude</p> <p>Data for this batch is considered suitable for environmental interpretative use.</p>

Performed By:

H. Marshall

Reviewed By:

K. Basso

Date:

10-Jul-09

Date:

17-Aug-09

RPD Calculations

Costco Australia Pty Ltd - Combined Phase I and II - 43217997

Batch ES0907905

Location
Sample ID
Date Sampled
Sample Type

SB13_0.8_30/05/09	SB13_0.8_30/05/09	SB13_0.8_30/05/09
SB13_0.8_30/05/09	QC101_30/05/09	QC201_30/05/09
30/05/2009	30/05/2009	30/05/2009
Primary	Secondary	Tertiary

Analyte	LOR1	LOR2	LOR3	Units				Primary vs. Duplicate	Primary vs. Triplicate	Category1	Category2
Benzene	0.2	0.2	0.5	mg/kg	< 0.2	< 0.2	<0.5	NC	NC	NC	NC
o-Xylene	0.5	0.5	1	mg/kg	< 0.5	< 0.5	<1.0	NC	NC	NC	NC
Arsenic	5	5	4	mg/kg	< 5	< 5	7	NC	33.33%	NC	Pass-1
Cadmium	1	1	0.5	mg/kg	< 1	< 1	<0.5	NC	NC	NC	NC
Chromium	2	2	1	mg/kg	5	4	15	22.22%	50.00%	Pass	Pass-1
Copper	5	5	1	mg/kg	6	< 5	9	18.18%	40.00%	Pass	Pass-1
Lead	5	5	1	mg/kg	9	9	18	0.00%	66.66%	Pass	Fail
Mercury	0.1	0.1	0.1	mg/kg	< 0.1	< 0.1	<0.1	NC	NC	NC	NC
Nickel	2	2	1	mg/kg	< 2	< 2	3	NC	35.00%	NC	Pass-1
Zinc	5	5	1	mg/kg	9	9	14	0.00%	10.87%	Pass	Pass
Acenaphthene	0.5	0.5	0.1	mg/kg	< 0.5	< 0.5	<0.1	NC	NC	NC	NC
Acenaphthylene	0.5	0.5	0.1	mg/kg	< 0.5	< 0.5	<0.1	NC	NC	NC	NC
Anthracene	0.5	0.5	0.1	mg/kg	< 0.5	< 0.5	<0.1	NC	NC	NC	NC
Benzo(a)anthracene	0.5	0.5	0.1	mg/kg	< 0.5	< 0.5	<0.1	NC	NC	NC	NC
Benzo(a)pyrene	0.5	0.5	0.05	mg/kg	< 0.5	< 0.5	<0.05	NC	NC	NC	NC
Benzo(b)fluoranthene	0.5	0.5	0.2	mg/kg	< 0.5	< 0.5	<0.2	NC	NC	NC	NC
Benzo(g,h,i)perylene	0.5	0.5	0.1	mg/kg	< 0.5	< 0.5	<0.1	NC	NC	NC	NC
Benzo(k)fluoranthene	0.5	0.5	0.1	mg/kg	< 0.5	< 0.5	<0.1	NC	NC	NC	NC
Chrysene	0.5	0.5	0.1	mg/kg	< 0.5	< 0.5	<0.1	NC	NC	NC	NC
Dibenzo(a,h)anthracene	0.5	0.5	0.1	mg/kg	< 0.5	< 0.5	<0.1	NC	NC	NC	NC
Fluoranthene	0.5	0.5	0.1	mg/kg	< 0.5	< 0.5	<0.1	NC	NC	NC	NC
Fluorene	0.5	0.5	0.1	mg/kg	< 0.5	< 0.5	<0.1	NC	NC	NC	NC
Indeno(1,2,3,cd)pyrene	0.5	0.5	0.1	mg/kg	< 0.5	< 0.5	<0.1	NC	NC	NC	NC
Naphthalene	0.5	0.5	0.1	mg/kg	< 0.5	< 0.5	<0.1	NC	NC	NC	NC
Phenanthrene	0.5	0.5	0.1	mg/kg	< 0.5	< 0.5	<0.1	NC	NC	NC	NC
Pyrene	0.5	0.5	0.1	mg/kg	< 0.5	< 0.5	<0.1	NC	NC	NC	NC
C10-C14 fraction	50	50	50	mg/kg	< 50	< 50	<50	NC	NC	NC	NC
C15-C28 fraction	100	100	100	mg/kg	< 100	< 100	<100	NC	NC	NC	NC
C29-C36 fraction	100	100	100	mg/kg	< 100	< 100	<100	NC	NC	NC	NC
C6-C9 fraction	10	10	25	mg/kg	< 10	< 10	<25	NC	NC	NC	NC
Toluene	0.5	0.5	0.5	mg/kg	<0.5	<0.5	<0.5	NC	NC	NC	NC
Ethylbenzene	0.5	0.5	1	mg/kg	<0.5	<0.5	<1.0	NC	NC	NC	NC
m&p Xylene	0.5	0.5	2	mg/kg	<0.5	<0.5	<2	NC	NC	NC	NC

Pass RPD <= 30%

Pass-1 RPD > 30%, Analysis result < 10 times LOR

Pass-2 RPD <= 50%, Analysis result > 10 times LOR and < 20 times LOR

NC- Not Calculated

Data Validation ES0907905.xls

Prepared by: HM

Checked by:KB