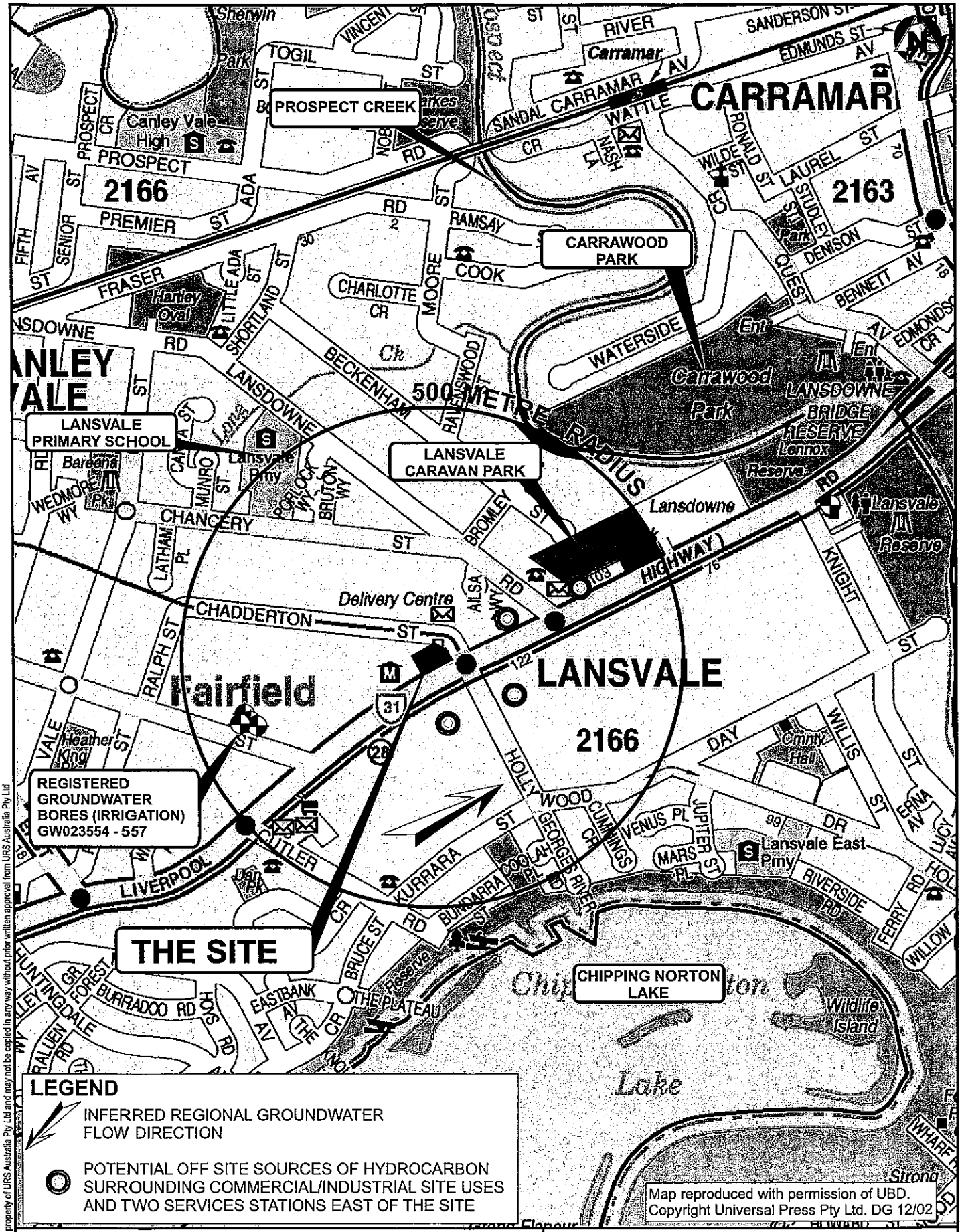


CLIENT:
MOBIL OIL AUSTRALIA PTY LIMITED

PROJECT:
MOBIL SERVICE STATION, LANSVALE, NSW

TITLE:
GENERAL AREA MAP

0 100 200 300 400 500
1:10000 (metres)

DESIGNED: GDM	APPROVED:	PROJECT: 51556-144	URS	FIGURE:
DRAWN: HC	DATE:	CAD FILE: 001.CDR		2
DATE: 10/06/03	STATUS: FINAL	REVISION: A		

MECHANIC/SMASH REPAIRS/METAL SPINNING

VACANT LAND

GRASS

POST & RAIL FENCE

ENTRY
EXIT

CONCRETE

SITE SLOPE
~ 1 in 200

CONCRETE

LMW12

GARDEN

LMW8

LMW5

DIESEL
DISPENSER

GRASS

CONCRETE

CANOPY

VENT

FUEL
DISPENSER

SALES ROOM

CHADDERTON STREET

LANDSDOWNE MOTOR INN

LMW11

VACANT LAND

LMW4

LMW2

LVB2

AWNING

T4
DIESEL 25KL

T3
LRP 45KL

T2
PULP 45KL

T1
ULP 45KL

FUEL
DISPENSER

LMW6

LMW13

GRASS

POST & RAIL FENCE

LVB6

CANOPY

CAR YARD

LMW10

LMW1

GRASS

CONCRETE

FUEL
DISPENSER

LVB4

LVB5

LMW3

LMW7

LMW14

GRASS

CONCRETE

LMW9

GARDEN

FOOTPATH

GRASS

FOOTPATH

GRASS

FOOTPATH

GRASS

ENTRY

HUME HIGHWAY

EXIT

SELF STORAGE WELDERS

DESIGNED:	GM	APPROVED:	GM
DRAWN:	TT	DATE:	7/7/03
DATE:	06/03/03	STATUS:	FINAL
PROJECT:	51556-144		
CAD FILE:	003.DWG		
REVISION:	A		

0 5 10
1:250 (metres)

LEGEND

- UNDERGROUND STORAGE TANK
- HANDEX INSTALLED MONITORING WELL (MARCH 2001)
- HANDEX INSTALLED MONITORING WELL (JANUARY 2002)
- HANDEX BOREHOLE (MARCH 2001)
- PROPOSED ADDITIONAL MONITORING WELL LOCATIONS
- INFERRED GROUNDWATER FLOW DIRECTION
- SURFACE STAINING
- TELSTRA
- WATER
- ELECTRICITY
- SEWER PIT
- STORMWATER DRAIN
- TELSTRA PIT
- PRODUCT LINES
- A' CROSS SECTION ALIGNMENT

DATE DATA COLLECTED:
5th to 10th FEBRUARY 2003

CLIENT
MOBIL OIL AUSTRALIA PTY LTD

PROJECT
MOBIL SERVICE STATION, LANSVALE, NSW

TITLE
DETAILED SITE LAYOUT PLAN

A3

URS

FIGURE 3

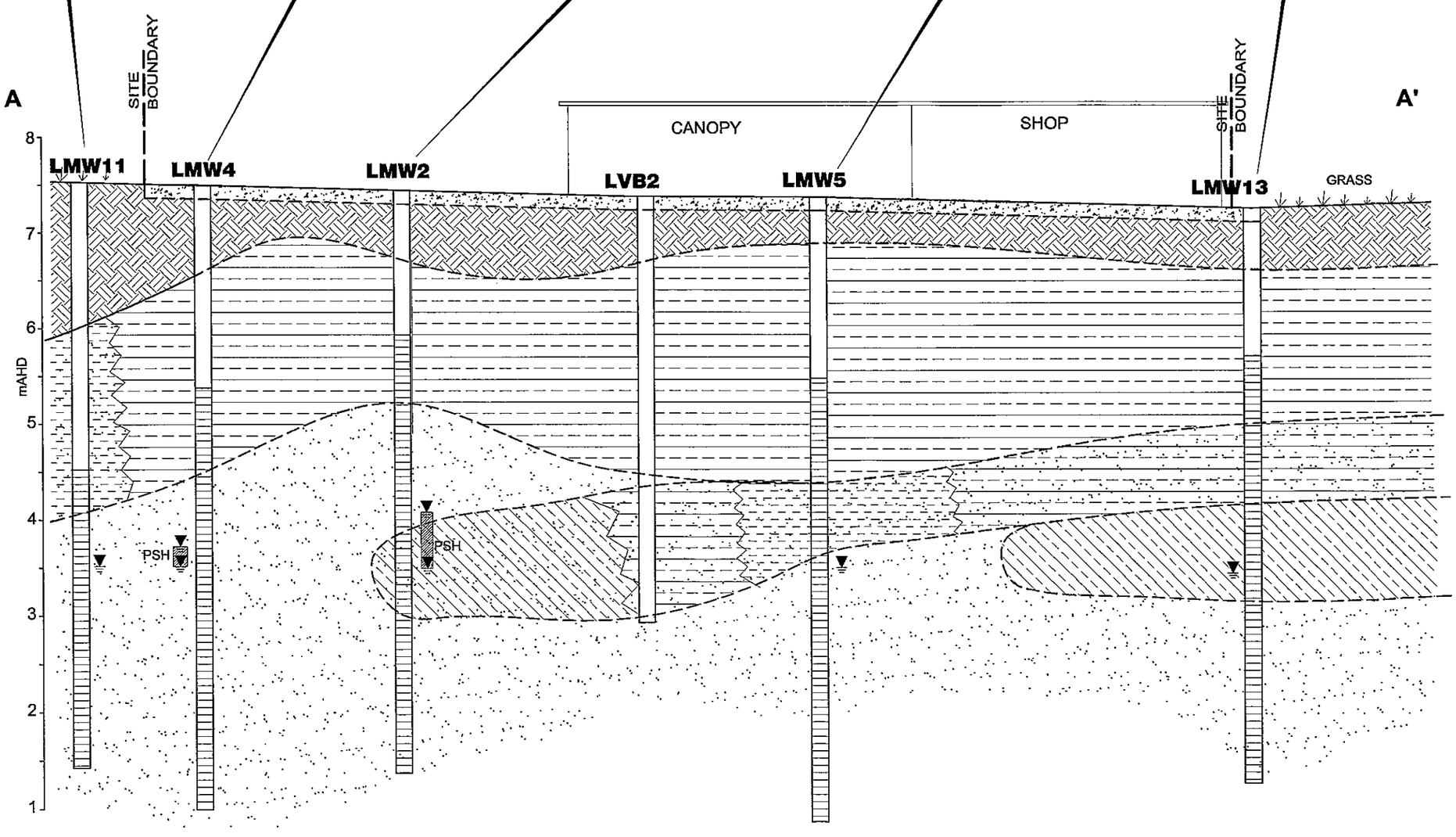
Groundwater (µg/L)	LMW11
TPH (C6-C9 Fraction)	<20
Total TPH (C10-C36 Fraction)	180
B	<0.5
T	<1
E	<1
m- & p-X	<2
o-X	<1
Total X	
Naphthalene	<1
Phenanthrene	<1
Total PAHs	
Copper (mg/L)	0.003
Lead (mg/L)	<0.001
Nickel (mg/L)	0.002
Zinc (mg/L)	0.035

Phase Separated Hydrocarbon (PSH)	LMW4
Apparent PSH Thickness (m)	0.18
Actual PSH Thickness (m)	Capillary
Nature of PSH	Degraded leaded petrol
Age of PSH (years)	2 to 8

Phase Separated Hydrocarbon (PSH)	LMW2
Apparent PSH Thickness (m)	0.57
Actual PSH Thickness (m)	0.05
Nature of PSH	NA
Age of PSH (years)	NA

Groundwater (µg/L)	LMW5
TPH (C6-C9 Fraction)	50
Total TPH (C10-C36 Fraction)	20
B	2.2
T	13
E	4
m- & p-X	23
o-X	12
Total X	35
Naphthalene	<1
Phenanthrene	<1
Total PAHs	
Copper (mg/L)	0.006
Lead (mg/L)	<0.001
Nickel (mg/L)	0.012
Zinc (mg/L)	0.032

Groundwater (µg/L)	LMW13
TPH (C6-C9 Fraction)	120
Total TPH (C10-C36 Fraction)	64860
B	<0.5
T	<1
E	<1
m- & p-X	<2
o-X	<1
Total X	
Naphthalene	840
Phenanthrene	2
Total PAHs	
Copper (mg/L)	0.001
Lead (mg/L)	<0.001
Nickel (mg/L)	0.003
Zinc (mg/L)	0.01



DESIGNED: GM
DRAWN: TT
DATE: 06/03/03
APPROVED: GM
DATE: 7/7/03
STATUS: FINAL
PROJECT: 51556-144
CAD FILE: 004a.DWG
REVISION: A

0 5 10
1:250 (metres)

LEGEND

- CONCRETE
- FILL
- CLAY
- SANDY CLAY
- SILTY CLAY
- SAND
- CLAYEY SAND
- SILTY SAND
- STANDING WATER LEVEL

BOREHOLE MONITORING WELL

NOTES

2700 ← Exceeds ANZECC 2000 Protection of Aquatic Ecosystems Fresh Water 95% Protection

← Exceeds NSW EPA Guidelines for Assessing Service Station Sites Protection of Aquatic Ecosystems (Fresh)

NA - not analysed
* PQL raised due to matrix interference

CLIENT
MOBIL OIL AUSTRALIA PTY LTD

PROJECT
MOBIL SERVICE STATION, LANSVALE, NSW

TITLE
CROSS SECTION A - A'

A3

URS

FIGURE
4a

Groundwater (µg/L)	LMW10
TPH (C6-C9 Fraction)	<20
Total TPH (C10-C36 Fraction)	80
B	<0.5
T	<1
E	<1
m- & p-X	<2
o-X	<1
Total X	
Naphthalene	<1
Phenanthrene	<1
Total PAHs	
Copper (mg/L)	0.001
Lead (mg/L)	<0.001
Nickel (mg/L)	0.001
Zinc (mg/L)	0.013

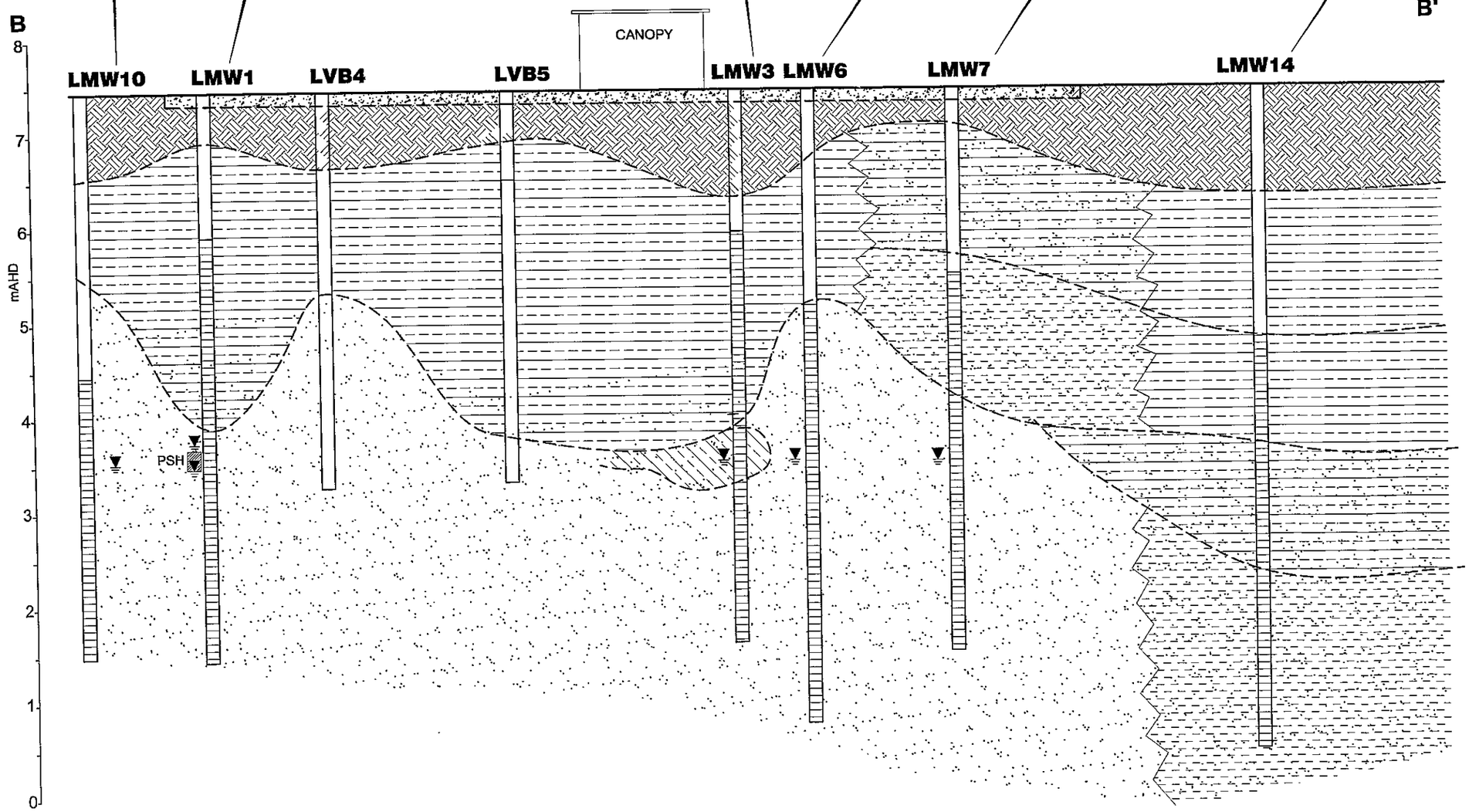
Phase Separated Hydrocarbon (PSH)	LMW1
Apparent PSH Thickness (m)	0.16
Actual PSH Thickness (m)	Capillary
Nature of PSH	Degraded leaded petrol
Age of PSH (years)	2 to 8

Groundwater (µg/L)	LMW3
TPH (C6-C9 Fraction)	1700
Total TPH (C10-C36 Fraction)	1200
B	1500
T	*<20
E	*<20
m- & p-X	*<40
o-X	*<20
Total X	
Naphthalene	50
Phenanthrene	2
Total PAHs	
Copper (mg/L)	0.002
Lead (mg/L)	0.002
Nickel (mg/L)	0.003
Zinc (mg/L)	0.011

Groundwater (µg/L)	LMW6
TPH (C6-C9 Fraction)	70
Total TPH (C10-C36 Fraction)	1130
B	1.6
T	7
E	1
m- & p-X	7
o-X	3
Total X	10
Naphthalene	<1
Phenanthrene	<1
Total PAHs	
Copper (mg/L)	0.003
Lead (mg/L)	<0.001
Nickel (mg/L)	0.004
Zinc (mg/L)	0.059

Groundwater (µg/L)	LMW7
TPH (C6-C9 Fraction)	120
Total TPH (C10-C36 Fraction)	100
B	39
T	<1
E	<1
m- & p-X	<2
o-X	<1
Total X	
Naphthalene	3
Phenanthrene	<1
Total PAHs	
Copper (mg/L)	0.003
Lead (mg/L)	<0.001
Nickel (mg/L)	0.003
Zinc (mg/L)	0.018

Groundwater (µg/L)	LMW14
TPH (C6-C9 Fraction)	<20
Total TPH (C10-C36 Fraction)	
B	0.9
T	11
E	<1
m- & p-X	3
o-X	2
Total X	5
Naphthalene	<1
Phenanthrene	<1
Total PAHs	
Copper (mg/L)	*<0.01
Lead (mg/L)	*<0.01
Nickel (mg/L)	*<0.01
Zinc (mg/L)	0.049



LEGEND

- CONCRETE
- FILL
- CLAY
- SANDY CLAY
- SILTY SAND
- SAND
- CLAYEY SAND
- STANDING WATER LEVEL

BOREHOLE MONITORING WELL

NOTES

2700 ← Exceeds ANZECC 2000 Protection of Aquatic Ecosystems Fresh Water 95% Protection

← Exceeds NSW EPA Guidelines for Assessing Service Station Sites Protection of Aquatic Ecosystems (Fresh)

NA - not analysed

* PQL raised due to matrix interference

CLIENT
MOBIL OIL AUSTRALIA PTY LTD

PROJECT
MOBIL SERVICE STATION, LANSVALE, NSW

TITLE
CROSS SECTION B - B'

A3

URS

FIGURE **4b**

DESIGNED: GM
DRAWN: TT
DATE: 06/03/03
APPROVED: CM
DATE: 7/7/03
STATUS: FINAL
PROJECT: 51556-144
CAD FILE: 004a.DWG
REVISION: A

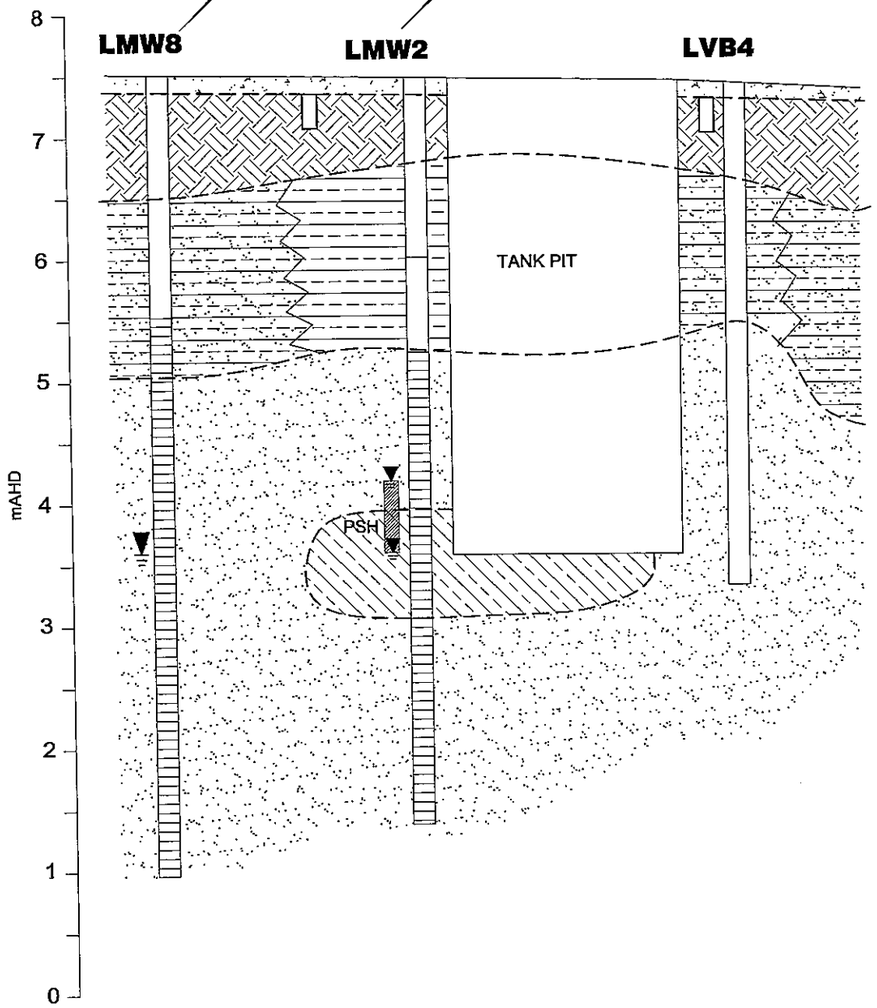
0 5 10
1:250 (metres)

Groundwater (µg/L)	LMW8
TPH (C6-C9 Fraction)	<20
Total TPH (C10-C36 Fraction)	60
B	2.2
T	<1
E	<1
m- & p-X	<2
o-X	<1
Total X	
Naphthalene	<1
Phenanthrene	<1
Total PAHs	
Copper (mg/L)	0.003
Lead (mg/L)	<0.001
Nickel (mg/L)	0.003
Zinc (mg/L)	0.017

Phase Separated Hydrocarbon (PSH)	LMW2
Apparent PSH Thickness (m)	0.57
Actual PSH Thickness (m)	0.05
Nature of PSH	NA
Age of PSH (years)	NA

C

C'

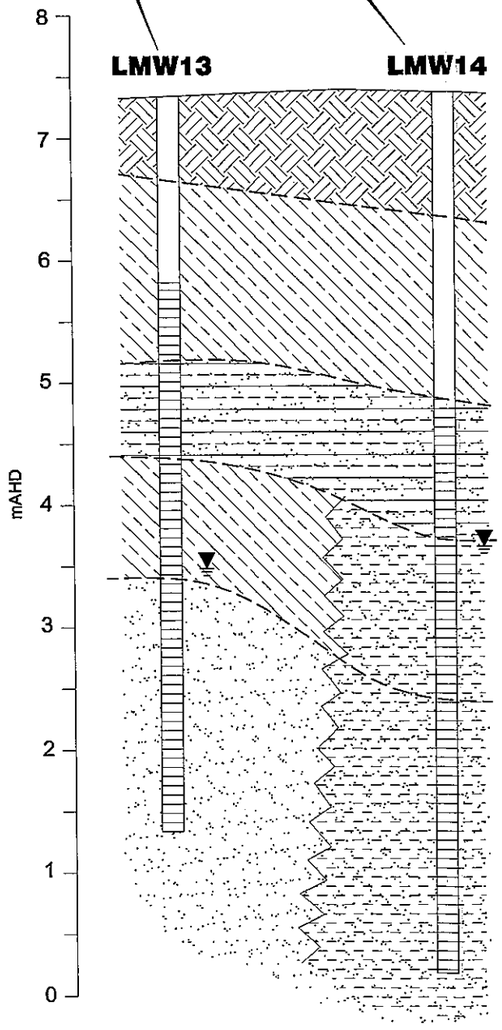


Groundwater (µg/L)	LMW13
TPH (C6-C9 Fraction)	120
Total TPH (C10-C36 Fraction)	64860
B	<0.5
T	<1
E	<1
m- & p-X	<2
o-X	<1
Total X	
Naphthalene	840
Phenanthrene	2
Total PAHs	866
Copper (mg/L)	0.001
Lead (mg/L)	<0.001
Nickel (mg/L)	0.003
Zinc (mg/L)	0.01

Groundwater (µg/L)	LMW14
TPH (C6-C9 Fraction)	<20
Total TPH (C10-C36 Fraction)	
B	0.9
T	11
E	<1
m- & p-X	3
o-X	2
Total X	5
Naphthalene	<1
Phenanthrene	<1
Total PAHs	
Copper (mg/L)	*<0.01
Lead (mg/L)	*<0.01
Nickel (mg/L)	*<0.01
Zinc (mg/L)	0.049

D

D'



DESIGNED:	GM
DRAWN:	TT
DATE:	06/03/03
APPROVED:	CM
DATE:	7/7/03
STATUS:	FINAL
PROJECT:	51556-144
CAD FILE:	004a.DWG
REVISION:	A

0 5 10

1:250 (metres)

LEGEND

- CONCRETE
- FILL
- CLAY
- SANDY CLAY
- SILTY CLAY
- SAND
- CLAYEY SAND
- STANDING WATER LEVEL

BOREHOLE MONITORING WELL

NOTES

2700 ← Exceeds ANZECC 2000 Protection of Aquatic Ecosystems Fresh Water 95% Protection

270 ← Exceeds NSW EPA Guidelines for Assessing Service Station Sites Protection of Aquatic Ecosystems (Fresh)

NA - not analysed

* PQL raised due to matrix interference

CLIENT
MOBIL OIL AUSTRALIA PTY LTD

PROJECT
MOBIL SERVICE STATION, LANSVALE, NSW

TITLE
CROSS SECTION C- C' AND D-D"

A3

URS

FIGURE
4c,4d

Appendix A
NSW EPA Correspondence

IT ENVIRONMENTAL

Your Reference ;
Our Reference : HOF30749/HO4635

NSW EPA

Contaminated Sites

Ms Nikki Maksimovic
Remediation Coordinator
Mobil Oil Australia Pty Ltd
31 Purcell Street
Elderslie Camden NSW 2570

cc: Modern Motels Pty Ltd

Dear Ms Maksimovic

SIGNIFICANT RISK OF HARM ASSESSMENT OF MOBIL/QUIX SITE, LANSVALE

Thank you for Mobil's notification, under s.60 of the *Contaminated Land Management Act 1997* (the CLM Act), of contaminated land and groundwater at the operational Mobil/Quix service station site at 161 Hume Highway (Lot 204 DP 792440) in Lansvale, which was received by the Environment Protection Authority (EPA) on 11 February 2002. Up until March 2003, the EPA had insufficient information to determine the significant risk of harm status of the site.

The EPA has reviewed the reports listed in Attachment 1 against the factors listed in section 9 of the CLM Act and concluded that the there are reasons to believe that contamination at the site presents a significant risk of harm to human health and the environment.

The key issues of concern to the EPA are:

- Separate and dissolved phase hydrocarbon is present in groundwater in the south of the site in the vicinity of the USTs. Dissolved phase hydrocarbon is also present on the northeast boundary of the site and is likely to have migrated offsite, in the direction of Prospect Creek.
- Groundwater is contaminated with benzene, toluene, xylene and ethylbenzene and metals (lead, arsenic, cadmium, chromium, copper, nickel and zinc) in concentrations up to two orders of magnitude greater than the relevant assessment criteria. Metalliferous groundwater is likely to have migrated offsite.

The key steps that now need to be taken are as follows:

- Remediation of separate and dissolved phase contamination on the site;
- Investigation of the nature and extent of off-site migration of contamination in groundwater;
- Confirmation of the nature and direction of groundwater flow across the site; and
- Development of management controls to prevent/minimize exposure pathways for sensitive receptors (including human receptors and the environment).

The EPA considers that these steps should be formally regulated under the CLM Act. This involves firstly declaring the contaminated area as a remediation site under section 21 of the CLM Act; the affected site could then be the subject of a remediation order issued to an 'appropriate person' (under section 23) or a voluntary investigation proposal (under section 26).

Environment Protection Authority
PO Box A290 Sydney South NSW 1232 Australia
59-61 Goulburn Street Sydney NSW 2000
Telephone 61 2 9995 5000
Facsimile 61 2 9995 5999
ABN 43 692 285 758
www.epa.nsw.gov.au

A copy of the proposed declaration is attached (Attachment 2). Please note that a declaration is not an order to remediate. It merely serves to "tag" the contamination as requiring remediation and provides transparency in land transaction records. As you will appreciate this transparency is one of the key objectives in the regulation of contaminated sites together with appropriate environmental outcomes.

If any of the substantive details of the proposed declaration are incorrect or you wish to provide the EPA with any additional information, you may do so in a written submission. The EPA will consider submissions regarding this proposed declaration up to four weeks after the date of this letter. Once finalised, the declaration will be gazetted in the NSW Government Gazette, advertised in the local newspaper and in the Sydney Morning Herald and Council will be notified so that the declaration is noted under s149 of the Environmental Planning and Assessment Act while the declaration is current. Once the significant risk of harm issues have been addressed then the declaration will be removed. A decision process flow chart outlining these steps under the CLM Act is attached for your information (Attachment 3).

Could you also provide the following information to the EPA:

- within **4 weeks** of the date of this letter, notification to the EPA in writing whether you intend to enter into a voluntary investigation agreement with the EPA;
- if you intend to do so, within **12 weeks** of the date of this letter, provision of a remediation proposal, with all necessary and accurate information, to enable the EPA to finalise a voluntary remediation agreement. The proposal should be prepared in accordance with the NSW EPA (2000) *Guidelines for Consultants Reporting on Contaminated Sites*. Given that the remediation proposal needs to cover remediation of contamination on the site as well as identify the nature and extent of contamination migration off the site, the EPA suggests a two staged approach. Stage 1 of the proposal could outline the steps for (i) removing separate phase in the southern area of the site and (ii) delineating the nature and extent of the plume off the northeastern boundary of the site. Stage 2 would involve development of a definitive remediation plan for the plume off the site's northeastern boundary if determined to be necessary after the Stage 1 investigation.

Please note that before the EPA can agree to your proposal under section 26 of the CLM Act you will need also to satisfy the conditions of section 26. This refers to identification of any persons responsible for the contamination and giving such parties a reasonable opportunity to be involved in the formulation and carrying out of the proposal on reasonable terms, or providing the EPA with an undertaking not to recover costs from such parties under the CLM Act, a proforma for which is attached (Attachment 4).

Should you require further information on this matter please contact Jacinta de Jong at the EPA on (02) 9995 5775.

Yours sincerely

C Strange 30/07/02

CAROLYN STRANGE
Acting Director Contaminated Sites

Attachments
1. List of reports
2. Declaration
3. Decision process flowchart
4. Proforma undertaking

Attachment 1 - List of Reports

Handex Australia Pty Ltd (January 2002) *Environmental Site Assessment Quix Service Station, 161 Hume Highway (cnr Chadderton Street) Lansvale NSW*

Handex Australia Pty Ltd (September 2002) *Additional well installation and Groundwater Monitoring, Mobil/Quix Service Station, 161 Hume Highway (cnr Chadderton Street) Lansvale, NSW.*

Handex Australia Pty Ltd (February 2003) *Multi-phase Extraction Program Summary report, Mobil/Quix Service Station, 161 Hume Highway (cnr Chadderton Street) Lansvale NSW.*

DRAFT

Environment Protection Authority

Declaration of remediation site

Section 21 of the Contaminated Land Management Act 1997

File No: HO4635
Declaration number : 21048 Area number 3009

The Environment Protection Authority ("EPA") declares the following land to be an remediation area under the Contaminated Land Management Act 1997 ("the Act"):

1. Land to which this declaration applies

The service station site at 161 Hume Highway, corner Chadderton Street, in Lansvale; Lot 204 DP 732440.

2. Nature of the substances causing the contamination

Total petroleum hydrocarbon (TPH) in the fractions C_6-C_9, (including benzene, toluene, ethylbenzene and xylene) and C_{10}-C_{40} are present in the soils on site.

Separate phase and dissolved phase petroleum hydrocarbons and metals are present on/ in groundwater on the site.

It is highly likely that the contaminants are migrating off the site in a northeasterly direction.

3. Reasons for the declaration

The EPA has considered the matters in Section 9 of the Act and found that the site is contaminated with the contaminants listed above in such a way as to present a significant risk of harm to human health and the environment.

In particular, the EPA has found that:

1. significant petroleum hydrocarbon contamination including separate phase petroleum hydrocarbon is present in the groundwater in the vicinity of the underground storage tanks;
2. Dissolved phase petroleum hydrocarbon contamination is present in groundwater at the northeast boundary of the site. The contaminated groundwater is likely to be migrating offsite towards residential areas and Prospect Creek.

Potential health risks exist for onsite workers who access contaminated soil and groundwater and for users of the groundwater should the contamination migrate offsite.

There is a risk that contaminated groundwater may discharge from the site and ultimately impact on aquatic and benthic ecosystems of Prospect Creek.

4. Further action under the Act

The making of this declaration does not prevent the carrying out of a voluntary remediation of the site and any person may submit a voluntary remediation proposal for the site to the EPA. If the proposal satisfies the requirements of section 26 of the Act, the EPA may agree to the proposal and not issue a remediation order.

5. Submissions invited

The EPA advises that the public may make written submissions to the EPA on:

- Whether it should issue a remediation order in relation to the site, and/or
- Any other matter concerning the site.

Submissions should be sent in writing to

A/ Director Contaminated Sites
NSW EPA
PO Box A290
SYDNEY SOUTH 1232

or faxed to (02) 9995 5999

by no later than **4 weeks from the date of this notice.**

CAROLYN STRANGE
A/Director Contaminated Sites
(by delegation)

Date:

NOTE:

Remediation Order may follow
If remediation of the site or part of the site is required, the EPA may issue a remediation order under s.23 of the Act.

Variation/Revocation
This declaration may be varied by subsequent declarations. It remains in force until it is otherwise revoked. A declaration may only be revoked when the EPA does not have reasonable grounds to believe that land is contaminated in such a way as to present a significant risk of harm. (s.44 of the Act).

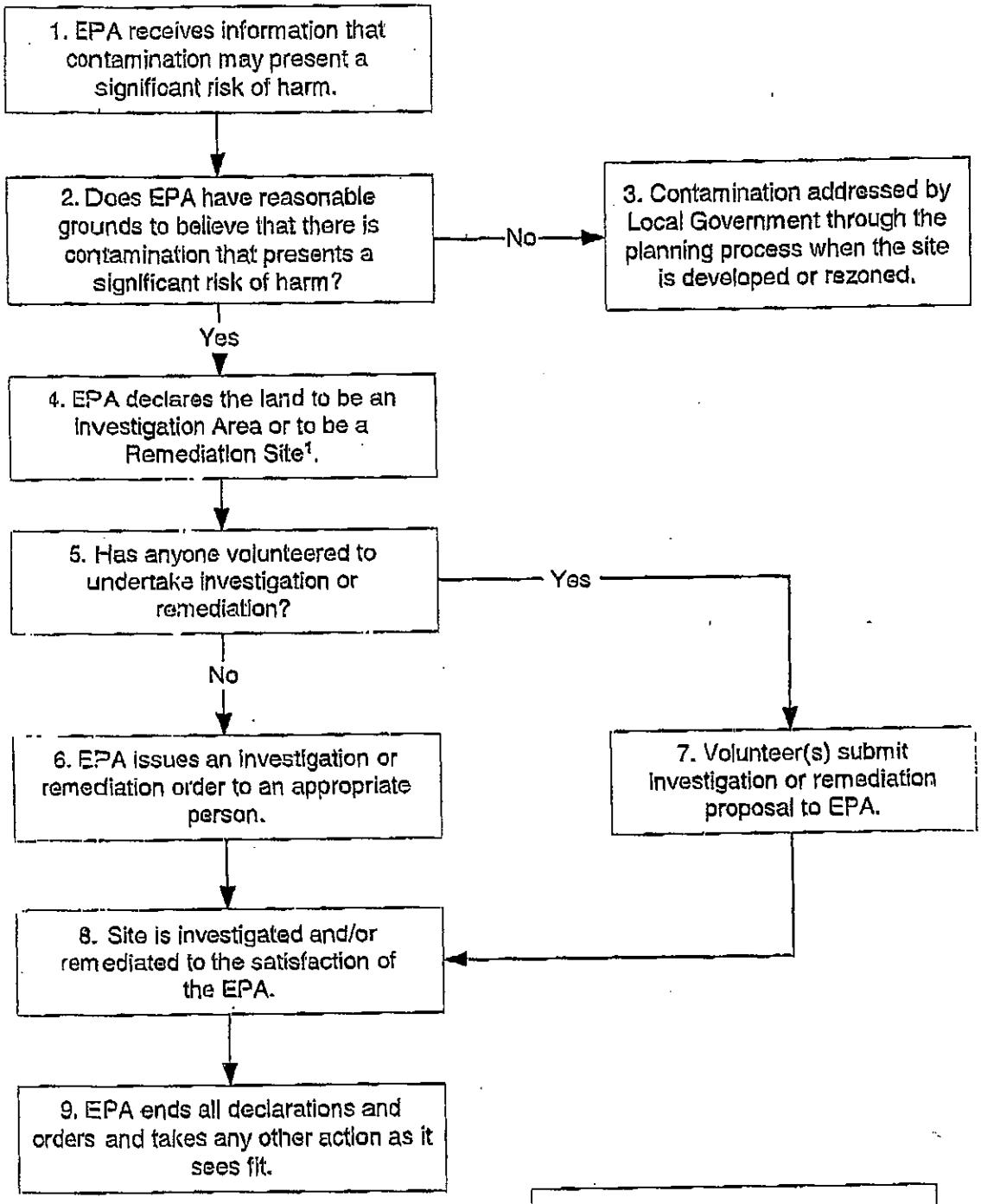
Information recorded by the EPA
Section 58 of the Act requires the EPA to maintain a public record. A copy of this remediation declaration will be included in the public record.

Information recorded by councils
Section 59 of the Act requires the EPA to inform the relevant local council, as soon as practicable, that this declaration has been made. The council is then required to note on its planning certificate issued pursuant to s.149 (2) of the Environmental Planning and Assessment Act that the land is currently within a remediation site. The EPA is required to notify council as soon as practicable when the declaration is no longer in force and the council is then required to remove the notation from the s.149 (2) certificate.

Relationship to other regulatory instrument
This declaration does not affect the provisions of any relevant environmental planning instruments which apply to the land or provisions of any other environmental protection legislation administered by the EPA.

CONTAMINATED LAND MANAGEMENT ACT 1997

DECISION PROCESS FLOW CHART - CONCISE VERSION



Note 1
An Investigation Area is declared if more investigation is required before the EPA can be sure of the contamination.
A Remediation Site is declared in other cases

PLEASE PRINT ENVIRONMENTAL FORM WITH YOUR SPECIFIC DETAILS

Voluntary Remediation Proposal: Undertaking under s26(3) of the Contaminated Land Management Act 1997

To: ENVIRONMENT PROTECTION AUTHORITY
of New South Wales
59-61 Goulburn St
Sydney South NSW 1232

Attention: Director, Contaminated Sites

Company (ACN _ _ _ _ _ _ _ _ _),
trading as ... (ABN _ _ _ _ _ _ _ _ _ _ _)
of ... *[principal place of business]*

UNDERTAKES not to recover contributions under Division 6 of Part 3 of the Contaminated Land Management Act 1997 ("the Act") in respect of the voluntary investigation proposal submitted to the EPA in accordance with Section 26 of the Act concerning land described as:

[appropriate description of land; lots and DPs or map]

The proposal is:

[details of document setting out agreed proposal]

SIGNED for and on behalf of
[Company]:

[Print name]:
[Title]:

Date:

Appendix B
WRF and ITP

GRA - Work Request Form - Remediation Action Plan (RAP)

1 Site Details

WRF issue date: 29/08/02

Site Name

QUIX SERVICE STATION, LANSVALE. NSW

ExxonMobil Site Number

NJ 3565

Work Request Form Number (to identify this stage of works on invoice)

NJ3565/2

Site Street Address (number and street)

161 HUME HIGHWAY, LANSVALE. NSW

Site Owner Name

Modern Motels Pty Ltd

Site Operator Name and Contact Number

MOBIL TO COMPLETE

ExxonMobil Internal Client Name (Lubes, Fuels Marketing, etc)

FUELS MARKETING

Territory Manager Name and Number

AREA MANAGER - Andre Berlouis 0418 862 150

GRA Client Name to be Referenced in Report (if other than Mobil Oil Australia Pty Ltd, i.e. Abroray, Norvac, etc)

N/A

2 Site Description

Service Station	☒	Terminal CBP/IBP	
Depot		Aviation Facility	
Refinery		Other	

3 Site Status

				Notes:
Operating	☒	Power available on site	Y	
Closed, not decommissoned		Water available on site	Y	
Closed, facilities decommissioned		Mobil Padlock on fence (if app.)	N/A	

Permits/Access agreements required:

4 Contact Details

GRAPM Name & Contact Details

Nikki Maksimovic 0418 965 242

Alternative GRA Contact

Perry Buckland 03 9252 3928 or 0407 359 630

5 Project Purpose and Timing

TEA PURPOSE		TIMING *Date Work Can Commence*	*Expected Work Completion Date*
Operations Management		7-Apr-03	18-Apr-03
		Due Date for Draft Report	
Divestment Due Diligence		18-Apr-03	

GRA - Work Request Form - Remediation Action Plan (RAP)

6 Remediation Inputs

Number of Remedial Goals? 5

List Regulatory or other Remediation Inputs that need to be considered

Soil Contamination

1 REMEDIATE TO COMMERCIAL/INDUSTRIAL GUIDELINES
2 REMEDIATE TO REMOVE SIGNIFICANT RISK OF HARM ISSUE
3

Groundwater Contamination

1 REMOVAL OF PSH
2 REMEDIATE TO MEET RELEVANT GEOUNDWATER QUALITY GUIDELINES
3 REMEDIATE TO REMOVE SIGNIFICANT RISK OF HARM ISSUE

7 Mobilisation

Estimated Distance from Nearest Consultant Office (km)	46
Estimated Number of nights per diem, (if required)	
Estimated cost of consultant airfare, $ (if required)	

8 Report Format

Format Requirements? As per Specification

If variance from Specification, nominate report requirements

Draft	
PDF Email	
PDF CD	
Final Copies	
Unbound copies	

9 Estimated RAP cost (ex GST) $7,338

"Other" costs	$200	Notes: Dangerous Goods Search
Variation 1		
Variation 2		

10 Consultant Project Team Identification

Consultant Company: URS AUSTRALIA PTY LTD

Key Team Members

	Team Member Name	OHSA Trained	AIP Trained
Consultant Project Manager (mandatory)	GRAEME MILLER	YES	NO
Consultant Site Supervisor (mandatory)			
Consultant Site Supervisor #2 (optional)			
Consultant Peer Reviewer (optional)	MICHAEL HAYTER	YES	NO

11 Agreement

I have read and understood the requirements of the GRA Client and this work request is in accordance with the requirements of the GRA Client and the GRA ESA Specification

N. Maksimovic — 4/02/03
GRA Project Manager — Date

I have read and understood the requirements of this work request and shall perform the works in accordance with the requirements of this work request and the GRA Specification

[signature] — 5/2/03
Consultant Project Manager — Date

Mobil Oil Australia Pty Ltd

(Incorporated in Australia) A.C.N. 004 052 884

Date:02/04/03

Facsimile Transmission

Sent By: Nikki Maksimovic
Phone: (02) 4658 1392
Fax: (02) 4658 16116

No. of Pages: 1
(including this page)

To: Stephen Corish / Graeme Miller

Copies To:

Company: URS Australia Select
Level 3, 116 Miller St North Sydney. NSW -

Fax: 02 – 8925 5565

Subject: Instruction to Proceed

RE: Instruction to Proceed
Former Quix Service Station
Quix – Lansvale. NSW
3161 Hume Highway, Lansvale. NSW.
NJ3565

WRF# NJ3575/2

Mobil Oil Australia Pty Ltd (Mobil) formally accepts URS Australia Pty Ltd's (URS) proposal as outlined in the attached signed WRF for the "Remediation action Plan(RAP)" at the Former **Quix SS** at **161 Hume Highway, Lansvale. NSW**. You are hereby authorised to commence this work.

This work shall be carried out in accordance with the Services Outline Agreement Between Mobil Oil Australia Pty Ltd And URS Australia Pty Ltd Covering Soil Remediation & Environmental Consulting, Sap Agreement Nbr.10/46003688 (the Outline Agreement), which includes ExxonMobil's Environmental Site Assessment Specification, Modules 1 to 7, dated 5 March 2002.

The basis for payment for this work shall be the Outline Agreement and WRF/SOP. All invoices for this work shall reference the

- Call-Off
- WRF Number,

Note: As Mobil pays for the Amdel analysis, please inform them of all required site specific information when samples are submitted for analysis. The URS PM is required to sign and send approval of the sample quantities analysed back to Amdel and copy the GRA PM. Amdel then use this approval as the basis of their 'pro-forma' invoice to Mobil.

Please call me on (02) 4658 1392 if you have any queries.

Regards,

Nikki Maksimovic
Remediation Coordinator
ExxonMobil Refining & Supply - Global Remediation Australia

DATE RECEIVED 2/4 ..... FAX/MAIL/COURIER
PROJECT No. ..... FILE No .....
DOCUMENT No. .....
DISTRIBUTION: Steve Corish

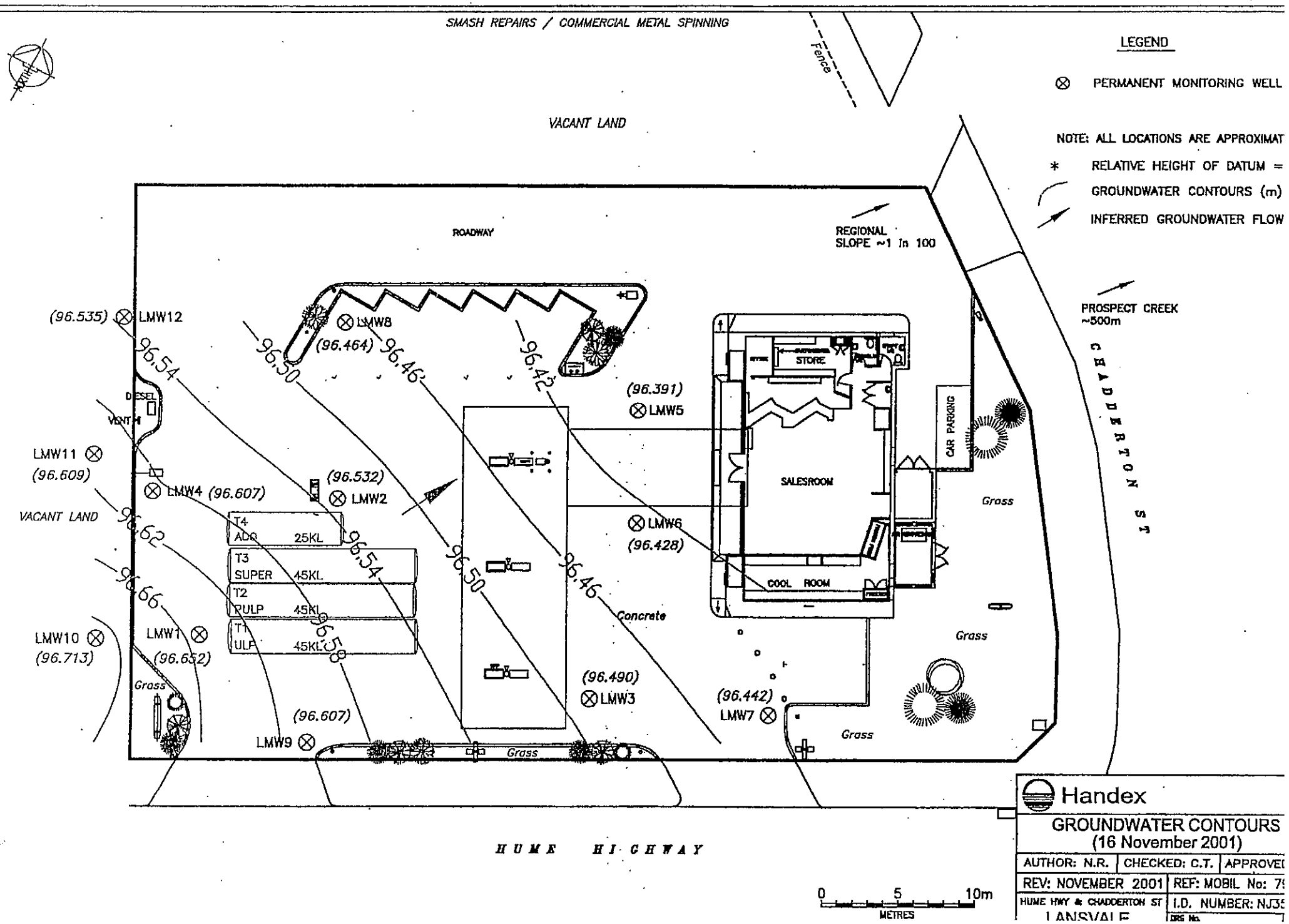
Appendix C
Site Summary Information

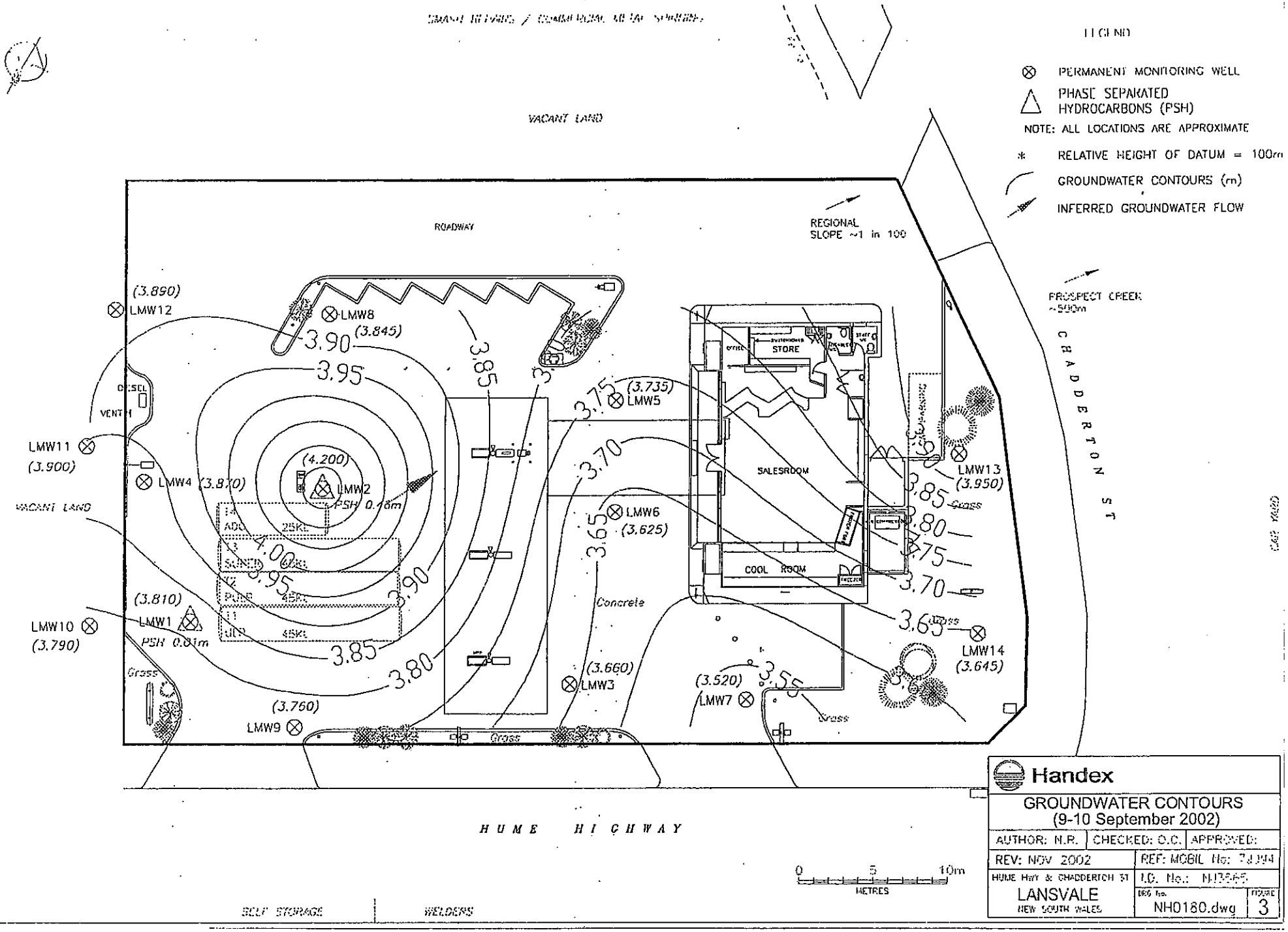
SITE SUMMARY INFORMATION TABLE - QUIX LANSVALE SERVICE STATION

Activity	Scope	Report Date
Environmental Site Assessment Handex Australia Pty Ltd	Desktop survey of Mobil site information Assessment of vapour levels in utility pits Drilling six geoprobe bore holes Installation of 12 monitoring wells Soil sample analysis for TPH, BTEX, TOC, heavy metals, phenols PAHs, OCs, OPs and VCH. Groundwater gauging, measure water quality parameters Site survey Groundwater sample analysis for TPH, BTEX, TOC, heavy metals, methane, ferrous iron, sulfate, nitrate, phenols, PAHs and VCH.	9 January 2002
Additional Well Installation and Groundwater Monitoring Handex Australia Pty Ltd	Installation of 2 off site monitoring wells Soil sample analysis for TPH, BTEX and lead Groundwater gauging, measure water quality parameters New monitoring well survey Groundwater sample analysis from new wells for TPH, BTEX, heavy metals and PAHs Insertion of ORC socks in existing monitoring wells LMW3, LMW4 LMW6, LMW7 and LMW9	5 September 2002
Multi-Phase Extraction Program Handex Australia Pty Ltd	Multi-phase extraction at LMW1, LMW2, LMW3, LMW4, LMW9 and LMW11 (Event 1), and Multi-phase extraction at LMW1, LMW2, LMW3, LMW4, LMW6 and LMW7 (Event 2). Groundwater sample analysis from all 14 wells for TPH, BTEX, lead. Five weeks after multi-phase extraction events	21 February 2003
URS Australia Pty Ltd Groundwater Monitoring Event	Groundwater gauging, measure water quality parameters New survey of all monitoring wells and site layout Recovery tests at monitoring wells LMW1 - LMW8, LMW10 - LMW14 Baildown tests at monitoring wells LMW1, LMW2 and LMW4 Groundwater sample analysis from all wells for TPH, BTEX, lead, heavy metals, VCH, phenols, PAHs, TOC, methane, ferrous iron, nitrate and BOD, COD, TDS, calcium, total iron, magnesium, sulfide, nitrogen, nitrite.	11 March 2003

Created By: GM.
Checked By: MH.

Appendix D
Historical Groundwater Contour Plots


SMASH REPAIRS / COMMERCIAL METAL SPINNING
Fence
VACANT LAND
LEGEND
PERMANENT MONITORING WELL
NOTE: ALL LOCATIONS ARE APPROXIMAT
RELATIVE HEIGHT OF DATUM =
GROUNDWATER CONTOURS (m)
INFERRED GROUNDWATER FLOW
ROADWAY
REGIONAL SLOPE ~1 In 100
PROSPECT CREEK ~500m
CHADDERTON ST
(96.535) LMW12
LMW8 (96.464)
96.54
96.50
96.46
96.42
(96.391) LMW5
STORE
CAR PARKING
SALESROOM
Grass
DIESEL VENT
LMW11 (96.609)
LMW4 (96.607)
(96.532) LMW2
VACANT LAND
96.62
96.66
T4 ADG 25KL
T3 SUPER 45KL
T2 PULP 45KL
T1 ULP 45KL
96.58
LMW6 (96.428)
COOL ROOM
Concrete
LMW10 (96.713)
LMW1 (96.652)
Grass
(96.490) LMW3
(96.442) LMW7
(96.607) LMW9
Grass
Grass
HUME HIGHWAY
0 5 10m
METRES
Handex
GROUNDWATER CONTOURS
(16 November 2001)
AUTHOR: N.R. CHECKED: C.T. APPROVED
REV: NOVEMBER 2001 REF: MOBIL No: 7
HUME HWY & CHADDERTON ST LANSVALE I.D. NUMBER: NJ3
DRG No.
Handex Botany
VACANT FOR 100m THEN LANDSDOWNE MOTOR INN
18-11-01; 8:52PM;


LEGEND
PERMANENT MONITORING WELL
PHASE SEPARATED HYDROCARBONS (PSH)
NOTE: ALL LOCATIONS ARE APPROXIMATE
* RELATIVE HEIGHT OF DATUM = 100m
GROUNDWATER CONTOURS (m)
INFERRED GROUNDWATER FLOW
VACANT LAND
ROADWAY
REGIONAL SLOPE ~1 in 100
PROSPECT CREEK ~500m
CHADDERTON ST
LMW12 (3.890)
LMW8 (3.845)
LMW11 (3.900)
LMW4 (3.870)
LMW2 (4.200) PSH 0.16m
LMW5 (3.735)
LMW6 (3.625)
LMW13 (3.950)
LMW10 (3.790)
LMW1 (3.810) PSH 0.01m
LMW3 (3.660)
LMW7 (3.520)
LMW14 (3.645)
LMW9 (3.760)
STORE
SALESROOM
COOL ROOM
Concrete
Grass
DIESEL VENT
25KL
45KL
HUME HIGHWAY
SELF STORAGE
WELDERS
0 5 10m
METRES
Handex
GROUNDWATER CONTOURS
(9-10 September 2002)
AUTHOR: N.R.
CHECKED: D.C.
APPROVED:
REV: NOV 2002
REF: MOBIL No: 7J.J94
HUME Hwy & CHADDERTON ST
LANSVALE
NEW SOUTH WALES
I.D. No.: NH0180
DRG No. NH0180.dwg
FIGURE 3