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**Preliminary Site Contamination
Investigation
Buckland Park Proposal
Walker Corporation / DayCorp**

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Limitations of this Report

The outcome of this report is limited to information supplied for the activities associated with the nominated scope of works only. This report does not detail or define the full extent or otherwise of contamination on the property lot under investigation, but rather has been prepared to indicate contaminant concentrations within the investigation area.

Soil and rock formations are often variable, resulting in the heterogeneous distribution of contaminants across a site. The accuracy with which sub-surface conditions are characterised depends on the frequency and methods of sampling and the uniformity of sub-surface conditions and is therefore limited by the scope of the works undertaken.

We note that this report has been prepared for the use of the client and in part is based on information provided by them. Connell Wagner takes no responsibility and disclaims all liability whatsoever for any loss or damage that the client may suffer as a result of using or relying on any such information or recommendations contained in this report, except to the extent Connell Wagner expressly indicates in this report that it has verified the information to its satisfaction.

It should be noted that this report is not an auditors report. Should further information become available regarding the conditions at the site, including previously unknown likely sources of contamination, Connell Wagner reserves the right to review the report in the context of the additional information.

Abbreviations

ASS	Acid Sulfate Soil
ALS	ALS Laboratory Group
Amdel	Amdel Analytical Laboratories
ANZECC	Australian and New Zealand Environment and Conservation Council
AHD	Australian Height Datum
AS	Australian Standard
Bgl	Below ground level
Bgs	Below ground surface
Btoc	Below top of casing
BTEX	Benzene, Toluene, Ethylbenzene and Xylenes
BH	Borehole
COC	Chain of Custody
Connell Wagner	Connell Wagner Pty Ltd
DQO	Data Quality Objective
°C	Degrees Celsius
DWLBC	Department of Water, Land and Biodiversity Conservation
DO	Dissolved Oxygen
EIL	Ecological Investigation Level
EC	Electrical Conductivity
EPPWQ	Environmental Protection Policy Water Quality
ESA	Environmental Site Assessment
GIL	Groundwater Investigation Level
GW	Groundwater Well
HIL	Health Investigation Level
ha	Hectares
C ₆ -C ₃₆	Hydrocarbon Chainlength Fraction
ID	Identification
IP	Interface Probe
ILs	Investigation Levels
LOQ	Limit of Quantification
LOR	Limit of Reporting
µg/L	Micrograms per litre
mg/L	Milligrams per litre
mS/cm	Millisiemens per centimetre
mV	Millivolt
MGT	MGT Environmental Consulting Pty Ltd
MW	Monitoring Well
NA	Not Analysed
NATA	National Association of Testing Authorities
NEPC	National Environmental Protection Council
NEPM	National Environmental Protection Measure
NSWEPA	New South Wales Environment Protection Authority
OCP	Organochlorine Pesticide
OPP	Organophosphorous Pesticide
ReDox	Oxidation/Reduction potential
Ppm	Parts per million
Ppm _v	Parts per million by volume
PID	Photoionisation Detector
PCB	Polychlorinated Biphenyls
PAH	Polycyclic Aromatic Hydrocarbon
PQL	Practical Quantitation Limit

PEV	Protected Environmental Values
QA	Quality Assurance
QC	Quality Control
RPD	Relative Percentage Difference
SVOC	Semi-Volatile Organic Compound
SB	Soil Bore
SA EPA	South Australian Environment Protection Authority
SKM	Sinclair Knight Merz Pty Ltd
SOP	Standard Operating Procedure
SWL	Standing Water Level
TD	Total Depth
TDS	Total Dissolved Solids
TOC	Top of Casing
TP	Test Pit
TPH	Total Petroleum Hydrocarbon
UST	Underground Storage Tank
VIC EPA	Environment Protection Authority Victoria
VOC	Volatile Organic Compound

1. Executive Summary

Joint venture partners Walker and Coporation and DayCorp commissioned Connell Wagner to undertake a preliminary site contamination investigation to establish the potential site contamination risks, and the site's suitability for the proposal.

The site is 1,308 hectares, located within in the City of Playford, approximately 32 kilometres north of Adelaide, west of Port Wakefield Road and south of the Gawler River. The site is currently farmland.

The joint venture partners proposal includes 12,000 residential allotments, with supporting commercial, retail, community, education, employment and open space facilities. The proposal will be constructed over a period of 25 years.

This report details the results of the Preliminary Site Investigation which was carried out in accordance with the National Environment Protection (Assessment of Site Contamination) Measure 1999 (NEPM, 1999), the "Australian Standards 4482. 1-2005 – Guide to Sampling and Investigation of Potentially Contaminated Soil, Part 1: Non-volatile and semi-volatile compounds", as well as South Australian regulatory requirements outlined in the South Australia *Environment Protection Act 1993*.

The objectives of this investigation were to determine:

- Potentially contaminating activities previously undertaken on the site and in its vicinity.
- If significant contamination has been caused by these activities.
- Whether contamination has the potential to have crossed property boundaries, and
- Recommendations for the Masterplan design and ongoing management of contamination, if identified.

This preliminary site contamination investigation was conducted based on information provided by Connell Wager in a separate report *Site History Investigation, Buckland Park, 2008, Connell Wagner*. The site history investigation was based on general knowledge of potential contamination issues on agricultural land and market gardens and the requirement to assess potential significant risks associated with the proposal. It is intended only to identify potential constraints to the uses proposed in the Masterplan, and to identify additional investigations required should the proposal be approved and proceed.

For the purpose of this report the site has been split into seven sectors being:

- North Sector East (approx. 390ha) – bounded by the Gawler River to the north, Tippets Bridge Road to the west, Legoe Road to the south and the site boundary to the east .
- North Sector West (approx. 240ha) – bounded by the Gawler River to the north, Tippets Bridge Road to the east, Legoe Road to the south and the site boundary to the west boundary
- Central Sector (approx. 100ha) – bounded by Tippets Bridge Road to the east, Legoe Road to the north, Beagle Hole Road to the west and Park Road to the south.
- South Sector West (approx. 260ha) – bounded by Park Road to the north, Penrice salt fields to the west, Tippets Bridge Road to the east and the site boundary to the south.
- South Sector East (approx. 50ha) –bounded by Tippets Bridge Road to the west, Legoe Road to the north, Park Road and Thompson Road to the south, Port Wakefield Road and Brooks Road to the east
- South Sector (approx. 200ha) – bounded by Brooks Road to the east, Thompson Road to the South and Legoe Road to the North. Borders the Central Sector and South Sector West, to the west.
- East Sector (approx. 90ha) – bounded by Port Wakefield Road to the East, Buckland Road to the West, and the site boundary to the South and North.

The results of site history investigation suggested that:

- The primary use of the majority of the site (North Sector West, North Sector East, South Sector West) site has been for grazing, with a low potential risk of contamination
- Cropping of North Sector West, North Sector East, and South Sector West for barley has occurred rotationally over time, with a correspondingly low to moderate risk of contamination. In both cases, any contamination would be broad and diffuse over a large portion of the site.
- Some localised contamination may have occurred in the Central Sector due to market gardening activities, however this has only occurred in the last ten years hence the risk of contamination is moderate, due to the more benign nature of chemicals likely to be in use.
- Land reshaping was noted to have occurred in the Thompson Creek area on the eastern boundary of North Sector West, which may have required fill to be imported but is more likely to have consisted of grading of the existing landform.
- Very localised contamination may have occurred in the tractor maintenance compound at the northern end of Buckland Road however the risk of contamination is not likely to be high.
- A significant proportion of the land within and surrounding South Sector East, East Sector, and the top portion of South Sector (predominantly north of Park Road) has been in use for market gardening since the 1950s, with a proportionally moderate to high risk of contamination
- The balance of the site has been in use for grazing and broad acre cropping. In any case, these activities (due to extent and chemical application methods) may have resulted in contamination diffused over a large portion of the site.
- Localised soil (and potentially groundwater) contamination may have occurred in association with a drainage line along Park Road.

A site inspection identified the following areas of potential contamination concern:

- North Sector East – predominantly grazing, potentially broad contaminant distribution, low apparent risk
- North Sector West –grazing but with some indications of soil disturbance along the south and western boundary, potentially broad contaminant distribution, moderate apparent risk, increasing in disturbed areas
- Central Sector – orchard, agricultural, glass houses potentially localised contaminant distribution (hot spots), high apparent risk
- Southern Sector West – grazing but with some indications of soil disturbance along the south and western boundary and close proximity to Penrice salt fields, potentially broad contaminant distribution, moderate apparent risk, increasing in disturbed areas
- Southern Sector East – grazing but with some indications of soil disturbance along the eastern and western boundaries, potentially broad contaminant distribution, moderate apparent risk, increasing in disturbed (hot spot) areas
- South Sector – use for market gardening, with a proportionally moderate to high risk of contamination
- East Sector – use for market gardening, with a proportionally moderate to high risk of contamination

The purpose of this preliminary investigation is to determine the broad scale condition of the site and identify any contamination issues which would pose significant risk to the viability of the development. It is not intended to detect contamination issues affecting relatively small portions of the site.

The following scope of works was undertaken:

Soil Investigation:

- Preparation of a site specific Site Safety Plan

- Review of underground service plans (provided by others)
- Drilling/excavation at 15 locations over North Sector East (grid locations) to a depth of 2 metres with logging of returns
- Drilling/excavation at 10 locations over North Sector West (grid locations) to a depth of 2 metres with logging of returns
- Drilling/excavation at 20 locations over Central Sector (grid locations) to a depth of 2 metres with logging of returns
- Drilling/excavation at 10 locations over Southern Sector West (grid locations) to a depth of 2 metres with logging of returns
- Drilling/excavation at 20 locations over Southern Sector West (grid locations) to a depth of 2 metres with logging of returns
- Collection of a minimum of 3 soil samples from each location, based on visual observation (fill horizons, evidence of contamination) with headspace screening of all soil samples for volatile organic compounds (VOCs) using a photoionisation detector (PID)
- Submission of:
 - One selected near surface sample from each location for analysis for metals, polycyclic aromatic hydrocarbons (PAHs), total petroleum hydrocarbons (TPH), benzene, toluene, ethylbenzene and xylenes (BTEX) and organochlorine pesticides (OCP)
 - Twelve selected samples for analysis for VIC EPA Screen, based on visual indication of potential contamination
 - Four inter-laboratory duplicate samples, eight intra-laboratory duplicate samples and five rinsate blank sample for analysis for metals and OCPs for quality control purposes
- Storage of all soil samples for potential additional analysis

Groundwater Investigation:

- Installation of 15 groundwater monitoring wells over the site to a nominal depth of 5 metres (appropriate permits required)
- Survey of well location and elevation to allow estimation of groundwater flow direction
- Development of wells after installation using a pump
- Gauging of monitoring wells using an interface probe
- Purging and sampling of newly installed wells approximately one week following installation (using disposable bailers)
- Submission of
 - Five groundwater samples for analysis for metals, PAH and OCPs
 - Six groundwater samples for analysis for metals, PAH, OCPs, pH and TDS
 - One selected groundwater samples for analysis for VIC EPA Screen
 - Three selected groundwater samples for analysis for VIC EPA Screen, pH and TDS
 - Collection of two inter-laboratory duplicate groundwater samples, two intra-laboratory duplicate sample and two rinsate blank sample and analysis for metals and OCPs for quality control purposes

Review of field quality control (QC) sample analyses results and internal laboratory QC analyses suggest that the Preliminary Site Contamination Investigation of Buckland Park was undertaken at a satisfactory standard and that the results of analysis provide reliable data with regards to the areas sampled over the site.

The results of this preliminary site contamination investigation indicate the majority of contaminants identified in soil across the site were recorded at levels below the NEMP Health Investigation Levels (HIL) and Ecological Investigation Levels (EIL). One recorded reading at TP69 0-0.1 of 1100 mg/kg for copper exceeded NEPM A HIL. Soil samples TP11 (0.05-0.15), TP22 (0.4-0.5) and TP37 (0.05-0.15)

exceeded NEMP EIL for Manganese. No indication of contaminating activities was observed in these areas and it is possible these levels of metals occur naturally within the soil.

The majority of contaminants identified in groundwater on the site were recorded at levels below the NEMP GIL 'Marine Aquatic Ecosystems' and SA EPA EPPWQ 'Aquatic Ecosystems' (Marine). Samples GW4, GW5, GW6, GW11, GW12, GW13, GW14, GW15 exceeded NEMP GIL for Copper. GW3 exceeded both NEMP GIL and EPPWQ for Copper. GW5 exceeded both NEMP GIL and EPPWQ for Nickel. No indication of contaminating activities was observed in these areas and it is possible these levels of metals occur naturally within the groundwater.

The results of this preliminary site contamination investigation found the majority of soil and groundwater samples were below adopted guidelines. However, some soil and groundwater levels have exceeded adopted guidelines and these areas will require further investigation as part of detailed design work.

The results of this preliminary site contamination investigation indicate no major signs of contamination across the site. It must be noted that this is only a preliminary site contamination investigation and contamination is not an impediment to approval of the proposal. Any area of land proposed to be developed for any sensitive use on the site will require a comprehensive soil and groundwater investigation along with the appointment of an accredited Victorian EPA auditor.

2. Introduction

2.1 Background

Joint venture partners Walker Corporation and DayCorp commissioned Connell Wagner to undertake a preliminary site contamination investigation at the site identified in Figure 2-1 to establish the potential site contamination risks, and the site's suitability for the proposal, illustrated in the Masterplan at Figure 3-2.

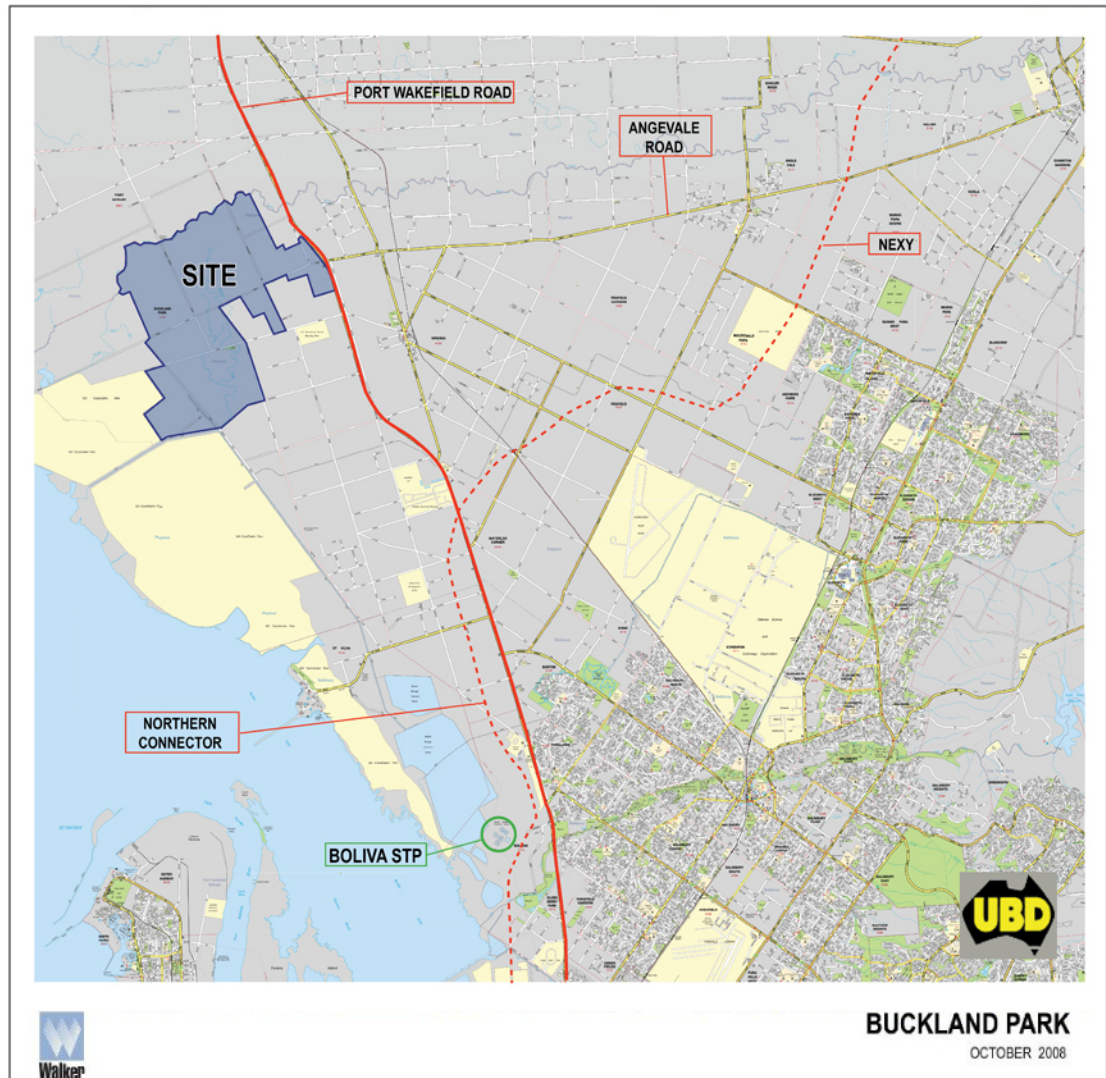


Figure 2-1: Locality Plan

The site is 1,308 hectares, located within in the City of Playford, approximately 32 kilometres north of Adelaide, west of Port Wakefield Road and south of the Gawler River. The site is currently farmland.

The joint venture partner's proposal includes 12,000 residential allotments, with supporting commercial, retail, community, education, employment and open space facilities. The proposal will be constructed over a period of 25 years. It is illustrated in the Masterplan at Figure 3-2.

This report details the results of the Preliminary Site Investigation which was carried out in accordance with the National Environment Protection (Assessment of Site Contamination) Measure 1999 (NEPM, 1999), the "Australian Standards 4482. 1-2005 – Guide to Sampling and Investigation of Potentially Contaminated Soil, Part 1: Non-volatile and semi-volatile compounds", as well as South Australian regulatory requirements outlined in the South Australia *Environment Protection Act 1993*.

2.2 Objectives

The objectives of this investigation were to determine:

- Potentially contaminating activities previously undertaken on the site and in its vicinity.
- If significant contamination has been caused by these activities.
- Whether contamination has the potential to have crossed property boundaries, and
- Recommendations for the Masterplan design and ongoing management of contamination, if identified.

This preliminary site contamination investigation was conducted based on general knowledge of potential contamination issues on agricultural land and market gardens and the requirement to assess potential significant risks associated with the proposal. It is intended only to identify potential constraints to the uses proposed in the Masterplan and to identify additional investigations required should the proposal be approved and proceed.

3. Environmental Description

3.1 Site Location and Description

The site is 1,308 ha within the City of Playford, approximately 32 kilometres north of Adelaide, west of Port Wakefield Road and south of the Gawler River. Figure 2-1 illustrates the location of the site in the northern Adelaide.



Figure 3-1: Site Plan

The majority of land use on the site is grazing of cattle and agriculture with large, apparently disused glass houses located along Park Road in the south west part of the site. Surrounding land uses include Buckland Lake to the north west, Cheetham's salt pans to the west, cropping and glass houses to the south-east and a composting facility to the south of the site.

3.2 Topography

The terrain of the site is very flat with grades of up to 0.2 percent, generally falling to the west. At the time of the site inspection (June/July 2007), ponding of water was observed in a number of locations and along minor creek lines through the site.

3.3 Soils and Geology

The geological survey of South Australia indicates that the majority of the site is underlain by Pooraka formation, typically comprising of pale red-brown sandy clay containing carbonate. The St Kilda formation, consisting of shelly sand with a high organic component, and Glanville Formations, can be found towards the coast. Bedrock is not expected to occur in the upper 30m depth at the site. A preliminary geotechnical classification of the site was undertaken by Golder Associates and detailed in *Preliminary Geotechnical Investigation, Buckland Park, South Australia, Golder Associates, 2008*.

St Kilda Formation and Holocene Alluvium area are associated with nearby coastal regions and of high probability of Acid Sulfate Soils (ASS). Preliminary field investigations of ASS by Golder Associates in their report *Preliminary ASS Investigation, Buckland Park, Golder Associates, October 2008*, found a low risk for acid sulfate soils on the site.

3.4 Hydrology and Hydrogeology

Surface water hydrology of the site is largely controlled by the Gawler River situated immediately north of the site. Thompson Creek extends from the north east to the middle of the site and is a shallow intermittent ephemeral watercourse that channels surface flows during the wet season and periods of flooding when the Gawler River overflows. Two salt pans are present to the southwest of the site and are currently operated by Cheetham Salt.

Existing available data obtained from the Department of Water, Land and Biodiversity Conservation (DWLBC) database on groundwater levels in the watertable aquifer showed that water levels are quite shallow, at approximately 1m to 6m below ground level (bgl) and groundwater highly saline. A detailed assessment of hydrology and hydrogeology at the site is provided by SKM in *Buckland Park Hydrogeology Assessment Report, SKM, November 2008*.

3.5 The Proposal

The proposal comprises the following elements:

- 12,000 residential allotments
- Schools
- Community facilities
- Recreational facilities
- A district centre
- Local shopping precincts
- Open Space
- Stormwater management facilities
- Water features

The Masterplan can be observed in Figure 3-2.



Figure 3-2: The Masterplan

4. Site History Assessment

A site history investigation was undertaken and reported separately (*Site History Investigation, Buckland Park Proposal, Connell Wagner Pty Ltd, October 2008*). This site history investigation has been prepared in accordance with the National Environment Protection (Assessment of Site Contamination) Measure 1999 to determine:

- Potentially contaminating land use (past or present)
- Probable contaminants stored/used/disposed on site (past and present)
- Probable locations and distribution of contaminant storage/use/disposal on site (past and present)

Sources of the site history investigation included:

- South Australia Land Titles Office
- South Australia Department of Environment and Heritage: Mapland
- Interviews with site land owners
- Site inspection (undertaken by Connell Wagner on 13th December 2007)

4.1 Site History Summary

Potentially contaminating activities identified in the site history investigation are summarised along with their significance in Table 4-1. Degrees of significance are outlined in the table below and are based on general knowledge of potential contamination issues on agricultural land and market gardens and are defined as follows:

<i>High</i>	Contaminants from activity have a high potential to cause harm to receptors including ecosystems and humans
<i>Moderate</i>	Contaminants from activity have a moderate potential to cause harm to receptors including ecosystems and humans
<i>Low</i>	Contaminants from activity have a low potential to cause harm to receptors including ecosystems and humans

Table 4-1: Summary of potentially contaminating activities

Potentially contaminating activity	Potential contaminants	Likely locations	Persistence / mobility in soils, toxicity	Chemical analytes	Likely Significance
Market gardens - glasshouses, sheds, importation of fill and possible minor landfill	Application of herbicides, pesticides, insecticides and/or fertilisers, metals	Central Sector and north of Park Road on South Sector East	Variable persistence and mobility in soils. Generally low toxicity to humans.	Glyphosate, triazines and arsenic, organochlorine and organophosphate pesticides, metals	<i>Moderate to high</i> . Localised. Minor significance in soils if modern organic herbicides have been used. However, if arsenic-based herbicides or chlorinated organics were used historically the risk profile may be higher.
Importation of fill – unknown source(s)	Bitumen, oil, metals, arsenic, pesticides, acid/caustic substances	Over whole site (unlikely), potentially at Thompson Creek area Northern Sector West	Various levels of mobility, persistence and toxicity.	Hydrocarbons (PAH and TPH), arsenic and heavy metals, pH, pesticides	<i>Low</i> . Only of major significance should levels in soil prove to be elevated. Extent likely to be localised. Grading (reshaping of natural) likely to have occurred rather than importation.
Broad scale farming (barley for feed)	Pesticide/herbicide Application	Whole site at different times, not extensive duration at any particular location (rotational)	Various levels of mobility, persistence and toxicity.	Glyphosate, triazines and arsenic, organochlorine and organophosphate pesticides	<i>Low</i> . Minor potential contamination particularly if modern organic herbicides or no pesticides and herbicides have been used.
Grazing	Pesticide/herbicide Application	Whole site at different times, not extensive duration at any particular location (rotational)	Various levels of mobility, persistence and toxicity.	Glyphosate, triazines and arsenic, organochlorine and organophosphate pesticides	<i>Low</i> . Minor potential contamination particularly if modern organic herbicides or no pesticides and herbicides have been used.
Vehicle service compound	Petroleum Hydrocarbons, metals	North Sector West - Northern end of Buckland Road	Medium to high persistence and low mobility in soil.	TPH, PAH, metals	<i>Low to moderate</i> . Small area (approximately 400 square metres)
Drainage line, Park Road	Contaminated agricultural wastewater Herbicides, pesticides, nutrients, metals	South Sector East, southern boundary	Various levels of mobility, persistence and toxicity.	organochlorine and organophosphate pesticides, metals, nutrients	<i>Low to moderate</i> . Localised, dilute contaminants.
Olive groves close to western boundary (off-site)	Pesticide/herbicide Application	North Sector West – western boundary	Various levels of mobility, persistence and toxicity.	Glyphosate, triazines and arsenic, organochlorine and organophosphate pesticides	<i>Low</i> . Localised potential impact. Minor potential contamination particularly as modern organic chemicals or no pesticides and herbicides have been used.

For the purpose of this assessment the site was divided into 7 sectors:

- North Sector East (approx. 390ha) – bounded by the Gawler River to the north, Tippets Bridge Road to the west, Legoe Road to the south and the site boundary to the east
- North Sector West (approx. 240ha) – bounded by the Gawler River to the north, Tippets Bridge Road to the east, Legoe Road to the south and the site boundary to the west
- Central Sector (approx. 100ha) – bounded by Tippets Bridge Road to the east, Legoe Road to the north, Beagle Hole Road to the west and Park Road to the south
- South Sector West (approx. 260ha) – bounded by Park Road to the north, Penrice salt fields to the west, Tippets Bridge Road to the east and the site boundary to the south
- South Sector East (approx. 50ha) – bounded by Tippets Bridge Road to the west, Legoe Road to the north, Park Road and Thompson Road to the south, Port Wakefield Road and Brooks Road to the east
- South Sector (approx. 200ha) – bounded by Brooks Road to the east, Thompson Road to the South and Legoe Road to the North. Borders the Central Sector and South Sector West, to the west.
- East Sector (approx. 90ha) – bounded by Port Wakefield Road to the East, Buckland Road to the West, and the site boundary to the South and North.

A summary of the potential contamination risks to the site sectors are outlined in Table 4-2 and displayed in Figure 4-1.

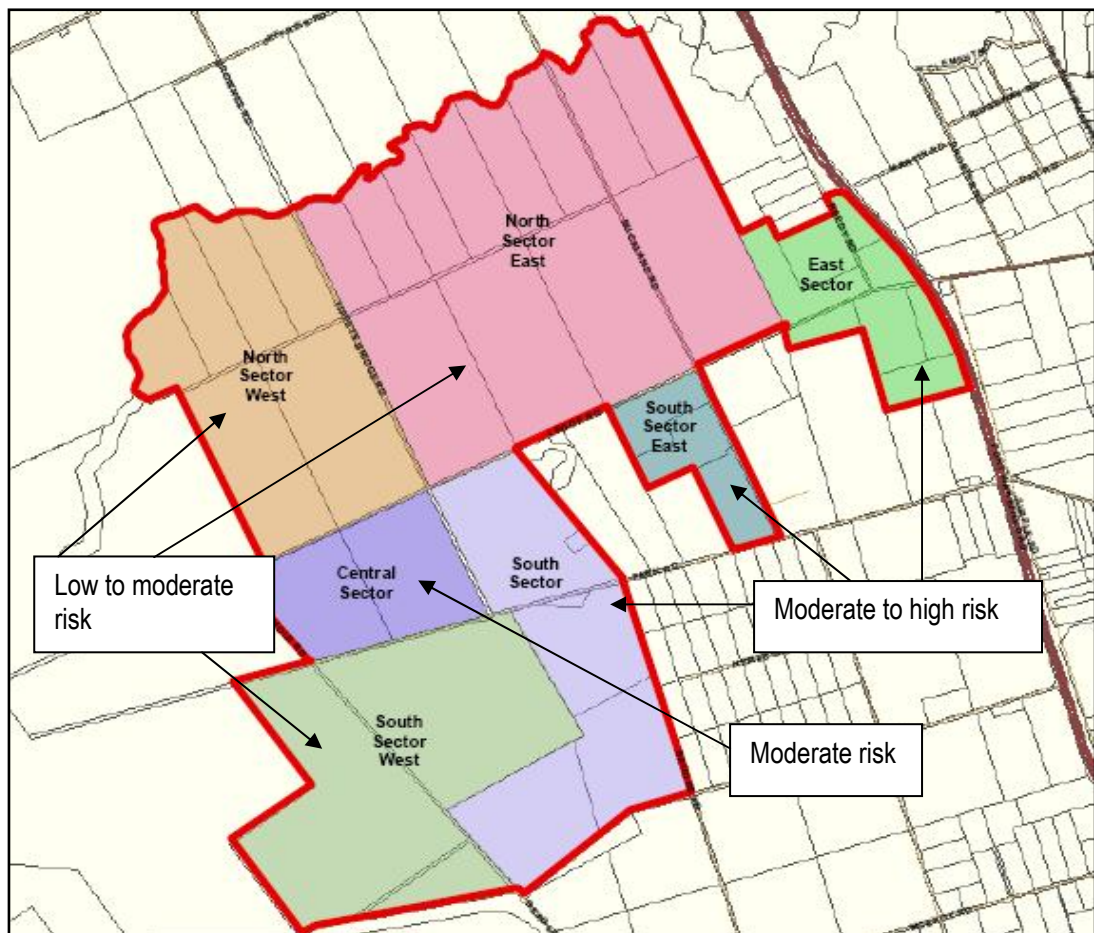


Figure 4-1: Contamination Risk Sector Map

Table 4-2: Site Sector Risk Summary

Sector	Comments	Potential contamination risk
North Sector West	Primary use for grazing, rotational use for barley cropping. Any contamination from both activities would be broad and diffuse over a large portion of these site sectors. Land reshaping has occurred in the Thompson Creek area on the eastern boundary of the sector. Fill may have been imported here, but it is more likely to have consisted of grading of the existing landform.	Low to moderate
North Sector East	Primary use for grazing, rotational use for barley cropping. Any contamination from both activities would be broad and diffuse over a large portion of these site sectors. Very localised contamination may have occurred in the tractor maintenance compound at the northern end of Buckland Road with the risk of contamination likely to be low	Low to moderate
South Sector West	Primary use for grazing, rotational use for barley cropping. Any contamination from both activities would be broad and diffuse over a large portion of these site sectors	Low to moderate
Central Sector	Some localised contamination may have occurred due to market gardening activities. This has only occurred in this sector for the last ten years and the risk of contamination is moderate, due to the more benign nature of chemicals likely to be in use. Soil within the drainage ditch noted along Park Road may have been contaminated by chemicals in waste-water discharged from agricultural activities outside and within the site.	Moderate
South Sector East	A significant proportion of the land within and surrounding this sector has been used for market gardening since the 1950s. The balance of the sector has been used for grazing and broad acre cropping.	Moderate to high
South Sector	A significant proportion of the land within and surrounding the top portion of this sector (predominantly north of Park Road) has been used for market gardening since the 1950s. Soil within the drainage ditch noted along Park Road may have been contaminated by chemicals in waste-water discharged from agricultural activities outside and within the site. The balance of the sector has been used for grazing and broad acre cropping.	Moderate to high
East Sector	A significant proportion of the land within and surrounding this sector has been used for market gardening since the 1950s. The balance of the sector has been used for grazing and broad acre cropping.	Moderate to high

Note: Risk rankings are based on the New Zealand Risk Based Screening System for Contaminated Land Management, 2004.

It was also noted during the investigation:

- Potential contamination “hot spots” (point sources) associated with agricultural and grazing activities including landfills and sheep and cattle dips, were not identified during the site history investigation.

- Soil within the storage dam for the Virginia pipeline treated wastewater (from the Bolivar Sewage treatment plant) may have been contaminated by chemicals within the wastewater however this is unlikely.

4.2 Site History Conclusions

The site history investigation suggests that the primary use of the site has been for grazing and broad acre cropping (barley for stock feed) rotating over the majority of the site at different times. In both cases, any contamination would be broad and diffuse over a large portion of the site decreasing associated contamination risks. The most significant risk areas are in the South Sector East, East Sector, and the top portion of the South Sector (predominantly north of Park Road) where a significant proportion of the land within and surrounding these sectors has been used for market gardening since the 1950s.

These conclusions are provided to guide the preliminary site contamination assessment prepared by Connell Wager

5. Site Assessment

5.1 Introduction

Soil sampling field work was undertaken from the 18th to the 23rd of January and from the 3rd of April to the 9th of April 2008. Groundwater sampling was undertaken from the 6th to the 8th of May 2008.

Drillmax Pty Ltd was contracted by Connell Wagner to undertake soil test pitting and groundwater well installation.

5.2 Data Quality Objectives

Data quality objectives (DQOs) are quantitative and qualitative statements that define the study objective and provide a framework for the reliable collection and reporting of data upon which the site contamination assessment is based. The DQO's, based on the standard 7-step approach, for this assessment are shown in Table 5-1: Data quality objectives based on the standard 7-step approach

Table 5-1: Data quality objectives based on the standard 7-step approach

Process	Response
Step 1: State the Problem	Previous and current site use may have resulted in significant levels of contamination in portions of the site.
Step 2: Identify the Decision	Are associated contaminants likely to be present at the site at concentrations potentially affecting proposed future land uses.
Step 3: Identify the Inputs to the Decision	Site history and data collected from analysis of targeted soil samples in and around identified potentially contaminated areas.
Step 4: Define the Boundaries of the Study	The geographic boundary of this assessment is the site boundary. Localised areas of potentially significant contaminated have been identified. Soil samples to be collected from surface and depth to assess vertical extent of contamination.
Step 5: Develop a Decision Rule	Decisions to be based on National Environment Protection Measure (NEPM) guideline levels for commercial industrial use and residential use.
Step 6: Specify Tolerable Limits on Decision Errors	Sufficient sampling and analysis to limit the probability of decision error to 10%. Data quality indicators to be used to evaluate data acceptability.
Step 7: Optimise the Design for Obtaining Data	Soil samples to be collected on a targeted basis (and some grid) focussing on identified potential areas of contamination. Quality Assurance (QA) procedures will be followed and Quality Control (QC) samples collected.

5.3 Approach to the Preliminary Site Contamination Investigation

In broad terms, the scope of the proposed preliminary investigation is sufficient to provide an understanding of potential contamination issues over the site, including a sufficient site history investigation and soil and groundwater sampling to identify significant site constraints.

A soil and groundwater sampling plan was developed for the site based on the apparent risk identified in the site history investigation and the site inspection.

The purpose of this preliminary investigation is to determine the broad scale condition of the site and identify any contamination issues which would pose significant risk to the viability of the development. It is not intended to detect contamination issues affecting relatively small portions of the site. The

preliminary investigation included excavation of test pits, soil logging and sampling, installation of groundwater wells and water sampling, and analysis and reporting as detailed below. All testing was undertaken by a National Association of Testing Authorities (NATA) registered laboratory.

5.4 Conceptual Site Model

Rainfall leaching through the surface soils may produce a leachate containing the contaminant chemicals of concern. Contaminants entering the dynamic groundwater system may contaminate groundwater discharge to water courses and therefore the receiving biological and human receptors. Surface water runoff from stormwater events may also contain contaminants of concern and discharge into Thompson Creek and into salt pans and adjacent to the site.

Areas of environmental concern and potential contaminants of concern are outlined in Table 5-2

Table 5-2 Areas of environmental concern and potential contaminants of concern

Areas of Environmental Concern	Potential Contaminants of Concern
Central Sector and north of Park Road on South Sector East	Herbicides, pesticides, insecticides and/or fertilisers, metals
Over whole site (unlikely), potentially at Thompson Creek area Northern Sector West	Bitumen, oil, metals, arsenic, pesticides, acid/caustic substances
Whole site at different times, not extensive duration at any particular location (rotational)	Pesticide/herbicide Application
North Sector West - Northern end of Buckland Road	Petroleum Hydrocarbons, metals
South Sector East, southern boundary	Herbicides, pesticides, nutrients, metals
North Sector West – western boundary	Pesticide/herbicide Application

5.4.1 Potential Receptors

Potential contamination receptors for the site include:

- Staff and workers on the site
- Local residential areas
- Children playing on the site
- Water courses including Gawler River, Buckland Lake, Thompson Creek
- Native fauna and grazing animals
- Groundwater
- Commercial and other persons accessing the site

5.4.2 Contaminant Pathways

Potential contaminant pathways for the site include:

- Ingestion
- Dermal Contact
- Groundwater Flow
- Surface Water Flow

6. Soil Investigation

6.1 Scope of Works

- Preparation of a site specific Site Safety Plan
- Review of underground service plans (provided by others)
- Drilling/excavation at 15 locations over North Sector East (grid locations) to a depth of 2 metres with logging of returns
- Drilling/excavation at 10 locations over North Sector West (grid locations) to a depth of 2 metres with logging of returns
- Drilling/excavation at 20 locations over Central Sector (grid locations) to a depth of 2 metres with logging of returns
- Drilling/excavation at 10 locations over Southern Sector West (grid locations) to a depth of 2 metres with logging of returns
- Drilling/excavation at 20 locations over Southern Sector West (grid locations) to a depth of 2 metres with logging of returns
- Collection of a minimum of 3 soil samples from each location, based on visual observation (fill horizons, evidence of contamination) with headspace screening of all soil samples for volatile organic compounds (VOCs) using a photoionisation detector (PID)
- Submission of:
 - One selected near surface sample from each location for analysis for metals, polycyclic aromatic hydrocarbons (PAHs), total petroleum hydrocarbons (TPH), benzene, toluene, ethylbenzene and xylenes (BTEX) and organochlorine pesticides (OCP)
 - Twelve selected samples for analysis for VIC EPA Screen, based on visual indication of potential contamination
 - Four inter-laboratory duplicate samples, eight intra-laboratory duplicate samples and five rinsate blank sample for analysis for metals and OCPs for quality control purposes
- Storage of all soil samples for potential additional analysis

6.2 Methodology

The following general methodology was adopted for this preliminary site inspection:

- Use of disposable gloves and collection of samples directly from the pit wall or excavator bucket during test pit sampling to prevent cross-contamination between samples.
- Collection of samples near surface (0.1-0.2m or deeper depending on fill or rubble content at the surface) and at half metre intervals thereafter
- Headspace screening of all soil samples for volatile organic compounds (VOCs) using a photoionisation detector (PID), where the target sample is immediately split, half placed in a jar for potential analysis and half placed in a food grade zip lock bag for VOC screening
- Calibration of the PID by the supplier prior to delivery and by the field operator daily
- Immediate storage of soil samples in laboratory supplied glass sample jars and in an ice cooled esky

While this investigation will provide a good indication of the site's condition and will inform future detailed investigations, it must be noted that, given the broad sample distribution, it does not meet the requirements of a contaminated land Auditor. Future investigations will meet this criterion.

6.2.1 PID Analysis

A PID was used by Connell Wagner to measure headspace VOC concentrations in soil samples. Calibration of the PID was carried out by the supplier on the day of headspace VOC measurement. Samples for PID testing were taken from the potential contamination risk areas, as well as randomly from other soil cores. VOC concentrations are noted within soil bore logs (Appendix B).

6.2.2 Laboratory Analysis

In total 481 primary soil samples were sent to Amdel Laboratories for analysis or storage. All samples were tracked on chain of custody (COC) documentation (Appendix D).

Selected soil samples were analysed for:

- TPH (77 samples)
- PAH (80 samples)
- Metals (88 samples)
- OCP (88 samples)
- BTEX (70 samples)
- Vic EPA Screen (13 samples)

6.2.3 Sampling Plan

Figures in Appendix A show the location of all test-pit sites and groundwater wells at the site.

7. Groundwater Investigation

7.1 Scope of Works

- Service location by professional locators
- Installation of 15 groundwater monitoring wells over the site to a nominal depth of 5 metres (appropriate permits required)
- Survey of well location and elevation to allow estimation of groundwater flow direction
- Development of wells after installation using a pump
- Gauging of monitoring wells using an interface probe
- Purging and sampling of newly installed wells approximately one week following installation (using disposable bailers)
- Submission of
 - Five groundwater samples for analysis for metals, PAH and OCPs
 - Six groundwater samples for analysis for metals, PAH, OCPs, pH and TDS
 - One selected groundwater samples for analysis for VIC EPA Screen
 - Three selected groundwater samples for analysis for VIC EPA Screen, pH and TDS
 - Collection of two inter-laboratory duplicate groundwater samples, two intra-laboratory duplicate sample and two rinsate blank sample and analysis for metals and OCPs for quality control purposes

7.2 Methodology

7.2.1 Site Safety

Prior to commencement of the Soil Contamination Assessment, a Job Safety Analysis and Method Statement were completed. This document was reviewed and signed by all Connell Wagner personnel involved in the groundwater monitoring.

7.2.2 Groundwater Sampling

Groundwater investigation undertaken between the 6th and the 15th of May 2008 consisted of:

- Installation of 15 groundwater monitoring wells to a nominal depth of 5 metres
- Sealing of well annular space with a bentonite seal and grout to the surface
- Use of disposable gloves for collection of samples
- Purging a minimum of three well volumes (measuring water quality parameters conductivity, pH and redox to determine when representative groundwater could be sampled)
- Collection of groundwater samples using a disposable bailer

Specific actions included within the sampling process are listed below:

- Each well was gauged prior to sampling using an interface probe.
- The groundwater wells were purged and sampled using a 12V submersible pump with a reusable hose
- Water samples were taken from the discharge hole at the bottom of the bailer
- Bailers were disposed of after sampling at each borehole locations
- The Interface Probe and any reusable sampling equipment underwent a decontamination process following use in each of the groundwater wells, which involved a wash using a detergent (Napi-San) and water mixture, and then a rinsing with plain tap water.

7.2.3 Groundwater field parameters

During the groundwater sampling process, field parameters including dissolved oxygen (DO), electrical conductivity (EC), pH, reduction-oxidation potential (ReDox) and temperature were recorded at the surface following the extraction of each individual calculated well volume. Well volumes were extracted until the water quality parameters stabilised to within 0.05 for pH, 0.5°C for temperature, 10% for Redox and DO and 3% for EC for two consecutive readings, with a minimum of three well volume extractions per well. Samples were not collected from each groundwater well until stabilisation of these parameters was observed. All groundwater field parameters stabilisation levels were recorded in accordance with AS4482.1

7.2.4 Laboratory Analysis

The primary groundwater samples and the intra-lab duplicate samples were analysed by Amdel, and the inter-lab triplicate samples were analysed by MGT. All of these laboratories are National Association of Testing Authorities (NATA) accredited for the tests performed. The analytical methods and laboratory reporting limits for groundwater are included in the laboratory certificates in Appendix H and chain of custody forms are included in Appendix I.

Selected groundwater samples were analysed for:

- OCP (11 samples)
- PAH (11 samples)
- Metals (11 samples)
- pH (9 samples)
- Vic EPA Screen (4 samples)
- TDS (9 samples)

8. Soil Investigation Results

8.1 Investigation Guidelines

The assessment of human health and environmental risk from soils on site has been undertaken by comparing levels of contaminants identified on site with appropriate National Environment Protection (Assessment of Site Contamination) Measure (NEPM, 1999) Health Investigation Levels (HILs).

Based on potential residential use of the site, the investigation guideline for soils used was HIL – Criteria A [‘Standard’ residential with garden/accessible soil (home-grown produce contributing less than 10% of vegetable and fruit intake; no poultry): this category includes children’s day-care centres, kindergartens, preschools and primary schools]. Results of analysis were also compared to the NEPM Ecological Investigation Levels (Interim Urban) to determine whether site contaminant concentrations may pose a threat to ecological receptors.

8.2 Soil Investigation Results

8.2.1 Soil Profiles

The site’s general soil profile consisted of mainly silty clay to a depth of 2 metres, with a greater sandier content in northern portions of North Sector East and North Sector West. Soil colour was generally brown to red brown. Moisture was encountered within some pits in South Sector West. Borehole logs are attached in Appendix B. Soil profiles were consistent with geotechnical information detailed by Golder Associates in *Preliminary Geotechnical Investigation, Buckland Park, Golder Associates, 2008*.

8.2.2 PID Results

The results of headspace VOC concentrations measurement are presented within the soil logs (Appendix B). Photoionization detector (PID) readings were taken with each soil sample taken over a range of depths.

The majority of samples encountered no reading of volatile hydrocarbon with the exception of those outlined in Table 8-1.

Table 8-1: PID Results

Test Pit / Depth	PID reading (ppm)
TP34 (0.4 – 0.5)	0.2
TP34 (0.9 – 1)	0.3
TP35 (0.5 – 0.15)	0.4
TP35 (0.4 – 0.5)	1.1
TP36 (0.5 – 0.15)	0.3
TP36 (0.4 – 0.5)	0.4
TP36 (0.9 – 1)	0.3
TP37 (0.4 – 0.5)	1.5
TP 37 (0.9 – 1)	0.3

8.2.3 Soil Analytical Results

Significant contaminant concentrations detected at the site in this assessment are highlighted in Table 8-2. These concentrations are considered significant because they either exceed HIL A levels or they are indicative of potentially significant contamination. All other target analytes had concentrations below the adopted guidelines or below the laboratory limit of reporting (LOR). Laboratory analysis certificates are included in Appendix C. A site sampling plan with test pit locations is included in Appendix A.

Table 8-2: Significant soil results

Analytes (mg/kg)		TPH					Metals			
		C ₆ -C ₉	C ₁₀ -C ₁₄	C ₁₅ -C ₂₈	C ₂₉ -C ₃₆	C ₁₀ -C ₃₆	Mn	Pb	Zn	Cu
NEPM HIL A		NA	NA	90(Ar)	5600	NA	1500	300	7000	1000
NEPM EILs				5600(Al)			500	600	200	100
Grid Pits	TP9 (0.05-0.15)	<10	<50	<100	110	110	NA	22	38	34
	TP11 (0.05-0.15)	<10	<50	<100	140	140	534	13	42	25
	TP22 (0.4-0.5)	<10	<50	<100	<100	NA	553	9	25	21
	TP37 (0.05-0.15)	NA	<50	<100	<100	NA	604	15	12	13
	TP69 (0-0.1)	NA	<10	21	38	59	NA	9.1	32	1100

8.3 Quality Control Review - Soil

The quality control samples collected are outlined in Table 8-3.

Table 8-3: Quality control samples collected for soil analysis

Quality Control	Sample ID	Duplicate / Triplicate	Analyte
QC1	TP2 0.05 – 0.15	Duplicate	Metals, OCP, OPP, Ph, Sulphate/Sulphide
QC2	TP2 0.05 – 0.15	Triplicate	Metals, OCP, OPP, Ph, Sulphate/Sulphide
QC3	TP4 0.05-0.15	Duplicate	On Hold
QC4	TP5 0.4-0.5	Duplicate	On Hold
QC5	TP5 0.4-0.5	Triplicate	On Hold
QC6	TP8 0.05-0.15	Duplicate	On Hold
QC7	TP8 0.05-0.15	Triplicate	On Hold
QC8	TP11 0.4-0.5	Duplicate	On Hold
QC9	TP16 0.05-0.15	Duplicate	Metals, OCP, OPP, Ph, Sulphate/Sulphide
QC10	TP16 0.05-0.15	Triplicate	On Hold
QC11	TP24 0.05-0.15	Duplicate	On Hold
QC12	TP24 0.05-0.15	Triplicate	On Hold
CQ13	TP28 0.05-0.15	Duplicate	Metals, OCP, OPP, Ph, Sulphate/Sulphide
QC14	TP32 0.9-1.0	Duplicate	On Hold

Quality Control	Sample ID	Duplicate / Triplicate	Analyte
QC15	TP33 0.05-0.15	Duplicate	Metals, OCP, OPP, Ph, Sulphate/Sulphide
QC16	TP33 0.05-0.15	Triplicate	Metals, OCP, OPP, Ph, Sulphate/Sulphide
QC17	TP35 0.4-0.5m	Duplicate	On Hold
QC1A	TP38 0-0.1m	Duplicate	On Hold
QC2B	TP39 0-0.1m	Duplicate	Metals, OCP
QC3A	TP40 0.2-0.3	Duplicate	On Hold
QC4A	TP42 0.9-1m	Duplicate	On Hold
QC5A	TP43 0.2-0.3m	Duplicate	On Hold
QC6A	TP44 0.1-0.2m	Duplicate	Metals, TPH, PAH, OCP, pH, BTEX
QC7A	TP45 0.2-0.3m	Duplicate	Metals, TPH, PAH, OCP, pH, BTEX
QC8A	TP47 0-0.1m	Duplicate	On Hold
QC9A	TP48 0.2-0.3m	Duplicate	On Hold
QC10A	TP50 0-0.1m	Duplicate	On Hold
QC11A	TP51 0.2-0.3m	Duplicate	On Hold
QC12A	TP52 0.4-0.5m	Duplicate	On Hold
QC14A	TP55 1.9-2m	Duplicate	On Hold
QC15A	TP70 0-0.1m	Duplicate	Metals, OCP
QC16A	TP58 0.2-0.3m	Duplicate	On Hold
QC17A	TP60 0-0.1m	Duplicate	Metals, TPH, PAH, OCP, pH, BTEX
QC18A	TP61 0.2-0.3m	Duplicate	Metals, OCP
QC19A	TP63 0.4-0.5m	Duplicate	On Hold
QC20A	TP64 0.9-1m	Duplicate	On Hold
QC21A	TP66 0-0.1m	Duplicate	On Hold
QC22A	TP68 0-0.1m	Duplicate	On Hold
QC23A	TP71 0-0.1m	Duplicate	Metals, OCP
QC24A	TP72 0.4-0.5m	Duplicate	On Hold
QC25A	TP74 0-0.1m	Duplicate	Metals, OCP
QC26A	TP76 0-0.1m	Duplicate	On Hold
QC27A	TP77 0.9-1m	Duplicate	On Hold

Relative percentage difference (RPD) calculations were undertaken on all duplicate pairs. The RPD is defined as the difference between the duplicate samples as a percentage of the mean. The RPD is not calculated when one or both of the duplicate results are below the laboratory LOR. For the purpose of this report RPD's greater than 50% for both metals and/or organics have been considered significant. RPD results for quality control samples are included in Appendix E.

8.3.1 Quality Control – Soil Investigation

Inter-laboratory duplicates

- One RPD was recorded above 50%. The RPD for Boron was recorded at 90.9% for QC16 - TP33 (0.05 – 0.015).
- All other RPD's for inter-laboratory duplicates were recorded below 50% and results suggest that no laboratory or sampling error has occurred.

Intra-laboratory duplicates

- One RPD was recorded above 50%. The RPD for Trivalent Chromium was recorded at 54.5% for QC9 – TP16 (0.05 – 0.15).
- All other RPD's for intra-laboratory duplicates were recorded below 50% and results suggest that no laboratory or sampling error has occurred.

Equipment Rinsate

Rinsate samples were not obtained during test pit sampling.

Discussion of RPD Results

The consistency of the metal concentrations for both primary and duplicate samples suggests that laboratory or sampling error has not occurred. It also suggests that systematic error has not occurred at the primary laboratory.

8.3.2 Quality Control – Laboratory

Additional quality control procedures were undertaken within the primary laboratory itself including:

- Spike recovery percentages
- Method blanks testing

All testing of method blanks delivered results below the LOR, indicating that no cross-contamination is occurring between equipment and soil samples.

8.3.3 Quality Review Conclusions

In summary, the following can be concluded from the quality control review for soil investigation results:

- The number of quality control samples analysed were sufficient to comply with NEPM quality control guidelines.
- Overall, RPDs results suggest that no laboratory or sampling errors have occurred.
- Results obtained for the equipment rinsate blank suggests that cross-contamination of samples is not likely to have occurred during the sampling event.
- Holding times were acceptable for the analytes targeted.
- The laboratory undertook internal quality control procedures.
- No significant quality issues regarding sample analysis were identified throughout the quality control procedures.
- The analysis results are therefore considered to represent the concentrations of chemicals in samples provided to the laboratory.

9. Groundwater Investigation Results

9.1 Investigation Guidelines

The assessment of human health and environmental risk from groundwater beneath the site has been undertaken by comparing levels of groundwater contaminants identified on site with NEPM (1999) Groundwater Investigation Levels (GILs) 'Marine Aquatic Ecosystems', along with SA EPA Environmental Protection Policy Water Quality (EPPWQ) Protected Environmental Values (PEVs) 'Aquatic Ecosystems' (Marine).

The nearest potential environmental receptor is the Gulf of St Vincent. EPPWQ Potable PEVs have also been considered although the salinity of the groundwater would preclude any beneficial use.

9.2 Groundwater Investigation Results

9.2.1 Groundwater Field Parameters

Table 9-1 displays the final stabilised field parameters readings for each of the groundwater wells. Details of the field measurements were recorded within the groundwater sampling field record sheets in Appendix G. It was noted from the results that:

- Concentration of Dissolved Oxygen (DO) in the groundwater varied from 1.64ppm to 3.9ppm.
- Electrical Conductivity (EC) of groundwater varied from 3.55 mS/cm to 56.5 mS/cm.
- pH values varied from 6.52 to 8.34.
- Oxidation/Reduction potential (ReDox) of the groundwater varied from 22mV to 228mV.
- Groundwater temperature varied from 18.7 °C to 21.9°C.

Table 9-1: Groundwater Field Parameters

Groundwater Well	Date Sampled	Depth to Groundwater btoc* (m)	Elevation of Groundwater (mAHD)	Field Parameters				
				DO (ppm)	EC (mS/cm)	pH	ReDox (mV)	Temperature (°C)
GW1	06/05/2008	3.51	2.01	2.35	3.55	8.11	70	18.9
GW2	06/05/2008	3.525	2.03	2.58	4.62	8.34	47	20.5
GW3	06/05/2008	2.55	1.77	1.94	56.5	7.36	85	20.1
GW4	08/05/2008	3.4	1.05	2.58	53.00	7.43	85	21
GW5	15/05/2008	3.05	6.43	2.54	10.71	7.01	162	19.7
GW6	07/05/2008	3.65	3.32	3.49	14.34	7.62	64	20.4
GW7	05/05/2008	3.25	7.11	1.72	7.45	7.92	59	21.9
GW8	15/05/2008	3.86	5.77	3.61	9.11	7.21	208	21.4
GW9	08/05/2008	3.83	3.94	1.64	8.43	7.34	22	19.6
GW10	15/05/2008	4.422	7.01	3.40	5.42	7.45	222	20.5
GW11	07/05/2008	2.26	1.95	1.85	25.30	7.50	47	20.2
GW12	15/05/2008	7.45	4.32	2.69	12.53	6.52	228	18.7
GW13	07/05/2008	3.37	2.80	1.65	26.90	7.65	45	20.6
GW14	07/05/2008	2.61	2.00	2.05	27.40	7.29	70	20.6
GW15	05/05/2008	2.54	3.50	3.90	7.38	7.77	225	20.8

*Below top of casing

9.2.2 Groundwater Analysis

The groundwater results indicate that some of the groundwater samples displayed dissolved metal concentrations greater than the NEPM Groundwater Investigation Levels for Marine Aquatic Ecosystems and EPPWQ. These exceedences are highlighted below in Table 9-2. Other target analytes had concentrations below the adopted guidelines or below the laboratory LOR. The laboratory certificates of analysis for the groundwater data can be found in Appendix H. A site sampling plan with locations of groundwater wells is included in Appendix F.

Table 9-2: NEPM GIL Exceedences in Groundwater Analysis

Analytes (µg/L)	Metals (µg/L)	
	Copper	Nickel
NEPM GIL (Aquatic Ecosystems, Marine)	5	15
SA EPA EPP (WQ) 2003 (Aquatic Ecosystems, Marine)	10	15
SA EPA EPP (WQ) 2003 criteria for potable water (µg/L)	2000	20
GW3	17	6.4
GW4	15	7
GW5	8.4	17
GW6	5.1	<5
GW11	5.4	<5
GW12	5.4	8.2
GW13	6.9	<5
GW14	7.2	<5
GW15	9.7	9.4
GW5	8.4	17

9.3 Quality Control Review - Groundwater

The following quality control samples were collected:

- Duplicate samples: QC1 (GW3) and QC4 (GW15)
- Triplicate Samples: QC2 (GW3) and QC5 (GW15)
- Equipment rinsate blank samples: QC3, QC6

Two intra-laboratory duplicates (QC1 & QC4) and two inter-laboratory triplicates (QC2 & QC5) were analysed for the same set of analytes as the relevant original sample.

All of the equipment rinsate blank samples were analysed for eight metals (As, Cd, Cr, Cu, Hg, Ni, Pb, and Zn) and THP.

Relevant percentage difference (RPD) calculations were undertaken on all duplicate and triplicate pairs. The RPD is defined as the difference between the duplicate samples as a percentage of the mean. The RPD is not calculated where both the primary sample and QC sample concentrations are below the laboratory limit of reporting (LOR) however where only one sample has concentrations below the RPD is calculated assuming a concentration equal to the LOR.

9.3.1 Quality Control – Groundwater Investigation

The RPD results for the intra-laboratory duplicates and triplicates were as follows in Table 9-3 (refer to Appendix J for all RPD results):

Table 9-3: Quality Control Analysis Results with RPD's Greater than 50%

Inter-laboratory Triplicates			
Analyte	QC4	GW15	RPD%
TDS (mg/L)	5400	2300	80.5%
Intra-laboratory Duplicates			
Analyte	QC5	GW15	RPD%
Chromium (µg/L)	3	17	140%
TDS (mg/L)	4600	2300	66.7%

Inter-laboratory triplicate

The RPD results for the inter-laboratory triplicates were as follows:

- RPD results could not be calculated for a number of analytes as many of the results were below the LOR (refer to Appendix J for detail)
- RPD results were above 50% for Total Dissolved Solids (TDS) for QC4 (GW15)

It was concluded that results do not suggest systematic error at the primary laboratory due to the majority of the RPD's being below 50%.

Intra-laboratory duplicates

The RPD results for the inter-laboratory duplicates were as follows:

- RPD results could not be calculated for a number of analytes as many of the results were below the LOR (refer to Appendix J for detail)
- RPD results were above 50% for Total Dissolved Solids (TDS) and Chromium for QC5 (GW15)

It was concluded that results do not suggest systematic error at the primary laboratory due to the majority of the RPD's being below 50%.

Equipment Rinsate Blank

The results of analysis of both equipment rinsate blanks (QC3, QC6) indicated concentrations of all target analytes below the laboratory LOR, with the exception of Copper (52µg/L) in QC3 and Pesticide b-BHC (45µg/L) in QC6.

The absence of other metals in the rinsate water that were recorded in the groundwater samples also suggests that cross-contamination of samples is not likely to have occurred during the sampling event.

Discussion of RPD Results

The consistency of the metal concentrations for both primary and duplicate samples suggests that laboratory or sampling error has not occurred. It also suggests that systematic error has not occurred at the primary laboratory.

Quality Control – Laboratory

Additional quality control procedures were undertaken within the primary laboratory itself including:

- Spike recovery percentages
- Method blanks testing

All testing of method blanks delivered results below the LOR, indicating that no cross-contamination is occurring between equipment and soil samples.

9.3.2 Quality Review Conclusions

In summary, the following can be concluded from the quality control review for groundwater investigation results:

- The number of quality control samples analysed were sufficient to comply with NEPM quality control guidelines.
- Overall, RPDs results suggest that no laboratory or sampling errors have occurred.
- Results obtained for the equipment rinsate blank suggests that cross-contamination of samples is not likely to have occurred during the sampling event.
- Holding times were acceptable for the analytes targeted.
- The laboratory undertook internal quality control procedures.
- No significant quality issues regarding sample analysis were identified throughout the quality control procedures.
- The analysis results are therefore considered to represent the concentrations of chemicals in samples provided to the laboratory.

10. Discussion

10.1 Significant Results Summary

10.1.1 Significant Results Soil Analysis

As the proposal includes residential uses on the site, the investigation guideline for soils used was HIL – Criteria A [‘Standard’ residential with garden/accessible soil (home-grown produce contributing less than 10% of vegetable and fruit intake; no poultry): this category includes children’s day-care centres, kindergartens, preschools and primary schools]. Results of analysis are also compared to the NEPM Ecological Investigation Levels (Interim Urban) to determine whether site contaminant concentrations may pose a threat to ecological receptors.

The majority of contaminants identified on site were recorded at levels below the NEMP Health Investigation Levels (HIL) and Ecological Investigation Levels (EIL). One recorded reading at TP69 0-0.1 of 1100 mg/kg for copper exceeded NEPM A HIL. Soil samples TP11 (0.05-0.15), TP22 (0.4-0.5) and TP37 (0.05-0.15) exceeded NEMP EIL for Manganese. Further investigation is required in the areas of these test pits to delineate contamination of soil within the area. No indication of contaminating activities was observed in these areas and it is possible these levels of metals occur naturally within the soil.

10.1.2 Significant Results Groundwater Analysis

The assessment of human health and environmental risk from groundwater beneath the site has been undertaken by comparing levels of groundwater contaminants identified on site with NEPM (1999) Groundwater Investigation Levels (GILs) ‘Marine Aquatic Ecosystems’, along with SA EPA Environmental Protection Policy Water Quality (EPPWQ) Protected Environmental Values (PEVs) ‘Aquatic Ecosystems’ (Marine). The nearest potential environmental receptor is the Gulf of St Vincent. EPPWQ Potable PEVs have also been considered although the salinity of the groundwater would preclude any beneficial use.

The majority of contaminants identified on the site were recorded at levels below the NEMP GIL and SA EPA EPPWQ. Samples GW4, GW5, GW6, GW11, GW12, GW13, GW14, GW15 exceeded NEMP GIL for Copper. GW3 exceeded both NEMP GIL and EPPWQ for Copper. GW5 exceeded both NEMP GIL and EPPWQ for Nickel.

Further soil and groundwater investigation may be required in areas where adopted guidelines for groundwater have been exceeded. No indication of contaminating activities was observed in these areas and it is possible these levels of metals occur naturally within the groundwater.

10.2 Risks

The results of this preliminary site contamination investigation found the majority of soil and groundwater samples were below adopted guidelines. Areas where soil and groundwater levels have exceeded adopted guidelines will require further investigation to delineate areas of risk.

This report is a preliminary investigation only and is intended only to identify potential constraints to the uses proposed in the Masterplan and to identify additional investigations required should the proposal be approved and proceed. Greater risk areas remain those areas within and surrounding South Sector East, East Sector, and the top portion of South Sector (predominantly north of Park Road). These areas have been in use for market gardening since the 1950s, with a proportionally moderate to high risk of contamination. This risk ranking is based on the New Zealand Risk Based Screening System for Contaminated Land Management, 2004.

11. Conclusions and Recommendations

Connell Wagner was commissioned to undertake a preliminary site contamination investigation of the site to estimate the potential site contamination risks, and the suitability of the site for the proposed land uses illustrated in the Masterplan.

A site history investigation prepared by Connell Wagner (Site History Investigation: Buckland Park Proposal, Connell Wagner 2008) was prepared to assess the potential contamination risks of site. This was conducted with the general knowledge of potential contamination issues on agricultural land and market gardens and the potential significant contamination risks associated with the site and the proposal. The preliminary site contamination investigation was planned and undertaken based on information outlined in the site history investigation.

This report details the results of the preliminary site contamination investigation which was carried out generally in accordance with the National Environment Protection (Assessment of Site Contamination) Measure 1999, the "Australian Standards 4482. 1-2005 – Guide to Sampling and Investigation of Potentially Contaminated Soil, Part 1: Non-volatile and semi-volatile compounds", as well as South Australian regulatory requirements outlined in the South Australia *Environment Protection Act 1993*.

The results of this preliminary site contamination investigation found the majority of soil and groundwater samples were below adopted guidelines. However, some soil and groundwater levels have exceeded adopted guidelines and these areas will require further investigation as part of detailed design work.

The results of this preliminary site contamination investigation indicate no major signs of contamination across the site. It must be noted that this is only a preliminary site contamination investigation. Any part of the site proposed for any sensitive use will require a comprehensive soil and groundwater investigation along with the appointment of an accredited Victorian EPA auditor.

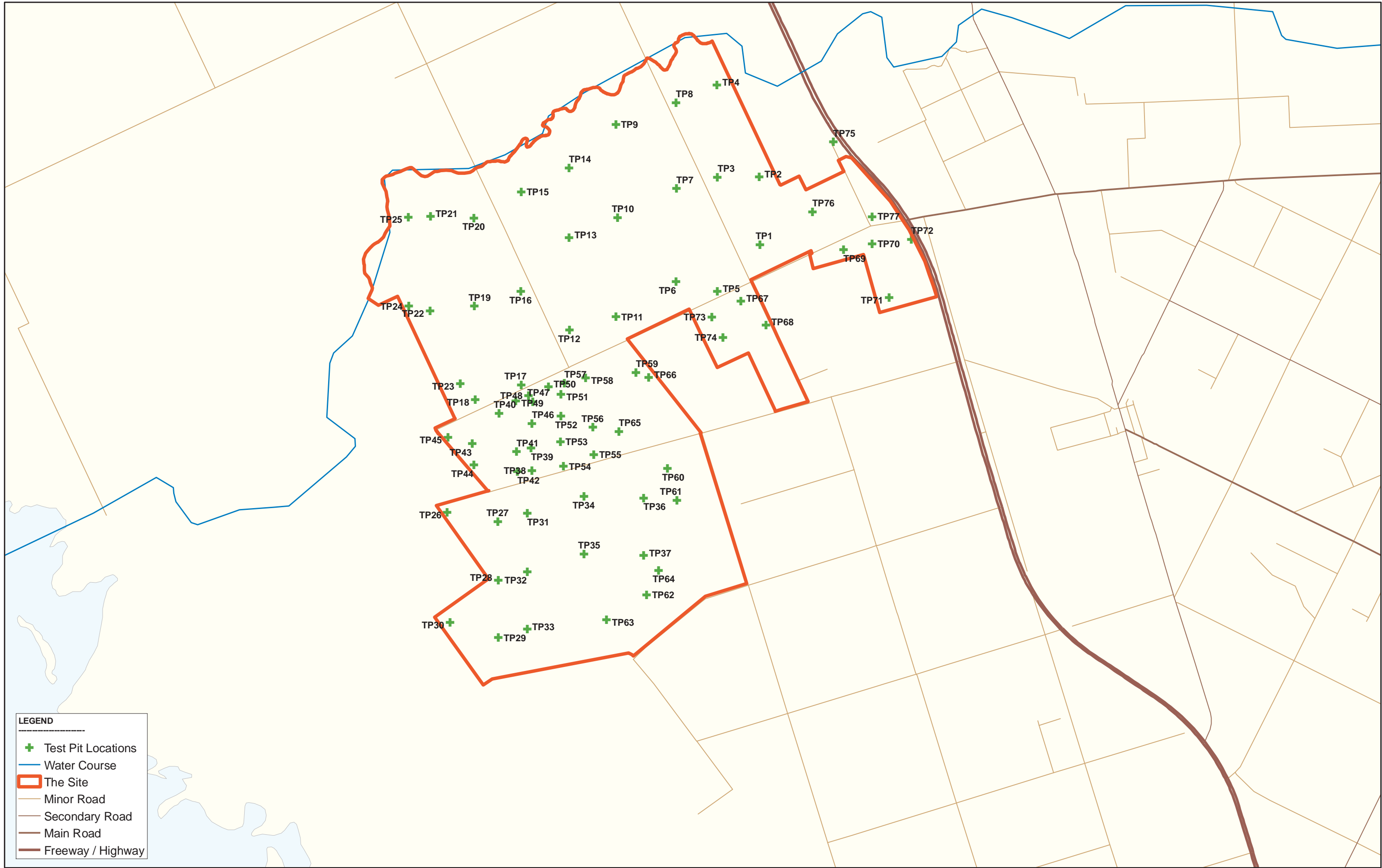
This investigation has achieved the objectives outlined in Section 2.2. These objectives were to determine:

- Potentially contaminating activities at the site and locations
- If significant contamination has been caused by these activities
- Whether contamination has the potential to have crossed property boundaries, and
- Recommendations to address soil contamination issues, if identified

Appendix A

Site Sampling Locations – Soil

Appendix A



LEGEND

- + Test Pit Locations
- Water Course
- The Site
- Minor Road
- Secondary Road
- Main Road
- Freeway / Highway

N

1:29,000

0 0.35 0.7 1.4 2.1
km

Produced By Connell Wagner
Data Sources Transport SA
Projection Transverse Mercator
Datum Geocentric Datum of Australia 1994
Complied 16/10/08

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Connell Wagner has taken care to accurately reproduce its drawings on the information regarding in ground services supplied by the above listed data sources. The data sources advise that the data was current on the following dates:

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Prior to undertaking any in ground excavation, testing on construction activity the contractor shall verify the location of all services within the subject area using service authority data and onsite support and appropriate location techniques.

Appendix B

Soil Bore Logs

Appendix B

Environmental Soil Log

Sample No. TP1

Sheet 1 of 1

Client: Walker Corporation	Project No. 31495-001
Project: Buckland Park	Logged by: Matthew Eygenraam
Location: E0273371 N6162624	Drilling Date: 1/18/2008

Drill Company: DrillMax	Driller: John	Hole Diameter: -
Rig/Core:	Method: Test pit	Hole Depth: 2m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2	SAND FG Brown grey		D	S	0.05-0.15m	0	
		0.4	Sandy SILT FG Light brown/grey		D	S	0.4-0.5m	0	
		0.7	Silty CLAY MP Red brown		D	S	0.9-1.0m	0	
		0.8							
		1.6	Silty CLAY MP-HP Red brown with grey mottles Minor charcoal inclusions 1-2mm		D-M	F	1.9-2.0m	0	
2	End of Test Pit @ 2m								

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ coring	hole support C casing F foam M mud W water water water level water inflow water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental sample N* SPT blow with sample N SPT blow without sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. TP2




Sheet 1 of 1

Client: Walker Corporation Project No. 31495-001
 Project: Buckland Park Logged by: April Freeman
 Location: E0273366 N6163213 Drilling Date: 1/18/2008

Drill Company: DrillMax Driller: John Hole Diameter: -
 Rig/Core: Method: Test pit Hole Depth: 2m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments	
Test pit	None encountered	0.2		Sandy SILT Light brown	D	St	0.05-0.15m QC1 (duplicate) QC2 (triplicate)	0		
		0.25		Silty CLAY LP Red brown Minor charcoal inclusions 1-2mm	D	St	0.4-0.5m	0		
		0.4								
		0.6								
		0.8								
		1.0		Silty CLAY MP_HP Red brown Some organic matter	D	St	0.9-1.0m	0		
		1.2								
		1.4								
		1.6		Silty CLAY MP-HP Red brown with grey mottles Minor charcoal inclusions 1-2mm	M	S	1.9-2.0m	0		
		1.8								
		2.0		End of Test Pit @ 2m						

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ	hole support C casing F foam M mud W water water  water level  water inflow  water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental sample N* SPT blow with sample N SPT blow without sample PP U50, Pocket VS U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. TP3




Sheet 1 of 1

Client: Walker Corporation Project No. 31495-001
 Project: Buckland Park Logged by: April Freeman
 Location: E0273004 N6163204 Drilling Date: 1/18/2008

Drill Company: DrillMax Driller: John Hole Diameter: -
 Rig/Core: Method: Test pit Hole Depth: 1m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2	Silty CLAY LP Medium brown		D	VSt	0.05-0.15m	0	
		0.35	Clayey SILT with sand FG Medium grey		D	St	0.2-0.25m	0	
		0.4	Silty CLAY MP Red brown Minor charcoal inclusions 1-2mm Some sand FG		D	F	0.4-0.5m	0	
		1.0	End of Test Pit @ 1m						
		1.2							
		1.4							
		1.6							
		1.8							
		2							

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ coring	hole support C casing F foam M mud W water water  water level  water inflow  water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental N* sample N SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. TP4

Sheet 1 of 1

Client: Walker Corporation	Project No. 31495-001
Project: Buckland Park	Logged by: April Freeman
Location: E0273001 N6164002	Drilling Date: 1/18/2008

Drill Company: DrillMax	Driller: John	Hole Diameter: -
Rig/Core:	Method: Test pit	Hole Depth: 1m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2		Clayey SILT with sand FG Medium brown	D	St	0.05-0.15m QC3 (duplicate)	0	
		0.4		Silty CLAY MP-HP Red brown Minor charcoal inclusions 1-2mm	D	F	0.5-0.6m	0	
		0.8		Sandy CLAY LP Orange brown Minor charcoal inclusions 1-2mm Limestone inclusions ~20%	D	F	0.9-1.0m	0	
		1.0	End of Test Pit @ 1m						
		1.2							
		1.4							
		1.6							
		1.8							
		2							

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ coring	hole support C casing F foam M mud W water water water level water inflow water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental N* sample N SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. TP5

Sheet 1 of 1

Client: Walker Corporation	Project No. 31495-001
Project: Buckland Park	Logged by: April Freeman
Location: E0273005 N6162220	Drilling Date: 1/18/2008

Drill Company: DrillMax	Driller: John	Hole Diameter: -
Rig/Core:	Method: Test pit	Hole Depth: 1m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2		Clayey SILT with sand FG Medium brown	D	St	0.05-0.15m	0	
				Charcoal patch 0.2-0.25m ~30 x 10cm			0.2-0.25m	0	
		0.4		Silty CLAY MP Orange brown Limestone inclusions ~5% Some gravel inclusions, angular, 1-5mm	D	F	0.4-0.5m QC4 (duplicate) QC5 (triplicate)	0	
					0.6				
0.8		Silty CLAY MP Orange brown Limestone inclusions ~20% Some gravel inclusions, angular, 1-5mm	M	S	0.9-1.0m	0			
1.0		End of Test Pit @ 1m							
1.2									
1.4									
1.6									
1.8									
2									

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ coring	hole support C casing F foam M mud W water water water level water inflow water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental N* sample N SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. TP6




Sheet 1 of 1

Client: Walker Corporation Project No. 31495-001
 Project: Buckland Park Logged by: April Freeman
 Location: E0272648 N6162305 Drilling Date: 1/18/2008

Drill Company: DrillMax Driller: John Hole Diameter: -
 Rig/Core: Method: Test pit Hole Depth: 1m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2	Silty CLAY LP	Medium brown	D	F	0.05-0.15m	0	
		0.4	Silty CLAY MP-HP	Orange brown Limestone inclusions ~30% Minor gravel inclusions 1-2mm	D	F	0.4-0.5m	0	
		0.8	Silty CLAY MP	Orange brown Limestone inclusions ~20% Some gravel inclusions 1-10mm	D	F	0.9-1.0m	0	
		1.0	End of Test Pit @ 1m						
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ coring	hole support C casing F foam M mud W water water  water level  water inflow  water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental sample N SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. TP7

Sheet 1 of 1

Client: Walker Corporation Project No. 31495-001
 Project: Buckland Park Logged by: April Freeman
 Location: E0272650 N6163107 Drilling Date: 1/18/2008

Drill Company: DrillMax Driller: John Hole Diameter: -
 Rig/Core: Method: Test pit Hole Depth: 2m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2	Sandy SILT MG Light brown		D	VS	0.05-0.15m	0	
		0.4	Silty CLAY LP Orange brown Limestone inclusions ~5%		D	S	0.4-0.5m	0	
		0.6							
		0.8	Silty CLAY MP Orange brown Limestone inclusions ~20%		D	S	0.9-1.0m	0	
		1.0							
		1.2	Silty CLAY MP Orange brown with some grey mottles Limestone inclusions ~10%		D	S			
		1.4							
		1.6							
		1.8							
		2.0					1.9-2.0m	0	
		2.2	End of Test Pit @ 2m						

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ	hole support C casing F foam M mud W water water water level water inflow water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental sample N* SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. TP8

Sheet 1 of 1

Client: Walker Corporation	Project No. 31495-001
Project: Buckland Park	Logged by: April Freeman
Location: E0272645 N6163849	Drilling Date: 1/21/2008

Drill Company: DrillMax	Driller: John	Hole Diameter: -
Rig/Core:	Method: Test pit	Hole Depth: 2m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2	Silty CLAY LP	Medium brown	D	St	0.05-0.15m QC6 (duplicate) QC7 (triplicate)	0	
		0.4	Silty CLAY MP	Dark brown	D	St	0.5-0.6m	0	
		0.8	Silty CLAY MP	Orange brown Minor charcoal inclusions 1-2mm	D	F	0.9-1.0m	0	
		2.0	End of Test Pit @ 2m						
		2.2							

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ coring	hole support C casing F foam M mud W water water water level water inflow water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental sample N* SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. TP9




Sheet 1 of 1

Client: Walker Corporation Project No. 31495-001
 Project: Buckland Park Logged by: April Freeman
 Location: E0272126 N6163659 Drilling Date: 1/21/2008

Drill Company: DrillMax Driller: John Hole Diameter: -
 Rig/Core: Method: Test pit Hole Depth: 1m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2	Silty CLAY LP	Medium brown	D	St	0.05-0.15m	0	
		0.4	Silty CLAY MP	Dark brown	D	St	0.4-0.5m	0	
		1.0	End of Test Pit @ 1m						
		1.2							
		1.4							
		1.6							
		1.8							
		2							

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ coring	hole support C casing F foam M mud W water water  water level  water inflow  water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental sample N SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. **TP10**




Sheet 1 of 1

Client: Walker Corporation Project No. 31495-001
 Project: Buckland Park Logged by: April Freeman
 Location: E0272141 N6162858 Drilling Date: 1/21/2008

Drill Company: DrillMax Driller: John Hole Diameter: -
 Rig/Core: Method: Test pit Hole Depth: 1m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2	Silty CLAY LP	Medium brown	D	H	0.05-0.15m	0	
		0.4	Silty CLAY MP	Dark brown	D	St	0.4-0.5m	0	
		0.8	Silty CLAY MP	Orange brown with some dark grey mottles	D	S	0.9-1.0m	0	
		1.0	End of Test Pit @ 1m						
		1.2							
		1.4							
		1.6							
		1.8							
		2							

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ coring	hole support C casing F foam M mud W water water  water level  water inflow  water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental sample N SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. TP11




Sheet 1 of 1

Client: Walker Corporation	Project No. 31495-001
Project: Buckland Park	Logged by: April Freeman
Location: E0272129 N6162001	Drilling Date: 1/21/2008

Drill Company: DrillMax	Driller: John	Hole Diameter: -
Rig/Core:	Method: Test pit	Hole Depth: 1m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2	Silty CLAY LP	Medium brown	D	H	0.05-0.15m	0	
		0.4	Silty CLAY MP	Dark brown	D	F	0.4-0.5m QC8 (duplicate)	0	
		0.8	Silty CLAY MP	Slight red brown with some orange brown mottles	D	S	0.9-1.0m	0	
		1.0	End of Test Pit @ 1m						
		1.2							
		1.4							
		1.6							
		1.8							
		2							

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ coring	hole support C casing F foam M mud W water water  water level  water inflow  water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental sample N SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. **TP12**




Sheet 1 of 1

Client: Walker Corporation Project No. 31495-001
 Project: Buckland Park Logged by: April Freeman
 Location: E0271726 N6161885 Drilling Date: 1/21/2008

Drill Company: DrillMax Driller: John Hole Diameter: -
 Rig/Core: Method: Test pit Hole Depth: 2m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2	Silty CLAY with sand FG LP Medium brown	D St	0.05-0.15m	0			
		0.4	Silty CLAY MP Orange brown	D St	0.4-0.5m	0			
		0.9-1.0m			0				
		1.6	Silty CLAY MP Orange brown with some light grey mottles Possibly some sand FG	D S	1.9-2.0m	0			
		2	End of Test Pit @ 2m						

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ coring	hole support C casing F foam M mud W water water  water level  water inflow  water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental sample N* SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. **TP13**




Sheet 1 of 1

Client: Walker Corporation Project No. 31495-001
 Project: Buckland Park Logged by: April Freeman
 Location: E0271724 N6162684 Drilling Date: 1/21/2008

Drill Company: DrillMax Driller: John Hole Diameter: -
 Rig/Core: Method: Test pit Hole Depth: 2m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments	
Test pit	None encountered	0.2	Silty CLAY LP	Medium brown	D	VSt	0.05-0.15m	0		
		0.4	Silty CLAY MP	Dark brown	D	F	0.4-0.5m	0		
		0.6								
		0.8								
		1.0					0.9-1.0m	0		
		1.2								
		1.4								
		1.6								
		1.8	Silty CLAY MP	Dark brown with red brown and grey mottles	D	S	1.9-2.0m	0		
		2	End of Test Pit @ 2m							

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ coring	hole support C casing F foam M mud W water water  water level  water inflow  water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental sample N* SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. TP14

Sheet 1 of 1

Client: Walker Corporation Project No. 31495-001
 Project: Buckland Park Logged by: April Freeman
 Location: E0271723 N6163284 Drilling Date: 1/21/2008

Drill Company: DrillMax Driller: John Hole Diameter: -
 Rig/Core: Method: Test pit Hole Depth: 2m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2	Silty CLAY LP	Medium-dark brown	D	St	0.05-0.15m	0	
		0.4	Silty CLAY MP	Medium brown	D	F	0.4-0.5m	0	
		0.8	Silty CLAY LP	Light brown	D	VS	0.9-1.0m	0	
		1.8	SAND LG	Light brown Some charcoal inclusions 1-5mm	D	VS	1.9-2.0m	0	
		2	End of Test Pit @ 2m						

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ coring	hole support C casing F foam M mud W water water water level water inflow water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental sample N* SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. TP15




Sheet 1 of 1

Client: Walker Corporation Project No. 31495-001
 Project: Buckland Park Logged by: April Freeman
 Location: E0271311 N6163078 Drilling Date: 1/21/2008

Drill Company: DrillMax Driller: John Hole Diameter: -
 Rig/Core: Method: Test pit Hole Depth: 1m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2	Silty CLAY LP	Medium brown	D	H	0.05-0.15m	0	
		0.4	Silty CLAY MP	Dark brown	D	F	0.4-0.5m	0	
		0.8	Silty CLAY MP	Red brown	D	F	0.9-1.0m	0	
		1.0	End of Test Pit @ 1m						
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ coring	hole support C casing F foam M mud W water water  water level  water inflow  water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental sample N SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. TP16




Sheet 1 of 1

Client: Walker Corporation Project No. 31495-001
 Project: Buckland Park Logged by: April Freeman
 Location: E0271306 N6162220 Drilling Date: 1/21/2008

Drill Company: DrillMax Driller: John Hole Diameter: -
 Rig/Core: Method: Test pit Hole Depth: 1m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2	Silty CLAY with sand FG LP Light brown		D	St	0.05-0.15m QC9 (duplicate) QC10 (triplicate)	0	
		0.4	Silty CLAY MP Orange brown with dark grey specks ~1-2mm		D	St	0.4-0.5m	0	
		0.8	Clayey SILT Orange brown		D	S	0.9-1.0m	0	
		1.0	End of Test Pit @ 1m						
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ	hole support C casing F foam M mud W water water  water level  water inflow  water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental N* sample N SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. TP17




Sheet 1 of 1

Client: Walker Corporation Project No. 31495-001
 Project: Buckland Park Logged by: April Freeman
 Location: E0271311 N6161411 Drilling Date: 1/21/2008

Drill Company: DrillMax Driller: John Hole Diameter: -
 Rig/Core: Method: Test pit Hole Depth: 1m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2		Clayey SILT with sand FG Light brown	D	St	0.05-0.15m	0	
		0.4		Silty SAND MG Red brown	D	S	0.4-0.5m	0	
		0.8		Silty CLAY MP Red brown with grey mottles	D	F			
		0.9					0.9-1.0m	0	
		1.0	End of Test Pit @ 1m						
		1.2							
		1.4							
		1.6							
		1.8							
		2							

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ	hole support C casing F foam M mud W water water  water level  water inflow  water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental N* sample N SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. TP18

Sheet 1 of 1

Client: Walker Corporation Project No. 31495-001
 Project: Buckland Park Logged by: April Freeman
 Location: E0270912 N6161286 Drilling Date: 1/21/2008

Drill Company: DrillMax Driller: John Hole Diameter: -
 Rig/Core: Method: Test pit Hole Depth: 2m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2	Silty CLAY LP	Medium brown	D	H	0.05-0.15m	0	
		0.4	Silty CLAY MP	Red brown Minor gravel inclusions ~7mm	D	F	0.4-0.5m	0	
		0.8	Silty CLAY MP	Red brown Minor charcoal inclusions 1-2mm Minor gravel	D	F	0.9-1.0m	0	
		2.0	End of Test Pit @ 2m						
		2.2							

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ	hole support C casing F foam M mud W water water water level water inflow water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental sample N SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. **TP19**

Sheet 1 of 1

Client: Walker Corporation Project No. 31495-001
 Project: Buckland Park Logged by: April Freeman
 Location: E0270904 N6162091 Drilling Date: 1/21/2008

Drill Company: DrillMax Driller: John Hole Diameter: -
 Rig/Core: Method: Test pit Hole Depth: 2m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2	Silty CLAY LP	Medium brown	D	VSt	0.05-0.15m	0	
		0.4	Silty CLAY with sand FG LP	Orange brown	D	St	0.4-0.5m	0	
		0.9-1.0m					0.9-1.0m	0	
		1.6	Clayey SILT with sand MG	Red brown	D	S	1.9-2.0m	0	
		2	End of Test Pit @ 2m						
		2.2							

Remarks:

method D diatube C casing AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ	hole support C casing F foam M mud W water water water level water inflow water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental N* sample N SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. TP20

Sheet 1 of 1

Client: Walker Corporation		Project No. 31495-001							
Project: Buckland Park		Logged by: April Freeman							
Location: E0270903 N6162855		Drilling Date: 1/21/2008							
Drill Company: DrillMax		Driller: John							
Rig/Core:		Method: Test pit							
		Hole Diameter: -							
		Hole Depth: 2.9m							
Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture content	consist. density	Samples	PID Readings (ppm)	Additional Comments
		0.2	Silty SAND MG Light red brown		D	VS	0.05-0.15m	0	Test pit located on top of mound ~300m x 100m x 2m
		0.4					0.4-0.5m	0	
		0.6							
		0.8							
		1.0					0.9-1.0m	0	
		1.2							
		1.4							
		1.6							
		1.8							
		2.0					1.9-2.0m	0	
		2.2							
		2.4							
		2.6							
		2.8					2.8-2.9m	0	
		2.9		Slightly higher clay content at 2.9m					
				End of Test Pit @ 2.9m					

Remarks:

method D distube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade draw/coroner/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ coring	hole support C casing F foam M mud W water water water level water inflow water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grain size F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottled	moisture D dry M moist W wet <PL less than plastic limit -PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25-pp<50kPa 50-pp<100kPa 100-pp<200kPa 200-pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental sample N SPT blow with sample PP SPT blow without sample USU, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. TP21




Sheet 1 of 1

Client: Walker Corporation	Project No. 31495-001
Project: Buckland Park	Logged by: April Freeman
Location: E0270524 N6162868	Drilling Date: 1/21/2008

Drill Company: DrillMax	Driller: John	Hole Diameter: -
Rig/Core:	Method: Test pit	Hole Depth: 1m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2	Silty CLAY LP Medium brown		D	H	0.05-0.15m	0	
		0.4	Silty SAND MG Red brown		D	VS	0.4-0.5m	0	
		1.0	End of Test Pit @ 1m						
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ coring	hole support C casing F foam M mud W water water  water level  water inflow  water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental N* sample N SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. **TP22**

Sheet 1 of 1

Client: Walker Corporation Project No. 31495-001
 Project: Buckland Park Logged by: April Freeman
 Location: E0270523 N6162052 Drilling Date: 1/21/2008

Drill Company: DrillMax Driller: John Hole Diameter: -
 Rig/Core: Method: Test pit Hole Depth: 1m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2	Silty CLAY LP	Medium brown	D	H	0.05-0.15m	0	
		0.4	Silty CLAY MP	Dark brown	D	F	0.4-0.5m	0	
		0.8	Silty CLAY MP	Medium brown	D	F	0.9-1.0m	0	
		1.0	End of Test Pit @ 1m						
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ coring	hole support C casing F foam M mud W water water water level water inflow water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental sample N SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. **TP23**

Sheet 1 of 1

Client: Walker Corporation Project No. 31495-001
 Project: Buckland Park Logged by: Matt Eygenraam
 Location: E0270783 N6161423 Drilling Date: 1/22/2008

Drill Company: DrillMax Driller: Craig Hole Diameter: -
 Rig/Core: Method: Test pit Hole Depth: 2m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2	Silty SAND LP Medium Grain Grey brown		D	S	0.05-0.15m	0	
		0.4	Silty sandy CLAY LP Red/brown/grey with small black inclusions Medium grain		D	F	0.4-0.5m	0	
		0.6	Silty CLAY MP Red brown grey mottles Fine grain		D	F			
		1.0					0.9-1.0m	0	
		2.0					1.9-2.0m	0	
End of Test Pit @ 2m									
		2.2							

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ	hole support C casing F foam M mud W water water water level water inflow water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental sample N* SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. **TP24**




Sheet 1 of 1

Client: Walker Corporation Project No. 31495-001
 Project: Buckland Park Logged by: Matt Eygenraam
 Location: E0270338 N6162092 Drilling Date: 1/22/2008

Drill Company: DrillMax Driller: Craig Hole Diameter: -
 Rig/Core: Method: Test pit Hole Depth: 2m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2		Silty sandy CLAY LP Medium Grain Dark brown	D	H	0.05-0.15m QC11 (duplicate) QC12 (triplicate)	0	
		0.4		Silty sandy CLAY LP Medium Grain Very dark brown	D	H	0.4-0.5m	0	
		0.6		Silty clayey SAND MP Red brown Medium grain	D	S			
		1.0					0.9-1.0m	0	
		1.6		Silty CLAY MP Red brown some black inclusions Fine grain	D	S			
		2	End of Test Pit @ 2m						
		2.2							

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ coring	hole support C casing F foam M mud W water water  water level  water inflow  water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental sample N* SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. **TP25**




Sheet 1 of 1

Client: Walker Corporation Project No. 31495-001
 Project: Buckland Park Logged by: Matt Eygenraam
 Location: E0270335 N6162863 Drilling Date: 1/22/2008

Drill Company: DrillMax Driller: Craig Hole Diameter: -
 Rig/Core: Method: Test pit Hole Depth: 1m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2	Silty sandy CLAY LP Dark brown Medium Grain	D H	0.05-0.15m	0			
		0.4	Silty CLAY LP Red brown Fine Grain	D F	0.4-0.5m	0			
		1.0	Silty CLAY LP, Fine Grain Red brown with small black inclusions	D F	0.9-1.0m	0			
		End of Test Pit @ 1m							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ	hole support C casing F foam M mud W water water  water level  water inflow  water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental N* sample N SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. **TP26**

Sheet 1 of 1

Client: Walker Corporation Project No. 31495-001
 Project: Buckland Park Logged by: Matt Eygenraam
 Location: E0270671 N6160311 Drilling Date: 1/22/2008

Drill Company: DrillMax Driller: Craig Hole Diameter: -
 Rig/Core: Method: Test pit Hole Depth: 2m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2	Silty sandy CLAY LP Brown Medium Grain		D	St	0.05-0.15m	0	
		0.4	Silty sandy CLAY LP-MP Brown Fine Grain		D	S	0.4-0.5m	0	
		1.0	Silty CLAY MP-HP Red brown Fine Grain		D	S	0.9-1.0m	0	
		1.8	Silty CLAY HP Red brown Fine Grain		M	S	1.9-2.0m	0	
		2.0	End of Test Pit @ 2m						
		2.2							

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ	hole support C casing F foam M mud W water water water level water inflow water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental N* sample N SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. **TP27**




Sheet 1 of 1

Client: Walker Corporation	Project No. 31495-001
Project: Buckland Park	Logged by: Matt Eygenraam
Location: E0271107 N6160230	Drilling Date: 1/22/2008

Drill Company: DrillMax	Driller: Craig	Hole Diameter: -
Rig/Core:	Method: Test pit	Hole Depth: 1m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2	Silty clayey SAND LP Red Brown Medium Grain		D	S	0.05-0.15m	0	
		0.4					0.4-0.5m	0	
		0.6							
		0.8							
		1.0	End of Test Pit @ 1m						
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ coring	hole support C casing F foam M mud W water water  water level  water inflow  water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental N* sample N SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. **TP28**




Sheet 1 of 1

Client: Walker Corporation Project No. 31495-001
 Project: Buckland Park Logged by: Matt Eygenraam
 Location: E0271111 N6159726 Drilling Date: 1/22/2008

Drill Company: DrillMax Driller: Craig Hole Diameter: -
 Rig/Core: Method: Test pit Hole Depth: 1m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2	Silty SAND LP Red Brown Medium Grain		D	F	0.05-0.15m CQ13 (Duplicate)	0	
		0.4	Silty clayey SAND LP Red Brown Medium Grain		D	S	0.4-0.5m	0	
		0.6	Silty clay Red brown MP Medium Grain		D	S			
		1.0	End of Test Pit @ 1m						
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ	hole support C casing F foam M mud W water water  water level  water inflow  water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental N* sample N SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. **TP29**




Sheet 1 of 1

Client: Walker Corporation Project No. 31495-001
 Project: Buckland Park Logged by: Matt Eygenraam
 Location: E02711111 N6159229 Drilling Date: 1/22/2008

Drill Company: DrillMax Driller: Craig Hole Diameter: -
 Rig/Core: Method: Test pit Hole Depth: 2m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments	
Test pit	None encountered	0.2	Silty CLAY LP Brown Medium Grain		D	St	0.05-0.15m	0		
		0.4	Silty CLAY LP Red brown Fine grain		D	S	0.4-0.5m	0		
		0.6	Silty CLAY LP-MP Red Brown, grey inclusions Fine Grain		D	S				
		0.8								
		1.0						0.9-1.0m	0	
		1.2								
		1.4								
		1.6								
		1.8	Silty CLAY Red brown Fine Grain HP		W	S				
		2.0					1.9-2.0m	0		
		2.2	End of Test Pit @ 2m							

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ	hole support C casing F foam M mud W water water  water level  water inflow  water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental N* sample N SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. **TP30**




Sheet 1 of 1

Client: Walker Corporation Project No. 31495-001
 Project: Buckland Park Logged by: Matt Eygenraam
 Location: E02706095 N6159359 Drilling Date: 1/22/2008

Drill Company: DrillMax Driller: Craig Hole Diameter: -
 Rig/Core: Method: Test pit Hole Depth: 1m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments	
Test pit	None encountered	0.2		Silty sandy Clay LP Red Brown Fine grain	D	St	0.05-0.15m	0		
		0.4		Silty clayey SAND LP Red Brown Fine Grain	D	S	0.4-0.5m	0		
		0.8								
		1.0		Silty clayey SAND MP-HP Red Brown Fine Grain	D	S	0.9-1.0m	0		
		1.0	End of Test Pit @ 1m							
		1.2								
		1.4								
		1.6								
		1.8								
		2.0								
		2.2								

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ	hole support C casing F foam M mud W water water  water level  water inflow  water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental N* sample N SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. TP31




Sheet 1 of 1

Client: Walker Corporation Project No. 31495-001
 Project: Buckland Park Logged by: Matt Eygenraam
 Location: E0271363 N6160302 Drilling Date: 1/22/2008

Drill Company: DrillMax Driller: Craig Hole Diameter: -
 Rig/Core: Method: Test pit Hole Depth: 2m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2	Silty CLAY LP Brown Fine Grain		D	St	0.05-0.15m	0	
		0.4	Silty CLAY LP, Fine grain Brown with 10mm dark brown peds		D	H	0.4-0.5m	0	
		0.6	Silty CLAY MP Red Brown, grey inclusions Fine Grain with 20mm hard peds		D	S			
		1.0	Silty clayey sand LP Medium grain Red brown		D	S	0.9-1.0m	0	
		2.0	Silty clay Red brown MP, Medium grain		D	S	1.9-2.0m	0	
		2.0	End of Test Pit @ 2m						
		2.2							

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ coring	hole support C casing F foam M mud W water water  water level  water inflow  water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental sample N* SPT blow with sample N SPT blow without sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. **TP32**




Sheet 1 of 1

Client: Walker Corporation Project No. 31495-001
 Project: Buckland Park Logged by: Matt Eygenraam
 Location: E0271360 N6159800 Drilling Date: 1/22/2008

Drill Company: DrillMax Driller: Craig Hole Diameter: -
 Rig/Core: Method: Test pit Hole Depth: 1m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2	Silty CLAY LP	Red Brown Medium grain	D	St	0.05-0.15m	0	
		0.4	Silty CLAY MP	Red Brown Medium Grain	D	S	0.4-0.5m	0	
		1.0	Silty sandy CLAY MP	Red Brown Medium Grain	D	S	0.9-1.0m QC14 (duplicate)	0	
		End of Test Pit @ 1m							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ	hole support C casing F foam M mud W water water  water level  water inflow  water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental N* sample N SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. **TP33**




Sheet 1 of 1

Client: Walker Corporation Project No. 31495-001
 Project: Buckland Park Logged by: Matt Eygenraam
 Location: E0271360 N6159300 Drilling Date: 1/22/2008

Drill Company: DrillMax Driller: Craig Hole Diameter: -
 Rig/Core: Method: Test pit Hole Depth: 1m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2	Silty clayey SAND LP Red Brown Medium grain	D St	0.05-0.15m QC15 (Duplicate) QC16 (TriPLICATE)	0			
		0.4	Silty CLAY LP Red Brown Medium Grain	D S	0.4-0.5m	0			
		0.8	Sandy CLAY LP Red Brown Medium Grain	D S					
		0.9			0.9-1.0m QC14 (duplicate)	0			
		1.0	End of Test Pit @ 1m						
		1.2							
		1.4							
		1.6							
		1.8							
		2							

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ	hole support C casing F foam M mud W water water  water level  water inflow  water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental N* sample N SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. **TP34**

Sheet 1 of 1

Client: Walker Corporation Project No. 31495-001
 Project: Buckland Park Logged by: Matt Eygenraam
 Location: E0271850 N6160450 Drilling Date: 1/23/2008

Drill Company: DrillMax Driller: Craig Hole Diameter: -
 Rig/Core: Method: Test pit Hole Depth: 1m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2	Silty CLAY Dark brown / grey LP Medium Grain	D H	0.05-0.15m	0			
		0.4	Silty CLAY LP-MP Brown Medium grain	D F	0.4-0.5m	0.2			
		0.6	Silty clayey sand LP-MP Red Brown, grey inclusions Fine Grain	D S					
		1.0			0.9-1.0m	0.3			
		1.6	Silty CLAY Red brown Medium Grain MP	D F					
2.0			1.9-2.0m	0					
End of Test Pit @ 2m									

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ coring	hole support C casing F foam M mud W water water water level water inflow water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental N* sample N SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. **TP35**




Sheet 1 of 1

Client: Walker Corporation Project No. 31495-001
 Project: Buckland Park Logged by: Matt Eygenraam
 Location: E0271850 N6159950 Drilling Date: 1/23/2008

Drill Company: DrillMax Driller: Craig Hole Diameter: -
 Rig/Core: Method: Test pit Hole Depth: 1m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2	Silty CALY LP	Dark Brown Medium grain	D	H	0.05-0.15m	0.4	
		0.4	Silty CLAY MP	Red Brown Medium Grain	D	F	0.4-0.5m QC17 (Duplicate)	1.1	
		0.6	Silty CLAY MP-HP	Brown with white inclusions Medium Grain	D	F			
		1.0	End of Test Pit @ 1m						
		1.2							
		1.4							
		1.6							
		1.8							
		2.0							
		2.2							

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ	hole support C casing F foam M mud W water water  water level  water inflow  water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental N* sample N SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. TP36

Sheet 1 of 1

Client: Walker Corporation Project No. 31495-001
 Project: Buckland Park Logged by: Matt Eygenraam
 Location: E0272367 N6160437 Drilling Date: 1/23/2008

Drill Company: DrillMax Driller: Craig Hole Diameter: -
 Rig/Core: Method: Test pit Hole Depth: 2m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2	Silty CLAY Brown / grey LP Medium Grain	D H	0.05-0.15m	0.3			
		0.4	Silty CLAY LP-MP Dark brown Medium grain	D H	0.4-0.5m	0.4			
		0.6	Silty CLAY LP-MP Red Brown with black hard inclusions Medium grain	D F					
		1.0				0.9-1.0m	0.3		
		1.2							
		1.4							
		1.6							
		1.8							
		2.0					1.9-2.0m	1.2	
End of Test Pit @ 2m									

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ coring	hole support C casing F foam M mud W water water water level water inflow water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental N* sample N SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. **TP37**

Sheet 1 of 1

Client: Walker Corporation Project No. 31495-001
 Project: Buckland Park Logged by: Matt Eygenraam
 Location: E0272367 N6159937 Drilling Date: 1/23/2008

Drill Company: DrillMax Driller: Craig Hole Diameter: -
 Rig/Core: Method: Test pit Hole Depth: 1m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2	Silty CALY LP	Dark Brown/grey Medium grain	D	H	0.05-0.15m	0	
		0.4	Silty CLAY MP	Red Brown Medium Grain	D	F	0.4-0.5m	1.5	
		0.8	Silty CLAY MP	Red Medium Grain	D	F	0.9-1.0m	0.3	
		1	End of Test Pit @ 1m						
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							

Remarks:

method D diatube C casing AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ	hole support C casing F foam M mud W water water water level water inflow water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental N* sample N SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. TP38

Sheet 1 of 1

Client: Walker Corporation Project No. 31495-001
 Project: Buckland Park Logged by: April Freeman
 Location: E0271401 N6160671 Drilling Date: 4/3/2008

Drill Company: DrillMax Driller: Johnny Hole Diameter: -
 Rig/Core: Method: Test pit Hole Depth: 2m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2	Silty CLAY LP Light brown Organic inclusions	D	VSt	0-0.1m			
		0.3	Silty CLAY MP Medium brown	D	VSt	0.2-0.3m			
		0.4	Silty CLAY MP Light brown	D	VSt	0.4-0.5m QC1A			
		0.6	Silty CLAY with some sand FG MP Orange brown	D	F	0.9-1.0m			
		1.8	Silty Sand FG Orange brown	M	S	1.9-2.0m			
		2.0	EOH at 2m						

Remarks:

method D diatube C casing AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ	hole support C casing F foam M mud W water water water level water inflow water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental N* sample N SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. **TP39**




Sheet 1 of 1

Client: Walker Corporation Project No. 31495-001
 Project: Buckland Park Logged by: April Freeman
 Location: E0271395 N6160865 Drilling Date: 4/3/2008

Drill Company: DrillMax Driller: Johnny Hole Diameter: -
 Rig/Core: Method: Test pit Hole Depth: 2m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2	Silty CLAY with sand FG MP Light brown Organic inclusions Tilled	D S	0-0.1m QC2A				
		0.3	Silty CLAY with sand FG, LP Light brown	D St	0.2-0.3m				
		0.4	Silty CLAY with sand FG LP Orange brown	D St	0.4-0.5m				
		0.6							
		0.8							
		1	Silty CLAY HP Orange brown	M VSt	0.9-1.0m				
		1.2							
		1.4							
		1.6							
		1.8	Silty CLAY with sand FG MP Orange brown with some grey mottles	M F	1.9-2.0m				
		2							
		2.2		EOH at 2m					

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ	hole support C casing F foam M mud W water water  water level  water inflow  water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental N* sample N SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. **TP40**




Sheet 1 of 1

Client: Walker Corporation Project No. 31495-001
 Project: Buckland Park Logged by: April Freeman
 Location: E0271120 N6161164 Drilling Date: 4/3/2008

Drill Company: DrillMax Driller: Johnny Hole Diameter: -
 Rig/Core: Method: Test pit Hole Depth: 2m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2	Silty CLAY with sand FG LP Light brown Organic inclusions Tilled	D S	0-0.1m		Had to move TP slightly off grid due to patch of potatoes		
		0.3	Silty CLAY with sand FG, L-MP Light brown	D St	0.2-0.3m QC3A				
		0.4	Silty CLAY with some sand FG MP Orange brown	D St	0.4-0.5m				
		0.7	Silty CLAY with sand MG MP Orange brown	M F	0.9-1.0m				
		1.8	Silty CLAY with sand MG L-MP Light orange brown with grey mottles Some gravel inclusions, 1-20mm, angular	M F	1.9-2.0m				
		2	EOH at 2m						
		2.2							

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ	hole support C casing F foam M mud W water water  water level  water inflow  water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental N* sample N SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. TP41




Sheet 1 of 1

Client: Walker Corporation Project No. 31495-001
 Project: Buckland Park Logged by: April Freeman
 Location: E0271270 N6160835 Drilling Date: 4/3/2008

Drill Company: DrillMax Driller: Johnny Hole Diameter: -
 Rig/Core: Method: Test pit Hole Depth: 2m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2	Silty CLAY with sand FG LP Light brown Organic inclusions	D S	0-0.1m				
		0.3	Silty CLAY with sand FG, L-MP Light brown	D St	0.2-0.3m				
		0.4	Silty CLAY M-HP Orange brown Minor gravel inclusions, 1-20mm, angular	M St	0.4-0.5m				
		0.6							
		0.8							
		1	Clayey SAND MG Orange brown	M S	0.9-1.0m				
		1.2							
		1.4							
		1.6							
		1.7							
		1.8	Silty SAND MG Orange brown	M S	1.9-2.0m				
		2							
		2.2		EOH at 2m					

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ	hole support C casing F foam M mud W water water  water level  water inflow  water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental N* sample N SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. **TP42**




Sheet 1 of 1

Client: Walker Corporation Project No. 31495-001
 Project: Buckland Park Logged by: April Freeman
 Location: E0271276 N6160662 Drilling Date: 4/3/2008

Drill Company: DrillMax Driller: Johnny Hole Diameter: -
 Rig/Core: Method: Test pit Hole Depth: 2m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2	Silty CLAY MP Medium brown Some organic inclusions Tilled	D	F	0-0.1m			
		0.4	Silty CLAY LP Medium brown	D	St	0.2-0.3m			
		0.6	Silty CLAY M-HP Light brown	M	St	0.4-0.5m			
		0.8	Silty CLAY with some sand MG MP Medium brown	M	St	0.9-1.0m QC4A			
		2.0	Silty CLAY with sand FG MP Orange brown	M	S	1.9-2.0m			
		2.2	EOH at 2m						

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ	hole support C casing F foam M mud W water water  water level  water inflow  water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental N* sample N SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. **TP43**




Sheet 1 of 1

Client: Walker Corporation Project No. 31495-001
 Project: Buckland Park Logged by: April Freeman
 Location: E0270885 N6160905 Drilling Date: 4/3/2008

Drill Company: DrillMax Driller: Johnny Hole Diameter: -
 Rig/Core: Method: Test pit Hole Depth: 2m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2	Silty CLAY with sand MG LP Light brown	D S	0-0.1m				
		0.3	Silty CLAY with sand MG, LP Light brown	D F	0.2-0.3m				
		0.4	Clayey SAND with silt MG Orange brown	D F	0.4-0.5m				
		0.8	Silty CLAY with some sand FG MP	M F	0.9-1.0m				
		1.8	Silty CLAY with sand MG MP Red brown	M F	1.9-2.0m QC5A				
		2	EOH at 2m						
		2.2							

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ	hole support C casing F foam M mud W water water  water level  water inflow  water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental N* sample N SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. TP44




Sheet 1 of 1

Client: Walker Corporation Project No. 31495-001
 Project: Buckland Park Logged by: April Freeman
 Location: E0270885 N6160710 Drilling Date: 4/3/2008

Drill Company: DrillMax Driller: Johnny Hole Diameter: -
 Rig/Core: Method: Test pit Hole Depth: 2m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2	Silty CLAY with sand FG LP Light brown Organic inclusions	D S	0-0.1m QC6A				
		0.4	Silty CLAY with sand FG LP Light brown	D St	0.2-0.3m				
		0.6	Silty CLAY with sand FG LP Orange brown	D St	0.4-0.5m				
		0.8	Silty CLAY MP Orange brown	M F	0.9-1.0m				
		1.8	Sandy CLAY with silt LP MG Red brown with light brown mottles		1.9-2.0m				
		2.0	EOH at 2m						
		2.2							

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ	hole support C casing F foam M mud W water water  water level  water inflow  water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental N* sample N SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. TP45




Sheet 1 of 1

Client: Walker Corporation Project No. 31495-001
 Project: Buckland Park Logged by: April Freeman
 Location: E0270677 N6160959 Drilling Date: 4/3/2008

Drill Company: DrillMax Driller: Johnny Hole Diameter: -
 Rig/Core: Method: Test pit Hole Depth: 2m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	Encountered water at ~0.6m	0.2	Silty CLAY with some sand MG, MP Light brown	D VS	0-0.1m		TP located in dried up dam/end of drain		
		0.3	Silty CLAY with sand MG, MP Red brown	D F	0.2-0.3m QC7A				
		0.4	Silty CLAY with sand FG MP Red brown	M S	0.4-0.5m				
		0.6							
		0.8							
		1	Silty CLAY with some sand MP FG Some gravel inclusions, 2-15mm, angular Light orange brown with some grey mottles	W S	0.9-1.0m				
		1.2							
		1.4							
		1.6							
		1.7	Sandy CLAY with silt MP MG Orange brown with some grey mottles	W S	1.9-2.0m				
		1.8							
		2							
		2.2		EOH at 2m					

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ coring	hole support C casing F foam M mud W water water  water level  water inflow  water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental N* sample N SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. TP46




Sheet 1 of 1

Client: Walker Corporation Project No. 31495-001
 Project: Buckland Park Logged by: April Freeman
 Location: E0271401 N6161076 Drilling Date: 4/3/2008

Drill Company: DrillMax Driller: Johnny Hole Diameter: -
 Rig/Core: Method: Test pit Hole Depth: 2m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2	Silty CLAY with sand MG LP Light brown Organic inclusions	D S	0-0.1m				
		0.4	Silty CLAY with some sand FG LP Medium-dark brown	D VSt	0.2-0.3m				
		0.6	Silty CLAY with some sand FG LP Orange brown with some limestone inclusions ~5%	D VSt	0.4-0.5m				
		0.8	Silty CLAY MP Orange brown Minor gravel inclusions, 2-10mm, angular	M St	0.9-1.0m				
		1.8	Silty CLAY with some sand MG MP Orange brown	M F	1.9-2.0m				
		2	EOH at 2m						
		2.2							

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ	hole support C casing F foam M mud W water water  water level  water inflow  water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental N* sample N SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. **TP47**




Sheet 1 of 1

Client: Walker Corporation Project No. 31495-001
 Project: Buckland Park Logged by: April Freeman
 Location: E0271411 N6161267 Drilling Date: 4/3/2008

Drill Company: DrillMax Driller: Johnny Hole Diameter: -
 Rig/Core: Method: Test pit Hole Depth: 2m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2	Silty CLAY with sand FG LP Light brown Organic inclusions Tilled	D S	0-0.1m QC8A		TP located in an old market garden		
		0.4	Silty CLAY with sand FG LP Medium brown	D F	0.2-0.3m				
		0.6	Silty CLAY with some sand FG LP Orange brown with some limestone inclusions ~5%	D St	0.4-0.5m				
		0.8	Clayey SAND MG Orange brown Minor gravel inclusions, 1-20mm, angular	M S	0.9-1.0m				
		2.0	Silty CLAY with sand FG LP Orange brown	M S	1.9-2.0m				
		2.2	EOH at 2m						

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ	hole support C casing F foam M mud W water water  water level  water inflow  water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental N* sample N SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. TP48




Sheet 1 of 1

Client: Walker Corporation Project No. 31495-001
 Project: Buckland Park Logged by: April Freeman
 Location: E0271371 N6161320 Drilling Date: 4/3/2008

Drill Company: DrillMax Driller: Johnny Hole Diameter: -
 Rig/Core: Method: Test pit Hole Depth: 2m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2	Silty CLAY with sand FG LP Light brown Tilled	D S	0-0.1m		TP located outside a greenhouse currently in use		
		0.4	Silty CLAY with sand FG LP Light brown	D F	0.2-0.3m QC9A				
		0.6	Silty CLAY HP Red brown	D VSt	0.4-0.5m				
		0.8	Silty CLAY with sand MG MP Red brown	M F	0.9-1.0m				
		2.0	Silty CLAY with sand FG MP Red brown with some orange mottles	M F	1.9-2.0m				
		2.2	EOH at 2m						

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ	hole support C casing F foam M mud W water water  water level  water inflow  water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental N* sample N SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. TP49




Sheet 1 of 1

Client: Walker Corporation Project No. 31495-001
 Project: Buckland Park Logged by: April Freeman
 Location: E0271263 N6161276 Drilling Date: 4/7/2008

Drill Company: DrillMax Driller: Johnny Hole Diameter: -
 Rig/Core: Method: Test pit Hole Depth: 2m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2	Silty CLAY with sand LP FG Light brown Organic inclusions	D S	0-0.1m		TP located adjacent to rubbish stockpiles		
		0.4	Silty CLAY with sand FG LP Medium brown	D F	0.2-0.3m				
		0.6	Silty CLAY MP Orange brown	D VSt	0.4-0.5m				
		0.7	Silty CLAY MP Orange brown	M F	0.9-1.0m				
		1.8	Clayey SAND MG Red brown	M VS	1.9-2.0m				
		2	EOH at 2m						
		2.2	SP1: E0271266 N6161285, Soil stockpile combined with rubbish, Sandy CLAY, LP, Light brown, D, VS SP2: E0271245 N6161273, Soil stockpile combined with rubbish, Sandy CLAY, LP, Light brown, D, VS						

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ	hole support C casing F foam M mud W water water  water level  water inflow  water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental N* sample N SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. **TP50**




Sheet 1 of 1

Client: Walker Corporation Project No. 31495-001
 Project: Buckland Park Logged by: April Freeman
 Location: E0271544 N6161398 Drilling Date: 4/7/2008

Drill Company: DrillMax Driller: Johnny Hole Diameter: -
 Rig/Core: Method: Test pit Hole Depth: 2m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2	Silty CLAY with sand MG LP Light brown Tilled	D VS	0-0.1m QC10A		TP located at edge of greenhouse		
		0.3	Silty CLAY MP Orange brown	D F	0.2-0.3m				
		0.4	Silty CLAY MP Orange brown	M St	0.4-0.5m				
		0.6							
		0.8							
		1	Silty CLAY with sand MG LP Orange brown	M S	0.9-1.0m				
		1.2							
		1.4							
		1.6							
		1.8							
		2	Silty CLAY HP Orange brown	M St	1.9-2.0m				
		2.2	EOH at 2m						

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ coring	hole support C casing F foam M mud W water water  water level  water inflow  water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental N* sample N SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. **TP51**




Sheet 1 of 1

Client: Walker Corporation Project No. 31495-001
 Project: Buckland Park Logged by: April Freeman
 Location: E0271652 N6161330 Drilling Date: 4/7/2008

Drill Company: DrillMax Driller: Johnny Hole Diameter: -
 Rig/Core: Method: Test pit Hole Depth: 2m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2	Silty CLAY with sand MG LP Light brown Organic inclusions	D VS	0-0.1m				
		0.4	Silty CLAY MP Medium brown	D St	0.2-0.3m QC11A				
		0.6	Silty CLAY with sand FG LP Orange brown Minor limestone inclusions ~10%	D VSt	0.4-0.5m				
		0.8	Silty CLAY MP Orange brown	D St	0.9-1.0m				
		1.8	Silty CLAY with sand FG MP Red brown	M F	1.9-2.0m				
		2	EOH at 2m						
		2.2							

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ	hole support C casing F foam M mud W water water  water level  water inflow  water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental N* sample N SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. **TP52**




Sheet 1 of 1

Client: Walker Corporation Project No. 31495-001
 Project: Buckland Park Logged by: April Freeman
 Location: E0271653 N6161141 Drilling Date: 4/7/2008

Drill Company: DrillMax Driller: Johnny Hole Diameter: -
 Rig/Core: Method: Test pit Hole Depth: 2m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2	Silty CLAY with sand MG LP Medium brown Organic inclusions	D S	0-0.1m				
		0.4	Silty CLAY with sand MG MP Medium brown	D F	0.2-0.3m				
		0.6	Silty CLAY with sand MG LP Orange brown Minor gravel inclusions ~10mm, angular	D St	0.4-0.5m QC12A				
		0.8	Silty CLAY with sand MG LP Orange brown Gravel inclusions, 1-15mm, angular	D F	0.9-1.0m				
		1.8	Silty CLAY with sand MG MP Orange brown Minor gravel inclusions 1-10mm, angular	M S	1.9-2.0m				
		2	EOH at 2m						
		2.2							

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ	hole support C casing F foam M mud W water water  water level  water inflow  water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental N* sample N SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. **TP53**




Sheet 1 of 1

Client: Walker Corporation Project No. 31495-001
 Project: Buckland Park Logged by: April Freeman
 Location: E0271647 N6160923 Drilling Date: 4/7/2008

Drill Company: DrillMax Driller: Johnny Hole Diameter: -
 Rig/Core: Method: Test pit Hole Depth: 2m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2	Silty CLAY MP Light grey brown Organic inclusions	D	VSt	0-0.1m			
		0.4	Silty CLAY MP Dark brown	D	VSt	0.2-0.3m			
		0.6	Silty CLAY M-HP Orange brown	M	St	0.4-0.5m			
		0.8	Silty CLAY L-MP Orange brown Gravel inclusions, 1-20mm, angular	M	F	0.9-1.0m			
		1.0	Silty CLAY HP Medium brown with orange and grey mottles	M	St	1.9-2.0m			
		2.0	EOH at 2m						
		2.2							

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ coring	hole support C casing F foam M mud W water water  water level  water inflow  water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental N* sample N SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. **TP54**

Sheet 1 of 1

Client: Walker Corporation Project No. 31495-001
 Project: Buckland Park Logged by: April Freeman
 Location: E0271674 N6160709 Drilling Date: 4/7/2008

Drill Company: DrillMax Driller: Johnny Hole Diameter: -
 Rig/Core: Method: Test pit Hole Depth: 2m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2	Silty CLAY LP	Light grey brown Organic inclusions	D	VSt	0-0.1m		
		0.4	Silty CLAY M-HP	Dark grey brown	D	F	0.2-0.3m		
		0.6	Silty CLAY MP	Medium brown	M	F	0.4-0.5m		
		0.8					0.9-1.0m		
1.2	Sandy CLAY MG LP	Red brown	M	S	1.9-2.0m				
1.4	EOH at 2m								
1.6									
1.8									
2.0									
2.2									

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ	hole support C casing F foam M mud W water water water level water inflow water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental N* sample N SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. **TP55**




Sheet 1 of 1

Client: Walker Corporation Project No. 31495-001
 Project: Buckland Park Logged by: April Freeman
 Location: E0271935 N6160812 Drilling Date: 4/7/2008

Drill Company: DrillMax Driller: Johnny Hole Diameter: -
 Rig/Core: Method: Test pit Hole Depth: 2m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2	Silty CLAY with sand FG LP Light grey brown Organic inclusions	D St	0-0.1m				
		0.4	Silty CLAY MP Dark brown	D St	0.2-0.3m				
		0.6	Clayey SAND MG Orange brown	M S	0.4-0.5m				
		0.8	Silty CLAY with some sand FG MP Red brown with light brown and grey mottles	M S	0.9-1.0m				
		2.0	Silty CLAY MP Red brown with light brown mottles Minor gravel inclusions 1-10mm, angular	M S	1.9-2.0m QC14A				
		2.2	EOH at 2m						

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ	hole support C casing F foam M mud W water water  water level  water inflow  water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental N* sample N SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. **TP56**




Sheet 1 of 1

Client: Walker Corporation Project No. 31495-001
 Project: Buckland Park Logged by: April Freeman
 Location: E0271930 N6161045 Drilling Date: 4/7/2008

Drill Company: DrillMax Driller: Johnny Hole Diameter: -
 Rig/Core: Method: Test pit Hole Depth: 2m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2	Silty CLAY with sand MG LP Light brown	D VS	0-0.1m				
		0.4	Silty CLAY with sand FG LP Medium-dark brown	D St	0.2-0.3m				
		0.6	Silty CLAY with sand FG MP Orange brown	M F	0.4-0.5m				
		0.8	Silty CLAY MP Orange brown Some gravel inclusions, 1-10mm, angular	M F	0.9-1.0m				
		2.0	Silty CLAY MP Orange brown with light brown mottles	M F	1.9-2.0m				
		2.2	EOH at 2m						

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ	hole support C casing F foam M mud W water water  water level  water inflow  water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental N* sample N SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. **TP57**




Sheet 1 of 1

Client: Walker Corporation Project No. 31495-001
 Project: Buckland Park Logged by: April Freeman
 Location: E0271680 N6161426 Drilling Date: 4/7/2008

Drill Company: DrillMax Driller: Johnny Hole Diameter: -
 Rig/Core: Method: Test pit Hole Depth: 2m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2	Silty CLAY with sand MG LP Light brown Organic inclusions	D VS	0-0.1m QC15A				
		0.4	Silty CLAY with sand MG LP Medium brown	D F	0.2-0.3m				
		0.6	Silty CLAY with some sand FG MP Red brown with light orange mottles	D VSt	0.4-0.5m				
		0.8	Silty CLAY with sand MG MP Orange brown	M S	0.9-1.0m				
		2.0	Clayey SAND MG Light orange brown	M S	1.9-2.0m				
		2.2	EOH at 2m SP3: E0271704 N6161320, Stockpiled soil, Sandy CLAY, MG, LP, orange brown						

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ	hole support C casing F foam M mud W water water  water level  water inflow  water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental N* sample N SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. **TP58**




Sheet 1 of 1

Client: Walker Corporation Project No. 31495-001
 Project: Buckland Park Logged by: April Freeman
 Location: E0271866 N6161473 Drilling Date: 4/7/2008

Drill Company: DrillMax Driller: Johnny Hole Diameter: -
 Rig/Core: Method: Test pit Hole Depth: 2m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2	Silty CLAY with sand MG LP Medium brown Organic inclusions	D S	0-0.1m				
		0.4	Silty CLAY with sand MG LP Medium brown	D VSt	0.2-0.3m QC16A				
		0.6	Silty CLAY MP Orange brown	M F	0.4-0.5m				
		0.8	Silty CLAY with some sand FG MP Orange brown	M S	0.9-1.0m				
		1.2							
		1.4							
		1.8	Clayey SAND MG Orange brown	M VS	1.9-2.0m				
		2.0	EOH at 2m						
		2.2							

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ	hole support C casing F foam M mud W water water  water level  water inflow  water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental N* sample N SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. **TP59**




Sheet 1 of 1

Client: Walker Corporation Project No. 31495-001
 Project: Buckland Park Logged by: April Freeman
 Location: E0272299 N6161517 Drilling Date: 4/7/2008

Drill Company: DrillMax Driller: Johnny Hole Diameter: -
 Rig/Core: Method: Test pit Hole Depth: 2m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2	Silty CLAY with sand FG LP Light brown Organic inclusions	D St	0-0.1m				
		0.4	Silty CLAY LP Dark brown	D VSt	0.2-0.3m				
		0.6	Silty CLAY MP Orange brown	M F	0.4-0.5m				
		0.8	Silty CLAY with sand LP MG Orange brown	M S	0.9-1.0m				
		2.0	Silty CLAY with sand MG MP Orange brown with light brown mottles Minor gravel inclusions, 1-15mm, angular	M F	1.9-2.0m	10.1			
		2.2	EOH at 2m						

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ	hole support C casing F foam M mud W water water  water level  water inflow  water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental N* sample N SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. **TP60**

Sheet 1 of 1

Client: Walker Corporation Project No. 31495-001
 Project: Buckland Park Logged by: April Freeman
 Location: E0272574 N6160691 Drilling Date: 4/8/2008

Drill Company: DrillMax Driller: Johnny Hole Diameter: -
 Rig/Core: Method: Test pit Hole Depth: 2m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2	Silty CLAY LP	Medium brown Organic inclusions	D	S	0-0.1m QC17A		
		0.4	Silty CLAY LP	Dark brown	D	VSt	0.2-0.3m		
		0.6	Silty CLAY M-HP	Medium brown	M	St	0.4-0.5m		
		0.8	Silty CLAY M-HP	Medium brown	M	St	0.9-1.0m		
		1.0							
		1.8	Clayey SAND MG	Orange brown	M	S	1.9-2.0m		
		2.0	EOH at 2m						
		2.2							

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ	hole support C casing F foam M mud W water water water level water inflow water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental N* sample N SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. TP61




Sheet 1 of 1

Client: Walker Corporation Project No. 31495-001
 Project: Buckland Park Logged by: April Freeman
 Location: E0272653 N6160415 Drilling Date: 4/8/2008

Drill Company: DrillMax Driller: Johnny Hole Diameter: -
 Rig/Core: Method: Test pit Hole Depth: 2m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2	Silty CLAY MP Medium brown Minor gravel inclusions ~1mm	D S	0-0.1m				
		0.4	Silty CLAY with sand FG M-HP Medium brown	D F	0.2-0.3m QC18A				
		0.6	Silty CLAY M-HP Medium brown with orange and grey mottles	M St	0.4-0.5m				
		0.8	Silty CLAY with sand FG MP Light brown with orange and grey mottles	M St	0.9-1.0m				
		1.8	Silty CLAY M-HP Light brown with orange and grey mottles	M St	1.9-2.0m				
		2	EOH at 2m						
		2.2							

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ coring	hole support C casing F foam M mud W water water  water level  water inflow  water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental N* sample N SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. **TP62**




Sheet 1 of 1

Client: Walker Corporation Project No. 31495-001
 Project: Buckland Park Logged by: April Freeman
 Location: E0272392 N6159600 Drilling Date: 4/8/2008

Drill Company: DrillMax Driller: Johnny Hole Diameter: -
 Rig/Core: Method: Test pit Hole Depth: 2m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2	Silty CLAY with sand MG LP Light brown Organic inclusions	D S	0-0.1m				
		0.4	Silty CLAY MP Medium-dark brown	D St	0.2-0.3m				
		0.6	Silty CLAY with sand MG LP Orange brown Gravel inclusions, 1-15mm, angular	M F	0.4-0.5m				
		0.8							0.9-1.0m
		1.0							
1.2									
1.4									
1.6									
1.7									
1.8			Silty CLAY with sand MG L-MP Orange brown Minor gravel inclusions 1-10mm, angular	M F	1.9-2.0m				
2.0			EOH at 2m						
2.2									

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ	hole support C casing F foam M mud W water water  water level  water inflow  water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental N* sample N SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. **TP63**




Sheet 1 of 1

Client: Walker Corporation	Project No. 31495-001
Project: Buckland Park	Logged by: April Freeman
Location: E0272046 N6159382	Drilling Date: 4/8/2008

Drill Company: DrillMax	Driller: Johnny	Hole Diameter: -
Rig/Core:	Method: Test pit	Hole Depth: 2m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2	Silty CLAY with sand MG LP Light brown		D	VS	0-0.1m		
		0.4	Silty CLAY with sand MG LP Light brown Minor gravel inclusions, 1-10mm, angular		D	St	0.2-0.3m		
		0.6	Silty CLAY with some sand FG MP Medium brown with orange and grey mottles		M	F	0.4-0.5m QC19A		
		0.8		0.9-1.0m					
		1.0							
1.2									
1.4									
1.6									
1.7									
1.8									
2.0									
2.2				EOH at 2m					

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ coring	hole support C casing F foam M mud W water water  water level  water inflow  water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental N* sample N SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. **TP64**




Sheet 1 of 1

Client: Walker Corporation Project No. 31495-001
 Project: Buckland Park Logged by: April Freeman
 Location: E0272494 N6159811 Drilling Date: 4/8/2008

Drill Company: DrillMax Driller: Johnny Hole Diameter: -
 Rig/Core: Method: Test pit Hole Depth: 2m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2	Silty CLAY MP	Dark brown	M	St	0-0.1m		TP located at edge of creek bed
		0.4	Silty CLAY M-HP	Medium brown	M	St	0.2-0.3m		
		0.8	Silty CLAY MP	Grey brown with orange mottles	M-W	St	0.4-0.5m		
		1.8	Silty CLAY MP	Dark grey	W	S	0.9-1.0m QC20A		
		2	EOH at 2m						
		2.2							

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ	hole support C casing F foam M mud W water water  water level  water inflow  water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental N* sample N SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. TP65




Sheet 1 of 1

Client: Walker Corporation	Project No. 31495-001
Project: Buckland Park	Logged by: April Freeman
Location: E0272154 N6161009	Drilling Date: 4/8/2008

Drill Company: DrillMax	Driller: Johnny	Hole Diameter: -
Rig/Core:	Method: Test pit	Hole Depth: 2m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2	Silty CLAY MP Light brown Organic inclusions	D St	0-0.1m				
		0.4	Silty CLAY with some sand FG LP Dark brown	D VSt	0.2-0.3m				
		0.6	Silty CLAY with sand FG MP Medium orange brown	M F	0.4-0.5m				
		0.8	Silty CLAY with sand FG MP Orange brown	M F	0.9-1.0m				
		2.0	EOH at 2m						

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ	hole support C casing F foam M mud W water water  water level  water inflow  water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental N* sample N SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. TP66




Sheet 1 of 1

Client: Walker Corporation Project No. 31495-001
 Project: Buckland Park Logged by: April Freeman
 Location: E0272412 N6161477 Drilling Date: 4/8/2008

Drill Company: DrillMax Driller: Johnny Hole Diameter: -
 Rig/Core: Method: Test pit Hole Depth: 2m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2	Silty CLAY with sand MG LP Light brown Organic inclusions	D VSt	0-0.1m QC21A				
		0.4	Silty CLAY MP Dark brown	D St	0.2-0.3m				
		0.6	Silty CLAY MP Orange brown	M F	0.4-0.5m				
		0.8							0.9-1.0m
1.2									
1.4									
1.6									
1.8									
2.0			Silty CLAY with sand MG LP Red brown with light brown mottles	M S	1.9-2.0m				
2.2			EOH at 2m						

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ	hole support C casing F foam M mud W water water  water level  water inflow  water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental N* sample N SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. **TP67**




Sheet 1 of 1

Client: Walker Corporation Project No. 31495-001
 Project: Buckland Park Logged by: April Freeman
 Location: E0273207 N6162138 Drilling Date: 4/8/2008

Drill Company: DrillMax Driller: Johnny Hole Diameter: -
 Rig/Core: Method: Test pit Hole Depth: 2m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2	Silty CLAY LP Medium brown Organic inclusions	D St	0-0.1m				
		0.4	Silty CLAY LP Medium brown	D VSt	0.2-0.3m				
		0.6	Silty CLAY with sand MG LP Light orange brown Minor limestone inclusions ~5%	D VSt	0.4-0.5m				
		0.8	Silty CLAY with sand MG LP Light orange brown Minor limestone inclusions~10% Minor gravel inclusions 1-5mm, angular	D VSt	0.9-1.0m				
		2	EOH at 2m						

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ	hole support C casing F foam M mud W water water  water level  water inflow  water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental N* sample N SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. **TP68**




Sheet 1 of 1

Client: Walker Corporation Project No. 31495-001
 Project: Buckland Park Logged by: April Freeman
 Location: E0273424 N6161932 Drilling Date: 4/8/2008

Drill Company: DrillMax Driller: Johnny Hole Diameter: -
 Rig/Core: Method: Test pit Hole Depth: 2m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2	Clayey SAND MG Orange brown	D VS	0-0.1m				
		0.4	Clayey SAND MG Medium brown	D F	0.2-0.3m QC22A				
		0.6	Gravelly CLAY LP 1-20mm, angular Orange brown Limestone inclusions ~10%	D VSt	0.4-0.5m				
		0.8	Silty CLAY with gravel LP 1-15mm, angular Limestone inclusions ~10%	D VSt	0.9-1.0m				
		2.0	Silty CLAY with sand MG MP Orange brown Gravel inclusions 1-5mm, angular	M F	1.9-2.0m				
		2.2	EOH at 2m						

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ	hole support C casing F foam M mud W water water  water level  water inflow  water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental N* sample N SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. **TP69**




Sheet 1 of 1

Client: Walker Corporation Project No. 31495-001
 Project: Buckland Park Logged by: April Freeman
 Location: E0274093 N6162582 Drilling Date: 4/9/2008

Drill Company: DrillMax Driller: Johnny Hole Diameter: -
 Rig/Core: Method: Test pit Hole Depth: 2m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2	Silty CLAY with sand MG LP Orange brown Minor gravel inclusions, 1-10mm, angular Organic inclusions	D S	0-0.1m				
		0.4	Silty CLAY with sand MG L-MP Red brown	D St	0.2-0.3m				
		0.6	Silty CLAY with sand MG L-MP Orange brown Limestone inclusions ~10% Minor gravel inclusions, 1-10mm, angular	D St	0.4-0.5m				
		0.8	Silty CLAY with some sand FG MP Orange brown Gravel inclusions, 1-10mm, angular	M St	0.9-1.0m				
		2	EOH at 2m						
		2.2							

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ	hole support C casing F foam M mud W water water  water level  water inflow  water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental N* sample N SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. **TP70**

Sheet 1 of 1

Client: Walker Corporation Project No. 31495-001
 Project: Buckland Park Logged by: April Freeman
 Location: E0274340 N6162630 Drilling Date: 4/9/2008

Drill Company: DrillMax Driller: Johnny Hole Diameter: -
 Rig/Core: Method: Test pit Hole Depth: 2m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2	Silty CLAY with sand FG L-MP Light brown	D S	0-0.1m				
		0.4	Silty CLAY with sand FG L-MP Red brown	D St	0.2-0.3m				
		0.6	Silty CLAY with sand MG MP Orange brown Limestone inclusions ~10% Gravel inclusions 1-10mm, angular	D St	0.4-0.5m				
		0.8	Silty CLAY MP Orange brown Limestone inclusions ~5% Some gravel inclusions 1-10mm, angular	M St	0.9-1.0m				
		2	EOH at 2m						
		2.2							

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ	hole support C casing F foam M mud W water water water level water inflow water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental N* sample N SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. TP71




Sheet 1 of 1

Client: Walker Corporation Project No. 31495-001
 Project: Buckland Park Logged by: April Freeman
 Location: E0274487 N6162167 Drilling Date: 4/9/2008

Drill Company: DrillMax Driller: Johnny Hole Diameter: -
 Rig/Core: Method: Test pit Hole Depth: 2m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2	Silty CLAY with sand MG L-MP Medium brown Organic inclusions	M S	0-0.1m QC23A				
		0.4	Silty CLAY with sand MG L-MP Medium brown	M S	0.2-0.3m				
		0.6							
		0.8	Silty CLAY with sand MG MP Orange brown Minor gravel inclusions, 1-5mm, angular	M F	0.4-0.5m				
		1.0							
		1.2							
		1.4							
		1.6							
		1.8							
		2.0	Silty CLAY with sand MG MP Light orange brown Gravel inclusions 1-50mm, angular	M St	0.9-1.0m				
		2.2	EOH at 2m						

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ	hole support C casing F foam M mud W water water  water level  water inflow  water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental N* sample N SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. **TP72**

Sheet 1 of 1

Client: Walker Corporation	Project No. 31495-001
Project: Buckland Park	Logged by: April Freeman
Location: E0274679 N6162672	Drilling Date: 4/9/2008

Drill Company: DrillMax	Driller: Johnny	Hole Diameter: -
Rig/Core:	Method: Test pit	Hole Depth: 2m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2	Silty CLAY with some sand MG MP Medium brown Organic inclusions	D	F	0-0.1m			
		0.4	Silty CLAY with sand MG MP Orange brown with some medium brown mottles Some gravel inclusions, 1-10mm, angular	M	F	0.2-0.3m			
		0.6	Silty CLAY with sand MG LP Orange brown Limestone inclusions ~10% Gravel inclusions 1-10mm, angular	M	St	0.4-0.5m QC24A			
		1.0	Silty CLAY with sand MG MP Orange brown Limestone inclusions ~5% Gravel inclusions 1-20mm, angular	M	St	0.9-1.0m			
		2.0	EOH at 2m					1.9-2.0m	

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ	hole support C casing F foam M mud W water water water level water inflow water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental N* sample N SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. **TP73**




Sheet 1 of 1

Client: Walker Corporation	Project No. 31495-001
Project: Buckland Park	Logged by: April Freeman
Location: E0272954 N6161995	Drilling Date: 4/9/2008

Drill Company: DrillMax	Driller: Johnny	Hole Diameter: -
Rig/Core:	Method: Test pit	Hole Depth: 2m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2	Silty CLAY with sand MG MP Medium brown Organic inclusions	D	F	0-0.1m			
		0.3	Silty CLAY with sand MG, L-MP Dark brown	D	St	0.2-0.3m			
		0.4	Silty CLAY with sand MG L-MP Light orange brown Limestone inclusions ~15% Gravel inclusions, 1-10mm, angular	D	St	0.4-0.5m			
		0.6							
		0.8							
		1	Silty CLAY with sand MG MP Orange brown with light brown mottles Minor gravel inclusions, 1-10mm, angular	M	St	0.9-1.0m			
		1.2							
		1.4							
		1.6							
		1.8							
		2				1.9-2.0m			
		2.2		EOH at 2m					

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ	hole support C casing F foam M mud W water water  water level  water inflow  water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental N* sample N SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. **TP74**




Sheet 1 of 1

Client: Walker Corporation Project No. 31495-001
 Project: Buckland Park Logged by: April Freeman
 Location: E0273050 N6161822 Drilling Date: 4/9/2008

Drill Company: DrillMax Driller: Johnny Hole Diameter: -
 Rig/Core: Method: Test pit Hole Depth: 2m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2	Silty CLAY with sand MG LP Medium brown Organic inclusions	D S	0-0.1m QC25A				
		0.4	Silty CLAY with sand MG, L-MP Dark brown	D VSt	0.2-0.3m				
		0.6	Silty CLAY with sand MG MP Orange brown Limestone inclusions ~10% Gravel inclusions, 1-10mm, angular	D VSt	0.4-0.5m				
		0.8	Silty CLAY MP Orange brown Gravel inclusions 1-10mm, angular Limestone inclusions ~5%	M St	0.9-1.0m				
		2.0	Silty CLAY with sand MG MP Orange brown Gravel inclusions, 1-10mm, angular Limestone inclusions ~10%	M St	1.9-2.0m				
		2.2	EOH at 2m						

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ	hole support C casing F foam M mud W water water  water level  water inflow  water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental N* sample N SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. **TP75**




Sheet 1 of 1

Client: Walker Corporation Project No. 31495-001
 Project: Buckland Park Logged by: April Freeman
 Location: E0274006 N6163512 Drilling Date: 4/9/2008

Drill Company: DrillMax Driller: Johnny Hole Diameter: -
 Rig/Core: Method: Test pit Hole Depth: 2m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2	Silty CLAY with sand FG MP Medium brown	D S	0-0.1m				
		0.3	Silty CLAY with sand FG, MP Medium brown	D VSt	0.2-0.3m				
		0.4	Silty CLAY MP Red brown	D St	0.4-0.5m				
		0.6							
		0.8	Silty CLAY MP Orange brown	D VSt	0.9-1.0m				
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2					1.9-2.0m		
		2.2		EOH at 2m					

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ	hole support C casing F foam M mud W water water  water level  water inflow  water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental N* sample N SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. TP76




Sheet 1 of 1

Client: Walker Corporation	Project No. 31495-001
Project: Buckland Park	Logged by: April Freeman
Location: E0273826 N6162907	Drilling Date: 4/9/2008

Drill Company: DrillMax	Driller: Johnny	Hole Diameter: -
Rig/Core:	Method: Test pit	Hole Depth: 2m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2	Silty CLAY with sand MG LP Light brown	D VSt	0-0.1m QC26A		TP located in old watermelon field		
		0.4	Silty CLAY with sand MG LP Light brown	D F	0.2-0.3m				
		0.6	Silty CLAY with sand FG L-MP Red brown	M F	0.4-0.5m				
		0.8	Silty CLAY MP Red brown	M F	0.9-1.0m				
		1.8	Silty CLAY with sand MG MP Orange brown Limestone inclusions ~10% Gravel inclusions, 1-10mm, angular	M St	1.9-2.0m				
		2	EOH at 2m						
		2.2							

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ coring	hole support C casing F foam M mud W water water  water level  water inflow  water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental N* sample N SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Environmental Soil Log

Sample No. **TP77**




Sheet 1 of 1

Client: Walker Corporation Project No. 31495-001
 Project: Buckland Park Logged by: April Freeman
 Location: E0274341 N6162867 Drilling Date: 4/9/2008

Drill Company: DrillMax Driller: Johnny Hole Diameter: -
 Rig/Core: Method: Test pit Hole Depth: 2m

Method	Water	Depth (m)	Classification	Description of Soil (soil type: plasticity / grainsize, colour, other components)	moisture condition	consist. density	Samples	PID Readings (ppm)	Additional Comments
Test pit	None encountered	0.2	Silty CLAY with sand MG LP Light brown Organic inclusions	D VS	0-0.1m				
		0.4	Silty CLAY MP Dark red brown	D St	0.2-0.3m				
		0.6	Silty CLAY MP Red brown Limestone inclusions ~10%	D St	0.4-0.5m				
		0.8							
		1.0			0.9-1.0m QC27A				
1.2									
1.4									
1.6									
1.7									
1.8			Silty CLAY MP Red brown Limestone inclusions ~10% Minor gravel inclusions 1-5mm, angular	D VSt	1.9-2.0m				
2.0			EOH at 2m						
2.2									

Remarks:

method D diatube AV auger drilling V-Bit AT auger drilling TC-Bit W washbore B blade claw/tricone/roller H hand auger C cable tool P percussion NQ, NMLC diamond coring HQ, PQ coring	hole support C casing F foam M mud W water water  water level  water inflow  water loss (%)	plasticity LP low plasticity MP medium plasticity HP high plasticity grainsize F fine M medium C coarse	colour B black W white G grey R red Br brown O orange Y yellow Gr green Bl blue P pale D dark M mottle	moisture D dry M moist W wet <PL less than plastic limit ~PL approx. at plastic limit >PL greater than plastic limit	consistency/density cohesive VS very soft S soft F firm St stiff VSt very stiff H hard pp<25kPa 25>pp<50kPa 50>pp<100kPa 100>pp<200kPa 200>pp<400kPa pp>400kPa	non-cohesive VL very loose L loose MD med. dense D dense VD very dense	samples & tests B Bulk sample D Disturbed sample E Environmental N* sample N SPT blow with sample PP SPT blow without sample VS sample U50, Pocket U75 penetrometer Vane shear
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Appendix C

Laboratory Analysis Certificates - Soil

Appendix C

Accredited for compliance with ISO/IEC 17025. The results of tests, calibrations and/or measurements included in this document are traceable to Australian/national standards. NATA is a signatory to the APLAC mutual recognition arrangement for the mutual recognition of the equivalence of testing, calibration and inspection reports.

Quarantine Approved Premises criteria 5.1 for quarantine containment level 1 (QC1) facilities. Class five criteria cover premises utilised for research, analysis and testing of biological material, soil, animal, plant and human products.

CUSTOMER CENTRIC - ANALYTICAL CHEMISTS

FINAL CERTIFICATE OF ANALYSIS - ENVIRONMENTAL DIVISION

Laboratory Report No: E035990	Cover Page 1 of 4
Client Name: Connell Wagner Pty Ltd (SA)	plus Sample Results
Client Reference: Buckland Park	
Contact Name: April Freeman	
Chain of Custody No: na	Date Received: 23/01/2008
Sample Matrix: SOIL	Date Reported: 15/02/2008

This Final Certificate of Analysis consists of sample results, DQI's, method descriptions, laboratory definitions, and internationally recognised NATA accreditation and endorsement. The DQO compliance relates specifically to QA/QC results as performed as part of the sample analysis, and may provide an indication of sample result quality. Transfer of report ownership from Labmark to the client shall only occur once full & final payment has been settled and verified. All report copies may be retracted where full payment has not occurred within the agreed settlement period.

QUALITY ASSURANCE CRITERIA

Accuracy:	matrix spike:	1 in first 5-20, then 1 every 20 samples
	lcs, crm, method:	1 per analytical batch
	surrogate spike:	addition per target organic method
Precision:	laboratory duplicate:	1 in first 5-10, then 1 every 10 samples
	laboratory triplicate:	re-extracted & reported when duplicate RPD values exceed acceptance criteria
Holding Times:	soils, waters:	Refer to LabMark Preservation & THT table VOC's 14 days water / soil VAC's 7 days water or 14 days acidified VAC's 14 days soil SVOC's 7 days water, 14 days soil Pesticides 7 days water, 14 days soil Metals 6 months general elements Mercury 28 days
Confirmation:	target organic analysis:	GC/MS, or confirmatory column
Sensitivity:	EQL:	Typically 2-5 x Method Detection Limit (MDL)

QUALITY CONTROL

GLOBAL ACCEPTANCE CRITERIA (GAC)

Accuracy:	spike, lcs, crm	general analytes 70% - 130% recovery
	surrogate:	phenol analytes 50% - 130% recovery organophosphorous pesticide analytes 60% - 130% recovery phenoxy acid herbicides, organotin 50% - 130% recovery
	anion/cation bal:	+/- 10% (0-3 meq/l), +/- 5% (>3 meq/l)
Precision:	method blank:	not detected >95% of the reported EQL
	duplicate lab	0-30% (>10xEQL), 0-75% (5-10xEQL)
	RPD (metals):	0-100% (<5xEQL)
	duplicate lab	0-50% (>10xEQL), 0-75% (5-10xEQL)
	RPD:	0-100% (<5xEQL)

QUALITY CONTROL

ANALYTE SPECIFIC ACCEPTANCE CRITERIA (ASAC)

Accuracy:	spike, lcs, crm	analyte specific recovery data
	surrogate:	<3xsd of historical mean
Uncertainty:	spike, lcs:	measurement calculated from historical analyte specific control charts

RESULT ANNOTATION

Data Quality Objective	s: matrix spike recovery	p: pending	bcs: batch specific lcs
Data Quality Indicator	d: laboratory duplicate	lcs: laboratory control sample	bmb: batch specific mb
Estimated Quantitation Limit	t: laboratory triplicate	crm: certified reference material	
not applicable	r: RPD relative % difference	mb: method blank	



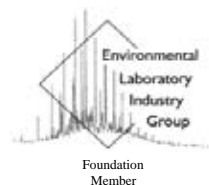
David Burns
Quality Control (Report signatory)
david.burns@labmark.com.au



Ivan Povolny
Authorising Chemist (NATA signatory)
ivan.povolny@labmark.com.au



Simon Mills
Authorising Chemist (NATA signatory)
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Laboratory Report: E035990

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NEPC GUIDELINE COMPLIANCE - DQO

1. GENERAL

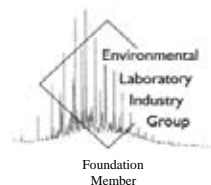
- A. Results relate specifically to samples as received. Sample results are not corrected for matrix spike, lcs, or surrogate recovery data.
- B. EQL's are matrix dependant and may be increased due to sample dilution or matrix interference.
- C. Laboratory QA/QC samples are specific to this project.
- D. Inter-laboratory proficiency results are available upon request. NATA accreditation details available at www.nata.asn.au.
- E. VOC spikes & surrogates added to samples during extraction, SVOC spikes & surrogates added prior to extraction.
- F. Recovery data outside GAC limits shall be investigated and compared to ASAC (historical mean +/- 3sd). If recovery data <20%, then the relevant results for that compound are considered not reliable.
- G. Recovery data (ms, surrogate, crm, lcs) outside ASAC limits shall initiate an investigative action. Anomalous QC data is examined in conjunction with other QC samples and a final decision whether to accept or reject results is provided by the professional judgement of the senior analyst. The USEPA-CLP National Functional Guidelines are referred to for specific recommendations.
- H. Extraction (preparation) date refers to the date that sample preparation was initiated. Note that certain methods not requiring sample preparation (eg. VOCs in water, etc) may report a common extraction and analysis date.
- I. LabMark shall maintain an official copy of this Certificate of Analysis for all traceable reference purposes.

2. CHAIN OF CUSTODY (COC) & SAMPLE RECEIPT NOTICE (SRN) REQUIREMENTS

- A. SRN issued to client upon sample receipt & login verification.
- B. Preservation & sampling date details specified on COC and SRN, unless noted.
- C. Sample Integrity & Validated Time of Sample Receipt (VTSR) Holding Times verified (preservation may extend holding time, refer to preservation chart).

3. NATA ACCREDITED METHODS

- A. NATA accreditation held for each in-house method and sample matrix type reported, unless noted below (Refer to subcontracted test reports for NATA accreditation status).
- B. NATA accredited in-house laboratory methods are referenced from NEPC, ASTM, modified USEPA / APHA documents. Corporate Accreditation No. 13542.
- C. Subcontracted analyses: Refer to Sample Receipt Notice and additional DQO comments.



Laboratory Report: E035990

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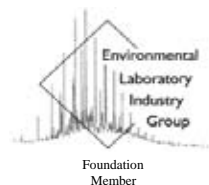
4. QA/QC FREQUENCY COMPLIANCE TABLE SPECIFIC TO THIS REPORT

Matrix: **SOIL**

Page:	Method:	Totals:	#d	%d-ratio	#t	#s	%s-ratio
1	BTEX by P&T	18	3	17%	0	2	11%
1	Volatile TPH by P&T (vTPH)	23	3	13%	0	2	9%
5	Petroleum Hydrocarbons (TPH)	22	3	14%	0	2	9%
9	Polyaromatic Hydrocarbons (PAH)	23	3	13%	0	2	9%
13	Phenols by GC/MS	4	0	0%	0	0	0%
14	Organochlorine Pesticides (OC)	24	3	13%	0	2	8%
18	Organophosphorus Pesticides (OP)	20	3	15%	0	2	10%
21	Acid extractable mercury	24	2	8%	0	1	4%
23	Volatile Aromatic Compounds (VAC)	4	0	0%	0	0	0%
25	Acid extractable metals	24	3	13%	0	2	8%
29	pH in soil	24	3	13%	0	0	0%
31	Acid extractable metals	24	3	13%	0	2	8%
33	Speciated Chromium	20	3	15%	0	2	10%
35	Fluoride	4	0	0%	0	0	0%
36	Sulphate/Sulphite	24	3	13%	0	2	8%
38	Total Cyanide	4	0	0%	0	0	0%
39	Phenoxy Acid Herbicides	22	3	14%	0	2	9%
43	Moisture	25	--	--	--	--	--

GLOSSARY:

#d	number of discrete duplicate extractions/analyses performed.
%d-ratio	NEPC guideline for laboratory duplicates is 1 in 10 samples (min 10%).
#t	number of triplicate extractions/analyses performed.
#s	number of spiked samples analysed.
%s-ratio	USEPA guideline for laboratory matrix spikes is 1 in 20 samples (min 5%).



Laboratory Report: E035990

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5. ADDITIONAL COMMENTS SPECIFIC TO THIS REPORT

- A. All tests were conducted by LabMark Environmental Sydney, NATA accreditation No. 13542, Corporate Site No. 13535, unless indicated below.
- B. Metals (soil) chromium and zinc recovery for sample 138239s at 142% and 141% respectively, corresponding LCS recovery is 95% and 99% respectively.
- C. Phenoxy acid herbicides (soil) 3,4-DCPA surrogate recovery range for samples is 51% - 114%, corresponding LCS recovery is 88%.
- D. Phenoxy acid herbicides (soil) dalapon recovery for matrix spike #138218s, 138239s is 23%, 22% respectively, corresponding LCS recovery is 20%.
- E. Phenoxy acid herbicides (soil) LCS recovery for fluxopyr is 45%.
- F. Refer to LabMark historical control chart recovery range data. QA/QC (phenoxy acid herbicides) results reported within 3sd of the historical analyte specific mean results, and therefore considered acceptable for laboratory release.

Laboratory QA/QC data shall relate specifically to this report, and may provide an indication of site specific sample result quality. LabMark DOES NOT report NON-RELEVANT BATCH QA/QC data. Acceptance of this self assessment certificate does not preclude any requirement for a QA/QC review by a accredited contaminated site EPA auditor, when and wherever necessary. Laboratory QA/QC self assessment references available upon request.

HISTORICAL CONTROL CHART DATA - QA/QC

Sydney

Analyte mean and standard deviation

PHOXY_S

For the period: 01/01/2007 12:00:00 AM to 31/12/2007 11:59:59 PM

SPIKES

<u>Analyte Name</u>	<u>n</u>	<u>Mean</u>	<u>1 SD</u>	<u>Range</u>	<u>2 SD</u>	<u>Range</u>	<u>3 SD</u>	<u>Range</u>
2,4,5-T	4	72	9	63 to 81	18	54 to 90	27	45 to 99
2,4,5-TP (Silvex)	4	81	14	67 to 95	28	53 to 109	42	39 to 123
2,4-D	4	75	3	72 to 78	6	69 to 81	9	66 to 84
2,4-DB	4	93	10	83 to 103	20	73 to 113	30	63 to 123
3,4-DCPA (Surr @ 0.4 mg/kg)	4	79	5	74 to 84	10	69 to 89	15	64 to 94
Clopyralid	4	82	15	67 to 97	30	52 to 112	45	37 to 127
Dalapon	4	33	8	25 to 41	16	17 to 49	24	9 to 57
Dicamba	4	87	17	70 to 104	34	53 to 121	51	36 to 138
Dichlorprop	4	84	19	65 to 103	38	46 to 122	57	27 to 141
Fluxopyr	3	76	6	70 to 82	12	64 to 88	18	58 to 94
MCPA	4	79	10	69 to 89	20	59 to 99	30	49 to 109
MCPB	4	89	10	79 to 99	20	69 to 109	30	59 to 119
MCPP	4	85	9	76 to 94	18	67 to 103	27	58 to 112
o-Chlorophenoxy acid	4	91	15	76 to 106	30	61 to 121	45	46 to 136
p-Chlorophenoxy acid	4	77	10	67 to 87	20	57 to 97	30	47 to 107
Triclopyr	4	80	14	66 to 94	28	52 to 108	42	38 to 122

LCS_S

<u>Analyte Name</u>	<u>n</u>	<u>Mean</u>	<u>1 SD</u>	<u>Range</u>	<u>2 SD</u>	<u>Range</u>	<u>3 SD</u>	<u>Range</u>
2,4,5-T	31	86	11	75 to 97	22	64 to 108	33	53 to 119
2,4,5-TP (Silvex)	31	91	12	79 to 103	24	67 to 115	36	55 to 127
2,4-D	31	86	11	75 to 97	22	64 to 108	33	53 to 119
2,4-DB	31	89	12	77 to 101	24	65 to 113	36	53 to 125
3,4-DCPA (Surr @ 0.4 mg/kg)	31	88	9	79 to 97	18	70 to 106	27	61 to 115
Clopyralid	31	75	15	60 to 90	30	45 to 105	45	30 to 120
Dalapon	29	33	14	19 to 47	28	5 to 61	42	0 to 75
Dicamba	31	88	13	75 to 101	26	62 to 114	39	49 to 127
Dichlorprop	31	90	11	79 to 101	22	68 to 112	33	57 to 123
Fluxopyr	31	73	12	61 to 85	24	49 to 97	36	37 to 109
MCPA	31	86	11	75 to 97	22	64 to 108	33	53 to 119
MCPB	31	88	12	76 to 100	24	64 to 112	36	52 to 124
MCPP	31	86	10	76 to 96	20	66 to 106	30	56 to 116
o-Chlorophenoxy acid	31	82	11	71 to 93	22	60 to 104	33	49 to 115
p-Chlorophenoxy acid	31	80	12	68 to 92	24	56 to 104	36	44 to 116
Triclopyr	31	88	12	76 to 100	24	64 to 112	36	52 to 124

Laboratory Report No: E035990
Client Name: Connell Wagner Pty Ltd (SA)
Contact Name: April Freeman
Client Reference: Buckland Park 31495

Page: 1 of 44
 plus cover page
Date: 15/02/08

Final
Certificate
 of Analysis

This report supercedes reports issued on: 05/02/08

Laboratory Identification		138208	138212	138218	138222	138225	138231	138234	138239	138245	138248
Sample Identification		TP1	TP2	TP3	TP4	TP5	TP6	TP7	TP8	TP9	TP10
Depth (m)		0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15
Sampling Date recorded on COC		18/1/08	18/1/08	18/1/08	18/1/08	18/1/08	18/1/08	18/1/08	21/1/08	21/1/08	21/1/08
Laboratory Extraction (Preparation) Date		30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08
Laboratory Analysis Date		3/2/08	3/2/08	3/2/08	3/2/08	1/2/08	3/2/08	3/2/08	3/2/08	3/2/08	1/2/08
Method : E002.2											
BTEX by P&T		EQL									
Benzene	0.2	<0.2	<0.2	<0.2	<0.2	--	<0.2	<0.2	<0.2	<0.2	--
Toluene	0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5	--
Ethylbenzene	0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5	--
meta- and para-Xylene	1	<1	<1	<1	<1	--	<1	<1	<1	<1	--
ortho-Xylene	0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5	--
Total Xylene	--	--	--	--	--	--	--	--	--	--	--
CDFB (Surr @ 10mg/kg)	--	111%	114%	119%	118%	--	119%	118%	118%	116%	--
Method : E003.2											
Volatile TPH by P&T (vTPH)		EQL									
C6 - C9 Fraction	10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E003.2: 8-10g soil extracted with 20ml methanol. Analysis by P&T/GC/FID.

E002.2: 8-10g soil extracted with 20ml methanol. Analysis by P&T/GC/PID/MSD.

Laboratory Report No: E035990
Client Name: Connell Wagner Pty Ltd (SA)
Contact Name: April Freeman
Client Reference: Buckland Park 31495

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Laboratory Identification		138251	138255	138259	138263	138267	138270	138275	138278	138282	138286
Sample Identification		TP11	TP12	TP13	TP14	TP15	TP16	TP17	TP18	TP19	TP20
Depth (m)		0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15
Sampling Date recorded on COC		21/1/08	21/1/08	21/1/08	21/1/08	21/1/08	21/1/08	21/1/08	21/1/08	21/1/08	21/1/08
Laboratory Extraction (Preparation) Date		30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08
Laboratory Analysis Date		3/2/08	3/2/08	3/2/08	3/2/08	1/2/08	3/2/08	3/2/08	3/2/08	3/2/08	1/2/08
Method : E002.2											
BTEX by P&T		EQL									
Benzene	0.2	<0.2	<0.2	<0.2	<0.2	--	<0.2	<0.2	<0.2	<0.2	--
Toluene	0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5	--
Ethylbenzene	0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5	--
meta- and para-Xylene	1	<1	<1	<1	<1	--	<1	<1	<1	<1	--
ortho-Xylene	0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5	--
Total Xylene	--	--	--	--	--	--	--	--	--	--	--
<i>CDFB (Surr @ 10mg/kg)</i>	--	<i>123%</i>	<i>119%</i>	<i>118%</i>	<i>119%</i>	--	<i>117%</i>	<i>117%</i>	<i>114%</i>	<i>117%</i>	--
Method : E003.2											
Volatile TPH by P&T (vTPH)		EQL									
C6 - C9 Fraction	10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E003.2: 8-10g soil extracted with 20ml methanol. Analysis by P&T/GC/FID.

E002.2: 8-10g soil extracted with 20ml methanol. Analysis by P&T/GC/PID/MSD.

Laboratory Report No: E035990
Client Name: Connell Wagner Pty Ltd (SA)
Contact Name: April Freeman
Client Reference: Buckland Park 31495

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Laboratory Identification		138291	138295	138208d	138208r	138231d	138231r	138245d	138245r	138218s	138239s
Sample Identification		TP21	TP22	QC	QC	QC	QC	QC	QC	QC	QC
Depth (m)		0.05-0.15	0.4-0.5	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		21/1/08	21/1/08	--	--	--	--	--	--	--	--
Laboratory Extraction (Preparation) Date		30/1/08	30/1/08	30/1/08	--	30/1/08	--	30/1/08	--	30/1/08	30/1/08
Laboratory Analysis Date		3/2/08	3/2/08	3/2/08	--	3/2/08	--	3/2/08	--	3/2/08	3/2/08
Method : E002.2											
BTEX by P&T		EQL									
Benzene	0.2	<0.2	<0.2	<0.2	--	<0.2	--	<0.2	--	94%	95%
Toluene	0.5	<0.5	<0.5	<0.5	--	<0.5	--	<0.5	--	100%	100%
Ethylbenzene	0.5	<0.5	<0.5	<0.5	--	<0.5	--	<0.5	--	98%	98%
meta- and para-Xylene	1	<1	<1	<1	--	<1	--	<1	--	93%	93%
ortho-Xylene	0.5	<0.5	<0.5	<0.5	--	<0.5	--	<0.5	--	106%	107%
Total Xylene	--	--	--	--	--	--	--	--	--	--	--
<i>CDFB (Surr @ 10mg/kg)</i>	--	120%	110%	115%	4%	117%	2%	117%	1%	120%	119%
Method : E003.2											
Volatile TPH by P&T (vTPH)		EQL									
C6 - C9 Fraction	10	<10	<10	<10	--	<10	--	<10	--	96%	94%

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E003.2: 8-10g soil extracted with 20ml methanol. Analysis by P&T/GC/FID.

E002.2: 8-10g soil extracted with 20ml methanol. Analysis by P&T/GC/PID/MSD.

Laboratory Report No: E035990
Client Name: Connell Wagner Pty Ltd (SA)
Contact Name: April Freeman
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Laboratory Identification		lcs	mb							
Sample Identification		QC	QC							
Depth (m)		--	--							
Sampling Date recorded on COC		--	--							
Laboratory Extraction (Preparation) Date		30/1/08	30/1/08							
Laboratory Analysis Date		30/1/08	30/1/08							
Method : E002.2										
BTEX by P&T		EQL								
Benzene	0.2	102%	<0.2							
Toluene	0.5	107%	<0.5							
Ethylbenzene	0.5	104%	<0.5							
meta- and para-Xylene	1	110%	<1							
ortho-Xylene	0.5	111%	<0.5							
Total Xylene	--	--	--							
<i>CDFB (Surr @ 10mg/kg)</i>	--	99%	89%							
Method : E003.2										
Volatile TPH by P&T (vTPH)		EQL								
C6 - C9 Fraction	10	104%	<10							

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E003.2: 8-10g soil extracted with 20ml methanol. Analysis by P&T/GC/FID.

E002.2: 8-10g soil extracted with 20ml methanol. Analysis by P&T/GC/PID/MSD.

Laboratory Report No: E035990
Client Name: Connell Wagner Pty Ltd (SA)
Contact Name: April Freeman
Client Reference: Buckland Park 31495

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Laboratory Identification		138208	138212	138218	138222	138225	138231	138234	138239	138245	138248
Sample Identification		TP1	TP2	TP3	TP4	TP5	TP6	TP7	TP8	TP9	TP10
Depth (m)		0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15
Sampling Date recorded on COC		18/1/08	18/1/08	18/1/08	18/1/08	18/1/08	18/1/08	18/1/08	21/1/08	21/1/08	21/1/08
Laboratory Extraction (Preparation) Date		30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08
Laboratory Analysis Date		1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	1/2/08
Method : E006.2											
Petroleum Hydrocarbons (TPH)		EQL									
C10 - C14 Fraction	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
C15 - C28 Fraction	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
C29 - C36 Fraction	100	<100	<100	<100	<100	<100	<100	<100	<100	110	<100
Sum of TPH C10 - C36	--	--	--	--	--	--	--	--	--	110	--

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E006.2: 8-10g soil extracted with 20ml DCM/Acetone/Hexane (10:45:45). Analysis by GC/FID.

Laboratory Report No: E035990
Client Name: Connell Wagner Pty Ltd (SA)
Contact Name: April Freeman
Client Reference: Buckland Park 31495

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Laboratory Identification		138251	138255	138259	138263	138267	138270	138275	138278	138282	138286
Sample Identification		TP11	TP12	TP13	TP14	TP15	TP16	TP17	TP18	TP19	TP20
Depth (m)		0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15
Sampling Date recorded on COC		21/1/08	21/1/08	21/1/08	21/1/08	21/1/08	21/1/08	21/1/08	21/1/08	21/1/08	21/1/08
Laboratory Extraction (Preparation) Date		30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08
Laboratory Analysis Date		1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	1/2/08
Method : E006.2											
Petroleum Hydrocarbons (TPH)		EQL									
C10 - C14 Fraction	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
C15 - C28 Fraction	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
C29 - C36 Fraction	100	140	<100	<100	<100	<100	<100	<100	<100	<100	<100
Sum of TPH C10 - C36	--	140	--	--	--	--	--	--	--	--	--

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E006.2: 8-10g soil extracted with 20ml DCM/Acetone/Hexane (10:45:45). Analysis by GC/FID.

Laboratory Report No: E035990
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Contact Name: April Freeman
Client Reference: Buckland Park 31495

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Laboratory Identification		138291	138295	138208d	138208r	138231d	138231r	138245d	138245r	138218s	138239s
Sample Identification		TP21	TP22	QC	QC	QC	QC	QC	QC	QC	QC
Depth (m)		0.05-0.15	0.4-0.5	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		21/1/08	21/1/08	--	--	--	--	--	--	--	--
Laboratory Extraction (Preparation) Date		30/1/08	30/1/08	30/1/08	--	30/1/08	--	30/1/08	--	30/1/08	30/1/08
Laboratory Analysis Date		1/2/08	1/2/08	1/2/08	--	1/2/08	--	1/2/08	--	1/2/08	1/2/08
Method : E006.2											
Petroleum Hydrocarbons (TPH)		EQL									
C10 - C14 Fraction	50	<50	<50	<50	--	<50	--	<50	--	--	--
C15 - C28 Fraction	100	<100	<100	<100	--	<100	--	<100	--	77%	82%
C29 - C36 Fraction	100	<100	<100	<100	--	<100	--	<100	--	--	--
Sum of TPH C10 - C36	--	--	--	--	--	--	--	--	--	--	--

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E006.2: 8-10g soil extracted with 20ml DCM/Acetone/Hexane (10:45:45). Analysis by GC/FID.

Laboratory Report No: E035990
Client Name: Connell Wagner Pty Ltd (SA)
Contact Name: April Freeman
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Laboratory Identification		lcs	mb							
Sample Identification		QC	QC							
Depth (m)		--	--							
Sampling Date recorded on COC		--	--							
Laboratory Extraction (Preparation) Date		30/1/08	30/1/08							
Laboratory Analysis Date		31/1/08	31/1/08							
Method : E006.2										
Petroleum Hydrocarbons (TPH)		EQL								
C10 - C14 Fraction	50	--	<50							
C15 - C28 Fraction	100	78%	<100							
C29 - C36 Fraction	100	--	<100							
Sum of TPH C10 - C36	--	--	--							

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E006.2: 8-10g soil extracted with 20ml DCM/Acetone/Hexane (10:45:45). Analysis by GC/FID.

Laboratory Identification		138208	138212	138218	138222	138225	138231	138234	138239	138245	138248
Sample Identification		TP1	TP2	TP3	TP4	TP5	TP6	TP7	TP8	TP9	TP10
Depth (m)		0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15
Sampling Date recorded on COC		18/1/08	18/1/08	18/1/08	18/1/08	18/1/08	18/1/08	18/1/08	21/1/08	21/1/08	21/1/08
Laboratory Extraction (Preparation) Date		30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08
Laboratory Analysis Date		31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	1/2/08	1/2/08	31/1/08
Method : E007.2											
Polyaromatic Hydrocarbons (PAH)		EQL									
Naphthalene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(b)&(k)fluoranthene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(a) pyrene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1,2,3-c,d)pyrene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a,h)anthracene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g,h,i)perylene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Sum of reported PAHs	--	--	--	--	--	--	--	--	--	--	--
2-FBP (Surr @ 5mg/kg)	--	99%	85%	104%	107%	103%	99%	96%	89%	110%	85%
TP-d14 (Surr @ 5mg/kg)	--	110%	90%	101%	112%	104%	107%	103%	93%	104%	84%

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E007.2: 8-10g soil extracted with 20ml DCM/Acetone/Hexane (10:45:45). Analysis by GC/MS.

Laboratory Identification		138251	138255	138259	138263	138266	138267	138270	138275	138278	138282
Sample Identification		TP11	TP12	TP13	TP14	TP14	TP15	TP16	TP17	TP18	TP19
Depth (m)		0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	1.9-2.0	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15
Sampling Date recorded on COC		21/1/08	21/1/08	21/1/08	21/1/08	21/1/08	21/1/08	21/1/08	21/1/08	21/1/08	21/1/08
Laboratory Extraction (Preparation) Date		30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08
Laboratory Analysis Date		1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	31/1/08	1/2/08	1/2/08	1/2/08	1/2/08
Method : E007.2											
Polyaromatic Hydrocarbons (PAH)		EQL									
Naphthalene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(b)&(k)fluoranthene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(a) pyrene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1,2,3-c,d)pyrene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a,h)anthracene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g,h,i)perylene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Sum of reported PAHs	--	--	--	--	--	--	--	--	--	--	--
2-FBP (Surr @ 5mg/kg)	--	91%	110%	97%	112%	99%	110%	73%	102%	91%	96%
TP-d14 (Surr @ 5mg/kg)	--	94%	111%	100%	106%	103%	112%	78%	107%	99%	103%

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E007.2: 8-10g soil extracted with 20ml DCM/Acetone/Hexane (10:45:45). Analysis by GC/MS.

Laboratory Report No: E035990
Client Name: Connell Wagner Pty Ltd (SA)
Contact Name: April Freeman
Client Reference: Buckland Park 31495

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Laboratory Identification		138286	138291	138295	138208d	138208r	138231d	138231r	138245d	138245r	138218s
Sample Identification		TP20	TP21	TP22	QC	QC	QC	QC	QC	QC	QC
Depth (m)		0.05-0.15	0.05-0.15	0.4-0.5	--	--	--	--	--	--	--
Sampling Date recorded on COC		21/1/08	21/1/08	21/1/08	--	--	--	--	--	--	--
Laboratory Extraction (Preparation) Date		30/1/08	30/1/08	30/1/08	30/1/08	--	30/1/08	--	30/1/08	--	30/1/08
Laboratory Analysis Date		31/1/08	1/2/08	1/2/08	31/1/08	--	31/1/08	--	1/2/08	--	31/1/08
Method : E007.2											
Polyaromatic Hydrocarbons (PAH)		EQL									
Naphthalene	0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	--	<0.5	--	98%
Acenaphthylene	0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	--	<0.5	--	89%
Acenaphthene	0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	--	<0.5	--	90%
Fluorene	0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	--	<0.5	--	91%
Phenanthrene	0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	--	<0.5	--	94%
Anthracene	0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	--	<0.5	--	95%
Fluoranthene	0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	--	<0.5	--	97%
Pyrene	0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	--	<0.5	--	95%
Benz(a)anthracene	0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	--	<0.5	--	94%
Chrysene	0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	--	<0.5	--	94%
Benzo(b)&(k)fluoranthene	1	<1	<1	<1	<1	--	<1	--	<1	--	97%
Benzo(a) pyrene	0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	--	<0.5	--	93%
Indeno(1,2,3-c,d)pyrene	0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	--	<0.5	--	92%
Dibenz(a,h)anthracene	0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	--	<0.5	--	94%
Benzo(g,h,i)perylene	0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	--	<0.5	--	95%
Sum of reported PAHs	--	--	--	--	--	--	--	--	--	--	--
2-FBP (Surr @ 5mg/kg)	--	114%	86%	97%	89%	11%	90%	10%	110%	0%	89%
TP-d14 (Surr @ 5mg/kg)	--	118%	92%	103%	94%	16%	89%	18%	109%	5%	92%

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E007.2: 8-10g soil extracted with 20ml DCM/Acetone/Hexane (10:45:45). Analysis by GC/MS.

Laboratory Report No: E035990
Client Name: Connell Wagner Pty Ltd (SA)
Contact Name: April Freeman
Client Reference: Buckland Park 31495

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Laboratory Identification		138239s	lcs	mb						
Sample Identification		QC	QC	QC						
Depth (m)		--	--	--						
Sampling Date recorded on COC		--	--	--						
Laboratory Extraction (Preparation) Date		30/1/08	30/1/08	30/1/08						
Laboratory Analysis Date		1/2/08	31/1/08	30/1/08						
Method : E007.2										
Polyaromatic Hydrocarbons (PAH)		EQL								
Naphthalene	0.5	96%	94%	<0.5						
Acenaphthylene	0.5	90%	89%	<0.5						
Acenaphthene	0.5	90%	91%	<0.5						
Fluorene	0.5	91%	96%	<0.5						
Phenanthrene	0.5	90%	95%	<0.5						
Anthracene	0.5	92%	95%	<0.5						
Fluoranthene	0.5	92%	97%	<0.5						
Pyrene	0.5	95%	94%	<0.5						
Benz(a)anthracene	0.5	91%	95%	<0.5						
Chrysene	0.5	100%	93%	<0.5						
Benzo(b)&(k)fluoranthene	1	91%	92%	<1						
Benzo(a) pyrene	0.5	90%	90%	<0.5						
Indeno(1,2,3-c,d)pyrene	0.5	90%	86%	<0.5						
Dibenz(a,h)anthracene	0.5	90%	86%	<0.5						
Benzo(g,h,i)perylene	0.5	92%	90%	<0.5						
Sum of reported PAHs	--	--	--	--						
2-FBP (Surr @ 5mg/kg)	--	91%	106%	100%						
TP-d14 (Surr @ 5mg/kg)	--	93%	113%	112%						

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E007.2: 8-10g soil extracted with 20ml DCM/Acetone/Hexane (10:45:45). Analysis by GC/MS.

Laboratory Identification		138225	138248	138267	138286	lcs	mb				
Sample Identification		TP5	TP10	TP15	TP20	QC	QC				
Depth (m)		0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	--	--				
Sampling Date recorded on COC		18/1/08	21/1/08	21/1/08	21/1/08	--	--				
Laboratory Extraction (Preparation) Date		30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08				
Laboratory Analysis Date		31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	30/1/08				
Method : E008.2											
Phenols by GC/MS		EQL									
Phenol	0.5	<0.5	<0.5	<0.5	<0.5	104%	<0.5				
2-chlorophenol	0.5	<0.5	<0.5	<0.5	<0.5	101%	<0.5				
2-methylphenol	0.5	<0.5	<0.5	<0.5	<0.5	98%	<0.5				
3-&4-methylphenol	1.0	<1.0	<1.0	<1.0	<1.0	101%	<1.0				
2-nitrophenol	0.5	<0.5	<0.5	<0.5	<0.5	94%	<0.5				
2,4-dimethylphenol	0.5	<0.5	<0.5	<0.5	<0.5	101%	<0.5				
2,4-dichlorophenol	0.5	<0.5	<0.5	<0.5	<0.5	100%	<0.5				
4-chloro-3-methylphenol	0.5	<0.5	<0.5	<0.5	<0.5	96%	<0.5				
2,4,6-trichlorophenol	0.5	<0.5	<0.5	<0.5	<0.5	92%	<0.5				
2,4,5-trichlorophenol	0.5	<0.5	<0.5	<0.5	<0.5	105%	<0.5				
Pentachlorophenol	1	<1	<1	<1	<1	79%	<1				
Sum of reported phenols	--	--	--	--	--	--	--				
2-FP (Surr @ 5mg/kg)	--	100%	77%	111%	117%	100%	100%				
Phenol-d5 (Surr @ 5mg/kg)	--	58%	73%	85%	83%	100%	100%				
2,4,6-TBP (Surr @ 5mg/kg)	--	75%	64%	90%	94%	94%	74%				

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E008.2: 8-10g soil extracted with 20ml DCM/Acetone/Hexane (10:45:45). Analysis by GC/MS.

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Contact Name: April Freeman
Client Reference: Buckland Park 31495

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Laboratory Identification		138208	138212	138213	138218	138222	138225	138231	138234	138239	138245
Sample Identification		TP1	TP2	QC1	TP3	TP4	TP5	TP6	TP7	TP8	TP9
Depth (m)		0.05-0.15	0.05-0.15	--	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15
Sampling Date recorded on COC		18/1/08	18/1/08	18/1/08	18/1/08	18/1/08	18/1/08	18/1/08	18/1/08	21/1/08	21/1/08
Laboratory Extraction (Preparation) Date		30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08
Laboratory Analysis Date		2/2/08	2/2/08	2/2/08	2/2/08	2/2/08	2/2/08	2/2/08	2/2/08	2/2/08	2/2/08
Method : E013.2											
Organochlorine Pesticides (OC)	EQL										
a-BHC	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Hexachlorobenzene	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
b-BHC	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
g-BHC (Lindane)	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
d-BHC	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor epoxide	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
trans-chlordane	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan I	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
cis-chlordane	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dieldrin	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
4,4-DDE	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan II	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
4,4-DDD	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan sulphate	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
4,4-DDT	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
DBC (Surr @ 0.2mg/kg)	--	107%	92%	108%	104%	107%	103%	103%	99%	92%	109%

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E013.2: 8-10g soil extracted with 20ml DCM/Acetone/Hexane (10:45:45). Analysis by GC/dual ECD.

Laboratory Report No: E035990
Client Name: Connell Wagner Pty Ltd (SA)
Contact Name: April Freeman
Client Reference: Buckland Park 31495

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Laboratory Identification		138248	138251	138255	138259	138263	138267	138270	138271	138275	138278
Sample Identification		TP10	TP11	TP12	TP13	TP14	TP15	TP16	QC9	TP17	TP18
Depth (m)		0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	--	0.05-0.15	0.05-0.15
Sampling Date recorded on COC		21/1/08	21/1/08	21/1/08	21/1/08	21/1/08	21/1/08	21/1/08	21/1/08	21/1/08	21/1/08
Laboratory Extraction (Preparation) Date		30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08
Laboratory Analysis Date		2/2/08	2/2/08	2/2/08	2/2/08	2/2/08	2/2/08	2/2/08	2/2/08	2/2/08	2/2/08
Method : E013.2											
Organochlorine Pesticides (OC)	EQL										
a-BHC	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Hexachlorobenzene	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
b-BHC	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
g-BHC (Lindane)	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
d-BHC	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor epoxide	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
trans-chlordane	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan I	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
cis-chlordane	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dieldrin	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
4,4-DDE	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan II	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
4,4-DDD	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan sulphate	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
4,4-DDT	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
DBC (Surr @ 0.2mg/kg)	--	86%	95%	106%	97%	101%	112%	77%	91%	112%	107%

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E013.2: 8-10g soil extracted with 20ml DCM/Acetone/Hexane (10:45:45). Analysis by GC/dual ECD.

Laboratory Report No: E035990
Client Name: Connell Wagner Pty Ltd (SA)
Contact Name: April Freeman
Client Reference: Buckland Park 31495

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Laboratory Identification		138282	138286	138291	138295	138208d	138208r	138231d	138231r	138245d	138245r
Sample Identification		TP19	TP20	TP21	TP22	QC	QC	QC	QC	QC	QC
Depth (m)		0.05-0.15	0.05-0.15	0.05-0.15	0.4-0.5	--	--	--	--	--	--
Sampling Date recorded on COC		21/1/08	21/1/08	21/1/08	21/1/08	--	--	--	--	--	--
Laboratory Extraction (Preparation) Date		30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	--	30/1/08	--	30/1/08	--
Laboratory Analysis Date		2/2/08	2/2/08	2/2/08	2/2/08	2/2/08	--	2/2/08	--	2/2/08	--
Method : E013.2											
Organochlorine Pesticides (OC)	EQL										
a-BHC	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	--	<0.05	--	<0.05	--
Hexachlorobenzene	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	--	<0.05	--	<0.05	--
b-BHC	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	--	<0.05	--	<0.05	--
g-BHC (Lindane)	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	--	<0.05	--	<0.05	--
d-BHC	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	--	<0.05	--	<0.05	--
Heptachlor	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	--	<0.05	--	<0.05	--
Aldrin	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	--	<0.05	--	<0.05	--
Heptachlor epoxide	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	--	<0.05	--	<0.05	--
trans-chlordane	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	--	<0.05	--	<0.05	--
Endosulfan I	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	--	<0.05	--	<0.05	--
cis-chlordane	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	--	<0.05	--	<0.05	--
Dieldrin	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	--	<0.05	--	<0.05	--
4,4-DDE	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	--	<0.05	--	<0.05	--
Endrin	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	--	<0.05	--	<0.05	--
Endosulfan II	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	--	<0.05	--	<0.05	--
4,4-DDD	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	--	<0.05	--	<0.05	--
Endosulfan sulphate	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	--	<0.05	--	<0.05	--
4,4-DDT	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	<0.2	--	<0.2	--
Methoxychlor	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	<0.2	--	<0.2	--
DBC (Surr @ 0.2mg/kg)	--	100%	118%	96%	103%	96%	11%	92%	11%	113%	4%

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E013.2: 8-10g soil extracted with 20ml DCM/Acetone/Hexane (10:45:45). Analysis by GC/dual ECD.

Laboratory Identification		138218s	138239s	lcs	mb						
Sample Identification		QC	QC	QC	QC						
Depth (m)		--	--	--	--						
Sampling Date recorded on COC		--	--	--	--						
Laboratory Extraction (Preparation) Date		30/1/08	30/1/08	30/1/08	30/1/08						
Laboratory Analysis Date		2/2/08	2/2/08	31/1/08	31/1/08						
Method : E013.2											
Organochlorine Pesticides (OC)	EQL										
a-BHC	0.05	96%	94%	97%	<0.05						
Hexachlorobenzene	0.05	98%	96%	100%	<0.05						
b-BHC	0.05	108%	105%	101%	<0.05						
g-BHC (Lindane)	0.05	103%	101%	101%	<0.05						
d-BHC	0.05	108%	105%	99%	<0.05						
Heptachlor	0.05	107%	105%	99%	<0.05						
Aldrin	0.05	105%	103%	97%	<0.05						
Heptachlor epoxide	0.05	107%	104%	95%	<0.05						
trans-chlordane	0.05	108%	105%	98%	<0.05						
Endosulfan I	0.05	103%	100%	99%	<0.05						
cis-chlordane	0.05	102%	100%	99%	<0.05						
Dieldrin	0.05	110%	107%	101%	<0.05						
4,4-DDE	0.05	115%	113%	104%	<0.05						
Endrin	0.05	110%	107%	106%	<0.05						
Endosulfan II	0.05	108%	105%	100%	<0.05						
4,4-DDD	0.05	113%	109%	103%	<0.05						
Endosulfan sulphate	0.05	112%	110%	100%	<0.05						
4,4-DDT	0.2	112%	115%	99%	<0.2						
Methoxychlor	0.2	114%	111%	106%	<0.2						
DBC (Surr @ 0.2mg/kg)	--	101%	108%	105%	117%						

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E013.2: 8-10g soil extracted with 20ml DCM/Acetone/Hexane (10:45:45). Analysis by GC/dual ECD.

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Client Name: Connell Wagner Pty Ltd (SA)
Contact Name: April Freeman
Client Reference: Buckland Park 31495

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Laboratory Identification		138208	138212	138213	138218	138222	138231	138234	138239	138245	138251
Sample Identification		TP1	TP2	QC1	TP3	TP4	TP6	TP7	TP8	TP9	TP11
Depth (m)		0.05-0.15	0.05-0.15	--	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15
Sampling Date recorded on COC		18/1/08	18/1/08	18/1/08	18/1/08	18/1/08	18/1/08	18/1/08	21/1/08	21/1/08	21/1/08
Laboratory Extraction (Preparation) Date		30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08
Laboratory Analysis Date		31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	1/2/08
Method : E014.2											
Organophosphorus Pesticides (OP)		EQL									
Dichlorvos	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Mevinphos (Phosdrin)	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Demeton (total)	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethoprop	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Monocrotophos	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Phorate	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Disulfoton	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Methyl parathion	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ronnel	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Malathion	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorpyrifos	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenthion	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Parathion	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Stirofos	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Prothiofos	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Azinophos methyl	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Coumaphos	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TPP (Surr @ 2mg/kg)	--	111%	102%	117%	110%	108%	111%	109%	96%	121%	97%

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E014.2: 8-10g soil extracted with 20ml DCM/Acetone/Hexane (10:45:45). Analysis by GC/MSD.

Laboratory Report No: E035990
Client Name: Connell Wagner Pty Ltd (SA)
Contact Name: April Freeman
Client Reference: Buckland Park 31495

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Laboratory Identification		138255	138259	138263	138270	138271	138275	138278	138282	138291	138295
Sample Identification		TP12	TP13	TP14	TP16	QC9	TP17	TP18	TP19	TP21	TP22
Depth (m)		0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	--	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.4-0.5
Sampling Date recorded on COC		21/1/08	21/1/08	21/1/08	21/1/08	21/1/08	21/1/08	21/1/08	21/1/08	21/1/08	21/1/08
Laboratory Extraction (Preparation) Date		30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08
Laboratory Analysis Date		1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	1/2/08
Method : E014.2											
Organophosphorus Pesticides (OP)		EQL									
Dichlorvos	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Mevinphos (Phosdrin)	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Demeton (total)	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethoprop	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Monocrotophos	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Phorate	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Disulfoton	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Methyl parathion	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ronnel	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Malathion	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorpyrifos	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenthion	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Parathion	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Stirofos	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Prothiofos	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Azinophos methyl	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Coumaphos	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TPP (Surr @ 2mg/kg)	--	106%	104%	111%	85%	99%	117%	113%	105%	98%	108%

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E014.2: 8-10g soil extracted with 20ml DCM/Acetone/Hexane (10:45:45). Analysis by GC/MSD.

Laboratory Identification		138208d	138208r	138231d	138231r	138245d	138245r	138218s	138239s	lcs	mb
Sample Identification		QC	QC	QC	QC	QC	QC	QC	QC	QC	QC
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		--	--	--	--	--	--	--	--	--	--
Laboratory Extraction (Preparation) Date		30/1/08	--	30/1/08	--	30/1/08	--	30/1/08	30/1/08	30/1/08	30/1/08
Laboratory Analysis Date		31/1/08	--	31/1/08	--	31/1/08	--	31/1/08	31/1/08	31/1/08	31/1/08
Method : E014.2											
Organophosphorus Pesticides (OP)		EQL									
Dichlorvos	0.5	<0.5	--	<0.5	--	<0.5	--	128%	128%	120%	<0.5
Mevinphos (Phosdrin)	0.5	<0.5	--	<0.5	--	<0.5	--	90%	89%	96%	<0.5
Demeton (total)	1	<1	--	<1	--	<1	--	122%	123%	125%	<1
Ethoprop	0.5	<0.5	--	<0.5	--	<0.5	--	128%	129%	122%	<0.5
Monocrotophos	0.5	<0.5	--	<0.5	--	<0.5	--	71%	74%	129%	<0.5
Phorate	0.5	<0.5	--	<0.5	--	<0.5	--	123%	128%	121%	<0.5
Dimethoate	0.5	<0.5	--	<0.5	--	<0.5	--	108%	107%	116%	<0.5
Diazinon	0.5	<0.5	--	<0.5	--	<0.5	--	112%	109%	111%	<0.5
Disulfoton	0.5	<0.5	--	<0.5	--	<0.5	--	122%	122%	116%	<0.5
Methyl parathion	0.5	<0.5	--	<0.5	--	<0.5	--	117%	116%	118%	<0.5
Ronnel	0.5	<0.5	--	<0.5	--	<0.5	--	111%	108%	116%	<0.5
Fenitrothion	0.5	<0.5	--	<0.5	--	<0.5	--	117%	119%	115%	<0.5
Malathion	0.5	<0.5	--	<0.5	--	<0.5	--	122%	125%	123%	<0.5
Chlorpyrifos	0.5	<0.5	--	<0.5	--	<0.5	--	117%	111%	110%	<0.5
Fenthion	0.5	<0.5	--	<0.5	--	<0.5	--	129%	125%	129%	<0.5
Parathion	0.5	<0.5	--	<0.5	--	<0.5	--	130%	130%	126%	<0.5
Stirofos	0.5	<0.5	--	<0.5	--	<0.5	--	104%	95%	112%	<0.5
Prothiofos	0.5	<0.5	--	<0.5	--	<0.5	--	118%	115%	122%	<0.5
Azinophos methyl	0.5	<0.5	--	<0.5	--	<0.5	--	114%	104%	116%	<0.5
Coumaphos	0.5	<0.5	--	<0.5	--	<0.5	--	119%	118%	121%	<0.5
TPP (Surr @ 2mg/kg)	--	99%	11%	99%	11%	115%	5%	112%	102%	104%	102%

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E014.2: 8-10g soil extracted with 20ml DCM/Acetone/Hexane (10:45:45). Analysis by GC/MSD.

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Contact Name: April Freeman
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Laboratory Identification		138208	138212	138213	138218	138222	138225	138231	138234	138239	138245
Sample Identification		TP1	TP2	QC1	TP3	TP4	TP5	TP6	TP7	TP8	TP9
Depth (m)		0.05-0.15	0.05-0.15	--	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15
Sampling Date recorded on COC		18/1/08	18/1/08	18/1/08	18/1/08	18/1/08	18/1/08	18/1/08	18/1/08	21/1/08	21/1/08
Laboratory Extraction (Preparation) Date		30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08
Laboratory Analysis Date		1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	31/1/08
Method : E026.2 Acid extractable mercury Mercury	EQL 0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.12

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E026.2: 0.5g digested with nitric/hydrochloric acid. Analysis by CV-ICP-MS or FIMS.

Laboratory Identification		138248	138251	138255	138259	138263	138267	138270	138271	138275	138278
Sample Identification		TP10	TP11	TP12	TP13	TP14	TP15	TP16	QC9	TP17	TP18
Depth (m)		0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	--	0.05-0.15	0.05-0.15
Sampling Date recorded on COC		21/1/08	21/1/08	21/1/08	21/1/08	21/1/08	21/1/08	21/1/08	21/1/08	21/1/08	21/1/08
Laboratory Extraction (Preparation) Date		30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08
Laboratory Analysis Date		31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08
Method : E026.2 Acid extractable mercury Mercury	EQL 0.05	0.06	0.05	<0.05	0.06	<0.05	0.07	<0.05	<0.05	<0.05	0.07

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E026.2: 0.5g digested with nitric/hydrochloric acid. Analysis by CV-ICP-MS or FIMS.

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Contact Name: April Freeman
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Laboratory Identification		138282	138286	138291	138295	138208d	138208r	138245d	138245r	138218s	crm
Sample Identification		TP19	TP20	TP21	TP22	QC	QC	QC	QC	QC	QC
Depth (m)		0.05-0.15	0.05-0.15	0.05-0.15	0.4-0.5	--	--	--	--	--	--
Sampling Date recorded on COC		21/1/08	21/1/08	21/1/08	21/1/08	--	--	--	--	--	--
Laboratory Extraction (Preparation) Date		30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	--	30/1/08	--	30/1/08	30/1/08
Laboratory Analysis Date		31/1/08	31/1/08	31/1/08	31/1/08	1/2/08	--	31/1/08	--	1/2/08	30/1/08
Method : E026.2											
Acid extractable mercury		EQL									
Mercury		0.05	<0.05	0.05	<0.05	<0.05	--	0.09	29%	88%	87%

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E026.2: 0.5g digested with nitric/hydrochloric acid. Analysis by CV-ICP-MS or FIMS.

Laboratory Identification		lcs	mb							
Sample Identification		QC	QC							
Depth (m)		--	--							
Sampling Date recorded on COC		--	--							
Laboratory Extraction (Preparation) Date		30/1/08	30/1/08							
Laboratory Analysis Date		30/1/08	30/1/08							
Method : E026.2										
Acid extractable mercury		EQL								
Mercury		0.05	86%	<0.05						

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E026.2: 0.5g digested with nitric/hydrochloric acid. Analysis by CV-ICP-MS or FIMS.

Laboratory Report No: E035990
Client Name: Connell Wagner Pty Ltd (SA)
Contact Name: April Freeman
Client Reference: Buckland Park 31495

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Laboratory Identification		138225	138248	138267	138286	lcs	mb				
Sample Identification		TP5	TP10	TP15	TP20	QC	QC				
Depth (m)		0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	--	--				
Sampling Date recorded on COC		18/1/08	21/1/08	21/1/08	21/1/08	--	--				
Laboratory Extraction (Preparation) Date		30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08				
Laboratory Analysis Date		1/2/08	1/2/08	1/2/08	1/2/08	30/1/08	30/1/08				
Method : E009.2											
Volatile Aromatic Compounds (VAC)		EQL									
Benzene	0.5	<0.5	<0.5	<0.5	<0.5	108%	<0.5				
Toluene	0.5	<0.5	<0.5	<0.5	<0.5	105%	<0.5				
Chlorobenzene	0.5	<0.5	<0.5	<0.5	<0.5	109%	<0.5				
Ethylbenzene	0.5	<0.5	<0.5	<0.5	<0.5	108%	<0.5				
m- & p-xylene	1	<1	<1	<1	<1	110%	<1				
Styrene	0.5	<0.5	<0.5	<0.5	<0.5	110%	<0.5				
o-xylene	0.5	<0.5	<0.5	<0.5	<0.5	109%	<0.5				
Isopropylbenzene	0.5	<0.5	<0.5	<0.5	<0.5	109%	<0.5				
Bromobenzene	0.5	<0.5	<0.5	<0.5	<0.5	109%	<0.5				
n-propylbenzene	0.5	<0.5	<0.5	<0.5	<0.5	110%	<0.5				
2-chlorotoluene	0.5	<0.5	<0.5	<0.5	<0.5	110%	<0.5				
4-chlorotoluene	0.5	<0.5	<0.5	<0.5	<0.5	110%	<0.5				
1,3,5-trimethylbenzene	0.5	<0.5	<0.5	<0.5	<0.5	110%	<0.5				
tert-butylbenzene	0.5	<0.5	<0.5	<0.5	<0.5	111%	<0.5				
1,2,4-trimethylbenzene	0.5	<0.5	<0.5	<0.5	<0.5	110%	<0.5				
sec-butylbenzene	0.5	<0.5	<0.5	<0.5	<0.5	110%	<0.5				
1,3-dichlorobenzene	0.5	<0.5	<0.5	<0.5	<0.5	109%	<0.5				
1,4-dichlorobenzene	0.5	<0.5	<0.5	<0.5	<0.5	111%	<0.5				
p-isopropyltoluene	0.5	<0.5	<0.5	<0.5	<0.5	110%	<0.5				
1,2-dichlorobenzene	0.5	<0.5	<0.5	<0.5	<0.5	109%	<0.5				
n-butylbenzene	0.5	<0.5	<0.5	<0.5	<0.5	110%	<0.5				
1,2,4-trichlorobenzene	0.5	<0.5	<0.5	<0.5	<0.5	115%	<0.5				
Naphthalene	0.5	<0.5	<0.5	<0.5	<0.5	110%	<0.5				
1,2,3-trichlorobenzene	0.5	<0.5	<0.5	<0.5	<0.5	116%	<0.5				
BCP (Surr @ 20mg/kg)	--	114%	89%	106%	123%	111%	87%				
DCFB (Surr @ 20mg/kg)	--	106%	84%	102%	116%	109%	82%				

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Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E009.2: 8-10g soil extracted with 20ml methanol. Analysis by P&T/GC/MS.

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Client Name: Connell Wagner Pty Ltd (SA)
Contact Name: April Freeman
Client Reference: Buckland Park 31495

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Laboratory Identification		138208	138212	138213	138218	138222	138225	138231	138234	138239	138245
Sample Identification		TP1	TP2	QC1	TP3	TP4	TP5	TP6	TP7	TP8	TP9
Depth (m)		0.05-0.15	0.05-0.15	--	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15
Sampling Date recorded on COC		18/1/08	18/1/08	18/1/08	18/1/08	18/1/08	18/1/08	18/1/08	18/1/08	21/1/08	21/1/08
Laboratory Extraction (Preparation) Date		30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08
Laboratory Analysis Date		31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08
Method : E022.2											
Acid extractable metals		EQL									
Arsenic	1	1	2	2	3	2	1	2	<1	3	5
Beryllium	1	<1	<1	<1	1	<1	--	<1	<1	1	1
Boron	5	<5	<5	<5	<5	<5	--	5	<5	<5	<5
Cadmium	0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	0.1	0.2
Chromium	1	10	14	17	35	16	15	19	10	35	42
Cobalt	1	--	--	--	--	--	3	--	--	--	--
Copper	2	5	7	8	23	10	7	11	5	25	34
Lead	2	7	8	9	17	8	7	11	4	16	22
Manganese	5	95	131	143	256	170	--	192	169	458	296
Molybdenum	1	--	--	--	--	--	<1	--	--	--	--
Nickel	1	--	--	--	--	--	6	--	--	--	--
Selenium	2	--	--	--	--	--	<2	--	--	--	--
Tin	1	--	--	--	--	--	<1	--	--	--	--
Zinc	5	10	10	11	28	12	10	16	8	26	38

Results expressed in mg/kg dry weight unless otherwise specified

Comments: - # Percent recovery not available due to significant background levels of analyte in sample.

E022.2: 0.5g digested in nitric/hydrochloric acid. Analysis by ICP-MS.

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Contact Name: April Freeman
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Laboratory Identification		138248	138251	138255	138259	138263	138267	138270	138271	138275	138278
Sample Identification		TP10	TP11	TP12	TP13	TP14	TP15	TP16	QC9	TP17	TP18
Depth (m)		0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	--	0.05-0.15	0.05-0.15
Sampling Date recorded on COC		21/1/08	21/1/08	21/1/08	21/1/08	21/1/08	21/1/08	21/1/08	21/1/08	21/1/08	21/1/08
Laboratory Extraction (Preparation) Date		30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08
Laboratory Analysis Date		31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08
Method : E022.2											
Acid extractable metals		EQL									
Arsenic	1	3	3	2	3	2	3	2	2	2	3
Beryllium	1	--	1	<1	1	<1	--	<1	<1	<1	1
Boron	5	--	<5	<5	<5	<5	--	8	12	18	<5
Cadmium	0.1	0.1	0.3	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	0.1
Chromium	1	31	39	29	40	19	33	16	20	22	43
Cobalt	1	14	--	--	--	--	11	--	--	--	--
Copper	2	22	25	18	28	14	25	9	11	11	31
Lead	2	15	13	10	12	9	14	5	5	5	16
Manganese	5	--	534	397	462	300	--	152	155	211	392
Molybdenum	1	1	--	--	--	--	<1	--	--	--	--
Nickel	1	14	--	--	--	--	14	--	--	--	--
Selenium	2	<2	--	--	--	--	<2	--	--	--	--
Tin	1	<1	--	--	--	--	<1	--	--	--	--
Zinc	5	<5	42	20	30	18	29	12	15	16	33

Results expressed in mg/kg dry weight unless otherwise specified

Comments: - # Percent recovery not available due to significant background levels of analyte in sample.

E022.2: 0.5g digested in nitric/hydrochloric acid. Analysis by ICP-MS.

Laboratory Report No: E035990
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Laboratory Identification		138282	138286	138291	138295	138208d	138208r	138231d	138231r	138245d	138245r
Sample Identification		TP19	TP20	TP21	TP22	QC	QC	QC	QC	QC	QC
Depth (m)		0.05-0.15	0.05-0.15	0.05-0.15	0.4-0.5	--	--	--	--	--	--
Sampling Date recorded on COC		21/1/08	21/1/08	21/1/08	21/1/08	--	--	--	--	--	--
Laboratory Extraction (Preparation) Date		30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	--	30/1/08	--	30/1/08	--
Laboratory Analysis Date		31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	--	31/1/08	--	31/1/08	--
Method : E022.2											
Acid extractable metals		EQL									
Arsenic	1	2	<1	2	3	1	0%	2	0%	4	22%
Beryllium	1	<1	--	<1	1	<1	--	<1	--	2	67%
Boron	5	<5	--	<5	13	<5	--	7	33%	<5	--
Cadmium	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	--	0.1	>0%	0.1	67%
Chromium	1	21	7	17	36	10	0%	23	19%	46	9%
Cobalt	1	--	1	--	--	--	--	--	--	--	--
Copper	2	14	3	11	21	4	22%	12	9%	36	6%
Lead	2	10	3	8	9	7	0%	13	17%	22	0%
Manganese	5	220	--	149	553	91	4%	208	8%	285	4%
Molybdenum	1	--	<1	--	--	--	--	--	--	--	--
Nickel	1	--	2	--	--	--	--	--	--	--	--
Selenium	2	--	<2	--	--	--	--	--	--	--	--
Tin	1	--	<1	--	--	--	--	--	--	--	--
Zinc	5	15	8	17	25	9	11%	17	6%	38	0%

Results expressed in mg/kg dry weight unless otherwise specified

Comments: - # Percent recovery not available due to significant background levels of analyte in sample.

E022.2: 0.5g digested in nitric/hydrochloric acid. Analysis by ICP-MS.

Laboratory Report No: E035990
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Laboratory Identification		138218s	138239s	crm	lcs	mb				
Sample Identification		QC	QC	QC	QC	QC				
Depth (m)		--	--	--	--	--				
Sampling Date recorded on COC		--	--	--	--	--				
Laboratory Extraction (Preparation) Date		30/1/08	30/1/08	30/1/08	30/1/08	30/1/08				
Laboratory Analysis Date		31/1/08	31/1/08	30/1/08	30/1/08	30/1/08				
Method : E022.2										
Acid extractable metals		EQL								
Arsenic	1	81%	94%	81%	83%	<1				
Beryllium	1	82%	94%	94%	100%	<1				
Boron	5	73%	78%	--	84%	<5				
Cadmium	0.1	92%	102%	88%	99%	<0.1				
Chromium	1	92%	142%	83%	95%	<1				
Cobalt	1	--	--	77%	88%	<1				
Copper	2	77%	114%	83%	87%	<2				
Lead	2	91%	108%	93%	101%	<2				
Manganese	5	#	#	83%	92%	<5				
Molybdenum	1	--	--	79%	87%	<1				
Nickel	1	--	--	75%	85%	<1				
Selenium	2	--	--	96%	93%	<2				
Tin	1	--	--	80%	91%	<1				
Zinc	5	94%	141%	85%	99%	<5				

Results expressed in mg/kg dry weight unless otherwise specified

Comments: - # Percent recovery not available due to significant background levels of analyte in sample.

E022.2: 0.5g digested in nitric/hydrochloric acid. Analysis by ICP-MS.

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Laboratory Identification		138208	138212	138213	138218	138222	138225	138231	138234	138239	138245
Sample Identification		TP1	TP2	QC1	TP3	TP4	TP5	TP6	TP7	TP8	TP9
Depth (m)		0.05-0.15	0.05-0.15	--	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15
Sampling Date recorded on COC		18/1/08	18/1/08	18/1/08	18/1/08	18/1/08	18/1/08	18/1/08	18/1/08	21/1/08	21/1/08
Laboratory Extraction (Preparation) Date		25/1/08	25/1/08	25/1/08	25/1/08	25/1/08	25/1/08	25/1/08	25/1/08	25/1/08	25/1/08
Laboratory Analysis Date		25/1/08	25/1/08	25/1/08	25/1/08	25/1/08	25/1/08	25/1/08	25/1/08	25/1/08	25/1/08
Method : E018.2											
pH in soil	EQL										
pH (pH units)	0.1	6.1	6.8	6.7	6.3	5.8	6.6	6.5	6.7	6.5	6.4

Results expressed in pH units unless otherwise specified

Comments:

E018.2: 1:5 soil leachate. Followed by measurement by pH ion selective electrode. Results expressed as per leachate.

Laboratory Identification		138248	138251	138255	138259	138263	138267	138270	138271	138275	138278
Sample Identification		TP10	TP11	TP12	TP13	TP14	TP15	TP16	QC9	TP17	TP18
Depth (m)		0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	--	0.05-0.15	0.05-0.15
Sampling Date recorded on COC		21/1/08	21/1/08	21/1/08	21/1/08	21/1/08	21/1/08	21/1/08	21/1/08	21/1/08	21/1/08
Laboratory Extraction (Preparation) Date		25/1/08	25/1/08	25/1/08	25/1/08	25/1/08	25/1/08	25/1/08	25/1/08	25/1/08	25/1/08
Laboratory Analysis Date		25/1/08	25/1/08	25/1/08	25/1/08	25/1/08	25/1/08	25/1/08	25/1/08	25/1/08	25/1/08
Method : E018.2											
pH in soil	EQL										
pH (pH units)	0.1	6.8	6.4	6.5	6.5	6.3	6.3	8.6	8.6	10.0	6.4

Results expressed in pH units unless otherwise specified

Comments:

E018.2: 1:5 soil leachate. Followed by measurement by pH ion selective electrode. Results expressed as per leachate.

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Laboratory Identification		138282	138286	138291	138295	138208d	138208r	138239d	138239r	138275d	138275r
Sample Identification		TP19	TP20	TP21	TP22	QC	QC	QC	QC	QC	QC
Depth (m)		0.05-0.15	0.05-0.15	0.05-0.15	0.4-0.5	--	--	--	--	--	--
Sampling Date recorded on COC		21/1/08	21/1/08	21/1/08	21/1/08	--	--	--	--	--	--
Laboratory Extraction (Preparation) Date		25/1/08	25/1/08	25/1/08	25/1/08	25/1/08	--	25/1/08	--	25/1/08	--
Laboratory Analysis Date		25/1/08	25/1/08	25/1/08	25/1/08	25/1/08	--	25/1/08	--	25/1/08	--
Method : E018.2											
pH in soil	EQL										
pH (pH units)	0.1	7.8	6.9	6.4	8.9	6.1	0%	6.5	0%	10.0	0%

Results expressed in pH units unless otherwise specified

Comments:

E018.2: 1:5 soil leachate. Followed by measurement by pH ion selective electrode. Results expressed as per leachate.

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Laboratory Identification		138208	138212	138213	138218	138222	138225	138231	138234	138239	138245
Sample Identification		TP1	TP2	QC1	TP3	TP4	TP5	TP6	TP7	TP8	TP9
Depth (m)		0.05-0.15	0.05-0.15	--	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15
Sampling Date recorded on COC		18/1/08	18/1/08	18/1/08	18/1/08	18/1/08	18/1/08	18/1/08	18/1/08	21/1/08	21/1/08
Laboratory Extraction (Preparation) Date		30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08
Laboratory Analysis Date		31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08
Method : E020.2/E030.2 Acid extractable metals Sulphur	EQL 100	100	100	100	300	200	100	200	<100	300	400

Results expressed in mg/kg dry weight unless otherwise specified

Comments: -

E020.2/E030.2: 0.5g digested with nitric/hydrochloric acid . Analysis by AAS and/or ICP-OES.

Laboratory Identification		138248	138251	138255	138259	138263	138267	138270	138271	138275	138278
Sample Identification		TP10	TP11	TP12	TP13	TP14	TP15	TP16	QC9	TP17	TP18
Depth (m)		0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	--	0.05-0.15	0.05-0.15
Sampling Date recorded on COC		21/1/08	21/1/08	21/1/08	21/1/08	21/1/08	21/1/08	21/1/08	21/1/08	21/1/08	21/1/08
Laboratory Extraction (Preparation) Date		30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08
Laboratory Analysis Date		31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08
Method : E020.2/E030.2 Acid extractable metals Sulphur	EQL 100	200	400	200	200	200	400	100	100	100	300

Results expressed in mg/kg dry weight unless otherwise specified

Comments: -

E020.2/E030.2: 0.5g digested with nitric/hydrochloric acid . Analysis by AAS and/or ICP-OES.

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Laboratory Identification		138282	138286	138291	138295	138208d	138208r	138231d	138231r	138245d	138245r
Sample Identification		TP19	TP20	TP21	TP22	QC	QC	QC	QC	QC	QC
Depth (m)		0.05-0.15	0.05-0.15	0.05-0.15	0.4-0.5	--	--	--	--	--	--
Sampling Date recorded on COC		21/1/08	21/1/08	21/1/08	21/1/08	--	--	--	--	--	--
Laboratory Extraction (Preparation) Date		30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	--	30/1/08	--	30/1/08	--
Laboratory Analysis Date		31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	--	31/1/08	--	31/1/08	--
Method : E020.2/E030.2											
Acid extractable metals											
Sulphur	EQL 100	200	100	200	200	100	0%	200	0%	300	29%

Results expressed in mg/kg dry weight unless otherwise specified

Comments: -

E020.2/E030.2: 0.5g digested with nitric/hydrochloric acid . Analysis by AAS and/or ICP-OES.

Laboratory Identification		138218s	138239s	crm	lcs	mb					
Sample Identification		QC	QC	QC	QC	QC					
Depth (m)		--	--	--	--	--					
Sampling Date recorded on COC		--	--	--	--	--					
Laboratory Extraction (Preparation) Date		30/1/08	30/1/08	30/1/08	30/1/08	30/1/08					
Laboratory Analysis Date		31/1/08	31/1/08	31/1/08	31/1/08	31/1/08					
Method : E020.2/E030.2											
Acid extractable metals											
Sulphur	EQL 100	98%	116%	97%	111%	<100					

Results expressed in mg/kg dry weight unless otherwise specified

Comments: -

E020.2/E030.2: 0.5g digested with nitric/hydrochloric acid . Analysis by AAS and/or ICP-OES.

Laboratory Identification		138208	138212	138213	138218	138222	138231	138234	138239	138245	138251
Sample Identification		TP1	TP2	QC1	TP3	TP4	TP6	TP7	TP8	TP9	TP11
Depth (m)		0.05-0.15	0.05-0.15	--	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15
Sampling Date recorded on COC		18/1/08	18/1/08	18/1/08	18/1/08	18/1/08	18/1/08	18/1/08	21/1/08	21/1/08	21/1/08
Laboratory Extraction (Preparation) Date		30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08
Laboratory Analysis Date		1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	1/2/08
Method : E043.2/E057.2											
Speciated Chromium		EQL									
Hexavalent Chromium		1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trivalent Chromium		1	9	13	16	34	15	13	25	9	28

Results expressed in mg/kg dry weight unless otherwise specified

Comments: ## Percent recovery not available due to interference from the sample.

E043.2/E057.2: Alkaline digestion followed by determination by colour.

Laboratory Identification		138255	138259	138263	138270	138271	138275	138278	138282	138291	138295
Sample Identification		TP12	TP13	TP14	TP16	QC9	TP17	TP18	TP19	TP21	TP22
Depth (m)		0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	--	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.4-0.5
Sampling Date recorded on COC		21/1/08	21/1/08	21/1/08	21/1/08	21/1/08	21/1/08	21/1/08	21/1/08	21/1/08	21/1/08
Laboratory Extraction (Preparation) Date		30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08
Laboratory Analysis Date		1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	1/2/08
Method : E043.2/E057.2											
Speciated Chromium		EQL									
Hexavalent Chromium		1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trivalent Chromium		1	18	52	37	35	20	43	42	17	19

Results expressed in mg/kg dry weight unless otherwise specified

Comments: ## Percent recovery not available due to interference from the sample.

E043.2/E057.2: Alkaline digestion followed by determination by colour.

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Laboratory Identification		138208d	138208r	138231d	138231r	138245d	138245r	138218s	138239s	lcs	mb
Sample Identification		QC	QC	QC	QC	QC	QC	QC	QC	QC	QC
Depth (m)		--	--	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		--	--	--	--	--	--	--	--	--	--
Laboratory Extraction (Preparation) Date		30/1/08	--	30/1/08	--	30/1/08	--	30/1/08	30/1/08	30/1/08	30/1/08
Laboratory Analysis Date		1/2/08	--	1/2/08	--	1/2/08	--	1/2/08	1/2/08	1/2/08	1/2/08
Method : E043.2/E057.2											
Speciated Chromium		EQL									
Hexavalent Chromium	1	<1	--	<1	--	<1	--	--	##	94%	<1
Trivalent Chromium	1	9	0%	16	21%	30	7%	1%	--	--	--

Results expressed in mg/kg dry weight unless otherwise specified

Comments: ## Percent recovery not available due to interference from the sample.

E043.2/E057.2: Alkaline digestion followed by determination by colour.

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Laboratory Identification		138225	138248	138267	138286	lcs	mb				
Sample Identification		TP5	TP10	TP15	TP20	QC	QC				
Depth (m)		0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	--	--				
Sampling Date recorded on COC		18/1/08	21/1/08	21/1/08	21/1/08	--	--				
Laboratory Extraction (Preparation) Date		25/1/08	25/1/08	25/1/08	25/1/08	25/1/08	25/1/08				
Laboratory Analysis Date		29/1/08	29/1/08	29/1/08	29/1/08	29/1/08	29/1/08				
Method : E034.2/E045.2											
Fluoride	EQL										
Fluoride	1	3	6	1	<1	95%	<1				

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E034.2/E045.2: 1:5 water extraction. Determined by FIA-Ion Selective Electrode and/or by Ion Chromatography.

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Laboratory Identification		138208	138212	138213	138218	138222	138225	138231	138234	138239	138245
Sample Identification		TP1	TP2	QC1	TP3	TP4	TP5	TP6	TP7	TP8	TP9
Depth (m)		0.05-0.15	0.05-0.15	--	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15
Sampling Date recorded on COC		18/1/08	18/1/08	18/1/08	18/1/08	18/1/08	18/1/08	18/1/08	18/1/08	21/1/08	21/1/08
Laboratory Extraction (Preparation) Date		25/1/08	25/1/08	25/1/08	25/1/08	25/1/08	25/1/08	25/1/08	25/1/08	25/1/08	25/1/08
Laboratory Analysis Date		29/1/08	29/1/08	29/1/08	29/1/08	29/1/08	29/1/08	29/1/08	29/1/08	29/1/08	29/1/08
Method : E042.2/E045.2											
Sulphate/Sulphite	EQL										
Sulphate	10	20	30	20	40	20	20	20	<10	20	30

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E042.2/E045.2: 1:5 water extraction. Determination by colour and/or Ion Chromatography. Note Sulphite test is not covered by NATA accreditation.

Laboratory Identification		138248	138251	138255	138259	138263	138267	138270	138271	138275	138278
Sample Identification		TP10	TP11	TP12	TP13	TP14	TP15	TP16	QC9	TP17	TP18
Depth (m)		0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	--	0.05-0.15	0.05-0.15
Sampling Date recorded on COC		21/1/08	21/1/08	21/1/08	21/1/08	21/1/08	21/1/08	21/1/08	21/1/08	21/1/08	21/1/08
Laboratory Extraction (Preparation) Date		25/1/08	25/1/08	25/1/08	25/1/08	25/1/08	25/1/08	25/1/08	25/1/08	25/1/08	25/1/08
Laboratory Analysis Date		29/1/08	29/1/08	29/1/08	29/1/08	29/1/08	29/1/08	29/1/08	29/1/08	29/1/08	29/1/08
Method : E042.2/E045.2											
Sulphate/Sulphite	EQL										
Sulphate	10	20	80	10	40	<10	20	<10	<10	20	50

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E042.2/E045.2: 1:5 water extraction. Determination by colour and/or Ion Chromatography. Note Sulphite test is not covered by NATA accreditation.

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Laboratory Identification		138282	138286	138291	138295	138208d	138208r	138239d	138239r	138275d	138275r
Sample Identification		TP19	TP20	TP21	TP22	QC	QC	QC	QC	QC	QC
Depth (m)		0.05-0.15	0.05-0.15	0.05-0.15	0.4-0.5	--	--	--	--	--	--
Sampling Date recorded on COC		21/1/08	21/1/08	21/1/08	21/1/08	--	--	--	--	--	--
Laboratory Extraction (Preparation) Date		25/1/08	25/1/08	25/1/08	25/1/08	25/1/08	--	25/1/08	--	25/1/08	--
Laboratory Analysis Date		29/1/08	29/1/08	29/1/08	29/1/08	29/1/08	--	29/1/08	--	29/1/08	--
Method : E042.2/E045.2											
Sulphate/Sulphite	EQL										
Sulphate	10	<10	<10	50	170	10	67%	20	0%	20	0%

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E042.2/E045.2: 1:5 water extraction. Determination by colour and/or Ion Chromatography. Note Sulphite test is not covered by NATA accreditation.

Laboratory Identification		138212s	138245s	lcs	mb						
Sample Identification		QC	QC	QC	QC						
Depth (m)		--	--	--	--						
Sampling Date recorded on COC		--	--	--	--						
Laboratory Extraction (Preparation) Date		25/1/08	25/1/08	25/1/08	25/1/08						
Laboratory Analysis Date		29/1/08	29/1/08	29/1/08	29/1/08						
Method : E042.2/E045.2											
Sulphate/Sulphite	EQL										
Sulphate	10	104%	99%	105%	<10						

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E042.2/E045.2: 1:5 water extraction. Determination by colour and/or Ion Chromatography. Note Sulphite test is not covered by NATA accreditation.

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Laboratory Identification		138225	138248	138267	138286	lcs	mb				
Sample Identification		TP5	TP10	TP15	TP20	QC	QC				
Depth (m)		0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	--	--				
Sampling Date recorded on COC		18/1/08	21/1/08	21/1/08	21/1/08	--	--				
Laboratory Extraction (Preparation) Date		30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08				
Laboratory Analysis Date		31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08				
Method : E040.2/E054.2											
Total Cyanide		EQL									
Total Cyanide		1	<1	<1	<1	<1	95%	<1			

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E040.2/E054.2: Caustic extract followed by strong acid distillation. Analysis by colour.

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Laboratory Identification		138208	138212	138218	138222	138225	138231	138234	138239	138245	138248
Sample Identification		TP1	TP2	TP3	TP4	TP5	TP6	TP7	TP8	TP9	TP10
Depth (m)		0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15
Sampling Date recorded on COC		18/1/08	18/1/08	18/1/08	18/1/08	18/1/08	18/1/08	18/1/08	21/1/08	21/1/08	21/1/08
Laboratory Extraction (Preparation) Date		30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08
Laboratory Analysis Date		11/2/08	11/2/08	11/2/08	11/2/08	11/2/08	11/2/08	11/2/08	11/2/08	11/2/08	11/2/08
Method : E024.2											
Phenoxy Acid Herbicides	EQL										
Dalapon	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Clopyralid	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o-Chlorophenoxy acid	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p-Chlorophenoxy acid	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dicamba	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MCPP	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MCPA	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorprop	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,4-D	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Triclopyr	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,4,5-TP (Silvex)	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MCPB	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,4,5-T	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluxopyr	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,4-DB	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3,4-DCPA (Surr @ 0.4 mg/kg)	--	68%	78%	114%	64%	84%	60%	82%	51%	67%	75%

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E024.2: 8-10g soil extracted with 20ml DCM/Acetone/Hexane (10:45:45) followed by methylation. Analysis by GC/MS.

Laboratory Identification		138251	138255	138259	138263	138267	138270	138275	138278	138282	138286
Sample Identification		TP11	TP12	TP13	TP14	TP15	TP16	TP17	TP18	TP19	TP20
Depth (m)		0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15
Sampling Date recorded on COC		21/1/08	21/1/08	21/1/08	21/1/08	21/1/08	21/1/08	21/1/08	21/1/08	21/1/08	21/1/08
Laboratory Extraction (Preparation) Date		30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08
Laboratory Analysis Date		11/2/08	11/2/08	11/2/08	14/2/08	11/2/08	11/2/08	11/2/08	11/2/08	11/2/08	12/2/08
Method : E024.2											
Phenoxy Acid Herbicides		EQL									
Dalapon	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Clopyralid	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o-Chlorophenoxy acid	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p-Chlorophenoxy acid	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dicamba	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MCPP	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MCPA	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorprop	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,4-D	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Triclopyr	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,4,5-TP (Silvex)	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MCPB	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,4,5-T	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluxopyr	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,4-DB	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3,4-DCPA (Surr @ 0.4 mg/kg)	--	55%	63%	51%	57%	52%	64%	85%	64%	59%	58%

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E024.2: 8-10g soil extracted with 20ml DCM/Acetone/Hexane (10:45:45) followed by methylation. Analysis by GC/MS.

Laboratory Identification		138291	138295	138208d	138208r	138231d	138231r	138245d	138245r	138218s	138239s
Sample Identification		TP21	TP22	QC	QC	QC	QC	QC	QC	QC	QC
Depth (m)		0.05-0.15	0.4-0.5	--	--	--	--	--	--	--	--
Sampling Date recorded on COC		21/1/08	21/1/08	--	--	--	--	--	--	--	--
Laboratory Extraction (Preparation) Date		30/1/08	30/1/08	30/1/08	--	30/1/08	--	30/1/08	--	30/1/08	30/1/08
Laboratory Analysis Date		12/2/08	12/2/08	11/2/08	--	11/2/08	--	11/2/08	--	14/2/08	14/2/08
Method : E024.2											
Phenoxy Acid Herbicides		EQL									
Dalapon	0.1	<0.1	<0.1	<0.1	--	<0.1	--	<0.1	--	23%	22%
Clopyralid	0.1	<0.1	<0.1	<0.1	--	<0.1	--	<0.1	--	63%	67%
o-Chlorophenoxy acid	0.1	<0.1	<0.1	<0.1	--	<0.1	--	<0.1	--	71%	79%
p-Chlorophenoxy acid	0.1	<0.1	<0.1	<0.1	--	<0.1	--	<0.1	--	66%	74%
Dicamba	0.1	<0.1	<0.1	<0.1	--	<0.1	--	<0.1	--	75%	73%
MCPP	0.1	<0.1	<0.1	<0.1	--	<0.1	--	<0.1	--	96%	83%
MCPA	0.1	<0.1	<0.1	<0.1	--	<0.1	--	<0.1	--	73%	74%
Dichlorprop	0.1	<0.1	<0.1	<0.1	--	<0.1	--	<0.1	--	77%	77%
2,4-D	0.1	<0.1	<0.1	<0.1	--	<0.1	--	<0.1	--	71%	72%
Triclopyr	0.1	<0.1	<0.1	<0.1	--	<0.1	--	<0.1	--	74%	81%
2,4,5-TP (Silvex)	0.1	<0.1	<0.1	<0.1	--	<0.1	--	<0.1	--	64%	73%
MCPB	0.1	<0.1	<0.1	<0.1	--	<0.1	--	<0.1	--	75%	85%
2,4,5-T	0.1	<0.1	<0.1	<0.1	--	<0.1	--	<0.1	--	64%	72%
Fluxopyr	0.1	<0.1	<0.1	<0.1	--	<0.1	--	<0.1	--	107%	72%
2,4-DB	0.1	<0.1	<0.1	<0.1	--	<0.1	--	<0.1	--	69%	84%
3,4-DCPA (Surr @ 0.4 mg/kg)	--	62%	66%	79%	15%	60%	0%	66%	2%	73%	88%

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E024.2: 8-10g soil extracted with 20ml DCM/Acetone/Hexane (10:45:45) followed by methylation. Analysis by GC/MS.

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Contact Name: April Freeman
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Laboratory Identification		lcs	mb							
Sample Identification		QC	QC							
Depth (m)		--	--							
Sampling Date recorded on COC		--	--							
Laboratory Extraction (Preparation) Date		30/1/08	30/1/08							
Laboratory Analysis Date		11/2/08	11/2/08							
Method : E024.2										
Phenoxy Acid Herbicides	EQL									
Dalapon	0.1	20%	<0.1							
Clopyralid	0.1	68%	<0.1							
o-Chlorophenoxy acid	0.1	75%	<0.1							
p-Chlorophenoxy acid	0.1	71%	<0.1							
Dicamba	0.1	81%	<0.1							
MCPP	0.1	78%	<0.1							
MCPA	0.1	75%	<0.1							
Dichlorprop	0.1	82%	<0.1							
2,4-D	0.1	74%	<0.1							
Triclopyr	0.1	72%	<0.1							
2,4,5-TP (Silvex)	0.1	83%	<0.1							
MCPB	0.1	82%	<0.1							
2,4,5-T	0.1	74%	<0.1							
Fluxopyr	0.1	45%	<0.1							
2,4-DB	0.1	82%	<0.1							
3,4-DCPA (Surr @ 0.4 mg/kg)	--	88%	86%							

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E024.2: 8-10g soil extracted with 20ml DCM/Acetone/Hexane (10:45:45) followed by methylation. Analysis by GC/MS.

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Contact Name: April Freeman
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Laboratory Identification		138208	138212	138213	138218	138222	138225	138231	138234	138239	138245
Sample Identification		TP1	TP2	QC1	TP3	TP4	TP5	TP6	TP7	TP8	TP9
Depth (m)		0.05-0.15	0.05-0.15	--	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15
Sampling Date recorded on COC		18/1/08	18/1/08	18/1/08	18/1/08	18/1/08	18/1/08	18/1/08	18/1/08	21/1/08	21/1/08
Laboratory Extraction (Preparation) Date		30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08
Laboratory Analysis Date		31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08
Method : E005.2											
Moisture	EQL										
Moisture	--	--	1	2	3	2	2	3	1	5	8

Results expressed in % w/w unless otherwise specified

Comments:

E005.2: Moisture by gravimetric analysis. Results are in % w/w.

Laboratory Identification		138248	138251	138255	138259	138263	138266	138267	138270	138271	138275
Sample Identification		TP10	TP11	TP12	TP13	TP14	TP14	TP15	TP16	QC9	TP17
Depth (m)		0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	1.9-2.0	0.05-0.15	0.05-0.15	--	0.05-0.15
Sampling Date recorded on COC		21/1/08	21/1/08	21/1/08	21/1/08	21/1/08	21/1/08	21/1/08	21/1/08	21/1/08	21/1/08
Laboratory Extraction (Preparation) Date		30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08
Laboratory Analysis Date		31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08
Method : E005.2											
Moisture	EQL										
Moisture	--	7	3	2	4	2	2	3	1	2	31

Results expressed in % w/w unless otherwise specified

Comments:

E005.2: Moisture by gravimetric analysis. Results are in % w/w.

Laboratory Report No: E035990
Client Name: Connell Wagner Pty Ltd (SA)
Contact Name: April Freeman
Client Reference: Buckland Park 31495

Page: 44 of 44
 plus cover page
Date: 15/02/08

Final
Certificate
 of Analysis

This report supercedes reports issued on: 05/02/08

Laboratory Identification		138278	138282	138286	138291	138295	138208d	138208r	138231d	138231r	138239d
Sample Identification		TP18	TP19	TP20	TP21	TP22	QC	QC	QC	QC	QC
Depth (m)		0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.4-0.5	--	--	--	--	--
Sampling Date recorded on COC		21/1/08	21/1/08	21/1/08	21/1/08	21/1/08	--	--	--	--	--
Laboratory Extraction (Preparation) Date		30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	30/1/08	--	30/1/08	--	30/1/08
Laboratory Analysis Date		31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	--	31/1/08	--	31/1/08
Method : E005.2											
Moisture	EQL										
Moisture	--	6	5	--	3	10	--	--	3	0%	5

Results expressed in % w/w unless otherwise specified

Comments:

E005.2: Moisture by gravimetric analysis. Results are in % w/w.

Laboratory Identification		138239r	138245d	138245r	138275d	138275r					
Sample Identification		QC	QC	QC	QC	QC					
Depth (m)		--	--	--	--	--					
Sampling Date recorded on COC		--	--	--	--	--					
Laboratory Extraction (Preparation) Date		--	30/1/08	--	30/1/08	--					
Laboratory Analysis Date		--	31/1/08	--	31/1/08	--					
Method : E005.2											
Moisture	EQL										
Moisture	--	0%	9	12%	31	0%					

Results expressed in % w/w unless otherwise specified

Comments:

E005.2: Moisture by gravimetric analysis. Results are in % w/w.



Report Date : 29/01/2008
Report Time : 3:19:38PM

Sample Receipt Notice (SRN) for E035990



Quality, Service, Support

Client Details		Laboratory Reference Information	
Client Name: Connell Wagner Pty Ltd (SA) Client Phone: 08 82379777 Client Fax: 08 82314765 Contact Name: April Freeman Contact Email: freemana@conwag.com Client Address: 55 Grenfell St. Adelaide SA 5000 Project Name: Buckland Park Project Number: 31495 CoC Serial Number: - Not provided - Purchase Order: - Not provided - Surcharge: No surcharge applied (results by 6:30pm on due date) Sample Matrix: SOIL		Please have this information ready when contacting Labmark.	
		Laboratory Report: E035990 Quotation Number: Q0218.EM Laboratory Address: Unit 1, 8 Leighton Pl. Asquith NSW 2077 Phone: 61 2 9476 6533 Fax: 61 2 9476 8219 Sample Receipt Contact: Jakleen El Galada Email: jakleen.galada@labmark.com.au Reporting Contact: Jyothi Lal Email: jyothi.lal@labmark.com.au	
Date Sampled (earliest date): 18/01/2008 Date Samples Received: 23/01/2008 Date Sample Receipt Notice issued: 29/01/2008 Date Preliminary Report Due: 05/02/2008		NATA Accreditation: 13542 TGA GMP License: 185-336 (Sydney) APVMA License: 6105 (Sydney) AQIS Approval: NO356 (Sydney) AQIS Entry Permit: 200521534 (Sydney)	

Reporting Requirements: Electronic Data Download required:No

Invoice Number: 30173

Sample Condition: COC received with samples. Report number and lab ID's defined on COC.
 Samples received in good order .
 Samples received with cooling media: Ice bricks .
 Samples received chilled.
 Security seals not used .
 Sample container & chemical preservation suitable .

Comments: SRN Reissued. Sample QC2 Forwarded to ALS.

Holding Times: Date received allows for sufficient time to meet Technical Holding Times.

Preservation: Chemical preservation of samples satisfactory for requested analytes.

Important Notes:

LabMark shall responsibly dispose of spent customer soil and water samples which includes the disintegration of the sample label. A sample disposal fee of \$1.00 is applicable on all samples received by the laboratory regardless of whether they have undergone analytical testing. Sample disposal of environmental samples shall be 31 days (water) and 3 months (soil, HN03 preserved samples) after laboratory receipt, unless otherwise requested in writing by the client. Samples requested to be held in non-refrigerated storage shall incur \$5.00/ sample/ 3 months. Additional refrigerated storage shall incur \$30/ sample/ 3 months. Combination prices apply only if requested. Transfer of report ownership from LabMark to the client shall occur once full and final payment has been settled and verified. All report copies may be retracted where full payment does not occur within the agreed settlement period.

Analysis comments:

Subcontracted Analyses:

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Sample
Receipt
Notice (SRN) for E035990



Quality, Service, Support

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GRID REVIEW TABLE				Requested Analysis																				
No.	Date	Depth	Client Sample ID	BTEX by P&T	Speciated Chromium	Fluoride	Acid extractable mercury	HOLD ON HOLD	Acid extractable metals	Acid extractable metals	MISSING	Moisture	Organochlorine Pesticides (OC)	Organophosphorus Pesticides (OP)	Polyaromatic Hydrocarbons (PAH)	pH in soil	Phenols by GC/MS	Phenoxy Acid Herbicides	PREP Not Reported	Sulphate/Sulphite	Total Cyanide	Petroleum Hydrocarbons (TPH)	Volatile Aromatic Compounds (VAC)	
138208	18/01	0.05-0.15	TP1	●	●		●		●	●		●	●	●	●	●		●	●	●		●		
138209	18/01	0.4-0.5	TP1					●																
138210	18/01	0.9-1.0	TP1					●																
138211	18/01	1.9-2.0	TP1					●																
138212	18/01	0.05-0.15	TP2	●	●		●		●	●		●	●	●	●	●		●	●	●		●		
138213	18/01		QC1		●		●		●	●		●	●	●		●			●	●				
138215	18/01	0.4-0.5	TP2					●																
138216	18/01	0.9-1.0	TP2					●																
138217	18/01	1.9-2.0	TP2					●																
138218	18/01	0.05-0.15	TP3	●	●		●		●	●		●	●	●	●	●		●	●	●		●		
138219	18/01	0.2-0.25	TP3					●																
138220	18/01	0.4-0.5	TP3					●																
138221	18/01	0.9-1.0	TP3					●																
138222	18/01	0.05-0.15	TP4	●	●		●		●	●		●	●	●	●	●		●	●	●		●		
138223	18/01		QC3					●																
138224	18/01	0.4-0.5	TP4					●																
138225	18/01	0.05-0.15	TP5			●	●		●	●		●	●		●	●	●	●	●	●	●	●	●	●
138226	18/01	0.2-0.25	TP5					●																
138227	18/01	0.4-0.5	TP5					●																
138228	18/01		QC4					●																
138229	18/01		QC5					●																
138230	18/01	0.9-1.0	TP5					●																
138231	18/01	0.05-0.15	TP6	●	●		●		●	●		●	●	●	●	●		●	●	●		●		
138232	18/01	0.4-0.5	TP6					●																
138233	18/01	0.9-1.0	TP6					●																
138234	18/01	0.05-0.15	TP7	●	●		●		●	●		●	●	●	●	●		●	●	●		●		
138235	18/01	0.4-0.5	TP7					●																
138236	18/01	0.9-1.0	TP7					●																
138237	18/01	1.9-2.0	TP7					●																
138238	18/01	0.9-1.0	TP4					●																
138239	18/01	0.05-0.15	TP8	●	●		●		●	●		●	●	●	●	●		●	●	●		●		
138240	18/01		QC6					●																

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Sample
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Quality, Service, Support

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GRID REVIEW TABLE				Requested Analysis																				
No.	Date	Depth	Client Sample ID	BTEX by P&T	Speciated Chromium	Fluoride	Acid extractable mercury	HOLD ON HOLD	Acid extractable metals	Acid extractable metals	MISSING	Moisture	Organochlorine Pesticides (OC)	Organophosphorus Pesticides (OP)	Polyaromatic Hydrocarbons (PAH)	pH in soil	Phenols by GC/MS	Phenoxy Acid Herbicides	PREP Not Reported	Sulphate/Sulphite	Total Cyanide	Petroleum Hydrocarbons (TPH)	Volatile Aromatic Compounds (VAC)	
138241	18/01		QC7					•																
138242	18/01	0.5-0.6	TP8					•																
138243	18/01	0.9-1.0	TP8					•																
138244	18/01	1.9-2.0	TP8					•																
138245	18/01	0.05-0.15	TP9	•	•		•		•	•		•	•	•	•	•		•	•	•			•	
138246	18/01	0.4-0.5	TP9					•																
138247	18/01	0.9-1.0	TP9					•																
138248	18/01	0.05-0.15	TP10			•	•		•	•		•	•		•	•	•	•	•	•	•	•	•	•
138249	18/01	0.4-0.5	TP10					•																
138250	18/01	0.9-1.0	TP10					•																
138251	18/01	0.05-0.15	TP11	•	•		•		•	•		•	•	•	•	•		•	•	•			•	
138252	18/01	0.4-0.5	TP11					•																
138253	18/01		QC8					•																
138254	18/01	0.9-1.0	TP11					•																
138255	18/01	0.05-0.15	TP12	•	•		•		•	•		•	•	•	•	•		•	•	•			•	
138256	18/01	0.4-0.5	TP12					•																
138257	18/01	0.9-1.0	TP12					•																
138258	18/01	1.9-2.0	TP12					•																
138259	18/01	0.05-0.15	TP13	•	•		•		•	•		•	•	•	•	•		•	•	•			•	
138260	18/01	0.4-0.5	TP13					•																
138261	18/01	0.9-1.0	TP13					•																
138262	18/01	1.9-2.0	TP13					•																
138263	18/01	0.05-0.15	TP14	•	•		•		•	•		•	•	•	•	•		•	•	•			•	
138264	18/01	0.4-0.5	TP14								•													
138265	18/01	0.9-1.0	TP14					•																
138266	18/01	1.9-2.0	TP14									•			•					•				
138267	18/01	0.05-0.15	TP15			•	•		•	•		•	•		•	•	•	•	•	•	•	•	•	•
138268	18/01	0.4-0.5	TP15					•																
138269	18/01	0.9-1.0	TP15					•																
138270	18/01	0.05-0.15	TP16	•	•		•		•	•		•	•	•	•	•		•	•	•			•	
138271	18/01		QC9		•		•		•	•		•	•	•		•			•	•				
138272	18/01		QC10					•																

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Sample
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Quality, Service, Support

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GRID REVIEW TABLE				Requested Analysis																				
No.	Date	Depth	Client Sample ID	BTEX by P&T	Speciated Chromium	Fluoride	Acid extractable mercury	HOLD ON HOLD	Acid extractable metals	Acid extractable metals	MISSING	Moisture	Organochlorine Pesticides (OC)	Organophosphorus Pesticides (OP)	Polyaromatic Hydrocarbons (PAH)	pH in soil	Phenols by GC/MS	Phenoxy Acid Herbicides	PREP Not Reported	Sulphate/Sulphite	Total Cyanide	Petroleum Hydrocarbons (TPH)	Volatile Aromatic Compounds (VAC)	
138273	18/01	0.4-0.5	TP16					●																
138274	18/01	0.9-1.0	TP16					●																
138275	18/01	0.05-0.15	TP17	●	●		●		●	●		●	●	●	●	●		●	●	●	●		●	
138276	18/01	0.4-0.5	TP17					●																
138277	18/01	0.9-1.0	TP17					●																
138278	18/01	0.05-0.15	TP18	●	●		●		●	●		●	●	●	●	●		●	●	●	●		●	
138279	18/01	0.4-0.5	TP18					●																
138280	18/01	0.9-1.0	TP18					●																
138281	18/01	1.9-2.0	TP18								●													
138282	18/01	0.05-0.15	TP19	●	●		●		●	●		●	●	●	●	●		●	●	●	●		●	
138283	18/01	0.4-0.5	TP19					●																
138284	18/01	0.9-1.0	TP19					●																
138285	18/01	1.9-2.0	TP19					●																
138286	18/01	0.05-0.15	TP20			●	●		●	●		●	●		●	●	●	●	●	●	●	●	●	●
138287	18/01	0.4-0.5	TP20					●																
138288	18/01	0.9-1.0	TP20					●																
138289	18/01	1.9-2.0	TP20					●																
138290	18/01	2.8-2.9	TP20					●																
138291	18/01	0.05-0.15	TP21	●	●		●		●	●		●	●	●	●	●		●	●	●	●		●	
138292	18/01	0.4-0.5	TP21					●																
138293	18/01	0.9-1.0	TP21					●																
138294	18/01	0.05-0.15	TP22					●																
138295	18/01	0.4-0.5	TP22	●	●		●		●	●		●	●	●	●	●		●	●	●	●		●	
138296	18/01	0.9-1.0	TP22					●																
138514		0.4-0.5	TP14					●																
Totals:				18	20	4	24	62	24	24	2	25	24	20	23	24	4	22	25	24	4	22	4	

'PREP Not Reported' refers to an internal laboratory instruction - client confirmation of this parameter is not required.

Thank you for choosing Labmark to analyse your project samples.
Additional information on www.labmark.com.au



Report Date : 29/01/2008
 Report Time : 3:19:38PM

Sample
 Receipt
 Notice (SRN) for E035990



Quality, Service, Support

The table below represents LabMark's understanding and interpretation of the customer supplied sample COC request (refer to SRN comments section on first page for external subcontracting method details). Please confirm that your COC request has been entered correctly. Due to THT and TAT requirements, testing shall commence immediately as per this table, unless the customer intervenes with a correction prior to testing.

GRID REVIEW TABLE				Requested Analysis																		
No.	Date	Depth	Client Sample ID	Volatiles TPH by P&T (vTPH)																		
138208	18/01	0.05-0.15	TP1	●																		
138212	18/01	0.05-0.15	TP2	●																		
138213	18/01		QC1	●																		
138218	18/01	0.05-0.15	TP3	●																		
138222	18/01	0.05-0.15	TP4	●																		
138225	18/01	0.05-0.15	TP5	●																		
138231	18/01	0.05-0.15	TP6	●																		
138234	18/01	0.05-0.15	TP7	●																		
138239	18/01	0.05-0.15	TP8	●																		
138245	18/01	0.05-0.15	TP9	●																		
138248	18/01	0.05-0.15	TP10	●																		
138251	18/01	0.05-0.15	TP11	●																		
138255	18/01	0.05-0.15	TP12	●																		
138259	18/01	0.05-0.15	TP13	●																		
138263	18/01	0.05-0.15	TP14	●																		
138267	18/01	0.05-0.15	TP15	●																		
138270	18/01	0.05-0.15	TP16	●																		
138275	18/01	0.05-0.15	TP17	●																		
138278	18/01	0.05-0.15	TP18	●																		
138282	18/01	0.05-0.15	TP19	●																		
138286	18/01	0.05-0.15	TP20	●																		
138291	18/01	0.05-0.15	TP21	●																		
138295	18/01	0.4-0.5	TP22	●																		
			Totals:	23																		

'PREP Not Reported' refers to an internal laboratory instruction - client confirmation of this parameter is not required.

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Sample
Receipt
Notice (SRN) for E035990



Quality, Service, Support

Table with columns: No., Date, Depth, Client Sample ID, and Requested Analysis (IM12 - MET-T_S, HG-T_S Mercury, MET-AAS_S Sulphur, MET-T_S Arsenic, MET-T_S Beryllium, MET-T_S Boron, MET-T_S Cadmium, MET-T_S Chromium, MET-T_S Copper, MET-T_S Lead, MET-T_S Manganese, MET-T_S Zinc). Rows include sample IDs 138208 through 138295 and a Totals row.

Thank you for choosing Labmark to analyse your project samples.
Additional information on www.labmark.com.au

Accredited for compliance with ISO/IEC 17025. The results of tests, calibrations and/or measurements included in this document are traceable to Australian/national standards. NATA is a signatory to the APLAC mutual recognition arrangement for the mutual recognition of the equivalence of testing, calibration and inspection reports.

Quarantine Approved Premises criteria 5.1 for quarantine containment level 1 (QC1) facilities. Class five criteria cover premises utilised for research, analysis and testing of biological material, soil, animal, plant and human products.

CUSTOMER CENTRIC - ANALYTICAL CHEMISTS

FINAL CERTIFICATE OF ANALYSIS - ENVIRONMENTAL DIVISION

Laboratory Report No: E036019
Client Name: Connell Wagner Pty Ltd (SA)
Client Reference: Buckland Park
Contact Name: Matt Eygenraam
Chain of Custody No: na
Sample Matrix: SOIL

Cover Page 1 of 4
plus Sample Results

Date Received: 29/01/2008
Date Reported: 15/02/2008

This Final Certificate of Analysis consists of sample results, DQI's, method descriptions, laboratory definitions, and internationally recognised NATA accreditation and endorsement. The DQO compliance relates specifically to QA/QC results as performed as part of the sample analysis, and may provide an indication of sample result quality. Transfer of report ownership from Labmark to the client shall only occur once full & final payment has been settled and verified. All report copies may be retracted where full payment has not occurred within the agreed settlement period.

QUALITY ASSURANCE CRITERIA

Accuracy: matrix spike: 1 in first 5-20, then 1 every 20 samples
lcs, crm, method: 1 per analytical batch
surrogate spike: addition per target organic method

Precision: laboratory duplicate: 1 in first 5-10, then 1 every 10 samples
laboratory triplicate: re-extracted & reported when duplicate RPD values exceed acceptance criteria

Holding Times: soils, waters: Refer to LabMark Preservation & THT table
VOC's 14 days water / soil
VAC's 7 days water or 14 days acidified
VAC's 14 days soil
SVOC's 7 days water, 14 days soil
Pesticides 7 days water, 14 days soil
Metals 6 months general elements
Mercury 28 days

Confirmation: target organic analysis: GC/MS, or confirmatory column

Sensitivity: EQL: Typically 2-5 x Method Detection Limit (MDL)

RESULT ANNOTATION

Data Quality Objective s: matrix spike recovery p: pending bcs: batch specific lcs
Data Quality Indicator d: laboratory duplicate lcs: laboratory control sample bmb: batch specific mb
Estimated Quantitation Limit t: laboratory triplicate crm: certified reference material
not applicable r: RPD relative % difference mb: method blank

QUALITY CONTROL

GLOBAL ACCEPTANCE CRITERIA (GAC)

Accuracy: spike, lcs, crm general analytes 70% - 130% recovery
surrogate: phenol analytes 50% - 130% recovery
organophosphorous pesticide analytes 60% - 130% recovery
phenoxy acid herbicides, organotin 50% - 130% recovery

anion/cation bal: +/- 10% (0-3 meq/l),
+/- 5% (>3 meq/l)

Precision: method blank: not detected >95% of the reported EQL
duplicate lab 0-30% (>10xEQL), 0-75% (5-10xEQL)
RPD (metals): 0-100% (<5xEQL)
duplicate lab 0-50% (>10xEQL), 0-75% (5-10xEQL)
RPD: 0-100% (<5xEQL)

QUALITY CONTROL

ANALYTE SPECIFIC ACCEPTANCE CRITERIA (ASAC)

Accuracy: spike, lcs, crm analyte specific recovery data
surrogate: <3xsd of historical mean

Uncertainty: spike, lcs: measurement calculated from historical analyte specific control charts



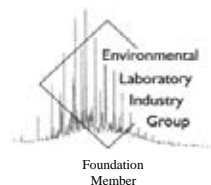
David Burns
Quality Control (Report signatory)
david.burns@labmark.com.au



Ivan Povolny
Authorising Chemist (NATA signatory)
ivan.povolny@labmark.com.au



Simon Mills
Authorising Chemist (NATA signatory)
simon.mills@labmark.com.au



Laboratory Report: E036019

Cover Page 2 of 4

NEPC GUIDELINE COMPLIANCE - DQO

1. GENERAL

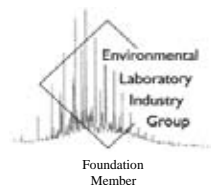
- A. Results relate specifically to samples as received. Sample results are not corrected for matrix spike, lcs, or surrogate recovery data.
- B. EQL's are matrix dependant and may be increased due to sample dilution or matrix interference.
- C. Laboratory QA/QC samples are specific to this project.
- D. Inter-laboratory proficiency results are available upon request. NATA accreditation details available at www.nata.asn.au.
- E. VOC spikes & surrogates added to samples during extraction, SVOC spikes & surrogates added prior to extraction.
- F. Recovery data outside GAC limits shall be investigated and compared to ASAC (historical mean +/- 3sd). If recovery data <20%, then the relevant results for that compound are considered not reliable.
- G. Recovery data (ms, surrogate, crm, lcs) outside ASAC limits shall initiate an investigative action. Anomalous QC data is examined in conjunction with other QC samples and a final decision whether to accept or reject results is provided by the professional judgement of the senior analyst. The USEPA-CLP National Functional Guidelines are referred to for specific recommendations.
- H. Extraction (preparation) date refers to the date that sample preparation was initiated. Note that certain methods not requiring sample preparation (eg. VOCs in water, etc) may report a common extraction and analysis date.
- I. LabMark shall maintain an official copy of this Certificate of Analysis for all traceable reference purposes.

2. CHAIN OF CUSTODY (COC) & SAMPLE RECEIPT NOTICE (SRN) REQUIREMENTS

- A. SRN issued to client upon sample receipt & login verification.
- B. Preservation & sampling date details specified on COC and SRN, unless noted.
- C. Sample Integrity & Validated Time of Sample Receipt (VTSR) Holding Times verified (preservation may extend holding time, refer to preservation chart).

3. NATA ACCREDITED METHODS

- A. NATA accreditation held for each in-house method and sample matrix type reported, unless noted below (Refer to subcontracted test reports for NATA accreditation status).
- B. NATA accredited in-house laboratory methods are referenced from NEPC, ASTM, modified USEPA / APHA documents. Corporate Accreditation No. 13542.
- C. Subcontracted analyses: Refer to Sample Receipt Notice and additional DQO comments.



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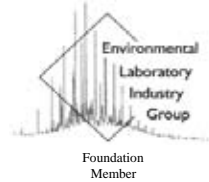
4. QA/QC FREQUENCY COMPLIANCE TABLE SPECIFIC TO THIS REPORT

Matrix: **SOIL**

Page:	Method:	Totals:	#d	%d-ratio	#t	#s	%s-ratio
1	BTEX by P&T	12	2	17%	0	1	8%
1	Volatile TPH by P&T (vTPH)	14	2	14%	0	1	7%
4	Petroleum Hydrocarbons (TPH)	15	2	13%	0	1	7%
7	Polyaromatic Hydrocarbons (PAH)	15	2	13%	0	1	7%
10	Phenols by GC/MS	2	0	0%	0	0	0%
11	Organochlorine Pesticides (OC)	17	2	12%	0	1	6%
14	Organophosphorus Pesticides (OP)	15	2	13%	0	1	7%
17	Acid extractable mercury	17	2	12%	0	1	6%
19	Volatile Aromatic Compounds (VAC)	2	0	0%	0	0	0%
21	Acid extractable metals	17	2	12%	0	1	6%
24	pH in soil	17	2	12%	0	0	0%
26	Acid extractable metals	17	2	12%	0	1	6%
28	Speciated Chromium	15	2	13%	0	1	7%
30	Fluoride	2	0	0%	0	0	0%
31	Sulphate/Sulphite	17	2	12%	0	1	6%
33	Total Cyanide	2	0	0%	0	0	0%
34	Phenoxy Acid Herbicides	15	2	13%	0	1	7%
37	Moisture	17	--	--	--	--	--

GLOSSARY:

#d	number of discrete duplicate extractions/analyses performed.
%d-ratio	NEPC guideline for laboratory duplicates is 1 in 10 samples (min 10%).
#t	number of triplicate extractions/analyses performed.
#s	number of spiked samples analysed.
%s-ratio	USEPA guideline for laboratory matrix spikes is 1 in 20 samples (min 5%).



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5. ADDITIONAL COMMENTS SPECIFIC TO THIS REPORT

- A. All tests were conducted by LabMark Environmental Sydney, NATA accreditation No. 13542, Corporate Site No. 13535, unless indicated below.
- B: Metals (soil) chromium recovery for sample 138658s at 139%, lcs recovery at 112%.
- C: Hexavalent Chromium recovery for matrix spike Lab # 138658s at 54%, corresponding LCS recovery is 96%.
- D. Phenoxy acid herbicides (soil) 3,4-DCPA surrogate recovery Lab #138698 is 56%, corresponding LCS recovery is 82%.
- E. Phenoxy acid herbicides (soil) dalapon recovery for matrix spike Lab #138658s is 26%, corresponding LCS recovery is 23%.
- F. Refer to LabMark historical control chart recovery range data. QA/QC (phenoxy acid herbicides) results reported within 3sd of the historical analyte specific mean results, and therefore considered acceptable for laboratory release.
- G. Analysis received with insufficient time to analyse within technical holding time for fluoride, ph and sulphate, refer to sample receipt notice.
- H. Metals (soil) Lab # 138689d reported RPD of 38% for chromium.

Laboratory QA/QC data shall relate specifically to this report, and may provide an indication of site specific sample result quality. LabMark DOES NOT report NON-RELEVANT BATCH QA/QC data. Acceptance of this self assessment certificate does not preclude any requirement for a QA/QC review by a accredited contaminated site EPA auditor, when and wherever necessary. Laboratory QA/QC self assessment references available upon request.

HISTORICAL CONTROL CHART DATA - QA/QC

Sydney

Analyte mean and standard deviation

PHOXY_S

For the period: 01/01/2007 12:00:00 AM to 31/12/2007 11:59:59 PM

SPIKES

<u>Analyte Name</u>	<u>n</u>	<u>Mean</u>	<u>1 SD</u>	<u>Range</u>	<u>2 SD</u>	<u>Range</u>	<u>3 SD</u>	<u>Range</u>
2,4,5-T	4	72	9	63 to 81	18	54 to 90	27	45 to 99
2,4,5-TP (Silvex)	4	81	14	67 to 95	28	53 to 109	42	39 to 123
2,4-D	4	75	3	72 to 78	6	69 to 81	9	66 to 84
2,4-DB	4	93	10	83 to 103	20	73 to 113	30	63 to 123
3,4-DCPA (Surr @ 0.4 mg/kg)	4	79	5	74 to 84	10	69 to 89	15	64 to 94
Clopyralid	4	82	15	67 to 97	30	52 to 112	45	37 to 127
Dalapon	4	33	8	25 to 41	16	17 to 49	24	9 to 57
Dicamba	4	87	17	70 to 104	34	53 to 121	51	36 to 138
Dichlorprop	4	84	19	65 to 103	38	46 to 122	57	27 to 141
Fluxopyr	3	76	6	70 to 82	12	64 to 88	18	58 to 94
MCPA	4	79	10	69 to 89	20	59 to 99	30	49 to 109
MCPB	4	89	10	79 to 99	20	69 to 109	30	59 to 119
MCPB	4	85	9	76 to 94	18	67 to 103	27	58 to 112
o-Chlorophenoxy acid	4	91	15	76 to 106	30	61 to 121	45	46 to 136
p-Chlorophenoxy acid	4	77	10	67 to 87	20	57 to 97	30	47 to 107
Triclopyr	4	80	14	66 to 94	28	52 to 108	42	38 to 122

LCS_S

<u>Analyte Name</u>	<u>n</u>	<u>Mean</u>	<u>1 SD</u>	<u>Range</u>	<u>2 SD</u>	<u>Range</u>	<u>3 SD</u>	<u>Range</u>
2,4,5-T	31	86	11	75 to 97	22	64 to 108	33	53 to 119
2,4,5-TP (Silvex)	31	91	12	79 to 103	24	67 to 115	36	55 to 127
2,4-D	31	86	11	75 to 97	22	64 to 108	33	53 to 119
2,4-DB	31	89	12	77 to 101	24	65 to 113	36	53 to 125
3,4-DCPA (Surr @ 0.4 mg/kg)	31	88	9	79 to 97	18	70 to 106	27	61 to 115
Clopyralid	31	75	15	60 to 90	30	45 to 105	45	30 to 120
Dalapon	29	33	14	19 to 47	28	5 to 61	42	0 to 75
Dicamba	31	88	13	75 to 101	26	62 to 114	39	49 to 127
Dichlorprop	31	90	11	79 to 101	22	68 to 112	33	57 to 123
Fluxopyr	31	73	12	61 to 85	24	49 to 97	36	37 to 109
MCPA	31	86	11	75 to 97	22	64 to 108	33	53 to 119
MCPB	31	88	12	76 to 100	24	64 to 112	36	52 to 124
MCPB	31	86	10	76 to 96	20	66 to 106	30	56 to 116
o-Chlorophenoxy acid	31	82	11	71 to 93	22	60 to 104	33	49 to 115
p-Chlorophenoxy acid	31	80	12	68 to 92	24	56 to 104	36	44 to 116
Triclopyr	31	88	12	76 to 100	24	64 to 112	36	52 to 124

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Client Name: Connell Wagner Pty Ltd (SA)
Contact Name: Matt Eygenraam
Client Reference: Buckland Park 31495

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 of Analysis

This report supercedes reports issued on: 08/02/08

Laboratory Identification		138654	138658	138664	138667	138671	138674	138678	138682	138685	138689
Sample Identification		TP23	TP24	TP25	TP26	TP27	TP28	TP29	TP30	TP31	TP32
Depth (m)		0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15
Sampling Date recorded on COC		22/1/08	22/1/08	22/1/08	22/1/08	22/1/08	22/1/08	22/1/08	22/1/08	22/1/08	22/1/08
Laboratory Extraction (Preparation) Date		29/1/08	29/1/08	29/1/08	29/1/08	29/1/08	29/1/08	29/1/08	29/1/08	29/1/08	29/1/08
Laboratory Analysis Date		4/2/08	4/2/08	4/2/08	5/2/08	5/2/08	5/2/08	5/2/08	5/2/08	5/2/08	5/2/08
Method : E002.2											
BTEX by P&T		EQL									
Benzene	0.2	<0.2	<0.2	<0.2	<0.2	--	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5
meta- and para-Xylene	1	<1	<1	<1	<1	--	<1	<1	<1	<1	<1
ortho-Xylene	0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5
Total Xylene	--	--	--	--	--	--	--	--	--	--	--
CDFB (Surr @ 10mg/kg)	--	104%	96%	107%	106%	--	105%	106%	101%	103%	102%
Method : E003.2											
Volatile TPH by P&T (vTPH)		EQL									
C6 - C9 Fraction	10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E003.2: 8-10g soil extracted with 20ml methanol. Analysis by P&T/GC/FID.

E002.2: 8-10g soil extracted with 20ml methanol. Analysis by P&T/GC/PID/MSD.

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Client Name: Connell Wagner Pty Ltd (SA)
Contact Name: Matt Eygenraam
Client Reference: Buckland Park 31495

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Laboratory Identification		138693	138698	138702	138706	138654d	138654r	138689d	138689r	138658s	ics
Sample Identification		TP33	TP34	TP35	TP36	QC	QC	QC	QC	QC	QC
Depth (m)		0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	--	--	--	--	--	--
Sampling Date recorded on COC		22/1/08	23/1/08	23/1/08	23/1/08	--	--	--	--	--	--
Laboratory Extraction (Preparation) Date		29/1/08	1/2/08	1/2/08	1/2/08	29/1/08	--	29/1/08	--	29/1/08	29/1/08
Laboratory Analysis Date		5/2/08	5/2/08	5/2/08	5/2/08	4/2/08	--	5/2/08	--	4/2/08	29/1/08
Method : E002.2											
BTEX by P&T		EQL									
Benzene	0.2	<0.2	--	<0.2	<0.2	<0.2	--	<0.2	--	87%	71%
Toluene	0.5	<0.5	--	<0.5	<0.5	<0.5	--	<0.5	--	86%	82%
Ethylbenzene	0.5	<0.5	--	<0.5	<0.5	<0.5	--	<0.5	--	85%	83%
meta- and para-Xylene	1	<1	--	<1	<1	<1	--	<1	--	79%	84%
ortho-Xylene	0.5	<0.5	--	<0.5	<0.5	<0.5	--	<0.5	--	90%	86%
Total Xylene	--	--	--	--	--	--	--	--	--	--	--
<i>CDFB (Surr @ 10mg/kg)</i>	--	102%	--	105%	104%	107%	3%	104%	2%	97%	81%
Method : E003.2											
Volatile TPH by P&T (vTPH)		EQL									
C6 - C9 Fraction	10	<10	<10	<10	<10	<10	--	<10	--	82%	79%

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E003.2: 8-10g soil extracted with 20ml methanol. Analysis by P&T/GC/FID.

E002.2: 8-10g soil extracted with 20ml methanol. Analysis by P&T/GC/PID/MSD.

Laboratory Report No: E036019
Client Name: Connell Wagner Pty Ltd (SA)
Contact Name: Matt Eygenraam
Client Reference: Buckland Park 31495

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Laboratory Identification		lcs	mb	mb						
Sample Identification		QC	QC	QC						
Depth (m)		--	--	--						
Sampling Date recorded on COC		--	--	--						
Laboratory Extraction (Preparation) Date		1/2/08	29/1/08	1/2/08						
Laboratory Analysis Date		3/2/08	29/1/08	3/2/08						
Method : E002.2										
BTEX by P&T		EQL								
Benzene	0.2	101%	<0.2	<0.2						
Toluene	0.5	110%	<0.5	<0.5						
Ethylbenzene	0.5	111%	<0.5	<0.5						
meta- and para-Xylene	1	118%	<1	<1						
ortho-Xylene	0.5	118%	<0.5	<0.5						
Total Xylene	--	--	--	--						
<i>CDFB (Surr @ 10mg/kg)</i>	--	<i>121%</i>	<i>78%</i>	<i>108%</i>						
Method : E003.2										
Volatile TPH by P&T (vTPH)		EQL								
C6 - C9 Fraction	10	104%	<10	<10						

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E003.2: 8-10g soil extracted with 20ml methanol. Analysis by P&T/GC/FID.

E002.2: 8-10g soil extracted with 20ml methanol. Analysis by P&T/GC/PID/MSD.

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Contact Name: Matt Eygenraam
Client Reference: Buckland Park 31495

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Laboratory Identification		138654	138658	138664	138667	138671	138674	138678	138682	138685	138689
Sample Identification		TP23	TP24	TP25	TP26	TP27	TP28	TP29	TP30	TP31	TP32
Depth (m)		0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15
Sampling Date recorded on COC		22/1/08	22/1/08	22/1/08	22/1/08	22/1/08	22/1/08	22/1/08	22/1/08	22/1/08	22/1/08
Laboratory Extraction (Preparation) Date		31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08
Laboratory Analysis Date		1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	1/2/08
Method : E006.2											
Petroleum Hydrocarbons (TPH)		EQL									
C10 - C14 Fraction	50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
C15 - C28 Fraction	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
C29 - C36 Fraction	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Sum of TPH C10 - C36	--	--	--	--	--	--	--	--	--	--	--

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E006.2: 8-10g soil extracted with 20ml DCM/Acetone/Hexane (10:45:45). Analysis by GC/FID.

Laboratory Report No: E036019
Client Name: Connell Wagner Pty Ltd (SA)
Contact Name: Matt Eygenraam
Client Reference: Buckland Park 31495

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Laboratory Identification		138693	138698	138702	138706	138710	138654d	138654r	138689d	138689r	138658s
Sample Identification		TP33	TP34	TP35	TP36	TP37	QC	QC	QC	QC	QC
Depth (m)		0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	--	--	--	--	--
Sampling Date recorded on COC		22/1/08	23/1/08	23/1/08	23/1/08	23/1/08	--	--	--	--	--
Laboratory Extraction (Preparation) Date		31/1/08	1/2/08	1/2/08	1/2/08	1/2/08	31/1/08	--	31/1/08	--	31/1/08
Laboratory Analysis Date		1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	--	1/2/08	--	1/2/08
Method : E006.2											
Petroleum Hydrocarbons (TPH)		EQL									
C10 - C14 Fraction	50	<50	<50	<50	<50	<50	<50	--	<50	--	--
C15 - C28 Fraction	100	<100	<100	<100	<100	<100	<100	--	<100	--	99%
C29 - C36 Fraction	100	<100	<100	<100	<100	<100	<100	--	<100	--	--
Sum of TPH C10 - C36	--	--	--	--	--	--	--	--	--	--	--

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E006.2: 8-10g soil extracted with 20ml DCM/Acetone/Hexane (10:45:45). Analysis by GC/FID.

Laboratory Report No: E036019
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Contact Name: Matt Eygenraam
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Laboratory Identification		lcs	lcs	mb	mb						
Sample Identification		QC	QC	QC	QC						
Depth (m)		--	--	--	--						
Sampling Date recorded on COC		--	--	--	--						
Laboratory Extraction (Preparation) Date		31/1/08	1/2/08	31/1/08	1/2/08						
Laboratory Analysis Date		1/2/08	1/2/08	1/2/08	1/2/08						
Method : E006.2											
Petroleum Hydrocarbons (TPH)		EQL									
C10 - C14 Fraction	50	--	--	<50	<50						
C15 - C28 Fraction	100	93%	95%	<100	<100						
C29 - C36 Fraction	100	--	--	<100	<100						
Sum of TPH C10 - C36	--	--	--	--	--						

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E006.2: 8-10g soil extracted with 20ml DCM/Acetone/Hexane (10:45:45). Analysis by GC/FID.

Laboratory Identification		138654	138658	138664	138667	138671	138674	138678	138682	138685	138689
Sample Identification		TP23	TP24	TP25	TP26	TP27	TP28	TP29	TP30	TP31	TP32
Depth (m)		0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15
Sampling Date recorded on COC		22/1/08	22/1/08	22/1/08	22/1/08	22/1/08	22/1/08	22/1/08	22/1/08	22/1/08	22/1/08
Laboratory Extraction (Preparation) Date		31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08
Laboratory Analysis Date		2/2/08	2/2/08	2/2/08	2/2/08	2/2/08	2/2/08	2/2/08	2/2/08	2/2/08	2/2/08
Method : E007.2											
Polyaromatic Hydrocarbons (PAH)	EQL										
Naphthalene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthylene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Acenaphthene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fluorene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Phenanthrene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Anthracene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fluoranthene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pyrene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benz(a)anthracene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chrysene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(b)&(k)fluoranthene	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(a) pyrene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1,2,3-c,d)pyrene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dibenz(a,h)anthracene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(g,h,i)perylene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Sum of reported PAHs	--	--	--	--	--	--	--	--	--	--	--
2-FBP (Surr @ 5mg/kg)	--	109%	93%	111%	113%	101%	91%	109%	101%	89%	109%
TP-d14 (Surr @ 5mg/kg)	--	124%	101%	116%	119%	101%	93%	111%	100%	89%	113%

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E007.2: 8-10g soil extracted with 20ml DCM/Acetone/Hexane (10:45:45). Analysis by GC/MS.

Laboratory Identification		138693	138698	138702	138706	138710	138654d	138654r	138689d	138689r	138658s
Sample Identification		TP33	TP34	TP35	TP36	TP37	QC	QC	QC	QC	QC
Depth (m)		0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	--	--	--	--	--
Sampling Date recorded on COC		22/1/08	23/1/08	23/1/08	23/1/08	23/1/08	--	--	--	--	--
Laboratory Extraction (Preparation) Date		31/1/08	1/2/08	1/2/08	1/2/08	1/2/08	31/1/08	--	31/1/08	--	31/1/08
Laboratory Analysis Date		2/2/08	2/2/08	2/2/08	2/2/08	2/2/08	2/2/08	--	2/2/08	--	2/2/08
Method : E007.2											
Polyaromatic Hydrocarbons (PAH)		EQL									
Naphthalene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	--	95%
Acenaphthylene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	--	95%
Acenaphthene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	--	94%
Fluorene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	--	92%
Phenanthrene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	--	95%
Anthracene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	--	95%
Fluoranthene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	--	94%
Pyrene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	--	94%
Benz(a)anthracene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	--	92%
Chrysene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	--	95%
Benzo(b)&(k)fluoranthene	1	<1	<1	<1	<1	<1	<1	--	<1	--	91%
Benzo(a) pyrene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	--	93%
Indeno(1,2,3-c,d)pyrene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	--	93%
Dibenz(a,h)anthracene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	--	93%
Benzo(g,h,i)perylene	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	--	95%
Sum of reported PAHs	--	--	--	--	--	--	--	--	--	--	--
2-FBP (Surr @ 5mg/kg)	--	95%	102%	95%	103%	93%	100%	9%	102%	7%	94%
TP-d14 (Surr @ 5mg/kg)	--	96%	108%	96%	95%	91%	106%	16%	100%	12%	98%

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E007.2: 8-10g soil extracted with 20ml DCM/Acetone/Hexane (10:45:45). Analysis by GC/MS.

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Contact Name: Matt Eygenraam
Client Reference: Buckland Park 31495

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Laboratory Identification		lcs	lcs	mb	mb						
Sample Identification		QC	QC	QC	QC						
Depth (m)		--	--	--	--						
Sampling Date recorded on COC		--	--	--	--						
Laboratory Extraction (Preparation) Date		31/1/08	1/2/08	31/1/08	1/2/08						
Laboratory Analysis Date		1/2/08	1/2/08	1/2/08	1/2/08						
Method : E007.2											
Polyaromatic Hydrocarbons (PAH)	EQL										
Naphthalene	0.5	89%	95%	<0.5	<0.5						
Acenaphthylene	0.5	85%	93%	<0.5	<0.5						
Acenaphthene	0.5	88%	95%	<0.5	<0.5						
Fluorene	0.5	83%	94%	<0.5	<0.5						
Phenanthrene	0.5	88%	93%	<0.5	<0.5						
Anthracene	0.5	88%	95%	<0.5	<0.5						
Fluoranthene	0.5	86%	92%	<0.5	<0.5						
Pyrene	0.5	87%	96%	<0.5	<0.5						
Benz(a)anthracene	0.5	88%	93%	<0.5	<0.5						
Chrysene	0.5	87%	94%	<0.5	<0.5						
Benzo(b)&(k)fluoranthene	1	91%	94%	<1	<1						
Benzo(a) pyrene	0.5	86%	95%	<0.5	<0.5						
Indeno(1,2,3-c,d)pyrene	0.5	83%	92%	<0.5	<0.5						
Dibenz(a,h)anthracene	0.5	83%	92%	<0.5	<0.5						
Benzo(g,h,i)perylene	0.5	84%	95%	<0.5	<0.5						
Sum of reported PAHs	--	--	--	--	--						
2-FBP (Surr @ 5mg/kg)	--	96%	97%	102%	102%						
TP-d14 (Surr @ 5mg/kg)	--	100%	98%	108%	111%						

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E007.2: 8-10g soil extracted with 20ml DCM/Acetone/Hexane (10:45:45). Analysis by GC/MS.

Laboratory Report No: E036019
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Contact Name: Matt Eygenraam
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Laboratory Identification		138671	138698	lcs	lcs	mb	mb				
Sample Identification		TP27	TP34	QC	QC	QC	QC				
Depth (m)		0.05-0.15	0.05-0.15	--	--	--	--				
Sampling Date recorded on COC		22/1/08	23/1/08	--	--	--	--				
Laboratory Extraction (Preparation) Date		31/1/08	1/2/08	31/1/08	1/2/08	31/1/08	1/2/08				
Laboratory Analysis Date		2/2/08	2/2/08	1/2/08	1/2/08	1/2/08	1/2/08				
Method : E008.2											
Phenols by GC/MS		EQL									
Phenol	0.5	<0.5	<0.5	95%	101%	<0.5	<0.5				
2-chlorophenol	0.5	<0.5	<0.5	89%	98%	<0.5	<0.5				
2-methylphenol	0.5	<0.5	<0.5	100%	99%	<0.5	<0.5				
3-&4-methylphenol	1.0	<1.0	<1.0	86%	90%	<1.0	<1.0				
2-nitrophenol	0.5	<0.5	<0.5	86%	90%	<0.5	<0.5				
2,4-dimethylphenol	0.5	<0.5	<0.5	89%	98%	<0.5	<0.5				
2,4-dichlorophenol	0.5	<0.5	<0.5	72%	93%	<0.5	<0.5				
4-chloro-3-methylphenol	0.5	<0.5	<0.5	90%	108%	<0.5	<0.5				
2,4,6-trichlorophenol	0.5	<0.5	<0.5	87%	93%	<0.5	<0.5				
2,4,5-trichlorophenol	0.5	<0.5	<0.5	84%	84%	<0.5	<0.5				
Pentachlorophenol	1	<1	<1	86%	79%	<1	<1				
Sum of reported phenols	--	--	--	--	--	--	--				
2-FP (Surr @ 5mg/kg)	--	105%	101%	99%	101%	108%	112%				
Phenol-d5 (Surr @ 5mg/kg)	--	93%	75%	93%	91%	100%	104%				
2,4,6-TBP (Surr @ 5mg/kg)	--	106%	105%	107%	105%	113%	116%				

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E008.2: 8-10g soil extracted with 20ml DCM/Acetone/Hexane (10:45:45). Analysis by GC/MS.

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Contact Name: Matt Eygenraam
Client Reference: Buckland Park 31495

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Laboratory Identification		138654	138658	138664	138667	138671	138674	138675	138678	138682	138685
Sample Identification		TP23	TP24	TP25	TP26	TP27	TP28	QC13	TP29	TP30	TP31
Depth (m)		0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	--	0.05-0.15	0.05-0.15	0.05-0.15
Sampling Date recorded on COC		22/1/08	22/1/08	22/1/08	22/1/08	22/1/08	22/1/08	22/1/08	22/1/08	22/1/08	22/1/08
Laboratory Extraction (Preparation) Date		31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08
Laboratory Analysis Date		2/2/08	2/2/08	2/2/08	2/2/08	2/2/08	2/2/08	2/2/08	2/2/08	2/2/08	2/2/08
Method : E013.2											
Organochlorine Pesticides (OC)	EQL										
a-BHC	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Hexachlorobenzene	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
b-BHC	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
g-BHC (Lindane)	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
d-BHC	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor epoxide	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
trans-chlordane	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan I	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
cis-chlordane	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dieldrin	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
4,4-DDE	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan II	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
4,4-DDD	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan sulphate	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
4,4-DDT	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
DBC (Surr @ 0.2mg/kg)	--	115%	98%	99%	108%	99%	89%	98%	105%	99%	90%

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E013.2: 8-10g soil extracted with 20ml DCM/Acetone/Hexane (10:45:45). Analysis by GC/dual ECD.

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Client Name: Connell Wagner Pty Ltd (SA)
Contact Name: Matt Eygenraam
Client Reference: Buckland Park 31495

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Laboratory Identification		138689	138693	138694	138698	138702	138706	138710	138654d	138654r	138689d
Sample Identification		TP32	TP33	QC15	TP34	TP35	TP36	TP37	QC	QC	QC
Depth (m)		0.05-0.15	0.05-0.15	--	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	--	--	--
Sampling Date recorded on COC		22/1/08	22/1/08	22/1/08	23/1/08	23/1/08	23/1/08	23/1/08	--	--	--
Laboratory Extraction (Preparation) Date		31/1/08	31/1/08	31/1/08	1/2/08	1/2/08	1/2/08	1/2/08	31/1/08	--	31/1/08
Laboratory Analysis Date		2/2/08	2/2/08	2/2/08	2/2/08	2/2/08	2/2/08	2/2/08	2/2/08	--	2/2/08
Method : E013.2											
Organochlorine Pesticides (OC)		EQL									
a-BHC	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	--	<0.05
Hexachlorobenzene	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	--	<0.05
b-BHC	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	--	<0.05
g-BHC (Lindane)	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	--	<0.05
d-BHC	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	--	<0.05
Heptachlor	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	--	<0.05
Aldrin	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	--	<0.05
Heptachlor epoxide	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	--	<0.05
trans-chlordane	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	--	<0.05
Endosulfan I	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	--	<0.05
cis-chlordane	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	--	<0.05
Dieldrin	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	--	<0.05
4,4-DDE	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	--	<0.05
Endrin	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	--	<0.05
Endosulfan II	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	--	<0.05
4,4-DDD	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	--	<0.05
Endosulfan sulphate	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	--	<0.05
4,4-DDT	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	<0.2
Methoxychlor	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	--	<0.2
DBC (Surr @ 0.2mg/kg)	--	107%	95%	99%	99%	93%	94%	90%	106%	8%	98%

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E013.2: 8-10g soil extracted with 20ml DCM/Acetone/Hexane (10:45:45). Analysis by GC/dual ECD.

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Laboratory Identification		138689r	138658s	lcs	lcs	mb	mb				
Sample Identification		QC	QC	QC	QC	QC	QC				
Depth (m)		--	--	--	--	--	--				
Sampling Date recorded on COC		--	--	--	--	--	--				
Laboratory Extraction (Preparation) Date		--	31/1/08	31/1/08	1/2/08	31/1/08	1/2/08				
Laboratory Analysis Date		--	2/2/08	2/2/08	2/2/08	2/2/08	2/2/08				
Method : E013.2											
Organochlorine Pesticides (OC)	EQL										
a-BHC	0.05	--	94%	98%	90%	<0.05	<0.05				
Hexachlorobenzene	0.05	--	96%	100%	93%	<0.05	<0.05				
b-BHC	0.05	--	107%	103%	95%	<0.05	<0.05				
g-BHC (Lindane)	0.05	--	102%	101%	92%	<0.05	<0.05				
d-BHC	0.05	--	108%	104%	93%	<0.05	<0.05				
Heptachlor	0.05	--	105%	105%	95%	<0.05	<0.05				
Aldrin	0.05	--	104%	104%	94%	<0.05	<0.05				
Heptachlor epoxide	0.05	--	105%	109%	100%	<0.05	<0.05				
trans-chlordane	0.05	--	107%	107%	95%	<0.05	<0.05				
Endosulfan I	0.05	--	102%	106%	95%	<0.05	<0.05				
cis-chlordane	0.05	--	101%	106%	94%	<0.05	<0.05				
Dieldrin	0.05	--	107%	108%	96%	<0.05	<0.05				
4,4-DDE	0.05	--	112%	113%	100%	<0.05	<0.05				
Endrin	0.05	--	108%	106%	94%	<0.05	<0.05				
Endosulfan II	0.05	--	106%	106%	94%	<0.05	<0.05				
4,4-DDD	0.05	--	113%	104%	92%	<0.05	<0.05				
Endosulfan sulphate	0.05	--	107%	107%	95%	<0.05	<0.05				
4,4-DDT	0.2	--	100%	102%	89%	<0.2	<0.2				
Methoxychlor	0.2	--	109%	109%	98%	<0.2	<0.2				
DBC (Surr @ 0.2mg/kg)	--	9%	98%	103%	103%	103%	103%				

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E013.2: 8-10g soil extracted with 20ml DCM/Acetone/Hexane (10:45:45). Analysis by GC/dual ECD.

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Contact Name: Matt Eygenraam
Client Reference: Buckland Park 31495

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Laboratory Identification		138654	138658	138664	138667	138674	138675	138678	138682	138685	138689
Sample Identification		TP23	TP24	TP25	TP26	TP28	QC13	TP29	TP30	TP31	TP32
Depth (m)		0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	--	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15
Sampling Date recorded on COC		22/1/08	22/1/08	22/1/08	22/1/08	22/1/08	22/1/08	22/1/08	22/1/08	22/1/08	22/1/08
Laboratory Extraction (Preparation) Date		31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08
Laboratory Analysis Date		2/2/08	2/2/08	2/2/08	2/2/08	2/2/08	2/2/08	2/2/08	2/2/08	2/2/08	2/2/08
Method : E014.2											
Organophosphorus Pesticides (OP)	EQL										
Dichlorvos	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Mevinphos (Phosdrin)	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Demeton (total)	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethoprop	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Monocrotophos	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Phorate	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Disulfoton	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Methyl parathion	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ronnel	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Malathion	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorpyrifos	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenthion	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Parathion	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Stirofos	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Prothiofos	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Azinophos methyl	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Coumaphos	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TPP (Surr @ 2mg/kg)	--	125%	106%	115%	115%	98%	104%	108%	104%	93%	114%

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E014.2: 8-10g soil extracted with 20ml DCM/Acetone/Hexane (10:45:45). Analysis by GC/MSD.

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Client Name: Connell Wagner Pty Ltd (SA)
Contact Name: Matt Eygenraam
Client Reference: Buckland Park 31495

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Laboratory Identification		138693	138694	138702	138706	138710	138654d	138654r	138689d	138689r	138658s
Sample Identification		TP33	QC15	TP35	TP36	TP37	QC	QC	QC	QC	QC
Depth (m)		0.05-0.15	--	0.05-0.15	0.05-0.15	0.05-0.15	--	--	--	--	--
Sampling Date recorded on COC		22/1/08	22/1/08	23/1/08	23/1/08	23/1/08	--	--	--	--	--
Laboratory Extraction (Preparation) Date		31/1/08	31/1/08	1/2/08	1/2/08	1/2/08	31/1/08	--	31/1/08	--	31/1/08
Laboratory Analysis Date		2/2/08	2/2/08	2/2/08	2/2/08	2/2/08	2/2/08	--	2/2/08	--	2/2/08
Method : E014.2											
Organophosphorus Pesticides (OP)		EQL									
Dichlorvos	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	--	129%
Mevinphos (Phosdrin)	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	--	96%
Demeton (total)	1	<1	<1	<1	<1	<1	<1	--	<1	--	126%
Ethoprop	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	--	117%
Monocrotophos	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	--	96%
Phorate	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	--	124%
Dimethoate	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	--	115%
Diazinon	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	--	116%
Disulfoton	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	--	127%
Methyl parathion	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	--	121%
Ronnel	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	--	121%
Fenitrothion	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	--	121%
Malathion	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	--	130%
Chlorpyrifos	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	--	121%
Fenthion	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	--	126%
Parathion	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	--	123%
Stirofos	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	--	116%
Prothiofos	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	--	125%
Azinophos methyl	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	--	116%
Coumaphos	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	<0.5	--	122%
TPP (Surr @ 2mg/kg)	--	100%	105%	99%	100%	93%	110%	13%	104%	9%	101%

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E014.2: 8-10g soil extracted with 20ml DCM/Acetone/Hexane (10:45:45). Analysis by GC/MSD.

Laboratory Identification		ics	ics	mb	mb						
Sample Identification		QC	QC	QC	QC						
Depth (m)		--	--	--	--						
Sampling Date recorded on COC		--	--	--	--						
Laboratory Extraction (Preparation) Date		31/1/08	1/2/08	31/1/08	1/2/08						
Laboratory Analysis Date		2/2/08	2/2/08	2/2/08	2/2/08						
Method : E014.2											
Organophosphorus Pesticides (OP)	EQL										
Dichlorvos	0.5	129%	124%	<0.5	<0.5						
Mevinphos (Phosdrin)	0.5	97%	96%	<0.5	<0.5						
Demeton (total)	1	124%	118%	<1	<1						
Ethoprop	0.5	116%	114%	<0.5	<0.5						
Monocrotophos	0.5	112%	107%	<0.5	<0.5						
Phorate	0.5	125%	123%	<0.5	<0.5						
Dimethoate	0.5	114%	106%	<0.5	<0.5						
Diazinon	0.5	115%	106%	<0.5	<0.5						
Disulfoton	0.5	127%	120%	<0.5	<0.5						
Methyl parathion	0.5	104%	100%	<0.5	<0.5						
Ronnel	0.5	119%	110%	<0.5	<0.5						
Fenitrothion	0.5	110%	104%	<0.5	<0.5						
Malathion	0.5	127%	121%	<0.5	<0.5						
Chlorpyrifos	0.5	116%	107%	<0.5	<0.5						
Fenthion	0.5	130%	128%	<0.5	<0.5						
Parathion	0.5	118%	113%	<0.5	<0.5						
Stirofos	0.5	108%	100%	<0.5	<0.5						
Prothiofos	0.5	120%	111%	<0.5	<0.5						
Azinophos methyl	0.5	102%	94%	<0.5	<0.5						
Coumaphos	0.5	115%	105%	<0.5	<0.5						
TPP (Surr @ 2mg/kg)	--	111%	96%	102%	109%						

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E014.2: 8-10g soil extracted with 20ml DCM/Acetone/Hexane (10:45:45). Analysis by GC/MSD.

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Client Name: Connell Wagner Pty Ltd (SA)
Contact Name: Matt Eygenraam
Client Reference: Buckland Park 31495

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Laboratory Identification		138654	138658	138664	138667	138671	138674	138675	138678	138682	138685
Sample Identification		TP23	TP24	TP25	TP26	TP27	TP28	QC13	TP29	TP30	TP31
Depth (m)		0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	--	0.05-0.15	0.05-0.15	0.05-0.15
Sampling Date recorded on COC		22/1/08	22/1/08	22/1/08	22/1/08	22/1/08	22/1/08	22/1/08	22/1/08	22/1/08	22/1/08
Laboratory Extraction (Preparation) Date		31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08
Laboratory Analysis Date		1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	1/2/08
Method : E026.2 Acid extractable mercury Mercury	EQL 0.05	<0.05	<0.05	0.08	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E026.2: 0.5g digested with nitric/hydrochloric acid. Analysis by CV-ICP-MS or FIMS.

Laboratory Identification		138689	138693	138694	138698	138702	138706	138710	138654d	138654r	138689d
Sample Identification		TP32	TP33	QC15	TP34	TP35	TP36	TP37	QC	QC	QC
Depth (m)		0.05-0.15	0.05-0.15	--	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	--	--	--
Sampling Date recorded on COC		22/1/08	22/1/08	22/1/08	23/1/08	23/1/08	23/1/08	23/1/08	--	--	--
Laboratory Extraction (Preparation) Date		31/1/08	31/1/08	31/1/08	1/2/08	1/2/08	1/2/08	1/2/08	31/1/08	--	31/1/08
Laboratory Analysis Date		1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	--	1/2/08
Method : E026.2 Acid extractable mercury Mercury	EQL 0.05	<0.05	<0.05	<0.05	0.08	<0.05	0.05	<0.05	<0.05	--	<0.05

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E026.2: 0.5g digested with nitric/hydrochloric acid. Analysis by CV-ICP-MS or FIMS.

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Client Name: Connell Wagner Pty Ltd (SA)
Contact Name: Matt Eygenraam
Client Reference: Buckland Park 31495

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Laboratory Identification		138689r	138658s	crm	crm	lcs	lcs	mb	mb		
Sample Identification		QC	QC	QC	QC	QC	QC	QC	QC		
Depth (m)		--	--	--	--	--	--	--	--		
Sampling Date recorded on COC		--	--	--	--	--	--	--	--		
Laboratory Extraction (Preparation) Date		--	31/1/08	31/1/08	1/2/08	31/1/08	1/2/08	31/1/08	1/2/08		
Laboratory Analysis Date		--	1/2/08	31/1/08	1/2/08	31/1/08	1/2/08	31/1/08	1/2/08		
Method : E026.2											
Acid extractable mercury	EQL										
Mercury	0.05	--	80%	123%	79%	94%	71%	<0.05	<0.05		

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E026.2: 0.5g digested with nitric/hydrochloric acid. Analysis by CV-ICP-MS or FIMS.

Laboratory Identification		138671	138698	lcs	lcs	mb	mb				
Sample Identification		TP27	TP34	QC	QC	QC	QC				
Depth (m)		0.05-0.15	0.05-0.15	--	--	--	--				
Sampling Date recorded on COC		22/1/08	23/1/08	--	--	--	--				
Laboratory Extraction (Preparation) Date		29/1/08	1/2/08	29/1/08	1/2/08	29/1/08	1/2/08				
Laboratory Analysis Date		5/2/08	5/2/08	1/2/08	2/2/08	31/1/08	2/2/08				
Method : E009.2											
Volatile Aromatic Compounds (VAC)		EQL									
Benzene	0.5	<0.5	<0.5	95%	87%	<0.5	<0.5				
Toluene	0.5	<0.5	<0.5	80%	87%	<0.5	<0.5				
Chlorobenzene	0.5	<0.5	<0.5	117%	86%	<0.5	<0.5				
Ethylbenzene	0.5	<0.5	<0.5	111%	87%	<0.5	<0.5				
m- & p-xylene	1	<1	<1	106%	88%	<1	<1				
Styrene	0.5	<0.5	<0.5	115%	86%	<0.5	<0.5				
o-xylene	0.5	<0.5	<0.5	110%	87%	<0.5	<0.5				
Isopropylbenzene	0.5	<0.5	<0.5	115%	86%	<0.5	<0.5				
Bromobenzene	0.5	<0.5	<0.5	112%	87%	<0.5	<0.5				
n-propylbenzene	0.5	<0.5	<0.5	114%	86%	<0.5	<0.5				
2-chlorotoluene	0.5	<0.5	<0.5	111%	86%	<0.5	<0.5				
4-chlorotoluene	0.5	<0.5	<0.5	113%	85%	<0.5	<0.5				
1,3,5-trimethylbenzene	0.5	<0.5	<0.5	114%	86%	<0.5	<0.5				
tert-butylbenzene	0.5	<0.5	<0.5	119%	86%	<0.5	<0.5				
1,2,4-trimethylbenzene	0.5	<0.5	<0.5	104%	87%	<0.5	<0.5				
sec-butylbenzene	0.5	<0.5	<0.5	122%	87%	<0.5	<0.5				
1,3-dichlorobenzene	0.5	<0.5	<0.5	110%	85%	<0.5	<0.5				
1,4-dichlorobenzene	0.5	<0.5	<0.5	112%	88%	<0.5	<0.5				
p-isopropyltoluene	0.5	<0.5	<0.5	121%	87%	<0.5	<0.5				
1,2-dichlorobenzene	0.5	<0.5	<0.5	110%	87%	<0.5	<0.5				
n-butylbenzene	0.5	<0.5	<0.5	127%	89%	<0.5	<0.5				
1,2,4-trichlorobenzene	0.5	<0.5	<0.5	128%	88%	<0.5	<0.5				
Naphthalene	0.5	<0.5	<0.5	98%	87%	<0.5	<0.5				
1,2,3-trichlorobenzene	0.5	<0.5	<0.5	127%	89%	<0.5	<0.5				
BCP (Surr @ 20mg/kg)	--	86%	86%	82%	86%	126%	115%				
DCFB (Surr @ 20mg/kg)	--	86%	87%	79%	85%	125%	112%				

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Contact Name: Matt Eygenraam
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Comments:

E009.2: 8-10g soil extracted with 20ml methanol. Analysis by P&T/GC/MS.

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Contact Name: Matt Eygenraam
Client Reference: Buckland Park 31495

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Laboratory Identification		138654	138658	138664	138667	138671	138674	138675	138678	138682	138685
Sample Identification		TP23	TP24	TP25	TP26	TP27	TP28	QC13	TP29	TP30	TP31
Depth (m)		0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	--	0.05-0.15	0.05-0.15	0.05-0.15
Sampling Date recorded on COC		22/1/08	22/1/08	22/1/08	22/1/08	22/1/08	22/1/08	22/1/08	22/1/08	22/1/08	22/1/08
Laboratory Extraction (Preparation) Date		31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08
Laboratory Analysis Date		1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	1/2/08
Method : E022.2											
Acid extractable metals		EQL									
Arsenic	1	1	3	5	2	1	1	1	11	3	1
Beryllium	1	<1	1	2	<1	--	<1	<1	<1	<1	<1
Boron	5	<5	5	14	6	--	<5	<5	16	5	<5
Cadmium	0.1	<0.1	0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chromium	1	6	31	53	9	7	10	9	22	11	14
Cobalt	1	--	--	--	--	2	--	--	--	--	--
Copper	2	3	18	32	4	3	4	4	8	4	6
Lead	2	3	13	20	6	4	5	4	10	6	6
Manganese	5	34	393	443	130	--	116	97	457	109	93
Molybdenum	1	--	--	--	--	<1	--	--	--	--	--
Nickel	1	--	--	--	--	2	--	--	--	--	--
Selenium	2	--	--	--	--	<2	--	--	--	--	--
Tin	1	--	--	--	--	<1	--	--	--	--	--
Zinc	5	10	34	53	13	6	8	11	14	10	10

Results expressed in mg/kg dry weight unless otherwise specified

Comments: - # Percent recovery not available due to significant background levels of analyte in sample.

E022.2: 0.5g digested in nitric/hydrochloric acid. Analysis by ICP-MS.

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Contact Name: Matt Eygenraam
Client Reference: Buckland Park 31495

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Laboratory Identification		138689	138693	138694	138698	138702	138706	138710	138654d	138654r	138689d
Sample Identification		TP32	TP33	QC15	TP34	TP35	TP36	TP37	QC	QC	QC
Depth (m)		0.05-0.15	0.05-0.15	--	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	--	--	--
Sampling Date recorded on COC		22/1/08	22/1/08	22/1/08	23/1/08	23/1/08	23/1/08	23/1/08	--	--	--
Laboratory Extraction (Preparation) Date		31/1/08	31/1/08	31/1/08	1/2/08	1/2/08	1/2/08	1/2/08	31/1/08	--	31/1/08
Laboratory Analysis Date		1/2/08	1/2/08	1/2/08	2/2/08	2/2/08	2/2/08	2/2/08	1/2/08	--	1/2/08
Method : E022.2											
Acid extractable metals		EQL									
Arsenic	1	2	2	2	3	3	3	3	<1	>0%	2
Beryllium	1	<1	<1	<1	--	1	1	<1	<1	--	<1
Boron	5	9	6	<5	--	5	7	<5	<5	--	5
Cadmium	0.1	<0.1	<0.1	<0.1	0.1	<0.1	0.1	<0.1	<0.1	--	<0.1
Chromium	1	19	12	12	25	34	30	19	5	18%	13
Cobalt	1	--	--	--	9	--	--	--	--	--	--
Copper	2	10	6	5	18	21	17	13	3	0%	7
Lead	2	7	6	6	12	13	13	15	3	0%	5
Manganese	5	183	71	66	--	347	285	604	33	3%	158
Molybdenum	1	--	--	--	<1	--	--	--	--	--	--
Nickel	1	--	--	--	13	--	--	--	--	--	--
Selenium	2	--	--	--	<2	--	--	--	--	--	--
Tin	1	--	--	--	<1	--	--	--	--	--	--
Zinc	5	13	10	9	16	20	18	12	10	0%	10

Results expressed in mg/kg dry weight unless otherwise specified

Comments: - # Percent recovery not available due to significant background levels of analyte in sample.

E022.2: 0.5g digested in nitric/hydrochloric acid. Analysis by ICP-MS.

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Laboratory Identification		138689r	138658s	crm	crm	lcs	lcs	mb	mb		
Sample Identification		QC	QC	QC	QC	QC	QC	QC	QC		
Depth (m)		--	--	--	--	--	--	--	--		
Sampling Date recorded on COC		--	--	--	--	--	--	--	--		
Laboratory Extraction (Preparation) Date		--	31/1/08	31/1/08	1/2/08	31/1/08	1/2/08	31/1/08	1/2/08		
Laboratory Analysis Date		--	1/2/08	31/1/08	2/2/08	31/1/08	2/2/08	31/1/08	2/2/08		
Method : E022.2											
Acid extractable metals		EQL									
Arsenic	1	0%	93%	105%	99%	104%	97%	<1	<1		
Beryllium	1	--	97%	96%	98%	94%	98%	<1	<1		
Boron	5	57%	109%	73%	72%	85%	104%	<5	<5		
Cadmium	0.1	--	96%	97%	89%	98%	98%	<0.1	<0.1		
Chromium	1	38%	139%	106%	98%	112%	99%	<1	<1		
Cobalt	1	--	--	104%	95%	102%	96%	<1	<1		
Copper	2	35%	108%	105%	97%	105%	99%	<2	<2		
Lead	2	33%	107%	96%	89%	107%	105%	<2	<2		
Manganese	5	15%	#	101%	94%	106%	95%	<5	<5		
Molybdenum	1	--	--	109%	104%	98%	95%	<1	<1		
Nickel	1	--	--	104%	98%	102%	95%	<1	<1		
Selenium	2	--	--	95%	85%	108%	99%	<2	<2		
Tin	1	--	--	70%	72%	105%	100%	<1	<1		
Zinc	5	26%	109%	98%	88%	100%	102%	<5	<5		

Results expressed in mg/kg dry weight unless otherwise specified

Comments: - # Percent recovery not available due to significant background levels of analyte in sample.

E022.2: 0.5g digested in nitric/hydrochloric acid. Analysis by ICP-MS.

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Laboratory Identification		138654	138658	138664	138667	138671	138674	138675	138678	138682	138685
Sample Identification		TP23	TP24	TP25	TP26	TP27	TP28	QC13	TP29	TP30	TP31
Depth (m)		0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	--	0.05-0.15	0.05-0.15	0.05-0.15
Sampling Date recorded on COC		22/1/08	22/1/08	22/1/08	22/1/08	22/1/08	22/1/08	22/1/08	22/1/08	22/1/08	22/1/08
Laboratory Extraction (Preparation) Date		31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08
Laboratory Analysis Date		31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08
Method : E018.2											
pH in soil	EQL										
pH (pH units)	0.1	6.2	6.7	6.8	7.9	6.8	8.8	8.8	7.7	6.1	6.5

Results expressed in pH units unless otherwise specified

Comments:

E018.2: 1:5 soil leachate. Followed by measurement by pH ion selective electrode. Results expressed as per leachate.

Laboratory Identification		138689	138693	138694	138698	138702	138706	138710	138654d	138654r	138689d
Sample Identification		TP32	TP33	QC15	TP34	TP35	TP36	TP37	QC	QC	QC
Depth (m)		0.05-0.15	0.05-0.15	--	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	--	--	--
Sampling Date recorded on COC		22/1/08	22/1/08	22/1/08	23/1/08	23/1/08	23/1/08	23/1/08	--	--	--
Laboratory Extraction (Preparation) Date		31/1/08	31/1/08	31/1/08	1/2/08	1/2/08	1/2/08	1/2/08	31/1/08	--	31/1/08
Laboratory Analysis Date		31/1/08	31/1/08	31/1/08	1/2/08	1/2/08	1/2/08	1/2/08	31/1/08	--	31/1/08
Method : E018.2											
pH in soil	EQL										
pH (pH units)	0.1	7.0	6.5	6.9	6.8	6.3	6.5	6.9	6.3	2%	7.1

Results expressed in pH units unless otherwise specified

Comments:

E018.2: 1:5 soil leachate. Followed by measurement by pH ion selective electrode. Results expressed as per leachate.

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Laboratory Identification		138689r									
Sample Identification		QC									
Depth (m)		--									
Sampling Date recorded on COC		--									
Laboratory Extraction (Preparation) Date		--									
Laboratory Analysis Date		--									
Method : E018.2											
pH in soil		EQL									
pH (pH units)		0.1	1%								

Results expressed in pH units unless otherwise specified

Comments:

E018.2: 1:5 soil leachate. Followed by measurement by pH ion selective electrode. Results expressed as per leachate.

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Laboratory Identification		138654	138658	138664	138667	138671	138674	138675	138678	138682	138685
Sample Identification		TP23	TP24	TP25	TP26	TP27	TP28	QC13	TP29	TP30	TP31
Depth (m)		0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	--	0.05-0.15	0.05-0.15	0.05-0.15
Sampling Date recorded on COC		22/1/08	22/1/08	22/1/08	22/1/08	22/1/08	22/1/08	22/1/08	22/1/08	22/1/08	22/1/08
Laboratory Extraction (Preparation) Date		31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08
Laboratory Analysis Date		31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08
Method : E020.2/E030.2 Acid extractable metals Sulphur	EQL 100	200	300	500	300	<100	100	100	200	100	100

Results expressed in mg/kg dry weight unless otherwise specified

Comments: -

E020.2/E030.2: 0.5g digested with nitric/hydrochloric acid . Analysis by AAS and/or ICP-OES.

Laboratory Identification		138689	138693	138694	138698	138702	138706	138710	138654d	138654r	138689d
Sample Identification		TP32	TP33	QC15	TP34	TP35	TP36	TP37	QC	QC	QC
Depth (m)		0.05-0.15	0.05-0.15	--	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	--	--	--
Sampling Date recorded on COC		22/1/08	22/1/08	22/1/08	23/1/08	23/1/08	23/1/08	23/1/08	--	--	--
Laboratory Extraction (Preparation) Date		31/1/08	31/1/08	31/1/08	1/2/08	1/2/08	1/2/08	1/2/08	31/1/08	--	31/1/08
Laboratory Analysis Date		31/1/08	31/1/08	31/1/08	1/2/08	1/2/08	1/2/08	1/2/08	31/1/08	--	31/1/08
Method : E020.2/E030.2 Acid extractable metals Sulphur	EQL 100	200	100	100	200	300	300	200	200	0%	200

Results expressed in mg/kg dry weight unless otherwise specified

Comments: -

E020.2/E030.2: 0.5g digested with nitric/hydrochloric acid . Analysis by AAS and/or ICP-OES.

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Laboratory Identification		138689r	138658s	crm	lcs	mb				
Sample Identification		QC	QC	QC	QC	QC				
Depth (m)		--	--	--	--	--				
Sampling Date recorded on COC		--	--	--	--	--				
Laboratory Extraction (Preparation) Date		--	31/1/08	31/1/08	31/1/08	31/1/08				
Laboratory Analysis Date		--	31/1/08	31/1/08	31/1/08	31/1/08				
Method : E020.2/E030.2										
Acid extractable metals	EQL									
Sulphur	100	0%	114%	98%	105%	<100				

Results expressed in mg/kg dry weight unless otherwise specified

Comments: -

E020.2/E030.2: 0.5g digested with nitric/hydrochloric acid . Analysis by AAS and/or ICP-OES.

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Laboratory Identification		138654	138658	138664	138667	138674	138675	138678	138682	138685	138689
Sample Identification		TP23	TP24	TP25	TP26	TP28	QC13	TP29	TP30	TP31	TP32
Depth (m)		0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	--	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15
Sampling Date recorded on COC		22/1/08	22/1/08	22/1/08	22/1/08	22/1/08	22/1/08	22/1/08	22/1/08	22/1/08	22/1/08
Laboratory Extraction (Preparation) Date		31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08
Laboratory Analysis Date		5/2/08	5/2/08	5/2/08	5/2/08	5/2/08	5/2/08	5/2/08	5/2/08	5/2/08	5/2/08
Method : E043.2/E057.2											
Speciated Chromium		EQL									
Hexavalent Chromium		1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trivalent Chromium		1	5	30	52	8	9	8	21	10	13

Results expressed in mg/kg dry weight unless otherwise specified

Comments: -

E043.2/E057.2: Alkaline digestion followed by determination by colour.

Laboratory Identification		138693	138694	138702	138706	138710	138654d	138654r	138689d	138689r	138658s
Sample Identification		TP33	QC15	TP35	TP36	TP37	QC	QC	QC	QC	QC
Depth (m)		0.05-0.15	--	0.05-0.15	0.05-0.15	0.05-0.15	--	--	--	--	--
Sampling Date recorded on COC		22/1/08	22/1/08	23/1/08	23/1/08	23/1/08	--	--	--	--	--
Laboratory Extraction (Preparation) Date		31/1/08	31/1/08	1/2/08	1/2/08	1/2/08	31/1/08	--	31/1/08	--	31/1/08
Laboratory Analysis Date		5/2/08	5/2/08	5/2/08	5/2/08	5/2/08	5/2/08	--	5/2/08	--	5/2/08
Method : E043.2/E057.2											
Speciated Chromium		EQL									
Hexavalent Chromium		1	<1	<1	<1	1	<1	--	<1	--	54%
Trivalent Chromium		1	11	11	33	29	18	4	22%	12	40%

Results expressed in mg/kg dry weight unless otherwise specified

Comments: -

E043.2/E057.2: Alkaline digestion followed by determination by colour.

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Laboratory Identification		ics	ics	mb	mb						
Sample Identification		QC	QC	QC	QC						
Depth (m)		--	--	--	--						
Sampling Date recorded on COC		--	--	--	--						
Laboratory Extraction (Preparation) Date		31/1/08	1/2/08	31/1/08	1/2/08						
Laboratory Analysis Date		5/2/08	5/2/08	5/2/08	5/2/08						
Method : E043.2/E057.2											
Speciated Chromium	EQL										
Hexavalent Chromium	1	96%	94%	<1	<1						

Results expressed in mg/kg dry weight unless otherwise specified

Comments: -

E043.2/E057.2: Alkaline digestion followed by determination by colour.

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Laboratory Identification		138671	138698	lcs	lcs	mb	mb				
Sample Identification		TP27	TP34	QC	QC	QC	QC				
Depth (m)		0.05-0.15	0.05-0.15	--	--	--	--				
Sampling Date recorded on COC		22/1/08	23/1/08	--	--	--	--				
Laboratory Extraction (Preparation) Date		31/1/08	1/2/08	31/1/08	1/2/08	31/1/08	1/2/08				
Laboratory Analysis Date		4/2/08	4/2/08	4/2/08	4/2/08	4/2/08	4/2/08				
Method : E034.2/E045.2											
Fluoride	EQL										
Fluoride	1	<1	3	89%	89%	<1	<1				

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E034.2/E045.2: 1:5 water extraction. Determined by FIA-Ion Selective Electrode and/or by Ion Chromatography.

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Laboratory Identification		138654	138658	138664	138667	138671	138674	138675	138678	138682	138685
Sample Identification		TP23	TP24	TP25	TP26	TP27	TP28	QC13	TP29	TP30	TP31
Depth (m)		0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	--	0.05-0.15	0.05-0.15	0.05-0.15
Sampling Date recorded on COC		22/1/08	22/1/08	22/1/08	22/1/08	22/1/08	22/1/08	22/1/08	22/1/08	22/1/08	22/1/08
Laboratory Extraction (Preparation) Date		31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08
Laboratory Analysis Date		4/2/08	4/2/08	4/2/08	4/2/08	4/2/08	4/2/08	4/2/08	4/2/08	4/2/08	4/2/08
Method : E042.2/E045.2											
Sulphate/Sulphite	EQL										
Sulphate	10	30	20	40	<10	<10	<10	<10	30	30	10

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E042.2/E045.2: 1:5 water extraction. Determination by colour and/or Ion Chromatography. Note Sulphite test is not covered by NATA accreditation.

Laboratory Identification		138689	138693	138694	138698	138702	138706	138710	138654d	138654r	138689d
Sample Identification		TP32	TP33	QC15	TP34	TP35	TP36	TP37	QC	QC	QC
Depth (m)		0.05-0.15	0.05-0.15	--	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	--	--	--
Sampling Date recorded on COC		22/1/08	22/1/08	22/1/08	23/1/08	23/1/08	23/1/08	23/1/08	--	--	--
Laboratory Extraction (Preparation) Date		31/1/08	31/1/08	31/1/08	1/2/08	1/2/08	1/2/08	1/2/08	31/1/08	--	31/1/08
Laboratory Analysis Date		4/2/08	4/2/08	4/2/08	4/2/08	4/2/08	4/2/08	4/2/08	4/2/08	--	4/2/08
Method : E042.2/E045.2											
Sulphate/Sulphite	EQL										
Sulphate	10	<10	30	40	20	350	140	30	20	40%	<10

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E042.2/E045.2: 1:5 water extraction. Determination by colour and/or Ion Chromatography. Note Sulphite test is not covered by NATA accreditation.

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Laboratory Identification		138689r	138658s	lcs	lcs	mb	mb				
Sample Identification		QC	QC	QC	QC	QC	QC				
Depth (m)		--	--	--	--	--	--				
Sampling Date recorded on COC		--	--	--	--	--	--				
Laboratory Extraction (Preparation) Date		--	31/1/08	31/1/08	1/2/08	31/1/08	1/2/08				
Laboratory Analysis Date		--	4/2/08	4/2/08	4/2/08	4/2/08	4/2/08				
Method : E042.2/E045.2											
Sulphate/Sulphite	EQL										
Sulphate	10	--	92%	95%	96%	<10	<10				

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E042.2/E045.2: 1:5 water extraction. Determination by colour and/or Ion Chromatography. Note Sulphite test is not covered by NATA accreditation.

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Laboratory Identification		138671	138698	lcs	lcs	mb	mb				
Sample Identification		TP27	TP34	QC	QC	QC	QC				
Depth (m)		0.05-0.15	0.05-0.15	--	--	--	--				
Sampling Date recorded on COC		22/1/08	23/1/08	--	--	--	--				
Laboratory Extraction (Preparation) Date		31/1/08	1/2/08	31/1/08	1/2/08	31/1/08	1/2/08				
Laboratory Analysis Date		4/2/08	4/2/08	4/2/08	4/2/08	4/2/08	4/2/08				
Method : E040.2/E054.2											
Total Cyanide		EQL									
Total Cyanide		1	<1	<1	87%	87%	<1	<1			

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E040.2/E054.2: Caustic extract followed by strong acid distillation. Analysis by colour.

Laboratory Identification		138654	138658	138664	138667	138671	138674	138678	138682	138685	138689
Sample Identification		TP23	TP24	TP25	TP26	TP27	TP28	TP29	TP30	TP31	TP32
Depth (m)		0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15
Sampling Date recorded on COC		22/1/08	22/1/08	22/1/08	22/1/08	22/1/08	22/1/08	22/1/08	22/1/08	22/1/08	22/1/08
Laboratory Extraction (Preparation) Date		1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	1/2/08
Laboratory Analysis Date		14/2/08	14/2/08	14/2/08	14/2/08	14/2/08	14/2/08	14/2/08	14/2/08	15/2/08	15/2/08
Method : E024.2											
Phenoxy Acid Herbicides		EQL									
Dalapon	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Clopyralid	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
o-Chlorophenoxy acid	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
p-Chlorophenoxy acid	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dicamba	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MCPP	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MCPA	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dichlorprop	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,4-D	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Triclopyr	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,4,5-TP (Silvex)	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
MCPB	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,4,5-T	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluxopyr	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,4-DB	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3,4-DCPA (Surr @ 0.4 mg/kg)	--	82%	74%	60%	64%	79%	72%	75%	74%	63%	64%

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E024.2: 8-10g soil extracted with 20ml DCM/Acetone/Hexane (10:45:45) followed by methylation. Analysis by GC/MS.

Laboratory Report No: E036019
Client Name: Connell Wagner Pty Ltd (SA)
Contact Name: Matt Eygenraam
Client Reference: Buckland Park 31495

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 of Analysis

This report supercedes reports issued on: 08/02/08

Laboratory Identification		138693	138698	138702	138706	138710	138654d	138654r	138689d	138689r	138658s
Sample Identification		TP33	TP34	TP35	TP36	TP37	QC	QC	QC	QC	QC
Depth (m)		0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	--	--	--	--	--
Sampling Date recorded on COC		22/1/08	23/1/08	23/1/08	23/1/08	23/1/08	--	--	--	--	--
Laboratory Extraction (Preparation) Date		1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	--	1/2/08	--	1/2/08
Laboratory Analysis Date		15/2/08	15/2/08	15/2/08	15/2/08	15/2/08	14/2/08	--	15/2/08	--	14/2/08
Method : E024.2											
Phenoxy Acid Herbicides		EQL									
Dalapon	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	--	<0.1	--	26%
Clopyralid	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	--	<0.1	--	118%
o-Chlorophenoxy acid	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	--	<0.1	--	116%
p-Chlorophenoxy acid	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	--	<0.1	--	106%
Dicamba	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	--	<0.1	--	126%
MCPP	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	--	<0.1	--	113%
MCPA	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	--	<0.1	--	97%
Dichlorprop	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	--	<0.1	--	97%
2,4-D	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	--	<0.1	--	86%
Triclopyr	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	--	<0.1	--	73%
2,4,5-TP (Silvex)	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	--	<0.1	--	74%
MCPB	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	--	<0.1	--	129%
2,4,5-T	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	--	<0.1	--	61%
Fluxopyr	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	--	<0.1	--	77%
2,4-DB	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	--	<0.1	--	125%
3,4-DCPA (Surr @ 0.4 mg/kg)	--	86%	56%	67%	78%	75%	75%	9%	66%	3%	71%

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E024.2: 8-10g soil extracted with 20ml DCM/Acetone/Hexane (10:45:45) followed by methylation. Analysis by GC/MS.

Laboratory Report No: E036019
Client Name: Connell Wagner Pty Ltd (SA)
Contact Name: Matt Eygenraam
Client Reference: Buckland Park 31495

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Laboratory Identification		lcs	mb							
Sample Identification		QC	QC							
Depth (m)		--	--							
Sampling Date recorded on COC		--	--							
Laboratory Extraction (Preparation) Date		1/2/08	1/2/08							
Laboratory Analysis Date		14/2/08	14/2/08							
Method : E024.2										
Phenoxy Acid Herbicides	EQL									
Dalapon	0.1	23%	<0.1							
Clopyralid	0.1	76%	<0.1							
o-Chlorophenoxy acid	0.1	76%	<0.1							
p-Chlorophenoxy acid	0.1	71%	<0.1							
Dicamba	0.1	83%	<0.1							
MCPP	0.1	90%	<0.1							
MCPA	0.1	81%	<0.1							
Dichlorprop	0.1	82%	<0.1							
2,4-D	0.1	91%	<0.1							
Triclopyr	0.1	92%	<0.1							
2,4,5-TP (Silvex)	0.1	83%	<0.1							
MCPB	0.1	80%	<0.1							
2,4,5-T	0.1	74%	<0.1							
Fluxopyr	0.1	67%	<0.1							
2,4-DB	0.1	80%	<0.1							
3,4-DCPA (Surr @ 0.4 mg/kg)	--	82%	85%							

Results expressed in mg/kg dry weight unless otherwise specified

Comments:

E024.2: 8-10g soil extracted with 20ml DCM/Acetone/Hexane (10:45:45) followed by methylation. Analysis by GC/MS.

Laboratory Report No: E036019
Client Name: Connell Wagner Pty Ltd (SA)
Contact Name: Matt Eygenraam
Client Reference: Buckland Park 31495

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Laboratory Identification		138654	138658	138664	138667	138671	138674	138675	138678	138682	138685
Sample Identification		TP23	TP24	TP25	TP26	TP27	TP28	QC13	TP29	TP30	TP31
Depth (m)		0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	--	0.05-0.15	0.05-0.15	0.05-0.15
Sampling Date recorded on COC		22/1/08	22/1/08	22/1/08	22/1/08	22/1/08	22/1/08	22/1/08	22/1/08	22/1/08	22/1/08
Laboratory Extraction (Preparation) Date		31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08	31/1/08
Laboratory Analysis Date		1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	1/2/08
Method : E005.2											
Moisture	EQL										
Moisture	--	3	25	2	--	--	1	--	1	--	1

Results expressed in % w/w unless otherwise specified

Comments:

E005.2: Moisture by gravimetric analysis. Results are in % w/w.

Laboratory Identification		138689	138693	138694	138698	138702	138706	138710	138654d	138654r	138689d
Sample Identification		TP32	TP33	QC15	TP34	TP35	TP36	TP37	QC	QC	QC
Depth (m)		0.05-0.15	0.05-0.15	--	0.05-0.15	0.05-0.15	0.05-0.15	0.05-0.15	--	--	--
Sampling Date recorded on COC		22/1/08	22/1/08	22/1/08	23/1/08	23/1/08	23/1/08	23/1/08	--	--	--
Laboratory Extraction (Preparation) Date		31/1/08	31/1/08	31/1/08	1/2/08	1/2/08	1/2/08	1/2/08	31/1/08	--	31/1/08
Laboratory Analysis Date		1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	1/2/08	--	1/2/08
Method : E005.2											
Moisture	EQL										
Moisture	--	1	1	1	2	1	3	4	3	0%	1

Results expressed in % w/w unless otherwise specified

Comments:

E005.2: Moisture by gravimetric analysis. Results are in % w/w.

Laboratory Report No: E036019
Client Name: Connell Wagner Pty Ltd (SA)
Contact Name: Matt Eygenraam
Client Reference: Buckland Park 31495

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Laboratory Identification		138689r									
Sample Identification		QC									
Depth (m)		--									
Sampling Date recorded on COC		--									
Laboratory Extraction (Preparation) Date		--									
Laboratory Analysis Date		--									
Method : E005.2											
Moisture	EQL										
Moisture	--	0%									

Results expressed in % w/w unless otherwise specified

Comments:

E005.2: Moisture by gravimetric analysis. Results are in % w/w.



Report Date : 30/01/2008
Report Time : 3:22:53PM

Sample Receipt Notice (SRN) for E036019



Quality, Service, Support

Client Details	Laboratory Reference Information
Client Name: Connell Wagner Pty Ltd (SA) Client Phone: 08 82379777 Client Fax: 08 82314765 Contact Name: Matt Eygenraam Contact Email: eygenraamm@conwag.com Client Address: 55 Grenfell St. Adelaide SA 5000 Project Name: Buckland Park Project Number: 31495 CoC Serial Number: - Not provided - Purchase Order: - Not provided - Surcharge: No surcharge applied (results by 6:30pm on due date) Sample Matrix: SOIL	<div style="border: 1px dashed black; padding: 5px; text-align: center;"> Please have this information ready when contacting Labmark. </div> Laboratory Report: E036019 Quotation Number: - Not provided, standard prices apply Laboratory Address: Unit 1, 8 Leighton Pl. Asquith NSW 2077 Phone: 61 2 9476 6533 Fax: 61 2 9476 8219 Sample Receipt Contact: Jakleen El Galada Email: jakleen.galada@labmark.com.au Reporting Contact: Jyothi Lal Email: jyothi.lal@labmark.com.au NATA Accreditation: 13542 TGA GMP License: 185-336 (Sydney) APVMA License: 6105 (Sydney) AQIS Approval: NO356 (Sydney) AQIS Entry Permit: 200521534 (Sydney)
Date Sampled (earliest date): 22/01/2008 Date Samples Received: 29/01/2008 Date Sample Receipt Notice issued: 30/01/2008 Date Preliminary Report Due: 08/02/2008	

Reporting Requirements: Electronic Data Download required: No

Invoice Number: 30203

Sample Condition: COC received with samples. Report number and lab ID's defined on COC.
 Samples received partly damaged. Refer to comments for details .
 Samples received with cooling media: Ice bricks .
 Samples received chilled.
 Security seals intact .
 Sample container & chemical preservation suitable .

Comments: Sample TP37_0.05-0.15 arrived broken and was salvaged in Lab. Sample will be analysed for all but volatiles at clients request. Sample QC16 forwarded to MGT. Analysis received withinsufficient time to analyse within THT for nutrients.

Holding Times: Date received allows for sufficient time to meet Technical Holding Times.
 Note: There are Samples within this batch that have been received by the laboratory 0 day(s) after Technical Holding Times expire. LabMark cannot guarantee THT compliance, refer to the extraction dates detailed in the sample grid for confirmation.

Preservation: Chemical preservation of samples satisfactory for requested analytes.

Important Notes:
 LabMark shall responsibly dispose of spent customer soil and water samples which includes the disintegration of the sample label. A sample disposal fee of \$1.00 is applicable on all samples received by the laboratory regardless of whether they have undergone analytical testing. Sample disposal of environmental samples shall be 31 days (water) and 3 months (soil, HN03 preserved samples) after laboratory receipt, unless otherwise requested in writing by the client. Samples requested to be held in non-refrigerated storage shall incur \$5.00/ sample/ 3 months. Additional refrigerated storage shall incur \$30/ sample/ 3 months. Combination prices apply only if requested. Transfer of report ownership from LabMark to the client shall occur once full and final payment has been settled and verified. All report copies may be retracted where full payment does not occur within the agreed settlement period.

Analysis comments:

Subcontracted Analyses:

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 Additional information on www.labmark.com.au



Sample
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Notice (SRN) for E036019



Quality, Service, Support

The table below represents LabMark's understanding and interpretation of the customer supplied sample COC request (refer to SRN comments section on first page for external subcontracting method details). Please confirm that your COC request has been entered correctly. Due to THT and TAT requirements, testing shall commence immediately as per this table, unless the customer intervenes with a correction prior to testing.

GRID REVIEW TABLE				Requested Analysis																			
No.	Date	Depth	Client Sample ID	BTEX by P&T	Speciated Chromium	Fluoride	Acid extractable mercury	HOLD ON HOLD	Acid extractable metals	Acid extractable metals	Moisture	Organochlorine Pesticides (OC)	Organophosphorus Pesticides (OP)	Polyaromatic Hydrocarbons (PAH)	pH in soil	Phenols by GC/MS	Phenoxy Acid Herbicides	PREP Not Reported	Sulphate/Sulphite	Total Cyanide	Petroleum Hydrocarbons (TPH)	Volatile Aromatic Compounds (VAC)	Volatile TPH by P&T (VTPH)
138654	22/01	0.05-0.15	TP23	●	●		●		●	●	●	●	●	●	●		●	●	●		●		●
138655	22/01	0.4-0.5	TP23					●															
138656	22/01	0.9-1.0	TP23					●															
138657	22/01	1.9-2.0	TP23					●															
138658	22/01	0.05-0.15	TP24	●	●		●		●	●	●	●	●	●	●		●	●	●		●		●
138659	22/01		QC11					●															
138660	22/01		QC12					●															
138661	22/01	0.4-0.5	TP24					●															
138662	22/01	0.9-1.0	TP24					●															
138663	22/01	1.9-2.0	TP24					●															
138664	22/01	0.05-0.15	TP25	●	●		●		●	●	●	●	●	●	●		●	●	●		●		●
138665	22/01	0.4-0.5	TP25					●															
138666	22/01	0.9-1.0	TP25					●															
138667	22/01	0.05-0.15	TP26	●	●		●		●	●	●	●	●	●	●		●	●	●		●		●
138668	22/01	0.4-0.5	TP26					●															
138669	22/01	0.9-1.0	TP26					●															
138670	22/01	1.9-2.0	TP26					●															
138671	22/01	0.05-0.15	TP27			●	●		●	●	●	●		●	●	●	●	●	●		●	●	●
138672	22/01	0.4-0.5	TP27					●															
138673	22/01	0.9-1.0	TP27					●															
138674	22/01	0.05-0.15	TP28	●	●		●		●	●	●	●	●	●	●		●	●	●		●		●
138675	22/01		QC13		●		●		●	●	●	●	●	●	●			●	●				
138676	22/01	0.4-0.5	TP28					●															
138677	22/01	0.9-1.0	TP28					●															
138678	22/01	0.05-0.15	TP29	●	●		●		●	●	●	●	●	●	●		●	●	●		●		●
138679	22/01	0.4-0.5	TP29					●															
138680	22/01	0.9-1.0	TP29					●															
138681	22/01	1.9-2.0	TP29					●															
138682	22/01	0.05-0.15	TP30	●	●		●		●	●	●	●	●	●	●		●	●	●		●		●
138683	22/01	0.4-0.5	TP30					●															
138684	22/01	0.9-1.0	TP30					●															
138685	22/01	0.05-0.15	TP31	●	●		●		●	●	●	●	●	●	●		●	●	●		●		●

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Sample Receipt Notice (SRN) for E036019



Quality, Service, Support

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GRID REVIEW TABLE				Requested Analysis																			
No.	Date	Depth	Client Sample ID	BTEX by P&T	Speciated Chromium	Fluoride	Acid extractable mercury	HOLD ON HOLD	Acid extractable metals	Acid extractable metals	Moisture	Organochlorine Pesticides (OC)	Organophosphorus Pesticides (OP)	Polyaromatic Hydrocarbons (PAH)	pH in soil	Phenols by GC/MS	Phenoxy Acid Herbicides	PREP Not Reported	Sulphate/Sulphite	Total Cyanide	Petroleum Hydrocarbons (TPH)	Volatile Aromatic Compounds (VAC)	Volatile TPH by P&T (VTPH)
138686	22/01	0.4-0.5	TP31					●															
138687	22/01	0.9-1.0	TP31					●															
138688	22/01	1.9-2.0	TP31					●															
138689	22/01	0.05-0.15	TP32	●	●		●		●	●	●	●	●	●	●		●	●	●		●		●
138690	22/01	0.4-0.5	TP32					●															
138691	22/01	0.9-1.0	TP32					●															
138692	22/01		QC14					●															
138693	22/01	0.05-0.15	TP33	●	●		●		●	●	●	●	●	●	●		●	●	●		●		●
138694	22/01		QC15		●		●		●	●	●	●	●		●			●	●				
138696	22/01	0.4-0.5	TP33					●															
138697	22/01	0.9-1.0	TP33					●															
138698	23/01	0.05-0.15	TP34			●	●		●	●	●	●		●	●	●	●	●	●	●	●	●	●
138699	23/01	0.4-0.5	TP34					●															
138700	23/01	0.9-1.0	TP34					●															
138701	23/01	1.9-2.0	TP34					●															
138702	23/01	0.05-0.15	TP35	●	●		●		●	●	●	●	●	●	●		●	●	●		●		●
138703	23/01	0.4-0.5	TP35					●															
138704	23/01	0.9-1.0	TP35					●															
138705	23/01		QC17					●															
138706	23/01	0.05-0.15	TP36	●	●		●		●	●	●	●	●	●	●		●	●	●		●		●
138707	23/01	0.4-0.5	TP36					●															
138708	23/01	0.9-1.0	TP36					●															
138709	23/01	1.9-2.0	TP36					●															
138710	23/01	0.05-0.15	TP37		●		●		●	●	●	●	●	●	●		●	●	●		●		
138711	23/01	0.4-0.5	TP37					●															
138712	23/01	0.9-1.0	TP37					●															
Totals:				12	15	2	17	41	17	17	17	17	15	15	17	2	15	17	17	2	15	2	14

'PREP Not Reported' refers to an internal laboratory instruction - client confirmation of this parameter is not required.

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Sample Receipt Notice (SRN) for E036019



Quality, Service, Support

No.	Date	Depth	Client Sample ID	Requested Analysis																					
				IM12 - MET-T_S	HG-T_S Mercury	MET-AAS_S Sulphur	MET-T_S Arsenic	MET-T_S Beryllium	MET-T_S Boron	MET-T_S Cadmium	MET-T_S Chromium	MET-T_S Copper	MET-T_S Lead	MET-T_S Manganese	MET-T_S Zinc										
138654	22/01	0.05-0.15	TP23		●	●	●	●	●	●	●	●	●	●	●	●									
138658	22/01	0.05-0.15	TP24		●	●	●	●	●	●	●	●	●	●	●	●									
138664	22/01	0.05-0.15	TP25		●	●	●	●	●	●	●	●	●	●	●	●									
138667	22/01	0.05-0.15	TP26		●	●	●	●	●	●	●	●	●	●	●	●									
138671	22/01	0.05-0.15	TP27	●		●																			
138674	22/01	0.05-0.15	TP28		●	●	●	●	●	●	●	●	●	●	●	●									
138675	22/01		QC13		●	●	●	●	●	●	●	●	●	●	●	●									
138678	22/01	0.05-0.15	TP29		●	●	●	●	●	●	●	●	●	●	●	●									
138682	22/01	0.05-0.15	TP30		●	●	●	●	●	●	●	●	●	●	●	●									
138685	22/01	0.05-0.15	TP31		●	●	●	●	●	●	●	●	●	●	●	●									
138689	22/01	0.05-0.15	TP32		●	●	●	●	●	●	●	●	●	●	●	●									
138693	22/01	0.05-0.15	TP33		●	●	●	●	●	●	●	●	●	●	●	●									
138694	22/01		QC15		●	●	●	●	●	●	●	●	●	●	●	●									
138698	23/01	0.05-0.15	TP34	●		●																			
138702	23/01	0.05-0.15	TP35		●	●	●	●	●	●	●	●	●	●	●	●									
138706	23/01	0.05-0.15	TP36		●	●	●	●	●	●	●	●	●	●	●	●									
138710	23/01	0.05-0.15	TP37		●	●	●	●	●	●	●	●	●	●	●	●									
Totals:				2	15	17	15	15	15	15	15	15	15	15	15	15									

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Certificate of Analysis

CONNELL WAGNER (SA) PTY LTD
55 Grenfell St
ADELAIDE SA 5000

Attention: April Freeman

Project 08ENME0008403
Client Reference 31495
Buckland Park
Received Date 07/04/2008 09:00:00 AM

Customer Sample ID	TP38 0-0.1	TP38 0.2-0.3	TP38 0.4-0.5	QC1A	TP38 0.9-1.0
Amdel Sample Number	936078	936079	936081	936082	936084
Date Sampled	03/04/2008	03/04/2008	03/04/2008	03/04/2008	03/04/2008

VOC					
Test/Reference	PQL	Unit			
1100 BTEX & (C6-C9) in Soil by P&T					
Benzene	0.2	mg/kg	<0.2	-	-
Ethylbenzene	1	mg/kg	<1.0	-	-
Meta- & Para- Xylene	2	mg/kg	<2.0	-	-
Ortho-Xylene	1	mg/kg	<1.0	-	-
Toluene	1	mg/kg	<1.0	-	-
Total Xylenes	3	mg/kg	<3.0	-	-
C6-C9 Fraction	5	mg/kg	<5.0	-	-
4-Bromofluorobenzene - Surrogate	-	%	101	-	-
1100 MAH(BTEX & C6-C9) in Soil P&T					
Benzene	0.2	mg/kg	-	<0.2	-
Cumene	0.5	mg/kg	-	<0.5	-
Ethylbenzene	1	mg/kg	-	<1.0	-
Meta- & Para- Xylene	2	mg/kg	-	<2.0	-
Ortho-Xylene	1	mg/kg	-	<1.0	-
Styrene	0.5	mg/kg	-	<0.5	-
Toluene	1	mg/kg	-	<1.0	-
Total Xylenes	3	mg/kg	-	<3.0	-
C6-C9 Fraction	5	mg/kg	-	<5.0	-
4-Bromofluorobenzene - Surrogate	-	%	-	105	-
1300 VOCs in Soil by P&T					
1,1,1,2-Tetrachloroethane	1	mg/kg	-	<1.0	-
1,1,1-Trichloroethane	1	mg/kg	-	<1.0	-
1,1,2,2-Tetrachloroethane	1	mg/kg	-	<1.0	-
1,1,2-Trichloroethane	1	mg/kg	-	<1.0	-
1,1-Dichloroethane	1	mg/kg	-	<1.0	-
1,1-Dichloroethene	1	mg/kg	-	<1.0	-
1,1-Dichloropropylene	1	mg/kg	-	<1.0	-
1,2,3-Trichlorobenzene	1	mg/kg	-	<1.0	-
1,2,3-Trichloropropane	1	mg/kg	-	<1.0	-
1,2,4-Trichlorobenzene	1	mg/kg	-	<1.0	-
1,2,4-Trimethylbenzene	1	mg/kg	-	<1.0	-
1,2-Dibromo-3-chloropropane	1	mg/kg	-	<1.0	-
1,2-Dibromoethane	1	mg/kg	-	<1.0	-
1,2-Dichlorobenzene	1	mg/kg	-	<1.0	-
1,2-Dichloroethane	1	mg/kg	-	<1.0	-
1,2-Dichloropropane	1	mg/kg	-	<1.0	-
1,3,5-Trimethylbenzene	1	mg/kg	-	<1.0	-

Customer Sample ID	TP38 0-0.1	TP38 0.2-0.3	TP38 0.4-0.5	QC1A	TP38 0.9-1.0
Amdel Sample Number	936078	936079	936081	936082	936084
Date Sampled	03/04/2008	03/04/2008	03/04/2008	03/04/2008	03/04/2008
VOC					
Test/Reference	PQL	Unit			
1,3-Dichlorobenzene	1	mg/kg	-	<1.0	-
1,3-Dichloropropane	1	mg/kg	-	<1.0	-
1,4-Dichlorobenzene	1	mg/kg	-	<1.0	-
2,2-Dichloropropane	10	mg/kg	-	<10.0	-
2-butanone	10	mg/kg	-	<10.0	-
2-Chlorotoluene	1	mg/kg	-	<1.0	-
4-Chlorotoluene	1	mg/kg	-	<1.0	-
4-methyl-2-pentanone	10	mg/kg	-	<10.0	-
Benzene	0.2	mg/kg	-	<0.2	-
Bromobenzene	1	mg/kg	-	<1.0	-
Bromochloromethane	1	mg/kg	-	<1.0	-
Bromodichloromethane	1	mg/kg	-	<1.0	-
Bromoform	1	mg/kg	-	<1.0	-
Bromomethane	1	mg/kg	-	<1.0	-
Carbon Tetrachloride	1	mg/kg	-	<1.0	-
Chlorobenzene	1	mg/kg	-	<1.0	-
Chloroethane	1	mg/kg	-	<1.0	-
Chloroform	1	mg/kg	-	<1.0	-
Chloromethane	1	mg/kg	-	<1.0	-
cis-1,2-Dichloroethene	1	mg/kg	-	<1.0	-
cis-1,3-Dichloropropene	1	mg/kg	-	<1.0	-
Dibromochloromethane	1	mg/kg	-	<1.0	-
Dibromomethane	1	mg/kg	-	<1.0	-
Dichlorodifluoromethane	1	mg/kg	-	<1.0	-
Ethylbenzene	1	mg/kg	-	<1.0	-
Hexachlorobutadiene	1	mg/kg	-	<1.0	-
Hexachloroethane	1	mg/kg	-	<1.0	-
Isopropylbenzene	0.5	mg/kg	-	<0.5	-
Meta- & Para- Xylene	2	mg/kg	-	<2.0	-
Methylene Chloride	5	mg/kg	-	<5.0	-
Naphthalene	1	mg/kg	-	<1.0	-
n-Butylbenzene	1	mg/kg	-	<1.0	-
n-Propylbenzene	1	mg/kg	-	<1.0	-
Ortho-Xylene	1	mg/kg	-	<1.0	-
Pentachloroethane	1	mg/kg	-	<1.0	-
p-Isopropyltoluene	1	mg/kg	-	<1.0	-
sec-Butylbenzene	1	mg/kg	-	<1.0	-
Styrene	0.5	mg/kg	-	<0.5	-
tert-Butylbenzene	1	mg/kg	-	<1.0	-
Tetrachloroethene	1	mg/kg	-	<1.0	-
Toluene	1	mg/kg	-	<1.0	-
trans-1,2-Dichloroethene	1	mg/kg	-	<1.0	-
trans-1,3-Dichloropropene	1	mg/kg	-	<1.0	-
Trichloroethene	1	mg/kg	-	<1.0	-
Trichlorofluoromethane	1	mg/kg	-	<1.0	-
Vinyl Chloride	1	mg/kg	-	<1.0	-
Total Xylenes	3	mg/kg	-	<3.0	-
Toluene-D8 - Surrogate	1	%	-	95	-
4-Bromofluorobenzene - Surrogate	1	%	-	95	-
Pentafluorobenzene-Surrogate	1	%	-	72	-

Customer Sample ID			TP38 0-0.1	TP38 0.2-0.3	TP38 0.4-0.5	QC1A	TP38 0.9-1.0
Amdel Sample Number			936078	936079	936081	936082	936084
Date Sampled			03/04/2008	03/04/2008	03/04/2008	03/04/2008	03/04/2008
SVOC							
Test/Reference	PQL	Unit					
2300 OC Pesticides in Soil by GC-MS							
a-BHC	0.5	mg/kg	<0.5	<0.5	-	-	-
a-Chlordane	0.5	mg/kg	<0.5	<0.5	-	-	-
a-Endosulfan	0.5	mg/kg	<0.5	<0.5	-	-	-
Aldrin	0.5	mg/kg	<0.5	<0.5	-	-	-
b-BHC	0.5	mg/kg	<0.5	<0.5	-	-	-
b-Endosulfan	0.5	mg/kg	<0.5	<0.5	-	-	-
d-BHC	0.5	mg/kg	<0.5	<0.5	-	-	-
DDD	0.5	mg/kg	<0.5	<0.5	-	-	-
DDE	0.5	mg/kg	<0.5	<0.5	-	-	-
DDT	0.5	mg/kg	<0.5	<0.5	-	-	-
Dieldrin	0.5	mg/kg	<0.5	<0.5	-	-	-
Endosulfan sulfate	0.5	mg/kg	<0.5	<0.5	-	-	-
Endrin	0.5	mg/kg	<0.5	<0.5	-	-	-
Endrin Aldehyde	0.5	mg/kg	<0.5	<0.5	-	-	-
g-BHC	0.5	mg/kg	<0.5	<0.5	-	-	-
g-Chlordane	0.5	mg/kg	<0.5	<0.5	-	-	-
Heptachlor	0.5	mg/kg	<0.5	<0.5	-	-	-
Heptachlor epoxide	0.5	mg/kg	<0.5	<0.5	-	-	-
Hexachlorobenzene (HCB)	0.5	mg/kg	<0.5	<0.5	-	-	-
Methoxychlor	0.5	mg/kg	<0.5	<0.5	-	-	-
Oxychlordane	0.5	mg/kg	<0.5	<0.5	-	-	-
2,4,5,6-tetrachloro-m-xylene - Surrogate	-	%	111	110	-	-	-
2100 PAH in Soil by GC							
Acenaphthene	0.5	mg/kg	<0.5	<0.5	-	-	-
Acenaphthylene	0.5	mg/kg	<0.5	<0.5	-	-	-
Anthracene	0.5	mg/kg	<0.5	<0.5	-	-	-
Benz(a)anthracene	0.5	mg/kg	<0.5	<0.5	-	-	-
Benzo(a)pyrene	0.5	mg/kg	<0.5	<0.5	-	-	-
Benzo(b)&(k)fluoranthene	1	mg/kg	<1	<1	-	-	-
Benzo(g,h,i)perylene	0.5	mg/kg	<0.5	<0.5	-	-	-
Chrysene	0.5	mg/kg	<0.5	<0.5	-	-	-
Dibenz(ah)anthracene	0.5	mg/kg	<0.5	<0.5	-	-	-
Fluoranthene	0.5	mg/kg	<0.5	<0.5	-	-	-
Fluorene	0.5	mg/kg	<0.5	<0.5	-	-	-
Indeno(123-cd)pyrene	0.5	mg/kg	<0.5	<0.5	-	-	-
Naphthalene	0.5	mg/kg	<0.5	<0.5	-	-	-
Phenanthrene	0.5	mg/kg	<0.5	<0.5	-	-	-
Pyrene	0.5	mg/kg	<0.5	<0.5	-	-	-
Sum of PAHs	0.5	mg/kg	<0.5	<0.5	-	-	-
2-Fluorobiphenyl - Surrogate	-	%	100	102	-	-	-
p-Terphenyl-D14 - Surrogate	-	%	130	130	-	-	-
Anthracene-d10 - Surrogate	-	%	106	102	-	-	-
2600 PCBs in Soil by GC							
Aroclor 1016DB	0.5	mg/kg	-	<0.5	-	-	-
Aroclor 1221DB	0.5	mg/kg	-	<0.5	-	-	-
Aroclor 1232 and 1242 as totalDB	1	mg/kg	-	<1	-	-	-
Aroclor 1248 and 1254 as totalDB	1	mg/kg	-	<1	-	-	-
Aroclor 1260DB	0.5	mg/kg	-	<0.5	-	-	-

Customer Sample ID	TP38 0-0.1	TP38 0.2-0.3	TP38 0.4-0.5	QC1A	TP38 0.9-1.0
Amdel Sample Number	936078	936079	936081	936082	936084
Date Sampled	03/04/2008	03/04/2008	03/04/2008	03/04/2008	03/04/2008

SVOC

Test/Reference	PQL	Unit				
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Total Polychlorinated biphenylsDB	1	mg/kg	-	<1	-	-
Decachlorobiphenyl - PCB surrogate	1	%	-	100	-	-

2800 Individual Phenols in Soil by GC

2,3,4,6-Tetrachlorophenol	1	mg/kg	-	<1	-	-
2,3,4-Trichlorophenol	0.5	mg/kg	-	<0.5	-	-
2,3,5,6-Tetrachlorophenol	1	mg/kg	-	<1	-	-
2,3,5-Trichlorophenol	0.5	mg/kg	-	<0.5	-	-
2,3,6-Trichlorophenol	0.5	mg/kg	-	<0.5	-	-
2,3-Dichlorophenol	1	mg/kg	-	<1	-	-
2,4 & 2,5-Dichlorophenol	2	mg/kg	-	<2	-	-
2,4,6-Trichlorophenol	0.5	mg/kg	-	<0.5	-	-
2,6-Dichlorophenol	0.5	mg/kg	-	<0.5	-	-
2-Chlorophenol	0.5	mg/kg	-	<0.5	-	-
2-Methylphenol	0.5	mg/kg	-	<0.5	-	-
3,4-Dichlorophenol	0.5	mg/kg	-	<0.5	-	-
3,5-Dichlorophenol	0.5	mg/kg	-	<0.5	-	-
3-Chlorophenol & 4-Chlorophenol	1	mg/kg	-	<1	-	-
3-Methylphenol & 4-Methylphenol	1	mg/kg	-	<1	-	-
4-Chloro-3-methylphenol	0.5	mg/kg	-	<0.5	-	-
Pentachlorophenol	1	mg/kg	-	<1	-	-
Phenol	0.5	mg/kg	-	<0.5	-	-
2,4,6-Tribromophenol-Surrogate	1	%	-	59	-	-

2000 TPH (C10 - C36) in Soil by GC

C10-C14 Fraction	10	mg/kg	<10	<10	-	-
C15-C28 Fraction	20	mg/kg	<20	<20	-	-
C29-C36 Fraction	20	mg/kg	<20	<20	-	-

Metals

Test/Reference	PQL	Unit				
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3400 Mercury in Soil by FIMS

Mercury	0.01	mg/kg	-	0.03	-	-
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3100 Total Metals in Soil By ICP/MS

Antimony	2	mg/kg	-	<2	-	-
Arsenic	2	mg/kg	3.4	2.8	-	-
Barium	2	mg/kg	-	77	-	-
Cadmium	2	mg/kg	<2	<2	-	-
Chromium	2	mg/kg	60	65	-	-
Cobalt	2	mg/kg	-	14	-	-
Copper	2	mg/kg	30	29	-	-
Lead	2	mg/kg	23	13	-	-
Manganese	2	mg/kg	-	380	-	-
Molybdenum	2	mg/kg	-	<2	-	-
Nickel	2	mg/kg	23	24	-	-
Selenium	2	mg/kg	-	<2	-	-
Tin	2	mg/kg	-	2.3	-	-
Zinc	2	mg/kg	31	28	-	-

Inorganics

Test/Reference	PQL	Unit				
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4300 Anions in Soil by IC

Fluoride (Soluble)	2	mg/kg	-	6	-	-
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Customer Sample ID	TP38 0-0.1	TP38 0.2-0.3	TP38 0.4-0.5	QC1A	TP38 0.9-1.0
Amdel Sample Number	936078	936079	936081	936082	936084
Date Sampled	03/04/2008	03/04/2008	03/04/2008	03/04/2008	03/04/2008

Inorganics

Test/Reference	PQL	Unit				
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4270 Total Cyanide in Soil Colourmetric

Total Cyanide	0.1	mg/kg	-	0.3	-	-	-
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4000 pH in Soil

pH	0.1	pH	7.4	8.6	-	-	-
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Miscellaneous

Test/Reference	PQL	Unit				
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5000 Moisture Content

% Moisture	1	%	6	14	-	-	-
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Customer Sample ID	TP38 1.9-2.0	TP39 0-0.1	QC2A	TP39 0.2-0.3	TP39 0.4-0.5
Amdel Sample Number	936085	936086	936088	936089	936091
Date Sampled	03/04/2008	03/04/2008	03/04/2008	03/04/2008	03/04/2008

VOC

Test/Reference	PQL	Unit				
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1100 BTEX & (C6-C9) in Soil by P&T

Benzene	0.2	mg/kg	-	<0.2	-	-	-
Ethylbenzene	1	mg/kg	-	<1.0	-	-	-
Meta- & Para- Xylene	2	mg/kg	-	<2.0	-	-	-
Ortho-Xylene	1	mg/kg	-	<1.0	-	-	-
Toluene	1	mg/kg	-	<1.0	-	-	-
Total Xylenes	3	mg/kg	-	<3.0	-	-	-
C6-C9 Fraction	5	mg/kg	-	<5.0	-	-	-
4-Bromofluorobenzene - Surrogate	-	%	-	97	-	-	-

SVOC

Test/Reference	PQL	Unit				
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2300 OC Pesticides in Soil by GC-MS

a-BHC	0.5	mg/kg	-	<0.5	<0.5	-	-
a-Chlordane	0.5	mg/kg	-	<0.5	<0.5	-	-
a-Endosulfan	0.5	mg/kg	-	<0.5	<0.5	-	-
Aldrin	0.5	mg/kg	-	<0.5	<0.5	-	-
b-BHC	0.5	mg/kg	-	<0.5	<0.5	-	-
b-Endosulfan	0.5	mg/kg	-	<0.5	<0.5	-	-
d-BHC	0.5	mg/kg	-	<0.5	<0.5	-	-
DDD	0.5	mg/kg	-	<0.5	<0.5	-	-
DDE	0.5	mg/kg	-	<0.5	<0.5	-	-
DDT	0.5	mg/kg	-	<0.5	<0.5	-	-
Dieldrin	0.5	mg/kg	-	<0.5	<0.5	-	-
Endosulfan sulfate	0.5	mg/kg	-	<0.5	<0.5	-	-
Endrin	0.5	mg/kg	-	<0.5	<0.5	-	-
Endrin Aldehyde	0.5	mg/kg	-	<0.5	<0.5	-	-
g-BHC	0.5	mg/kg	-	<0.5	<0.5	-	-
g-Chlordane	0.5	mg/kg	-	<0.5	<0.5	-	-
Heptachlor	0.5	mg/kg	-	<0.5	<0.5	-	-
Heptachlor epoxide	0.5	mg/kg	-	<0.5	<0.5	-	-
Hexachlorobenzene (HCB)	0.5	mg/kg	-	<0.5	<0.5	-	-
Methoxychlor	0.5	mg/kg	-	<0.5	<0.5	-	-
Oxychlordane	0.5	mg/kg	-	<0.5	<0.5	-	-

Customer Sample ID	TP38 1.9-2.0	TP39 0-0.1	QC2A	TP39 0.2-0.3	TP39 0.4-0.5		
Amdel Sample Number	936085	936086	936088	936089	936091		
Date Sampled	03/04/2008	03/04/2008	03/04/2008	03/04/2008	03/04/2008		
SVOC							
Test/Reference	PQL	Unit					
2,4,5,6-tetrachloro-m-xylene - Surrogate	-	%	-	110	101	-	-
2100 PAH in Soil by GC							
Acenaphthene	0.5	mg/kg	-	<0.5	-	-	-
Acenaphthylene	0.5	mg/kg	-	<0.5	-	-	-
Anthracene	0.5	mg/kg	-	<0.5	-	-	-
Benz(a)anthracene	0.5	mg/kg	-	<0.5	-	-	-
Benzo(a)pyrene	0.5	mg/kg	-	<0.5	-	-	-
Benzo(b)&(k)fluoranthene	1	mg/kg	-	<1	-	-	-
Benzo(g,h,i)perylene	0.5	mg/kg	-	<0.5	-	-	-
Chrysene	0.5	mg/kg	-	<0.5	-	-	-
Dibenz(ah)anthracene	0.5	mg/kg	-	<0.5	-	-	-
Fluoranthene	0.5	mg/kg	-	<0.5	-	-	-
Fluorene	0.5	mg/kg	-	<0.5	-	-	-
Indeno(123-cd)pyrene	0.5	mg/kg	-	<0.5	-	-	-
Naphthalene	0.5	mg/kg	-	<0.5	-	-	-
Phenanthrene	0.5	mg/kg	-	<0.5	-	-	-
Pyrene	0.5	mg/kg	-	<0.5	-	-	-
Sum of PAHs	0.5	mg/kg	-	<0.5	-	-	-
2-Fluorobiphenyl - Surrogate	-	%	-	97	-	-	-
p-Terphenyl-D14 - Surrogate	-	%	-	122	-	-	-
Anthracene-d10 - Surrogate	-	%	-	100	-	-	-
2000 TPH (C10 - C36) in Soil by GC							
C10-C14 Fraction	10	mg/kg	-	<10	-	-	-
C15-C28 Fraction	20	mg/kg	-	<20	-	-	-
C29-C36 Fraction	20	mg/kg	-	<20	-	-	-
Metals							
Test/Reference	PQL	Unit					
3100 Total Metals in Soil By ICP/MS							
Arsenic	2	mg/kg	-	2.2	<2	-	-
Cadmium	2	mg/kg	-	<2	<2	-	-
Chromium	2	mg/kg	-	32	22	-	-
Copper	2	mg/kg	-	13	9.3	-	-
Lead	2	mg/kg	-	11	8.4	-	-
Nickel	2	mg/kg	-	11	7.1	-	-
Zinc	2	mg/kg	-	17	12	-	-
Inorganics							
Test/Reference	PQL	Unit					
4000 pH in Soil							
pH	0.1	pH	-	7.1	-	-	-
Miscellaneous							
Test/Reference	PQL	Unit					
5000 Moisture Content							
% Moisture	1	%	-	3	3	-	-

Customer Sample ID	TP39 0.9-1.0	TP39 1.9-2.0	TP40 0-0.1	TP40 0.2-0.3	QC3A
Amdel Sample Number	936092	936093	936095	936096	936098
Date Sampled	03/04/2008	03/04/2008	03/04/2008	03/04/2008	03/04/2008

VOC					
Test/Reference	PQL	Unit			

1100 BTEX & (C6-C9) in Soil by P&T

Benzene	0.2	mg/kg	-	-	-	<0.2	-
Ethylbenzene	1	mg/kg	-	-	-	<1.0	-
Meta- & Para- Xylene	2	mg/kg	-	-	-	<2.0	-
Ortho-Xylene	1	mg/kg	-	-	-	<1.0	-
Toluene	1	mg/kg	-	-	-	<1.0	-
Total Xylenes	3	mg/kg	-	-	-	<3.0	-
C6-C9 Fraction	5	mg/kg	-	-	-	<5.0	-
4-Bromofluorobenzene - Surrogate	-	%	-	-	-	105	-

SVOC					
Test/Reference	PQL	Unit			

2300 OC Pesticides in Soil by GC-MS

a-BHC	0.5	mg/kg	-	-	-	<0.5	-
a-Chlordane	0.5	mg/kg	-	-	-	<0.5	-
a-Endosulfan	0.5	mg/kg	-	-	-	<0.5	-
Aldrin	0.5	mg/kg	-	-	-	<0.5	-
b-BHC	0.5	mg/kg	-	-	-	<0.5	-
b-Endosulfan	0.5	mg/kg	-	-	-	<0.5	-
d-BHC	0.5	mg/kg	-	-	-	<0.5	-
DDD	0.5	mg/kg	-	-	-	<0.5	-
DDE	0.5	mg/kg	-	-	-	<0.5	-
DDT	0.5	mg/kg	-	-	-	<0.5	-
Dieldrin	0.5	mg/kg	-	-	-	<0.5	-
Endosulfan sulfate	0.5	mg/kg	-	-	-	<0.5	-
Endrin	0.5	mg/kg	-	-	-	<0.5	-
Endrin Aldehyde	0.5	mg/kg	-	-	-	<0.5	-
g-BHC	0.5	mg/kg	-	-	-	<0.5	-
g-Chlordane	0.5	mg/kg	-	-	-	<0.5	-
Heptachlor	0.5	mg/kg	-	-	-	<0.5	-
Heptachlor epoxide	0.5	mg/kg	-	-	-	<0.5	-
Hexachlorobenzene (HCB)	0.5	mg/kg	-	-	-	<0.5	-
Methoxychlor	0.5	mg/kg	-	-	-	<0.5	-
Oxychlordane	0.5	mg/kg	-	-	-	<0.5	-
2,4,5,6-tetrachloro-m-xylene - Surrogate	-	%	-	-	-	108	-

2100 PAH in Soil by GC

Acenaphthene	0.5	mg/kg	-	-	-	<0.5	-
Acenaphthylene	0.5	mg/kg	-	-	-	<0.5	-
Anthracene	0.5	mg/kg	-	-	-	<0.5	-
Benz(a)anthracene	0.5	mg/kg	-	-	-	<0.5	-
Benzo(a)pyrene	0.5	mg/kg	-	-	-	<0.5	-
Benzo(b)&(k)fluoranthene	1	mg/kg	-	-	-	<1	-
Benzo(g,h,i)perylene	0.5	mg/kg	-	-	-	<0.5	-
Chrysene	0.5	mg/kg	-	-	-	<0.5	-
Dibenz(ah)anthracene	0.5	mg/kg	-	-	-	<0.5	-
Fluoranthene	0.5	mg/kg	-	-	-	<0.5	-
Fluorene	0.5	mg/kg	-	-	-	<0.5	-
Indeno(123-cd)pyrene	0.5	mg/kg	-	-	-	<0.5	-
Naphthalene	0.5	mg/kg	-	-	-	<0.5	-
Phenanthrene	0.5	mg/kg	-	-	-	<0.5	-

Customer Sample ID	TP39 0.9-1.0	TP39 1.9-2.0	TP40 0-0.1	TP40 0.2-0.3	QC3A
Amdel Sample Number	936092	936093	936095	936096	936098
Date Sampled	03/04/2008	03/04/2008	03/04/2008	03/04/2008	03/04/2008

SVOC

Test/Reference	PQL	Unit					
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Pyrene	0.5	mg/kg	-	-	-	<0.5	-
Sum of PAHs	0.5	mg/kg	-	-	-	<0.5	-
2-Fluorobiphenyl - Surrogate	-	%	-	-	-	96	-
p-Terphenyl-D14 - Surrogate	-	%	-	-	-	126	-
Anthracene-d10 - Surrogate	-	%	-	-	-	104	-

2000 TPH (C10 - C36) in Soil by GC

C10-C14 Fraction	10	mg/kg	-	-	-	<10	-
C15-C28 Fraction	20	mg/kg	-	-	-	<20	-
C29-C36 Fraction	20	mg/kg	-	-	-	<20	-

Metals

Test/Reference	PQL	Unit					
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3100 Total Metals in Soil By ICP/MS

Arsenic	2	mg/kg	-	-	-	2.5	-
Cadmium	2	mg/kg	-	-	-	<2	-
Chromium	2	mg/kg	-	-	-	36	-
Copper	2	mg/kg	-	-	-	18	-
Lead	2	mg/kg	-	-	-	9.2	-
Nickel	2	mg/kg	-	-	-	15	-
Zinc	2	mg/kg	-	-	-	25	-

Inorganics

Test/Reference	PQL	Unit					
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4000 pH in Soil

pH	0.1	pH	-	-	-	8.4	-
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Miscellaneous

Test/Reference	PQL	Unit					
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5000 Moisture Content

% Moisture	1	%	-	-	-	9	-
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Customer Sample ID	TP40 0.4-0.5	TP40 0.9-1.0	TP40 1.9-2.0	TP41 0-0.1	TP41 0.2-0.3
Amdel Sample Number	936100	936101	936103	936104	936106
Date Sampled	03/04/2008	03/04/2008	03/04/2008	03/04/2008	03/04/2008

VOC

Test/Reference	PQL	Unit					
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1100 BTEX &(C6-C9) in Soil by P&T

Benzene	0.2	mg/kg	-	-	-	-	<0.2
Ethylbenzene	1	mg/kg	-	-	-	-	<1.0
Meta- & Para- Xylene	2	mg/kg	-	-	-	-	<2.0
Ortho-Xylene	1	mg/kg	-	-	-	-	<1.0
Toluene	1	mg/kg	-	-	-	-	<1.0
Total Xylenes	3	mg/kg	-	-	-	-	<3.0
C6-C9 Fraction	5	mg/kg	-	-	-	-	<5.0
4-Bromofluorobenzene - Surrogate	-	%	-	-	-	-	106

SVOC

Test/Reference	PQL	Unit					
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2300 OC Pesticides in Soil by GC-MS

a-BHC	0.5	mg/kg	-	-	-	-	<0.5
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Customer Sample ID	TP40 0.4-0.5	TP40 0.9-1.0	TP40 1.9-2.0	TP41 0-0.1	TP41 0.2-0.3
Amdel Sample Number	936100	936101	936103	936104	936106
Date Sampled	03/04/2008	03/04/2008	03/04/2008	03/04/2008	03/04/2008

SVOC

Test/Reference	PQL	Unit					
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a-Chlordane	0.5	mg/kg	-	-	-	-	<0.5
a-Endosulfan	0.5	mg/kg	-	-	-	-	<0.5
Aldrin	0.5	mg/kg	-	-	-	-	<0.5
b-BHC	0.5	mg/kg	-	-	-	-	<0.5
b-Endosulfan	0.5	mg/kg	-	-	-	-	<0.5
d-BHC	0.5	mg/kg	-	-	-	-	<0.5
DDD	0.5	mg/kg	-	-	-	-	<0.5
DDE	0.5	mg/kg	-	-	-	-	<0.5
DDT	0.5	mg/kg	-	-	-	-	<0.5
Dieldrin	0.5	mg/kg	-	-	-	-	<0.5
Endosulfan sulfate	0.5	mg/kg	-	-	-	-	<0.5
Endrin	0.5	mg/kg	-	-	-	-	<0.5
Endrin Aldehyde	0.5	mg/kg	-	-	-	-	<0.5
g-BHC	0.5	mg/kg	-	-	-	-	<0.5
g-Chlordane	0.5	mg/kg	-	-	-	-	<0.5
Heptachlor	0.5	mg/kg	-	-	-	-	<0.5
Heptachlor epoxide	0.5	mg/kg	-	-	-	-	<0.5
Hexachlorobenzene (HCB)	0.5	mg/kg	-	-	-	-	<0.5
Methoxychlor	0.5	mg/kg	-	-	-	-	<0.5
Oxychlordane	0.5	mg/kg	-	-	-	-	<0.5
2,4,5,6-tetrachloro-m-xylene - Surrogate	-	%	-	-	-	-	105

2100 PAH in Soil by GC

Acenaphthene	0.5	mg/kg	-	-	-	-	<0.5
Acenaphthylene	0.5	mg/kg	-	-	-	-	<0.5
Anthracene	0.5	mg/kg	-	-	-	-	<0.5
Benz(a)anthracene	0.5	mg/kg	-	-	-	-	<0.5
Benzo(a)pyrene	0.5	mg/kg	-	-	-	-	<0.5
Benzo(b)&(k)fluoranthene	1	mg/kg	-	-	-	-	<1
Benzo(g,h,i)perylene	0.5	mg/kg	-	-	-	-	<0.5
Chrysene	0.5	mg/kg	-	-	-	-	<0.5
Dibenz(ah)anthracene	0.5	mg/kg	-	-	-	-	<0.5
Fluoranthene	0.5	mg/kg	-	-	-	-	<0.5
Fluorene	0.5	mg/kg	-	-	-	-	<0.5
Indeno(123-cd)pyrene	0.5	mg/kg	-	-	-	-	<0.5
Naphthalene	0.5	mg/kg	-	-	-	-	<0.5
Phenanthrene	0.5	mg/kg	-	-	-	-	<0.5
Pyrene	0.5	mg/kg	-	-	-	-	<0.5
Sum of PAHs	0.5	mg/kg	-	-	-	-	<0.5
2-Fluorobiphenyl - Surrogate	-	%	-	-	-	-	98
p-Terphenyl-D14 - Surrogate	-	%	-	-	-	-	127
Anthracene-d10 - Surrogate	-	%	-	-	-	-	99

2000 TPH (C10 - C36) in Soil by GC

C10-C14 Fraction	10	mg/kg	-	-	-	-	<10
C15-C28 Fraction	20	mg/kg	-	-	-	-	<20
C29-C36 Fraction	20	mg/kg	-	-	-	-	<20

Metals

Test/Reference	PQL	Unit					
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3100 Total Metals in Soil By ICP/MS

Arsenic	2	mg/kg	-	-	-	-	2.3
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Customer Sample ID	TP40 0.4-0.5	TP40 0.9-1.0	TP40 1.9-2.0	TP41 0-0.1	TP41 0.2-0.3
Amdel Sample Number	936100	936101	936103	936104	936106
Date Sampled	03/04/2008	03/04/2008	03/04/2008	03/04/2008	03/04/2008

Metals

Test/Reference	PQL	Unit					
Cadmium	2	mg/kg	-	-	-	-	<2
Chromium	2	mg/kg	-	-	-	-	41
Copper	2	mg/kg	-	-	-	-	21
Lead	2	mg/kg	-	-	-	-	12
Nickel	2	mg/kg	-	-	-	-	15
Zinc	2	mg/kg	-	-	-	-	25

Inorganics

Test/Reference	PQL	Unit					
4000 pH in Soil							
pH	0.1	pH	-	-	-	-	6.2

Miscellaneous

Test/Reference	PQL	Unit					
5000 Moisture Content							
% Moisture	1	%	-	-	-	-	8

Customer Sample ID	TP41 0.4-0.5	TP41 0.9-1.0	TP41 1.9-2.0	TP42 0-0.1	TP42 0.2-0.3
Amdel Sample Number	936107	936109	936110	936111	936113
Date Sampled	03/04/2008	03/04/2008	03/04/2008	03/04/2008	03/04/2008

VOC

Test/Reference	PQL	Unit					
1100 BTEX &(C6-C9) in Soil by P&T							
Benzene	0.2	mg/kg	-	-	-	<0.2	-
Ethylbenzene	1	mg/kg	-	-	-	<1.0	-
Meta- & Para- Xylene	2	mg/kg	-	-	-	<2.0	-
Ortho-Xylene	1	mg/kg	-	-	-	<1.0	-
Toluene	1	mg/kg	-	-	-	<1.0	-
Total Xylenes	3	mg/kg	-	-	-	<3.0	-
C6-C9 Fraction	5	mg/kg	-	-	-	<5.0	-
4-Bromofluorobenzene - Surrogate	-	%	-	-	-	106	-

SVOC

Test/Reference	PQL	Unit					
2300 OC Pesticides in Soil by GC-MS							
a-BHC	0.5	mg/kg	-	-	-	<0.5	-
a-Chlordane	0.5	mg/kg	-	-	-	<0.5	-
a-Endosulfan	0.5	mg/kg	-	-	-	<0.5	-
Aldrin	0.5	mg/kg	-	-	-	<0.5	-
b-BHC	0.5	mg/kg	-	-	-	<0.5	-
b-Endosulfan	0.5	mg/kg	-	-	-	<0.5	-
d-BHC	0.5	mg/kg	-	-	-	<0.5	-
DDD	0.5	mg/kg	-	-	-	<0.5	-
DDE	0.5	mg/kg	-	-	-	<0.5	-
DDT	0.5	mg/kg	-	-	-	<0.5	-
Dieldrin	0.5	mg/kg	-	-	-	<0.5	-
Endosulfan sulfate	0.5	mg/kg	-	-	-	<0.5	-
Endrin	0.5	mg/kg	-	-	-	<0.5	-
Endrin Aldehyde	0.5	mg/kg	-	-	-	<0.5	-

Customer Sample ID	TP41 0.4-0.5	TP41 0.9-1.0	TP41 1.9-2.0	TP42 0-0.1	TP42 0.2-0.3
Amdel Sample Number	936107	936109	936110	936111	936113
Date Sampled	03/04/2008	03/04/2008	03/04/2008	03/04/2008	03/04/2008
SVOC					
Test/Reference	PQL	Unit			
g-BHC	0.5	mg/kg	-	-	<0.5
g-Chlordane	0.5	mg/kg	-	-	<0.5
Heptachlor	0.5	mg/kg	-	-	<0.5
Heptachlor epoxide	0.5	mg/kg	-	-	<0.5
Hexachlorobenzene (HCB)	0.5	mg/kg	-	-	<0.5
Methoxychlor	0.5	mg/kg	-	-	<0.5
Oxychlordane	0.5	mg/kg	-	-	<0.5
2,4,5,6-tetrachloro-m-xylene - Surrogate	-	%	-	-	112
2100 PAH in Soil by GC					
Acenaphthene	0.5	mg/kg	-	-	<0.5
Acenaphthylene	0.5	mg/kg	-	-	<0.5
Anthracene	0.5	mg/kg	-	-	<0.5
Benz(a)anthracene	0.5	mg/kg	-	-	<0.5
Benzo(a)pyrene	0.5	mg/kg	-	-	<0.5
Benzo(b)&(k)fluoranthene	1	mg/kg	-	-	<1
Benzo(g,h,i)perylene	0.5	mg/kg	-	-	<0.5
Chrysene	0.5	mg/kg	-	-	<0.5
Dibenz(ah)anthracene	0.5	mg/kg	-	-	<0.5
Fluoranthene	0.5	mg/kg	-	-	<0.5
Fluorene	0.5	mg/kg	-	-	<0.5
Indeno(123-cd)pyrene	0.5	mg/kg	-	-	<0.5
Naphthalene	0.5	mg/kg	-	-	<0.5
Phenanthrene	0.5	mg/kg	-	-	<0.5
Pyrene	0.5	mg/kg	-	-	<0.5
Sum of PAHs	0.5	mg/kg	-	-	<0.5
2-Fluorobiphenyl - Surrogate	-	%	-	-	100
p-Terphenyl-D14 - Surrogate	-	%	-	-	124
Anthracene-d10 - Surrogate	-	%	-	-	101
2000 TPH (C10 - C36) in Soil by GC					
C10-C14 Fraction	10	mg/kg	-	-	<10
C15-C28 Fraction	20	mg/kg	-	-	<20
C29-C36 Fraction	20	mg/kg	-	-	24
Metals					
Test/Reference	PQL	Unit			
3100 Total Metals in Soil By ICP/MS					
Arsenic	2	mg/kg	-	-	2.7
Cadmium	2	mg/kg	-	-	<2
Chromium	2	mg/kg	-	-	53
Copper	2	mg/kg	-	-	25
Lead	2	mg/kg	-	-	15
Nickel	2	mg/kg	-	-	19
Zinc	2	mg/kg	-	-	25
Inorganics					
Test/Reference	PQL	Unit			
4000 pH in Soil					
pH	0.1	pH	-	-	7.2
Miscellaneous					
Test/Reference	PQL	Unit			

Customer Sample ID	TP41 0.4-0.5	TP41 0.9-1.0	TP41 1.9-2.0	TP42 0-0.1	TP42 0.2-0.3
Amdel Sample Number	936107	936109	936110	936111	936113
Date Sampled	03/04/2008	03/04/2008	03/04/2008	03/04/2008	03/04/2008

Miscellaneous

Test/Reference PQL Unit

5000 Moisture Content

% Moisture 1 % - - - 4 -

Customer Sample ID	TP42 0.4-0.5	TP42 0.9-1.0	QC4A	TP42 1.9-2.0	TP43 0-0.1
Amdel Sample Number	936114	936116	936117	936119	936120
Date Sampled	03/04/2008	03/04/2008	03/04/2008	03/04/2008	03/04/2008

VOC

Test/Reference PQL Unit

1100 BTEX & (C6-C9) in Soil by P&T

Benzene	0.2	mg/kg	-	-	-	-	<0.2
Ethylbenzene	1	mg/kg	-	-	-	-	<1.0
Meta- & Para- Xylene	2	mg/kg	-	-	-	-	<2.0
Ortho-Xylene	1	mg/kg	-	-	-	-	<1.0
Toluene	1	mg/kg	-	-	-	-	<1.0
Total Xylenes	3	mg/kg	-	-	-	-	<3.0
C6-C9 Fraction	5	mg/kg	-	-	-	-	<5.0
4-Bromofluorobenzene - Surrogate	-	%	-	-	-	-	100

SVOC

Test/Reference PQL Unit

2300 OC Pesticides in Soil by GC-MS

a-BHC	0.5	mg/kg	-	-	-	-	<0.5
a-Chlordane	0.5	mg/kg	-	-	-	-	<0.5
a-Endosulfan	0.5	mg/kg	-	-	-	-	<0.5
Aldrin	0.5	mg/kg	-	-	-	-	<0.5
b-BHC	0.5	mg/kg	-	-	-	-	<0.5
b-Endosulfan	0.5	mg/kg	-	-	-	-	<0.5
d-BHC	0.5	mg/kg	-	-	-	-	<0.5
DDD	0.5	mg/kg	-	-	-	-	<0.5
DDE	0.5	mg/kg	-	-	-	-	<0.5
DDT	0.5	mg/kg	-	-	-	-	<0.5
Dieldrin	0.5	mg/kg	-	-	-	-	<0.5
Endosulfan sulfate	0.5	mg/kg	-	-	-	-	<0.5
Endrin	0.5	mg/kg	-	-	-	-	<0.5
Endrin Aldehyde	0.5	mg/kg	-	-	-	-	<0.5
g-BHC	0.5	mg/kg	-	-	-	-	<0.5
g-Chlordane	0.5	mg/kg	-	-	-	-	<0.5
Heptachlor	0.5	mg/kg	-	-	-	-	<0.5
Heptachlor epoxide	0.5	mg/kg	-	-	-	-	<0.5
Hexachlorobenzene (HCB)	0.5	mg/kg	-	-	-	-	<0.5
Methoxychlor	0.5	mg/kg	-	-	-	-	<0.5
Oxychlordane	0.5	mg/kg	-	-	-	-	<0.5
2,4,5,6-tetrachloro-m-xylene - Surrogate	-	%	-	-	-	-	103

2100 PAH in Soil by GC

Acenaphthene	0.5	mg/kg	-	-	-	-	<0.5
Acenaphthylene	0.5	mg/kg	-	-	-	-	<0.5
Anthracene	0.5	mg/kg	-	-	-	-	<0.5
Benz(a)anthracene	0.5	mg/kg	-	-	-	-	<0.5

Customer Sample ID	TP42 0.4-0.5	TP42 0.9-1.0	QC4A	TP42 1.9-2.0	TP43 0-0.1
Amdel Sample Number	936114	936116	936117	936119	936120
Date Sampled	03/04/2008	03/04/2008	03/04/2008	03/04/2008	03/04/2008
SVOC					
Test/Reference	PQL	Unit			
Benzo(a)pyrene	0.5	mg/kg	-	-	<0.5
Benzo(b)&(k)fluoranthene	1	mg/kg	-	-	<1
Benzo(g,h,i)perylene	0.5	mg/kg	-	-	<0.5
Chrysene	0.5	mg/kg	-	-	<0.5
Dibenz(ah)anthracene	0.5	mg/kg	-	-	<0.5
Fluoranthene	0.5	mg/kg	-	-	<0.5
Fluorene	0.5	mg/kg	-	-	<0.5
Indeno(123-cd)pyrene	0.5	mg/kg	-	-	<0.5
Naphthalene	0.5	mg/kg	-	-	<0.5
Phenanthrene	0.5	mg/kg	-	-	<0.5
Pyrene	0.5	mg/kg	-	-	<0.5
Sum of PAHs	0.5	mg/kg	-	-	<0.5
2-Fluorobiphenyl - Surrogate	-	%	-	-	98
p-Terphenyl-D14 - Surrogate	-	%	-	-	126
Anthracene-d10 - Surrogate	-	%	-	-	100
2000 TPH (C10 - C36) in Soil by GC					
C10-C14 Fraction	10	mg/kg	-	-	<10
C15-C28 Fraction	20	mg/kg	-	-	<20
C29-C36 Fraction	20	mg/kg	-	-	<20
Metals					
Test/Reference	PQL	Unit			
3100 Total Metals in Soil By ICP/MS					
Arsenic	2	mg/kg	-	-	<2
Cadmium	2	mg/kg	-	-	<2
Chromium	2	mg/kg	-	-	20
Copper	2	mg/kg	-	-	13
Lead	2	mg/kg	-	-	7.5
Nickel	2	mg/kg	-	-	7.5
Zinc	2	mg/kg	-	-	21
Inorganics					
Test/Reference	PQL	Unit			
4000 pH in Soil					
pH	0.1	pH	-	-	8.2
Miscellaneous					
Test/Reference	PQL	Unit			
5000 Moisture Content					
% Moisture	1	%	-	-	2

Customer Sample ID	TP44 0-0.1	TP44 0.2-0.3	TP44 0.4-0.5	TP44 0.9-1.0	TP44 1.9-2.0
Amdel Sample Number	936129	936130	936132	936133	936134
Date Sampled	03/04/2008	03/04/2008	03/04/2008	03/04/2008	03/04/2008
VOC					
Test/Reference	PQL	Unit			
1100 BTEX &(C6-C9) in Soil by P&T					
Benzene	0.2	mg/kg	<0.2	-	-
Ethylbenzene	1	mg/kg	<1.0	-	-
Meta- & Para- Xylene	2	mg/kg	<2.0	-	-

Customer Sample ID	TP44 0-0.1	TP44 0.2-0.3	TP44 0.4-0.5	TP44 0.9-1.0	TP44 1.9-2.0
Amdel Sample Number	936129	936130	936132	936133	936134
Date Sampled	03/04/2008	03/04/2008	03/04/2008	03/04/2008	03/04/2008

VOC						
Test/Reference	PQL	Unit				
Ortho-Xylene	1	mg/kg	<1.0	-	-	-
Toluene	1	mg/kg	<1.0	-	-	-
Total Xylenes	3	mg/kg	<3.0	-	-	-
C6-C9 Fraction	5	mg/kg	<5.0	-	-	-
4-Bromofluorobenzene - Surrogate	-	%	98	-	-	-

SVOC						
Test/Reference	PQL	Unit				

2300 OC Pesticides in Soil by GC-MS

a-BHC	0.5	mg/kg	<0.5	-	-	-
a-Chlordane	0.5	mg/kg	<0.5	-	-	-
a-Endosulfan	0.5	mg/kg	<0.5	-	-	-
Aldrin	0.5	mg/kg	<0.5	-	-	-
b-BHC	0.5	mg/kg	<0.5	-	-	-
b-Endosulfan	0.5	mg/kg	<0.5	-	-	-
d-BHC	0.5	mg/kg	<0.5	-	-	-
DDD	0.5	mg/kg	<0.5	-	-	-
DDE	0.5	mg/kg	<0.5	-	-	-
DDT	0.5	mg/kg	<0.5	-	-	-
Dieldrin	0.5	mg/kg	<0.5	-	-	-
Endosulfan sulfate	0.5	mg/kg	<0.5	-	-	-
Endrin	0.5	mg/kg	<0.5	-	-	-
Endrin Aldehyde	0.5	mg/kg	<0.5	-	-	-
g-BHC	0.5	mg/kg	<0.5	-	-	-
g-Chlordane	0.5	mg/kg	<0.5	-	-	-
Heptachlor	0.5	mg/kg	<0.5	-	-	-
Heptachlor epoxide	0.5	mg/kg	<0.5	-	-	-
Hexachlorobenzene (HCB)	0.5	mg/kg	<0.5	-	-	-
Methoxychlor	0.5	mg/kg	<0.5	-	-	-
Oxychlordane	0.5	mg/kg	<0.5	-	-	-
2,4,5,6-tetrachloro-m-xylene - Surrogate	-	%	112	-	-	-

2100 PAH in Soil by GC

Acenaphthene	0.5	mg/kg	<0.5	-	-	-
Acenaphthylene	0.5	mg/kg	<0.5	-	-	-
Anthracene	0.5	mg/kg	<0.5	-	-	-
Benz(a)anthracene	0.5	mg/kg	<0.5	-	-	-
Benzo(a)pyrene	0.5	mg/kg	<0.5	-	-	-
Benzo(b)&(k)fluoranthene	1	mg/kg	<1	-	-	-
Benzo(g,h,i)perylene	0.5	mg/kg	<0.5	-	-	-
Chrysene	0.5	mg/kg	<0.5	-	-	-
Dibenz(ah)anthracene	0.5	mg/kg	<0.5	-	-	-
Fluoranthene	0.5	mg/kg	<0.5	-	-	-
Fluorene	0.5	mg/kg	<0.5	-	-	-
Indeno(123-cd)pyrene	0.5	mg/kg	<0.5	-	-	-
Naphthalene	0.5	mg/kg	<0.5	-	-	-
Phenanthrene	0.5	mg/kg	<0.5	-	-	-
Pyrene	0.5	mg/kg	<0.5	-	-	-
Sum of PAHs	0.5	mg/kg	<0.5	-	-	-
2-Fluorobiphenyl - Surrogate	-	%	100	-	-	-
p-Terphenyl-D14 - Surrogate	-	%	125	-	-	-

Customer Sample ID	TP44 0-0.1	TP44 0.2-0.3	TP44 0.4-0.5	TP44 0.9-1.0	TP44 1.9-2.0
Amdel Sample Number	936129	936130	936132	936133	936134
Date Sampled	03/04/2008	03/04/2008	03/04/2008	03/04/2008	03/04/2008

SVOC

Test/Reference	PQL	Unit				
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Anthracene-d10 - Surrogate	-	%	103	-	-	-	-
2000 TPH (C10 - C36) in Soil by GC							
C10-C14 Fraction	10	mg/kg	<10	-	-	-	-
C15-C28 Fraction	20	mg/kg	<20	-	-	-	-
C29-C36 Fraction	20	mg/kg	<20	-	-	-	-

Metals

Test/Reference	PQL	Unit				
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3100 Total Metals in Soil By ICP/MS							
Arsenic	2	mg/kg	<2	-	-	-	-
Cadmium	2	mg/kg	<2	-	-	-	-
Chromium	2	mg/kg	20	-	-	-	-
Copper	2	mg/kg	12	-	-	-	-
Lead	2	mg/kg	6.4	-	-	-	-
Nickel	2	mg/kg	8.0	-	-	-	-
Zinc	2	mg/kg	19	-	-	-	-

Inorganics

Test/Reference	PQL	Unit				
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4000 pH in Soil							
pH	0.1	pH	8.4	-	-	-	-

Miscellaneous

Test/Reference	PQL	Unit				
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5000 Moisture Content							
% Moisture	1	%	4	-	-	-	-

Customer Sample ID	TP45 0-0.1	TP45 0.2-0.3	QC7A	TP45 0.4-0.5	TP45 0.9-1.0
Amdel Sample Number	936136	936137	936139	936141	936143
Date Sampled	03/04/2008	03/04/2008	03/04/2008	03/04/2008	03/04/2008

VOC

Test/Reference	PQL	Unit				
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1100 BTEX & (C6-C9) in Soil by P&T							
Benzene	0.2	mg/kg	-	<0.2	-	-	-
Ethylbenzene	1	mg/kg	-	<1.0	-	-	-
Meta- & Para- Xylene	2	mg/kg	-	<2.0	-	-	-
Ortho-Xylene	1	mg/kg	-	<1.0	-	-	-
Toluene	1	mg/kg	-	<1.0	-	-	-
Total Xylenes	3	mg/kg	-	<3.0	-	-	-
C6-C9 Fraction	5	mg/kg	-	<5.0	-	-	-
4-Bromofluorobenzene - Surrogate	-	%	-	94	-	-	-

SVOC

Test/Reference	PQL	Unit				
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2300 OC Pesticides in Soil by GC-MS							
a-BHC	0.5	mg/kg	-	<0.5	-	-	-
a-Chlordane	0.5	mg/kg	-	<0.5	-	-	-
a-Endosulfan	0.5	mg/kg	-	<0.5	-	-	-
Aldrin	0.5	mg/kg	-	<0.5	-	-	-
b-BHC	0.5	mg/kg	-	<0.5	-	-	-

Customer Sample ID	TP45 0-0.1	TP45 0.2-0.3	QC7A	TP45 0.4-0.5	TP45 0.9-1.0
Amdel Sample Number	936136	936137	936139	936141	936143
Date Sampled	03/04/2008	03/04/2008	03/04/2008	03/04/2008	03/04/2008
SVOC					
Test/Reference	PQL	Unit			
b-Endosulfan	0.5	mg/kg	-	<0.5	-
d-BHC	0.5	mg/kg	-	<0.5	-
DDD	0.5	mg/kg	-	<0.5	-
DDE	0.5	mg/kg	-	<0.5	-
DDT	0.5	mg/kg	-	<0.5	-
Dieldrin	0.5	mg/kg	-	<0.5	-
Endosulfan sulfate	0.5	mg/kg	-	<0.5	-
Endrin	0.5	mg/kg	-	<0.5	-
Endrin Aldehyde	0.5	mg/kg	-	<0.5	-
g-BHC	0.5	mg/kg	-	<0.5	-
g-Chlordane	0.5	mg/kg	-	<0.5	-
Heptachlor	0.5	mg/kg	-	<0.5	-
Heptachlor epoxide	0.5	mg/kg	-	<0.5	-
Hexachlorobenzene (HCB)	0.5	mg/kg	-	<0.5	-
Methoxychlor	0.5	mg/kg	-	<0.5	-
Oxychlordane	0.5	mg/kg	-	<0.5	-
2,4,5,6-tetrachloro-m-xylene - Surrogate	-	%	-	102	-
2100 PAH in Soil by GC					
Acenaphthene	0.5	mg/kg	-	<0.5	-
Acenaphthylene	0.5	mg/kg	-	<0.5	-
Anthracene	0.5	mg/kg	-	<0.5	-
Benz(a)anthracene	0.5	mg/kg	-	<0.5	-
Benzo(a)pyrene	0.5	mg/kg	-	<0.5	-
Benzo(b)&(k)fluoranthene	1	mg/kg	-	<1	-
Benzo(g,h,i)perylene	0.5	mg/kg	-	<0.5	-
Chrysene	0.5	mg/kg	-	<0.5	-
Dibenz(ah)anthracene	0.5	mg/kg	-	<0.5	-
Fluoranthene	0.5	mg/kg	-	<0.5	-
Fluorene	0.5	mg/kg	-	<0.5	-
Indeno(123-cd)pyrene	0.5	mg/kg	-	<0.5	-
Naphthalene	0.5	mg/kg	-	<0.5	-
Phenanthrene	0.5	mg/kg	-	<0.5	-
Pyrene	0.5	mg/kg	-	<0.5	-
Sum of PAHs	0.5	mg/kg	-	<0.5	-
2-Fluorobiphenyl - Surrogate	-	%	-	95	-
p-Terphenyl-D14 - Surrogate	-	%	-	125	-
Anthracene-d10 - Surrogate	-	%	-	102	-
2000 TPH (C10 - C36) in Soil by GC					
C10-C14 Fraction	10	mg/kg	-	<10	-
C15-C28 Fraction	20	mg/kg	-	<20	-
C29-C36 Fraction	20	mg/kg	-	<20	-
Metals					
Test/Reference	PQL	Unit			
3100 Total Metals in Soil By ICP/MS					
Arsenic	2	mg/kg	-	2.7	-
Cadmium	2	mg/kg	-	<2	-
Chromium	2	mg/kg	-	41	-
Copper	2	mg/kg	-	19	-
Lead	2	mg/kg	-	8.5	-

Customer Sample ID	TP45 0-0.1	TP45 0.2-0.3	QC7A	TP45 0.4-0.5	TP45 0.9-1.0
Amdel Sample Number	936136	936137	936139	936141	936143
Date Sampled	03/04/2008	03/04/2008	03/04/2008	03/04/2008	03/04/2008
Metals					
Test/Reference	PQL	Unit			
Nickel	2	mg/kg	-	16	-
Zinc	2	mg/kg	-	23	-
Inorganics					
Test/Reference	PQL	Unit			
4000 pH in Soil					
pH	0.1	pH	-	9.3	-
Miscellaneous					
Test/Reference	PQL	Unit			
5000 Moisture Content					
% Moisture	1	%	-	13	-

Customer Sample ID	TP45 1.9-2.0	TP46 0-0.1	TP46 0.2-0.3	TP46 0.4-0.5	TP46 0.9-1.0
Amdel Sample Number	936144	936145	936147	936148	936150
Date Sampled	03/04/2008	03/04/2008	03/04/2008	03/04/2008	03/04/2008
VOC					
Test/Reference	PQL	Unit			
1100 BTEX &(C6-C9) in Soil by P&T					
Benzene	0.2	mg/kg	-	<0.2	-
Ethylbenzene	1	mg/kg	-	<1.0	-
Meta- & Para- Xylene	2	mg/kg	-	<2.0	-
Ortho-Xylene	1	mg/kg	-	<1.0	-
Toluene	1	mg/kg	-	<1.0	-
Total Xylenes	3	mg/kg	-	<3.0	-
C6-C9 Fraction	5	mg/kg	-	<5.0	-
4-Bromofluorobenzene - Surrogate	-	%	-	102	-
SVOC					
Test/Reference	PQL	Unit			
2300 OC Pesticides in Soil by GC-MS					
a-BHC	0.5	mg/kg	-	<0.5	-
a-Chlordane	0.5	mg/kg	-	<0.5	-
a-Endosulfan	0.5	mg/kg	-	<0.5	-
Aldrin	0.5	mg/kg	-	<0.5	-
b-BHC	0.5	mg/kg	-	<0.5	-
b-Endosulfan	0.5	mg/kg	-	<0.5	-
d-BHC	0.5	mg/kg	-	<0.5	-
DDD	0.5	mg/kg	-	<0.5	-
DDE	0.5	mg/kg	-	<0.5	-
DDT	0.5	mg/kg	-	<0.5	-
Dieldrin	0.5	mg/kg	-	<0.5	-
Endosulfan sulfate	0.5	mg/kg	-	<0.5	-
Endrin	0.5	mg/kg	-	<0.5	-
Endrin Aldehyde	0.5	mg/kg	-	<0.5	-
g-BHC	0.5	mg/kg	-	<0.5	-
g-Chlordane	0.5	mg/kg	-	<0.5	-
Heptachlor	0.5	mg/kg	-	<0.5	-
Heptachlor epoxide	0.5	mg/kg	-	<0.5	-

Customer Sample ID	TP45 1.9-2.0	TP46 0-0.1	TP46 0.2-0.3	TP46 0.4-0.5	TP46 0.9-1.0
Amdel Sample Number	936144	936145	936147	936148	936150
Date Sampled	03/04/2008	03/04/2008	03/04/2008	03/04/2008	03/04/2008

SVOC

Test/Reference	PQL	Unit				
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Hexachlorobenzene (HCB)	0.5	mg/kg	-	<0.5	-	-
Methoxychlor	0.5	mg/kg	-	<0.5	-	-
Oxychlorane	0.5	mg/kg	-	<0.5	-	-
2,4,5,6-tetrachloro-m-xylene - Surrogate	-	%	-	106	-	-

2100 PAH in Soil by GC

Acenaphthene	0.5	mg/kg	-	<0.5	-	-
Acenaphthylene	0.5	mg/kg	-	<0.5	-	-
Anthracene	0.5	mg/kg	-	<0.5	-	-
Benz(a)anthracene	0.5	mg/kg	-	<0.5	-	-
Benzo(a)pyrene	0.5	mg/kg	-	<0.5	-	-
Benzo(b)&(k)fluoranthene	1	mg/kg	-	<1	-	-
Benzo(g,h,i)perylene	0.5	mg/kg	-	<0.5	-	-
Chrysene	0.5	mg/kg	-	<0.5	-	-
Dibenz(ah)anthracene	0.5	mg/kg	-	<0.5	-	-
Fluoranthene	0.5	mg/kg	-	<0.5	-	-
Fluorene	0.5	mg/kg	-	<0.5	-	-
Indeno(123-cd)pyrene	0.5	mg/kg	-	<0.5	-	-
Naphthalene	0.5	mg/kg	-	<0.5	-	-
Phenanthrene	0.5	mg/kg	-	<0.5	-	-
Pyrene	0.5	mg/kg	-	<0.5	-	-
Sum of PAHs	0.5	mg/kg	-	<0.5	-	-
2-Fluorobiphenyl - Surrogate	-	%	-	95	-	-
p-Terphenyl-D14 - Surrogate	-	%	-	122	-	-
Anthracene-d10 - Surrogate	-	%	-	96	-	-

2000 TPH (C10 - C36) in Soil by GC

C10-C14 Fraction	10	mg/kg	-	<10	-	-
C15-C28 Fraction	20	mg/kg	-	<20	-	-
C29-C36 Fraction	20	mg/kg	-	<20	-	-

Metals

Test/Reference	PQL	Unit				
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3100 Total Metals in Soil By ICP/MS

Arsenic	2	mg/kg	-	<2	-	-
Cadmium	2	mg/kg	-	<2	-	-
Chromium	2	mg/kg	-	22	-	-
Copper	2	mg/kg	-	26	-	-
Lead	2	mg/kg	-	6.8	-	-
Nickel	2	mg/kg	-	7.2	-	-
Zinc	2	mg/kg	-	15	-	-

Inorganics

Test/Reference	PQL	Unit				
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4000 pH in Soil						
pH	0.1	pH	-	6.7	-	-

Miscellaneous

Test/Reference	PQL	Unit				
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5000 Moisture Content						
% Moisture	1	%	-	3	-	-

Customer Sample ID	TP46 1.9-2.0	TP47 0-0.1	QC8A	TP47 0.2-0.3	TP47 0.4-0.5
Amdel Sample Number	936151	936152	936154	936155	936156
Date Sampled	03/04/2008	03/04/2008	03/04/2008	03/04/2008	03/04/2008

VOC					
Test/Reference	PQL	Unit			

1100 MAH(BTEX & C6-C9) in Soil P&T

Benzene	0.2	mg/kg	-	<0.2	-	-	-
Cumene	0.5	mg/kg	-	<0.5	-	-	-
Ethylbenzene	1	mg/kg	-	<1.0	-	-	-
Meta- & Para- Xylene	2	mg/kg	-	<2.0	-	-	-
Ortho-Xylene	1	mg/kg	-	<1.0	-	-	-
Styrene	0.5	mg/kg	-	<0.5	-	-	-
Toluene	1	mg/kg	-	<1.0	-	-	-
Total Xylenes	3	mg/kg	-	<3.0	-	-	-
C6-C9 Fraction	5	mg/kg	-	<5.0	-	-	-
4-Bromofluorobenzene - Surrogate	-	%	-	103	-	-	-

1300 VOCs in Soil by P&T

1,1,1,2-Tetrachloroethane	1	mg/kg	-	<1.0	-	-	-
1,1,1-Trichloroethane	1	mg/kg	-	<1.0	-	-	-
1,1,2,2-Tetrachloroethane	1	mg/kg	-	<1.0	-	-	-
1,1,2-Trichloroethane	1	mg/kg	-	<1.0	-	-	-
1,1-Dichloroethane	1	mg/kg	-	<1.0	-	-	-
1,1-Dichloroethene	1	mg/kg	-	<1.0	-	-	-
1,1-Dichloropropylene	1	mg/kg	-	<1.0	-	-	-
1,2,3-Trichlorobenzene	1	mg/kg	-	<1.0	-	-	-
1,2,3-Trichloropropane	1	mg/kg	-	<1.0	-	-	-
1,2,4-Trichlorobenzene	1	mg/kg	-	<1.0	-	-	-
1,2,4-Trimethylbenzene	1	mg/kg	-	<1.0	-	-	-
1,2-Dibromo-3-chloropropane	1	mg/kg	-	<1.0	-	-	-
1,2-Dibromoethane	1	mg/kg	-	<1.0	-	-	-
1,2-Dichlorobenzene	1	mg/kg	-	<1.0	-	-	-
1,2-Dichloroethane	1	mg/kg	-	<1.0	-	-	-
1,2-Dichloropropane	1	mg/kg	-	<1.0	-	-	-
1,3,5-Trimethylbenzene	1	mg/kg	-	<1.0	-	-	-
1,3-Dichlorobenzene	1	mg/kg	-	<1.0	-	-	-
1,3-Dichloropropane	1	mg/kg	-	<1.0	-	-	-
1,4-Dichlorobenzene	1	mg/kg	-	<1.0	-	-	-
2,2-Dichloropropane	10	mg/kg	-	<10.0	-	-	-
2-butanone	10	mg/kg	-	<10.0	-	-	-
2-Chlorotoluene	1	mg/kg	-	<1.0	-	-	-
4-Chlorotoluene	1	mg/kg	-	<1.0	-	-	-
4-methyl-2-pentanone	10	mg/kg	-	<10.0	-	-	-
Benzene	0.2	mg/kg	-	<0.2	-	-	-
Bromobenzene	1	mg/kg	-	<1.0	-	-	-
Bromochloromethane	1	mg/kg	-	<1.0	-	-	-
Bromodichloromethane	1	mg/kg	-	<1.0	-	-	-
Bromoform	1	mg/kg	-	<1.0	-	-	-
Bromomethane	1	mg/kg	-	<1.0	-	-	-
Carbon Tetrachloride	1	mg/kg	-	<1.0	-	-	-
Chlorobenzene	1	mg/kg	-	<1.0	-	-	-
Chloroethane	1	mg/kg	-	<1.0	-	-	-
Chloroform	1	mg/kg	-	<1.0	-	-	-
Chloromethane	1	mg/kg	-	<1.0	-	-	-
cis-1,2-Dichloroethene	1	mg/kg	-	<1.0	-	-	-
cis-1,3-Dichloropropene	1	mg/kg	-	<1.0	-	-	-

Customer Sample ID	TP46 1.9-2.0	TP47 0-0.1	QC8A	TP47 0.2-0.3	TP47 0.4-0.5
Amdel Sample Number	936151	936152	936154	936155	936156
Date Sampled	03/04/2008	03/04/2008	03/04/2008	03/04/2008	03/04/2008

VOC						
Test/Reference	PQL	Unit				
Dibromochloromethane	1	mg/kg	-	<1.0	-	-
Dibromomethane	1	mg/kg	-	<1.0	-	-
Dichlorodifluoromethane	1	mg/kg	-	<1.0	-	-
Ethylbenzene	1	mg/kg	-	<1.0	-	-
Hexachlorobutadiene	1	mg/kg	-	<1.0	-	-
Hexachloroethane	1	mg/kg	-	<1.0	-	-
Isopropylbenzene	0.5	mg/kg	-	<0.5	-	-
Meta- & Para- Xylene	2	mg/kg	-	<2.0	-	-
Methylene Chloride	5	mg/kg	-	<5.0	-	-
Naphthalene	1	mg/kg	-	<1.0	-	-
n-Butylbenzene	1	mg/kg	-	<1.0	-	-
n-Propylbenzene	1	mg/kg	-	<1.0	-	-
Ortho-Xylene	1	mg/kg	-	<1.0	-	-
Pentachloroethane	1	mg/kg	-	<1.0	-	-
p-Isopropyltoluene	1	mg/kg	-	<1.0	-	-
sec-Butylbenzene	1	mg/kg	-	<1.0	-	-
Styrene	0.5	mg/kg	-	<0.5	-	-
tert-Butylbenzene	1	mg/kg	-	<1.0	-	-
Tetrachloroethene	1	mg/kg	-	<1.0	-	-
Toluene	1	mg/kg	-	<1.0	-	-
trans-1,2-Dichloroethene	1	mg/kg	-	<1.0	-	-
trans-1,3-Dichloropropene	1	mg/kg	-	<1.0	-	-
Trichloroethene	1	mg/kg	-	<1.0	-	-
Trichlorofluoromethane	1	mg/kg	-	<1.0	-	-
Vinyl Chloride	1	mg/kg	-	<1.0	-	-
Total Xylenes	3	mg/kg	-	<3.0	-	-
Toluene-D8 - Surrogate	1	%	-	90	-	-
4-Bromofluorobenzene - Surrogate	1	%	-	80	-	-
Pentafluorobenzene-Surrogate	1	%	-	77	-	-

SVOC						
Test/Reference	PQL	Unit				
2300 OC Pesticides in Soil by GC-MS						
a-BHC	0.5	mg/kg	-	<0.5	-	-
a-Chlordane	0.5	mg/kg	-	<0.5	-	-
a-Endosulfan	0.5	mg/kg	-	<0.5	-	-
Aldrin	0.5	mg/kg	-	<0.5	-	-
b-BHC	0.5	mg/kg	-	<0.5	-	-
b-Endosulfan	0.5	mg/kg	-	<0.5	-	-
d-BHC	0.5	mg/kg	-	<0.5	-	-
DDD	0.5	mg/kg	-	<0.5	-	-
DDE	0.5	mg/kg	-	<0.5	-	-
DDT	0.5	mg/kg	-	<0.5	-	-
Dieldrin	0.5	mg/kg	-	<0.5	-	-
Endosulfan sulfate	0.5	mg/kg	-	<0.5	-	-
Endrin	0.5	mg/kg	-	<0.5	-	-
Endrin Aldehyde	0.5	mg/kg	-	<0.5	-	-
g-BHC	0.5	mg/kg	-	<0.5	-	-
g-Chlordane	0.5	mg/kg	-	<0.5	-	-
Heptachlor	0.5	mg/kg	-	<0.5	-	-

Customer Sample ID	TP46 1.9-2.0	TP47 0-0.1	QC8A	TP47 0.2-0.3	TP47 0.4-0.5
Amdel Sample Number	936151	936152	936154	936155	936156
Date Sampled	03/04/2008	03/04/2008	03/04/2008	03/04/2008	03/04/2008
SVOC					
Test/Reference	PQL	Unit			
Heptachlor epoxide	0.5	mg/kg	-	<0.5	-
Hexachlorobenzene (HCB)	0.5	mg/kg	-	<0.5	-
Methoxychlor	0.5	mg/kg	-	<0.5	-
Oxychlorodane	0.5	mg/kg	-	<0.5	-
2,4,5,6-tetrachloro-m-xylene - Surrogate	-	%	-	110	-
2100 PAH in Soil by GC					
Acenaphthene	0.5	mg/kg	-	<0.5	-
Acenaphthylene	0.5	mg/kg	-	<0.5	-
Anthracene	0.5	mg/kg	-	<0.5	-
Benz(a)anthracene	0.5	mg/kg	-	<0.5	-
Benzo(a)pyrene	0.5	mg/kg	-	<0.5	-
Benzo(b)&(k)fluoranthene	1	mg/kg	-	<1	-
Benzo(g,h,i)perylene	0.5	mg/kg	-	<0.5	-
Chrysene	0.5	mg/kg	-	<0.5	-
Dibenz(ah)anthracene	0.5	mg/kg	-	<0.5	-
Fluoranthene	0.5	mg/kg	-	<0.5	-
Fluorene	0.5	mg/kg	-	<0.5	-
Indeno(123-cd)pyrene	0.5	mg/kg	-	<0.5	-
Naphthalene	0.5	mg/kg	-	<0.5	-
Phenanthrene	0.5	mg/kg	-	<0.5	-
Pyrene	0.5	mg/kg	-	<0.5	-
Sum of PAHs	0.5	mg/kg	-	<0.5	-
2-Fluorobiphenyl - Surrogate	-	%	-	99	-
p-Terphenyl-D14 - Surrogate	-	%	-	124	-
Anthracene-d10 - Surrogate	-	%	-	102	-
2600 PCBs in Soil by GC					
Aroclor 1016DB	0.5	mg/kg	-	<0.5	-
Aroclor 1221DB	0.5	mg/kg	-	<0.5	-
Aroclor 1232 and 1242 as totalDB	1	mg/kg	-	<1	-
Aroclor 1248 and 1254 as totalDB	1	mg/kg	-	<1	-
Aroclor 1260DB	0.5	mg/kg	-	<0.5	-
Total Polychlorinated biphenylsDB	1	mg/kg	-	<1	-
Decachlorobiphenyl - PCB surrogate	1	%	-	98	-
2800 Individual Phenols in Soil by GC					
2,3,4,6-Tetrachlorophenol	1	mg/kg	-	<1	-
2,3,4-Trichlorophenol	0.5	mg/kg	-	<0.5	-
2,3,5,6-Tetrachlorophenol	1	mg/kg	-	<1	-
2,3,5-Trichlorophenol	0.5	mg/kg	-	<0.5	-
2,3,6-Trichlorophenol	0.5	mg/kg	-	<0.5	-
2,3-Dichlorophenol	1	mg/kg	-	<1	-
2,4 & 2,5-Dichlorophenol	2	mg/kg	-	<2	-
2,4,6-Trichlorophenol	0.5	mg/kg	-	<0.5	-
2,6-Dichlorophenol	0.5	mg/kg	-	<0.5	-
2-Chlorophenol	0.5	mg/kg	-	<0.5	-
2-Methylphenol	0.5	mg/kg	-	<0.5	-
3,4-Dichlorophenol	0.5	mg/kg	-	<0.5	-
3,5-Dichlorophenol	0.5	mg/kg	-	<0.5	-
3-Chlorophenol & 4-Chlorophenol	1	mg/kg	-	<1	-
3-Methylphenol & 4-Methylphenol	1	mg/kg	-	<1	-

Customer Sample ID	TP46 1.9-2.0	TP47 0-0.1	QC8A	TP47 0.2-0.3	TP47 0.4-0.5
Amdel Sample Number	936151	936152	936154	936155	936156
Date Sampled	03/04/2008	03/04/2008	03/04/2008	03/04/2008	03/04/2008

SVOC

Test/Reference	PQL	Unit				
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4-Chloro-3-methylphenol	0.5	mg/kg	-	<0.5	-	-
Pentachlorophenol	1	mg/kg	-	<1	-	-
Phenol	0.5	mg/kg	-	<0.5	-	-
2,4,6-Tribromophenol-Surrogate	1	%	-	44	-	-
2000 TPH (C10 - C36) in Soil by GC						
C10-C14 Fraction	10	mg/kg	-	<10	-	-
C15-C28 Fraction	20	mg/kg	-	<20	-	-
C29-C36 Fraction	20	mg/kg	-	<20	-	-

Metals

Test/Reference	PQL	Unit				
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3400 Mercury in Soil by FIMS

Mercury	0.01	mg/kg	-	0.01	-	-
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3100 Total Metals in Soil By ICP/MS

Antimony	2	mg/kg	-	<2	-	-
Arsenic	2	mg/kg	-	<2	-	-
Barium	2	mg/kg	-	37	-	-
Cadmium	2	mg/kg	-	<2	-	-
Chromium	2	mg/kg	-	20	-	-
Cobalt	2	mg/kg	-	5.0	-	-
Copper	2	mg/kg	-	8.9	-	-
Lead	2	mg/kg	-	7.2	-	-
Manganese	2	mg/kg	-	170	-	-
Molybdenum	2	mg/kg	-	<2	-	-
Nickel	2	mg/kg	-	7.3	-	-
Selenium	2	mg/kg	-	<2	-	-
Tin	2	mg/kg	-	<2	-	-
Zinc	2	mg/kg	-	12	-	-

Inorganics

Test/Reference	PQL	Unit				
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4300 Anions in Soil by IC

Fluoride (Soluble)	2	mg/kg	-	<2	-	-
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4270 Total Cyanide in Soil Colourmetric

Total Cyanide	0.1	mg/kg	-	0.4	-	-
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4000 pH in Soil

pH	0.1	pH	-	6.8	-	-
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Miscellaneous

Test/Reference	PQL	Unit				
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5000 Moisture Content

% Moisture	1	%	-	4	-	-
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Customer Sample ID	TP47 0.9-1.0	TP47 1.9-2.0	TP48 0-0.1	TP48 0.2-0.3	QC9A
Amdel Sample Number	936158	936159	936160	936162	936163
Date Sampled	03/04/2008	03/04/2008	03/04/2008	03/04/2008	03/04/2008

VOC

Test/Reference	PQL	Unit				
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1100 BTEX &(C6-C9) in Soil by P&T

Benzene	0.2	mg/kg	-	-	-	<0.2
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Customer Sample ID	TP47 0.9-1.0	TP47 1.9-2.0	TP48 0-0.1	TP48 0.2-0.3	QC9A
Amdel Sample Number	936158	936159	936160	936162	936163
Date Sampled	03/04/2008	03/04/2008	03/04/2008	03/04/2008	03/04/2008

VOC						
Test/Reference	PQL	Unit				
Ethylbenzene	1	mg/kg	-	-	-	<1.0
Meta- & Para- Xylene	2	mg/kg	-	-	-	<2.0
Ortho-Xylene	1	mg/kg	-	-	-	<1.0
Toluene	1	mg/kg	-	-	-	<1.0
Total Xylenes	3	mg/kg	-	-	-	<3.0
C6-C9 Fraction	5	mg/kg	-	-	-	<5.0
4-Bromofluorobenzene - Surrogate	-	%	-	-	-	101

SVOC						
Test/Reference	PQL	Unit				

2300 OC Pesticides in Soil by GC-MS

a-BHC	0.5	mg/kg	-	-	-	<0.5
a-Chlordane	0.5	mg/kg	-	-	-	<0.5
a-Endosulfan	0.5	mg/kg	-	-	-	<0.5
Aldrin	0.5	mg/kg	-	-	-	<0.5
b-BHC	0.5	mg/kg	-	-	-	<0.5
b-Endosulfan	0.5	mg/kg	-	-	-	<0.5
d-BHC	0.5	mg/kg	-	-	-	<0.5
DDD	0.5	mg/kg	-	-	-	<0.5
DDE	0.5	mg/kg	-	-	-	<0.5
DDT	0.5	mg/kg	-	-	-	<0.5
Dieldrin	0.5	mg/kg	-	-	-	<0.5
Endosulfan sulfate	0.5	mg/kg	-	-	-	<0.5
Endrin	0.5	mg/kg	-	-	-	<0.5
Endrin Aldehyde	0.5	mg/kg	-	-	-	<0.5
g-BHC	0.5	mg/kg	-	-	-	<0.5
g-Chlordane	0.5	mg/kg	-	-	-	<0.5
Heptachlor	0.5	mg/kg	-	-	-	<0.5
Heptachlor epoxide	0.5	mg/kg	-	-	-	<0.5
Hexachlorobenzene (HCB)	0.5	mg/kg	-	-	-	<0.5
Methoxychlor	0.5	mg/kg	-	-	-	<0.5
Oxychlordane	0.5	mg/kg	-	-	-	<0.5
2,4,5,6-tetrachloro-m-xylene - Surrogate	-	%	-	-	-	108

2100 PAH in Soil by GC

Acenaphthene	0.5	mg/kg	-	-	-	<0.5
Acenaphthylene	0.5	mg/kg	-	-	-	<0.5
Anthracene	0.5	mg/kg	-	-	-	<0.5
Benz(a)anthracene	0.5	mg/kg	-	-	-	<0.5
Benzo(a)pyrene	0.5	mg/kg	-	-	-	<0.5
Benzo(b)&(k)fluoranthene	1	mg/kg	-	-	-	<1
Benzo(g,h,i)perylene	0.5	mg/kg	-	-	-	<0.5
Chrysene	0.5	mg/kg	-	-	-	<0.5
Dibenz(ah)anthracene	0.5	mg/kg	-	-	-	<0.5
Fluoranthene	0.5	mg/kg	-	-	-	<0.5
Fluorene	0.5	mg/kg	-	-	-	<0.5
Indeno(123-cd)pyrene	0.5	mg/kg	-	-	-	<0.5
Naphthalene	0.5	mg/kg	-	-	-	<0.5
Phenanthrene	0.5	mg/kg	-	-	-	<0.5
Pyrene	0.5	mg/kg	-	-	-	<0.5
Sum of PAHs	0.5	mg/kg	-	-	-	<0.5

Customer Sample ID	TP47 0.9-1.0	TP47 1.9-2.0	TP48 0-0.1	TP48 0.2-0.3	QC9A
Amdel Sample Number	936158	936159	936160	936162	936163
Date Sampled	03/04/2008	03/04/2008	03/04/2008	03/04/2008	03/04/2008

SVOC						
Test/Reference	PQL	Unit				
2-Fluorobiphenyl - Surrogate	-	%	-	-	-	100
p-Terphenyl-D14 - Surrogate	-	%	-	-	-	122
Anthracene-d10 - Surrogate	-	%	-	-	-	101
2000 TPH (C10 - C36) in Soil by GC						
C10-C14 Fraction	10	mg/kg	-	-	-	<10
C15-C28 Fraction	20	mg/kg	-	-	-	<20
C29-C36 Fraction	20	mg/kg	-	-	-	<20

Metals						
Test/Reference	PQL	Unit				
3100 Total Metals in Soil By ICP/MS						
Arsenic	2	mg/kg	-	-	-	<2
Cadmium	2	mg/kg	-	-	-	<2
Chromium	2	mg/kg	-	-	-	38
Copper	2	mg/kg	-	-	-	19
Lead	2	mg/kg	-	-	-	16
Nickel	2	mg/kg	-	-	-	13
Zinc	2	mg/kg	-	-	-	23

Inorganics						
Test/Reference	PQL	Unit				
4000 pH in Soil						
pH	0.1	pH	-	-	-	6.3

Miscellaneous						
Test/Reference	PQL	Unit				
5000 Moisture Content						
% Moisture	1	%	-	-	-	4

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.

Description	Extracted	Analysed
1100 BTEX &(C6-C9) in Soil by P&T		13/04/2008
1100 MAH(BTEX & C6-C9) in Soil P&T		13/04/2008
1300 VOCs in Soil by P&T	11/04/2008	14/04/2008
2000 TPH (C10 - C36) in Soil by GC	08/04/2008	11/04/2008
2100 PAH in Soil by GC	08/04/2008	13/04/2008
2300 OC Pesticides in Soil by GC-MS	08/04/2008	14/04/2008
2600 PCBs in Soil by GC	08/04/2008	14/04/2008
2800 Individual Phenols in Soil by GC	08/04/2008	11/04/2008
3100 Total Metals in Soil By ICP/MS	15/04/2008	16/04/2008
3400 Mercury in Soil by FIMS	14/04/2008	15/04/2008
4000 pH in Soil		14/04/2008
4270 Total Cyanide in Soil Colourmetric	10/04/2008	11/04/2008
4300 Anions in Soil by IC	08/04/2008	10/04/2008
5000 Moisture Content		07/04/2008

Amdel Internal Quality Control Review

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. Amdel QC Acceptance/Rejection criteria are available on request.
3. Proficiency trial results are available on request.
4. Actual PQLs are matrix dependant. Quotes PQLs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spike or surrogate recoveries.
6. Test samples duplicated or spiked, are for this job only and are identified in the following QC report.
7. SVOC analyses on waters are performed on homogenized, unfiltered sample, unless noted otherwise.
8. When individual results are qualified in the body of a report, refer to the qualifier descriptions that follow.

Holding Times

Please refer to 'Sampling and Preservation Chart for Soils & Waters' for holding times. (Form LM-FOR-ADM-020)

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgement.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitability qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT an RPD

Quality Control Results

Laboratory: **EN_METALS**

Sample, Test, Result Reference	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Codes
950760 [Method Blank]						
3100 Metals in Soil - As Received						
Antimony	mg/kg	<2		< 2	T	
Arsenic	mg/kg	<2		< 2	T	
Barium	mg/kg	<2		< 2	T	
Beryllium	mg/kg	<2		< 2	T	
Cadmium	mg/kg	<2		< 2	T	
Chromium	mg/kg	<2		< 2	T	
Cobalt	mg/kg	<2		< 2	T	
Copper	mg/kg	<2		< 2	T	
Lead	mg/kg	<2		< 2	T	
Manganese	mg/kg	<2		< 2	T	
Molybdenum	mg/kg	<2		< 2	T	
Nickel	mg/kg	<2		< 2	T	
Selenium	mg/kg	<2		< 2	T	
Tin	mg/kg	<2		< 2	T	
Vanadium	mg/kg	<2		< 2	T	
Zinc	mg/kg	<2		< 2	T	
950958 [Method Blank]						
3400 Mercury in Soil by FIMS						
Mercury	mg/kg	<0.01		< 0.01	T	

Laboratory: EN_METALS

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
950761 [Laboratory Control Sample]							
3100 Metals in Soil - As Received			Expected Value	Percent Recovery			
Antimony	mg/kg	100	100.0	102	70-130 %	T	
Arsenic	mg/kg	98	100.0	98	70-130 %	T	
Barium	mg/kg	110	100.0	112	70-130 %	T	
Cadmium	mg/kg	100	100.0	101	70-130 %	T	
Chromium	mg/kg	100	100.0	104	70-130 %	T	
Cobalt	mg/kg	91	100.0	91	70-130 %	T	
Copper	mg/kg	94	100.0	94	70-130 %	T	
Lead	mg/kg	110	100.0	111	70-130 %	T	
Manganese	mg/kg	94	100.0	94	70-130 %	T	
Molybdenum	mg/kg	120	100.0	116	70-130 %	T	
Nickel	mg/kg	96	100.0	96	70-130 %	T	
Selenium	mg/kg	93	100.0	93	70-130 %	T	
Tin	mg/kg	110	100.0	112	70-130 %	T	
Vanadium	mg/kg	99	100.0	99	70-130 %	T	
Zinc	mg/kg	89	100.0	89	70-130 %	T	
950959 [Laboratory Control Sample]							
3400 Mercury in Soil by FIMS			Expected Value	Percent Recovery			
Mercury	mg/kg	9.9	10.0	99	80-120 %	T	
939055 [Duplicate of 936078]							
3100 Total Metals in Soil By ICP/MS			Result 2	RPD			
Arsenic	mg/kg	3.0	3.4	12	0-30 %	T	
Cadmium	mg/kg	<2	<2	<1	0-30 %	T	
Chromium	mg/kg	61	60	1	0-30 %	T	
Copper	mg/kg	28	30	6	0-30 %	T	
Lead	mg/kg	20	23	13	0-30 %	T	
Nickel	mg/kg	22	23	4	0-30 %	T	
Zinc	mg/kg	31	31	<1	0-30 %	T	
939073 [Spike of 936086]							
3100 Total Metals in Soil By ICP/MS			Spike Value	Percent Recovery			
Arsenic	mg/kg	95	100.0	93	70-130 %	T	
Cadmium	mg/kg	93	100.0	93	70-130 %	T	
Chromium	mg/kg	130	100.0	95	70-130 %	T	
Copper	mg/kg	100	100.0	90	70-130 %	T	
Lead	mg/kg	110	100.0	97	70-130 %	T	
Nickel	mg/kg	100	100.0	94	70-130 %	T	
Zinc	mg/kg	99	100.0	83	70-130 %	T	

Laboratory: EN_PREP

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
939052 [Duplicate of 936079]							
5000 Moisture Content			Result 2	RPD			
% Moisture	%	14	14	N/A	N/A	N/A	
939071 [Duplicate of 936079]							
5000 Moisture Content			Result 2	RPD			
% Moisture	%	14	14	N/A	N/A	N/A	

Laboratory: EN_SVOC

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
939687 [Method Blank]							
2000 TPH (C10 - C36) in Soil by GC							
C10-C14 Fraction	mg/kg	<10			< 10	T	
C15-C28 Fraction	mg/kg	<20			< 20	T	
C29-C36 Fraction	mg/kg	<20			< 20	T	

Laboratory: EN_SVOC

Sample, Test, Result Reference	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Codes
939689 [Method Blank]						
2100 PAH in Soil by GC						
Acenaphthene	mg/kg	<0.5		< 0.5	T	
Acenaphthylene	mg/kg	<0.5		< 0.5	T	
Anthracene	mg/kg	<0.5		< 0.5	T	
Benz(a)anthracene	mg/kg	<0.5		< 0.5	T	
Benzo(a)pyrene	mg/kg	<0.5		< 0.5	T	
Benzo(b)&(k)fluoranthene	mg/kg	<1		< 1	T	
Benzo(g,h,i)perylene	mg/kg	<0.5		< 0.5	T	
Chrysene	mg/kg	<0.5		< 0.5	T	
Dibenz(ah)anthracene	mg/kg	<0.5		< 0.5	T	
Fluoranthene	mg/kg	<0.5		< 0.5	T	
Fluorene	mg/kg	<0.5		< 0.5	T	
Indeno(123-cd)pyrene	mg/kg	<0.5		< 0.5	T	
Naphthalene	mg/kg	<0.5		< 0.5	T	
Phenanthrene	mg/kg	<0.5		< 0.5	T	
Pyrene	mg/kg	<0.5		< 0.5	T	
Sum of PAHs	mg/kg	<0.5		< 0.5	T	
2-Fluorobiphenyl - Surrogate	%	100		70-130 %	T	
Anthracene-d10 - Surrogate	%	100		70-130 %	T	
p-Terphenyl-D14 - Surrogate	%	126		70-130 %	T	
2300 OC Pesticides in Soil by GC-MS						
a-BHC	mg/kg	<0.5		< 0.5	T	
a-Chlordane	mg/kg	<0.5		< 0.5	T	
a-Endosulfan	mg/kg	<0.5		< 0.5	T	
Aldrin	mg/kg	<0.5		< 0.5	T	
b-BHC	mg/kg	<0.5		< 0.5	T	
b-Endosulfan	mg/kg	<0.5		< 0.5	T	
d-BHC	mg/kg	<0.5		< 0.5	T	
DDD	mg/kg	<0.5		< 0.5	T	
DDE	mg/kg	<0.5		< 0.5	T	
DDT	mg/kg	<0.5		< 0.5	T	
Dieldrin	mg/kg	<0.5		< 0.5	T	
Endosulfan sulfate	mg/kg	<0.5		< 0.5	T	
Endrin	mg/kg	<0.5		< 0.5	T	
Endrin Aldehyde	mg/kg	<0.5		< 0.5	T	
g-BHC	mg/kg	<0.5		< 0.5	T	
g-Chlordane	mg/kg	<0.5		< 0.5	T	
Heptachlor	mg/kg	<0.5		< 0.5	T	
Heptachlor epoxide	mg/kg	<0.5		< 0.5	T	
Hexachlorobenzene (HCB)	mg/kg	<0.5		< 0.5	T	
Methoxychlor	mg/kg	<0.5		< 0.5	T	
Oxychlordane	mg/kg	<0.5		< 0.5	T	
2,4,5,6-tetrachloro-m-xylene - Surrogate	%	105		70-130 %	T	
2600 PCBs in Soil by GC						
Aroclor 1016	mg/kg	<0.5		< 0.5	T	
Aroclor 1221	mg/kg	<0.5		< 0.5	T	
Aroclor 1232 and 1242 as total	mg/kg	<1		< 1	T	
Aroclor 1248 and 1254 as total	mg/kg	<1		< 1	T	
Aroclor 1260	mg/kg	<0.5		< 0.5	T	
Total Polychlorinated biphenyls	mg/kg	<1		< 1	T	
Decachlorobiphenyl - PCB surrogate	%	91		70-130 %	T	
2800 Individual Phenols in Soil by GC						
2,3,4,6-Tetrachlorophenol	mg/kg	<1		< 1	T	
2,3,4-Trichlorophenol	mg/kg	<0.5		< 0.5	T	
2,3,5,6-Tetrachlorophenol	mg/kg	<1		< 1	T	
2,3,5-Trichlorophenol	mg/kg	<0.5		< 0.5	T	
2,3,6-Trichlorophenol	mg/kg	<0.5		< 0.5	T	
2,3-Dichlorophenol	mg/kg	<1		< 1	T	
2,4&2,5-Dichlorophenol	mg/kg	<2		< 2	T	

Laboratory: EN_SVOC

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
939689 [Method Blank]							
2800 Individual Phenols in Soil by GC							
2,4,6-Trichlorophenol	mg/kg	<0.5			< 0.5	T	
2,6-Dichlorophenol	mg/kg	<0.5			< 0.5	T	
2-Chlorophenol	mg/kg	<0.5			< 0.5	T	
2-Methylphenol	mg/kg	<0.5			< 0.5	T	
3,4-Dichlorophenol	mg/kg	<0.5			< 0.5	T	
3,5-Dichlorophenol	mg/kg	<0.5			< 0.5	T	
3-Chlorophenol & 4-Chlorophenol	mg/kg	<1			< 1	T	
3-Methylphenol & 4-Methylphenol	mg/kg	<1			< 1	T	
4-Chloro-3-methylphenol	mg/kg	<0.5			< 0.5	T	
Pentachlorophenol	mg/kg	<1			< 1	T	
Phenol	mg/kg	<0.5			< 0.5	T	
2,4,6-Tribromophenol-Surrogate	%	104			50-130 %	T	
939694 [Method Blank]							
2000 TPH (C10 - C36) in Soil by GC							
C10-C14 Fraction	mg/kg	<10			< 10	T	
C15-C28 Fraction	mg/kg	<20			< 20	T	
C29-C36 Fraction	mg/kg	<20			< 20	T	
939688 [Laboratory Control Sample]							
2000 TPH (C10 - C36) in Soil by GC							
			Expected Value	Percent Recovery			
C10-C14 Fraction	mg/kg	110	125.0	88	70-130 %	T	
C15-C28 Fraction	mg/kg	100	125.0	82	70-130 %	T	
C29-C36 Fraction	mg/kg	110	125.0	90	70-130 %	T	
939692 [Laboratory Control Sample]							
2800 Individual Phenols in Soil by GC							
			Expected Value	Percent Recovery			
2,3,4,6-Tetrachlorophenol	mg/kg	4.3	4.0	108	50-130 %	T	
2,3,4-Trichlorophenol	mg/kg	4.3	4.0	108	50-130 %	T	
2,3,5,6-Tetrachlorophenol	mg/kg	4.3	4.0	108	50-130 %	T	
2,3,5-Trichlorophenol	mg/kg	4.2	4.0	106	50-130 %	T	
2,3,6-Trichlorophenol	mg/kg	4.1	4.0	103	50-130 %	T	
2,3-Dichlorophenol	mg/kg	4.0	4.0	100	50-130 %	T	
2,4&2,5-Dichlorophenol	mg/kg	8.6	8.0	108	50-130 %	T	
2,4,6-Trichlorophenol	mg/kg	4.2	4.0	106	50-130 %	T	
2,6-Dichlorophenol	mg/kg	4.1	4.0	102	50-130 %	T	
2-Chlorophenol	mg/kg	4.2	4.0	104	50-130 %	T	
2-Methylphenol	mg/kg	4.2	4.0	105	50-130 %	T	
3,4-Dichlorophenol	mg/kg	4.3	4.0	108	50-130 %	T	
3,5-Dichlorophenol	mg/kg	4.4	4.0	110	50-130 %	T	
3-Chlorophenol & 4-Chlorophenol	mg/kg	8.4	8.0	105	50-130 %	T	
3-Methylphenol & 4-Methylphenol	mg/kg	8.5	8.0	106	50-130 %	T	
4-Chloro-3-methylphenol	mg/kg	4.3	4.0	108	50-130 %	T	
Pentachlorophenol	mg/kg	8.6	8.0	107	50-130 %	T	
Phenol	mg/kg	4.5	4.0	113	50-130 %	T	
2,4,6-Tribromophenol-Surrogate	%	104			50-130 %	T	
939695 [Laboratory Control Sample]							
2000 TPH (C10 - C36) in Soil by GC							
			Expected Value	Percent Recovery			
C10-C14 Fraction	mg/kg	110	125.0	91	70-130 %	T	
C15-C28 Fraction	mg/kg	110	125.0	89	70-130 %	T	
C29-C36 Fraction	mg/kg	120	125.0	96	70-130 %	T	

Laboratory: EN_SVOC

Sample, Test, Result Reference	Units	Result 1	Result 2	RPD	Acceptance Limits	Pass Limits	Qualifying Codes
939058 [Duplicate of 936078]							
2300 OC Pesticides in Soil by GC-MS			Result 2	RPD			
a-BHC	mg/kg	<0.5	<0.5	<1	0-30 %	T	
a-Chlordane	mg/kg	<0.5	<0.5	<1	0-30 %	T	
a-Endosulfan	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Aldrin	mg/kg	<0.5	<0.5	<1	0-30 %	T	
b-BHC	mg/kg	<0.5	<0.5	<1	0-30 %	T	
b-Endosulfan	mg/kg	<0.5	<0.5	<1	0-30 %	T	
d-BHC	mg/kg	<0.5	<0.5	<1	0-30 %	T	
DDD	mg/kg	<0.5	<0.5	<1	0-30 %	T	
DDE	mg/kg	<0.5	<0.5	<1	0-30 %	T	
DDT	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Dieldrin	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Endosulfan sulfate	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Endrin	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Endrin Aldehyde	mg/kg	<0.5	<0.5	<1	0-30 %	T	
g-BHC	mg/kg	<0.5	<0.5	<1	0-30 %	T	
g-Chlordane	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Heptachlor	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Heptachlor epoxide	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Hexachlorobenzene (HCB)	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Methoxychlor	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Oxychlordane	mg/kg	<0.5	<0.5	<1	0-30 %	T	
2,4,5,6-tetrachloro-m-xylene - Surrogate	%	104			70-130 %	T	
939062 [Duplicate of 936078]							
2100 PAH in Soil by GC			Result 2	RPD			
Acenaphthene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Acenaphthylene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Anthracene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Benz(a)anthracene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Benzo(a)pyrene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Benzo(b)&(k)fluoranthene	mg/kg	<1	<1	<1	0-30 %	T	
Benzo(g,h,i)perylene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Chrysene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Dibenz(ah)anthracene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Fluoranthene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Fluorene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Indeno(123-cd)pyrene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Naphthalene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Phenanthrene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Pyrene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Sum of PAHs	mg/kg	<0.5	<0.5	<1	0-30 %	T	
2-Fluorobiphenyl - Surrogate	%	96			70-130 %	T	
Anthracene-d10 - Surrogate	%	102			70-130 %	T	
p-Terphenyl-D14 - Surrogate	%	124			70-130 %	T	
939063 [Duplicate of 936079]							
2100 PAH in Soil by GC			Result 2	RPD			
2-Fluorobiphenyl - Surrogate	%	102			70-130 %	T	
Anthracene-d10 - Surrogate	%	105			70-130 %	T	
p-Terphenyl-D14 - Surrogate	%	129			70-130 %	T	
939070 [Duplicate of 936078]							
2000 TPH (C10 - C36) in Soil by GC			Result 2	RPD			
C10-C14 Fraction	mg/kg	<10	<10	<1	0-30 %	T	
C15-C28 Fraction	mg/kg	<20	<20	<1	0-30 %	T	
C29-C36 Fraction	mg/kg	<20	<20	<1	0-30 %	T	
939071 [Duplicate of 936079]							
2000 TPH (C10 - C36) in Soil by GC			Result 2	RPD			
C10-C14 Fraction	mg/kg	<10	<10	<1	0-30 %	T	
C15-C28 Fraction	mg/kg	<20	<20	<1	0-30 %	T	
C29-C36 Fraction	mg/kg	<20	<20	<1	0-30 %	T	

Laboratory: **EN_SVOC**

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
939074 [Spike of 936086]							
2300 OC Pesticides in Soil by GC-MS			Spike Value	Percent Recovery			
a-BHC	mg/kg	2.1	2.0	106	70-130 %	T	
a-Chlordane	mg/kg	2.2	2.0	110	70-130 %	T	
a-Endosulfan	mg/kg	2.8	N/A	N/A	N/A	N/A	
Aldrin	mg/kg	1.9	2.0	94	70-130 %	T	
b-BHC	mg/kg	2.0	2.0	99	70-130 %	T	
b-Endosulfan	mg/kg	2.4	2.0	122	70-130 %	T	
d-BHC	mg/kg	2.3	2.0	114	70-130 %	T	
DDD	mg/kg	2.4	2.0	121	70-130 %	T	
DDE	mg/kg	2.8	2.0	142	70-130 %	F	
DDT	mg/kg	2.4	2.0	122	70-130 %	T	
Dieldrin	mg/kg	2.6	N/A	N/A	N/A	N/A	
Endosulfan sulfate	mg/kg	2.2	2.0	111	70-130 %	T	
Endrin	mg/kg	2.8	N/A	N/A	N/A	N/A	
Endrin Aldehyde	mg/kg	2.3	2.0	115	70-130 %	T	
g-BHC	mg/kg	2.1	2.0	106	70-130 %	T	
g-Chlordane	mg/kg	2.2	2.0	112	70-130 %	T	
Heptachlor	mg/kg	1.9	2.0	96	70-130 %	T	
Heptachlor epoxide	mg/kg	2.7	2.0	134	70-130 %	F	
Hexachlorobenzene (HCB)	mg/kg	2.2	2.0	110	70-130 %	T	
Methoxychlor	mg/kg	2.2	2.0	111	70-130 %	T	
Oxychlordane	mg/kg	<0.5	N/A	N/A	N/A	N/A	
2,4,5,6-tetrachloro-m-xylene - Surrogate	%	104			70-130 %	T	

939075 [Spike of 936086]							
2100 PAH in Soil by GC			Spike Value	Percent Recovery			
Acenaphthene	mg/kg	2.0	2.0	99	70-130 %	T	
Acenaphthylene	mg/kg	1.9	2.0	95	70-130 %	T	
Anthracene	mg/kg	1.9	2.0	96	70-130 %	T	
Benz(a)anthracene	mg/kg	1.9	2.0	96	70-130 %	T	
Benzo(a)pyrene	mg/kg	1.8	2.0	89	70-130 %	T	
Benzo(b)&(k)fluoranthene	mg/kg	4.0	4.0	100	70-130 %	T	
Benzo(g,h,i)perylene	mg/kg	2.0	2.0	100	70-130 %	T	
Chrysene	mg/kg	1.9	2.0	96	70-130 %	T	
Dibenz(ah)anthracene	mg/kg	2.0	2.0	100	70-130 %	T	
Fluoranthene	mg/kg	2.6	2.0	129	70-130 %	T	
Fluorene	mg/kg	1.9	2.0	95	70-130 %	T	
Indeno(123-cd)pyrene	mg/kg	2.0	2.0	101	70-130 %	T	
Naphthalene	mg/kg	2.0	2.0	101	70-130 %	T	
Phenanthrene	mg/kg	2.0	2.0	100	70-130 %	T	
Pyrene	mg/kg	2.4	2.0	121	70-130 %	T	
Sum of PAHs	mg/kg	32	32.0	101	70-130 %	T	
2-Fluorobiphenyl - Surrogate	%	99			70-130 %	T	
Anthracene-d10 - Surrogate	%	98			70-130 %	T	
p-Terphenyl-D14 - Surrogate	%	124			70-130 %	T	

939076 [Spike of 936086]							
2000 TPH (C10 - C36) in Soil by GC			Spike Value	Percent Recovery			
C10-C14 Fraction	mg/kg	110	125.0	87	70-130 %	T	
C15-C28 Fraction	mg/kg	110	125.0	84	70-130 %	T	
C29-C36 Fraction	mg/kg	120	125.0	82	70-130 %	T	

Laboratory: **EN_VOC**

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
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Laboratory: EN_VOC

Sample, Test, Result Reference	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Codes
946072 [Method Blank]						
1300 VOCs in Soil by P&T						
1,1,1,2-Tetrachloroethane	mg/kg	<1.0		< 1	T	
1,1,1-Trichloroethane	mg/kg	<1.0		< 1	T	
1,1,2,2-Tetrachloroethane	mg/kg	<1.0		< 1	T	
1,1,2-Trichloroethane	mg/kg	<1.0		< 1	T	
1,1-Dichloroethane	mg/kg	<1.0		< 1	T	
1,1-Dichloroethene	mg/kg	<1.0		< 1	T	
1,1-Dichloropropylene	mg/kg	<1.0		< 1	T	
1,2,3-Trichlorobenzene	mg/kg	<1.0		< 1	T	
1,2,3-Trichloropropane	mg/kg	<1.0		< 1	T	
1,2,4-Trichlorobenzene	mg/kg	<1.0		< 1	T	
1,2,4-Trimethylbenzene	mg/kg	<1.0		< 1	T	
1,2-Dibromo-3-chloropropane	mg/kg	<1.0		< 1	T	
1,2-Dibromoethane	mg/kg	<1.0		< 1	T	
1,2-Dichlorobenzene	mg/kg	<1.0		< 1	T	
1,2-Dichloroethane	mg/kg	<1.0		< 1	T	
1,2-Dichloropropane	mg/kg	<1.0		< 1	T	
1,3,5-Trimethylbenzene	mg/kg	<1.0		< 1	T	
1,3-Dichlorobenzene	mg/kg	<1.0		< 1	T	
1,3-Dichloropropane	mg/kg	<1.0		< 1	T	
1,4-Dichlorobenzene	mg/kg	<1.0		< 1	T	
2,2-Dichloropropane	mg/kg	<10.0		< 10	T	
2-butanone	mg/kg	<10.0		< 10	T	
2-Chlorotoluene	mg/kg	<1.0		< 1	T	
4-Chlorotoluene	mg/kg	<1.0		< 1	T	
4-methyl-2-pentanone	mg/kg	<10.0		< 10	T	
Benzene	mg/kg	<0.2		< 0.2	T	
Bromobenzene	mg/kg	<1.0		< 1	T	
Bromochloromethane	mg/kg	<1.0		< 1	T	
Bromodichloromethane	mg/kg	<1.0		< 1	T	
Bromoform	mg/kg	<1.0		< 1	T	
Bromomethane	mg/kg	<1.0		< 1	T	
Carbon Tetrachloride	mg/kg	<1.0		< 1	T	
Chlorobenzene	mg/kg	<1.0		< 1	T	
Chloroethane	mg/kg	<1.0		< 1	T	
Chloroform	mg/kg	<1.0		< 1	T	
Chloromethane	mg/kg	<1.0		< 1	T	
cis-1,2-Dichloroethene	mg/kg	<1.0		< 1	T	
cis-1,3-Dichloropropene	mg/kg	<1.0		< 1	T	
Dibromochloromethane	mg/kg	<1.0		< 1	T	
Dibromomethane	mg/kg	<1.0		< 1	T	
Dichlorodifluoromethane	mg/kg	<1.0		< 1	T	
Ethylbenzene	mg/kg	<1.0		< 1	T	
Hexachlorobutadiene	mg/kg	<1.0		< 1	T	
Hexachloroethane	mg/kg	<1.0		< 1	T	
Isopropylbenzene	mg/kg	<0.5		< 0.5	T	
Meta- & Para- Xylene	mg/kg	<2.0		< 2	T	
Methylene Chloride	mg/kg	<5.0		< 5	T	
Naphthalene	mg/kg	<1.0		< 1	T	
n-Butylbenzene	mg/kg	<1.0		< 1	T	
n-Propylbenzene	mg/kg	<1.0		< 1	T	
Ortho-Xylene	mg/kg	<1.0		< 1	T	
Pentachloroethane	mg/kg	<1.0		< 1	T	
p-Isopropyltoluene	mg/kg	<1.0		< 1	T	
sec-Butylbenzene	mg/kg	<1.0		< 1	T	
Styrene	mg/kg	<0.5		< 0.5	T	
tert-Butylbenzene	mg/kg	<1.0		< 1	T	
Tetrachloroethene	mg/kg	<1.0		< 1	T	
Toluene	mg/kg	<1.0		< 1	T	
Total Xylenes	mg/kg	<3.0		< 3	T	

Laboratory: EN_VOC

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
946072 [Method Blank]							
1300 VOCs in Soil by P&T							
trans-1,2-Dichloroethene	mg/kg	<1.0			< 1	T	
trans-1,3-Dichloropropene	mg/kg	<1.0			< 1	T	
Trichloroethene	mg/kg	<1.0			< 1	T	
Trichlorofluoromethane	mg/kg	<1.0			< 1	T	
Vinyl Chloride	mg/kg	<1.0			< 1	T	
Pentafluorobenzene-Surrogate	%	70			70-130 %	T	
Toluene-D8 - Surrogate	%	95			70-130 %	T	
946124 [Method Blank]							
1100 BTEX in Soil by P&T							
Benzene	mg/kg	<0.2			< 0.2	T	
C6-C9 Fraction	mg/kg	<5			< 5	T	
Ethylbenzene	mg/kg	<1			< 1	T	
Meta- & Para- Xylene	mg/kg	<2			< 2	T	
Ortho-Xylene	mg/kg	<1			< 1	T	
Toluene	mg/kg	<1			< 1	T	
Total Xylenes	mg/kg	<3			< 3	T	
4-Bromofluorobenzene - Surrogate	%	112			70-130 %	T	
946075 [Laboratory Control Sample]							
1300 VOCs in Soil by P&T							
			Expected Value	Percent Recovery			
1,1,1-Trichloroethane	mg/kg	12	10.0	119	70-130 %	T	
1,1,2,2-Tetrachloroethane	mg/kg	12	10.0	119	70-130 %	T	
1,1,2-Trichloroethane	mg/kg	11	10.0	111	70-130 %	T	
1,1-Dichloroethane	mg/kg	11	10.0	107	70-130 %	T	
1,1-Dichloroethene	mg/kg	12	10.0	125	70-130 %	T	
1,2-Dichlorobenzene	mg/kg	11	10.0	107	70-130 %	T	
1,2-Dichloroethane	mg/kg	11	10.0	110	70-130 %	T	
1,2-Dichloropropane	mg/kg	11	10.0	115	70-130 %	T	
1,3-Dichlorobenzene	mg/kg	12	10.0	118	70-130 %	T	
1,4-Dichlorobenzene	mg/kg	11	10.0	110	70-130 %	T	
Benzene	mg/kg	12	10.0	117	70-130 %	T	
Bromodichloromethane	mg/kg	11	10.0	106	70-130 %	T	
Bromoform	mg/kg	11	10.0	114	70-130 %	T	
Carbon Tetrachloride	mg/kg	12	10.0	120	70-130 %	T	
Chlorobenzene	mg/kg	10	10.0	103	70-130 %	T	
Chloroform	mg/kg	14	N/A	N/A	N/A	N/A	
cis-1,3-Dichloropropene	mg/kg	10	10.0	102	70-130 %	T	
Dibromochloromethane	mg/kg	11	10.0	114	70-130 %	T	
Ethylbenzene	mg/kg	10	10.0	104	70-130 %	T	
Methylene Chloride	mg/kg	9.9	10.0	99	70-130 %	T	
Tetrachloroethene	mg/kg	9.4	10.0	94	70-130 %	T	
Toluene	mg/kg	11	10.0	114	70-130 %	T	
trans-1,2-Dichloroethene	mg/kg	11	10.0	105	70-130 %	T	
trans-1,3-Dichloropropene	mg/kg	10	10.0	104	70-130 %	T	
Trichloroethene	mg/kg	12	10.0	115	70-130 %	T	
946125 [Laboratory Control Sample]							
1100 BTEX in Soil by P&T							
			Expected Value	Percent Recovery			
Benzene	mg/kg	4.7	5.0	94	70-130 %	T	
C6-C9 Fraction	mg/kg	59	50.0	120	70-130 %	T	
Ethylbenzene	mg/kg	4.8	5.0	96	70-130 %	T	
Meta- & Para- Xylene	mg/kg	9.8	10.0	98	70-130 %	T	
Ortho-Xylene	mg/kg	5.0	5.0	99	70-130 %	T	
Toluene	mg/kg	4.7	5.0	95	70-130 %	T	
Total Xylenes	mg/kg	15	N/A	N/A	N/A	N/A	
4-Bromofluorobenzene - Surrogate	%	113			70-130 %	T	

Laboratory: EN_VOC

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
939051 [Duplicate of 936078]							
1100 BTEX &(C6-C9) in Soil by P&T			Result 2	RPD			
Benzene	mg/kg	<0.2	<0.2	<1	0-30 %	T	
C6-C9 Fraction	mg/kg	<5.0	<5.0	<1	0-30 %	T	
Ethylbenzene	mg/kg	<1.0	<1.0	<1	0-30 %	T	
Meta- & Para- Xylene	mg/kg	<2.0	<2.0	<1	0-30 %	T	
Ortho-Xylene	mg/kg	<1.0	<1.0	<1	0-30 %	T	
Toluene	mg/kg	<1.0	<1.0	<1	0-30 %	T	
Total Xylenes	mg/kg	<3.0	<3.0	N/A	N/A	N/A	
4-Bromofluorobenzene - Surrogate	%	102			70-130 %	T	
939052 [Duplicate of 936079]							
1100 MAH(BTEX & C6-C9) in Soil P&T			Result 2	RPD			
Benzene	mg/kg	<0.2	<0.2	<1	0-30 %	T	
C6-C9 Fraction	mg/kg	<5.0	<5.0	<1	0-30 %	T	
Cumene	mg/kg	<0.5	<0.5	N/A	N/A	N/A	
Ethylbenzene	mg/kg	<1.0	<1.0	<1	0-30 %	T	
Meta- & Para- Xylene	mg/kg	<2.0	<2.0	<1	0-30 %	T	
Ortho-Xylene	mg/kg	<1.0	<1.0	<1	0-30 %	T	
Styrene	mg/kg	<0.5	<0.5	N/A	N/A	N/A	
Toluene	mg/kg	<1.0	<1.0	<1	0-30 %	T	
Total Xylenes	mg/kg	<3.0	<3.0	N/A	N/A	N/A	
4-Bromofluorobenzene - Surrogate	%	104			70-130 %	T	
939072 [Spike of 936086]							
1100 BTEX &(C6-C9) in Soil by P&T			Spike Value	Percent Recovery			
Benzene	mg/kg	4.2	5.0	84	70-130 %	T	
C6-C9 Fraction	mg/kg	42	50.0	84	70-130 %	T	
Ethylbenzene	mg/kg	4.4	5.0	87	70-130 %	T	
Meta- & Para- Xylene	mg/kg	8.8	10.0	88	70-130 %	T	
Ortho-Xylene	mg/kg	4.4	5.0	88	70-130 %	T	
Sample Weight	-	10.0	N/A	N/A	N/A	N/A	
Toluene	mg/kg	4.3	5.0	86	70-130 %	T	
Total Xylenes	mg/kg	13	N/A	N/A	N/A	N/A	
4-Bromofluorobenzene - Surrogate	%	103			70-130 %	T	

Laboratory: EN_WATERS

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
938131 [Method Blank]							
4300 Anions in Soil by IC							
Bromide (Soluble)	mg/kg	<2			< 2	T	
Chloride (Soluble)	mg/kg	<2			< 2	T	
Fluoride (Soluble)	mg/kg	<2			< 2	T	
Nitrate (Soluble)	mg/kg	<2			< 2	T	
Nitrite (Soluble)	mg/kg	<2			< 2	T	
Orthophosphorus (Soluble)	mg/kg	<2			< 2	T	
Sulphate (Soluble)	mg/kg	<2			< 2	T	
943224 [Method Blank]							
4270 Total Cyanide in Soil Colourmetric							
Total Cyanide	mg/kg	<0.1			< 0.1	T	
938133 [Laboratory Control Sample]							
4300 Anions in Soil by IC			Expected Value	Percent Recovery			
Bromide (Soluble)	mg/kg	570	500.0	113	75-125 %	T	
Chloride (Soluble)	mg/kg	480	500.0	97	75-125 %	T	
Fluoride (Soluble)	mg/kg	490	500.0	97	75-125 %	T	
Nitrate (Soluble)	mg/kg	450	500.0	90	75-125 %	T	
Nitrite (Soluble)	mg/kg	530	500.0	106	75-125 %	T	
Orthophosphorus (Soluble)	mg/kg	530	500.0	107	75-125 %	T	
Sulphate (Soluble)	mg/kg	430	500.0	85	75-125 %	T	
943227 [Laboratory Control Sample]							
4270 Total Cyanide in Soil Colourmetric			Expected Value	Percent Recovery			
Total Cyanide	mg/kg	0.5	0.5	98	70-130 %	T	

Laboratory: EN_WATERS

Sample, Test, Result Reference	Units	Result 1	Result 2	RPD	Acceptance Limits	Pass Limits	Qualifying Codes
939068 [Duplicate of 936078]							
4000 pH in Soil			Result 2	RPD			
pH	pH	7.5	7.4	0.1	0-0.5 pH	T	
939069 [Duplicate of 936079]							
4000 pH in Soil			Result 2	RPD			
pH	pH	8.6	8.6	0.0	0-0.5 pH	T	

Sample Integrity

Custody Seals Intact (if used) N/A
 Attempt to Chill was evident Yes
 Samples correctly preserved Yes
 Organic samples had Teflon liners Yes
 Samples received with Zero Headspace Yes
 Samples received within HoldingTime Yes
 Some samples have been subcontracted No

Authorised By

Ruth Callander	Client Services Officer	
Alex Petridis	Senior Analyst - SVOC	Accreditation Number: 1645
Mark Herbstreit	Senior Analyst - Metals	Accreditation Number: 1645
Helen Lei	Senior Analyst - Waters	Accreditation Number: 1645
Khoa Pham	Analyst - VOC	Accreditation Number: 1645
Olga Alieva	Analyst - SVOC	Accreditation Number: 1645

Laboratory Manager

Anthony Crane Operations Manager



Final Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

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The samples were not collected by Amdel staff.



Certificate of Analysis

CONNELL WAGNER (SA) PTY LTD
55 Grenfell St
ADELAIDE SA 5000

Attention: April Freeman

Project 08ENME0008762
Client Reference 31495
Buckland Park
Received Date 09/04/2008 09:02:00 AM

Customer Sample ID	TP49 0-0.1	TP49 0.2-0.3	TP49 0.4-0.5	TP49 0.9-1.0	TP49 1.9-2.0
Amdel Sample Number	941380	941381	941382	941383	941384
Date Sampled	07/04/2008	07/04/2008	07/04/2008	07/04/2008	07/04/2008

VOC						
Test/Reference	PQL	Unit				
1100 BTEX &(C6-C9) in Soil by P&T						
Benzene	0.2	mg/kg	<0.2	-	-	-
Ethylbenzene	1	mg/kg	<1.0	-	-	-
Meta- & Para- Xylene	2	mg/kg	<2.0	-	-	-
Ortho-Xylene	1	mg/kg	<1.0	-	-	-
Toluene	1	mg/kg	<1.0	-	-	-
Total Xylenes	3	mg/kg	<3.0	-	-	-
C6-C9 Fraction	5	mg/kg	<5.0	-	-	-
4-Bromofluorobenzene - Surrogate	-	%	91	-	-	-

SVOC						
Test/Reference	PQL	Unit				
2300 OC Pesticides in Soil by GC-MS						
a-BHC	0.5	mg/kg	<0.5	-	-	-
a-Chlordane	0.5	mg/kg	<0.5	-	-	-
a-Endosulfan	0.5	mg/kg	<0.5	-	-	-
Aldrin	0.5	mg/kg	<0.5	-	-	-
b-BHC	0.5	mg/kg	<0.5	-	-	-
b-Endosulfan	0.5	mg/kg	<0.5	-	-	-
d-BHC	0.5	mg/kg	<0.5	-	-	-
DDD	0.5	mg/kg	<0.5	-	-	-
DDE	0.5	mg/kg	<0.5	-	-	-
DDT	0.5	mg/kg	<0.5	-	-	-
Dieldrin	0.5	mg/kg	<0.5	-	-	-
Endosulfan sulfate	0.5	mg/kg	<0.5	-	-	-
Endrin	0.5	mg/kg	<0.5	-	-	-
Endrin Aldehyde	0.5	mg/kg	<0.5	-	-	-
g-BHC	0.5	mg/kg	<0.5	-	-	-
g-Chlordane	0.5	mg/kg	<0.5	-	-	-
Heptachlor	0.5	mg/kg	<0.5	-	-	-
Heptachlor epoxide	0.5	mg/kg	<0.5	-	-	-
Hexachlorobenzene (HCB)	0.5	mg/kg	<0.5	-	-	-
Methoxychlor	0.5	mg/kg	<0.5	-	-	-
Oxychlordane	0.5	mg/kg	<0.5	-	-	-
2,4,5,6-tetrachloro-m-xylene - Surrogate	-	%	102	-	-	-
2100 PAH in Soil by GC						
Acenaphthene	0.5	mg/kg	<0.5	-	-	-
Acenaphthylene	0.5	mg/kg	<0.5	-	-	-

Customer Sample ID	TP49 0-0.1	TP49 0.2-0.3	TP49 0.4-0.5	TP49 0.9-1.0	TP49 1.9-2.0
Amdel Sample Number	941380	941381	941382	941383	941384
Date Sampled	07/04/2008	07/04/2008	07/04/2008	07/04/2008	07/04/2008

SVOC						
Test/Reference	PQL	Unit				
Anthracene	0.5	mg/kg	<0.5	-	-	-
Benz(a)anthracene	0.5	mg/kg	<0.5	-	-	-
Benzo(a)pyrene	0.5	mg/kg	<0.5	-	-	-
Benzo(b)&(k)fluoranthene	1	mg/kg	<1	-	-	-
Benzo(g,h,i)perylene	0.5	mg/kg	<0.5	-	-	-
Chrysene	0.5	mg/kg	<0.5	-	-	-
Dibenz(ah)anthracene	0.5	mg/kg	<0.5	-	-	-
Fluoranthene	0.5	mg/kg	<0.5	-	-	-
Fluorene	0.5	mg/kg	<0.5	-	-	-
Indeno(123-cd)pyrene	0.5	mg/kg	<0.5	-	-	-
Naphthalene	0.5	mg/kg	<0.5	-	-	-
Phenanthrene	0.5	mg/kg	<0.5	-	-	-
Pyrene	0.5	mg/kg	<0.5	-	-	-
Sum of PAHs	0.5	mg/kg	<0.5	-	-	-
2-Fluorobiphenyl - Surrogate	-	%	92	-	-	-
p-Terphenyl-D14 - Surrogate	-	%	114	-	-	-
Anthracene-d10 - Surrogate	-	%	98	-	-	-

2000 TPH (C10 - C36) in Soil by GC

C10-C14 Fraction	10	mg/kg	<10	-	-	-
C15-C28 Fraction	20	mg/kg	<20	-	-	-
C29-C36 Fraction	20	mg/kg	<20	-	-	-

Metals

Test/Reference	PQL	Unit				
3100 Total Metals in Soil By ICP/MS						
Arsenic	2	mg/kg	<2	-	-	-
Cadmium	2	mg/kg	<2	-	-	-
Chromium	2	mg/kg	18	-	-	-
Copper	2	mg/kg	7.7	-	-	-
Lead	2	mg/kg	8.1	-	-	-
Nickel	2	mg/kg	6.0	-	-	-
Zinc	2	mg/kg	15	-	-	-

Inorganics

Test/Reference	PQL	Unit				
4000 pH in Soil						
pH	0.1	pH	7.1	-	-	-

Miscellaneous

Test/Reference	PQL	Unit				
5000 Moisture Content						
% Moisture	1	%	2	-	-	-

Customer Sample ID	SP1	SP2	TP50 0-0.1	QC10A	TP50 0.2-0.3
Amdel Sample Number	941385	941386	941387	941389	941390
Date Sampled	07/04/2008	07/04/2008	07/04/2008	07/04/2008	07/04/2008

VOC						
Test/Reference	PQL	Unit				
1100 BTEX &(C6-C9) in Soil by P&T						
Benzene	0.2	mg/kg	-	-	<0.2	-

Customer Sample ID	SP1	SP2	TP50 0-0.1	QC10A	TP50 0.2-0.3
Amdel Sample Number	941385	941386	941387	941389	941390
Date Sampled	07/04/2008	07/04/2008	07/04/2008	07/04/2008	07/04/2008

VOC						
Test/Reference	PQL	Unit				
Ethylbenzene	1	mg/kg	-	-	<1.0	-
Meta- & Para- Xylene	2	mg/kg	-	-	<2.0	-
Ortho-Xylene	1	mg/kg	-	-	<1.0	-
Toluene	1	mg/kg	-	-	<1.0	-
Total Xylenes	3	mg/kg	-	-	<3.0	-
C6-C9 Fraction	5	mg/kg	-	-	<5.0	-
4-Bromofluorobenzene - Surrogate	-	%	-	-	100	-

SVOC						
Test/Reference	PQL	Unit				

2300 OC Pesticides in Soil by GC-MS

a-BHC	0.5	mg/kg	<0.5	<0.5	<0.5	-	-
a-Chlordane	0.5	mg/kg	<0.5	<0.5	<0.5	-	-
a-Endosulfan	0.5	mg/kg	<0.5	<0.5	<0.5	-	-
Aldrin	0.5	mg/kg	<0.5	<0.5	<0.5	-	-
b-BHC	0.5	mg/kg	<0.5	<0.5	<0.5	-	-
b-Endosulfan	0.5	mg/kg	<0.5	<0.5	<0.5	-	-
d-BHC	0.5	mg/kg	<0.5	<0.5	<0.5	-	-
DDD	0.5	mg/kg	<0.5	<0.5	<0.5	-	-
DDE	0.5	mg/kg	<0.5	<0.5	<0.5	-	-
DDT	0.5	mg/kg	<0.5	<0.5	<0.5	-	-
Dieldrin	0.5	mg/kg	<0.5	<0.5	<0.5	-	-
Endosulfan sulfate	0.5	mg/kg	<0.5	<0.5	<0.5	-	-
Endrin	0.5	mg/kg	<0.5	<0.5	<0.5	-	-
Endrin Aldehyde	0.5	mg/kg	<0.5	<0.5	<0.5	-	-
g-BHC	0.5	mg/kg	<0.5	<0.5	<0.5	-	-
g-Chlordane	0.5	mg/kg	<0.5	<0.5	<0.5	-	-
Heptachlor	0.5	mg/kg	<0.5	<0.5	<0.5	-	-
Heptachlor epoxide	0.5	mg/kg	<0.5	<0.5	<0.5	-	-
Hexachlorobenzene (HCB)	0.5	mg/kg	<0.5	<0.5	<0.5	-	-
Methoxychlor	0.5	mg/kg	<0.5	<0.5	<0.5	-	-
Oxychlordane	0.5	mg/kg	<0.5	<0.5	<0.5	-	-
2,4,5,6-tetrachloro-m-xylene - Surrogate	-	%	97	99	96	-	-

2100 PAH in Soil by GC

Acenaphthene	0.5	mg/kg	<0.5	<0.5	<0.5	-	-
Acenaphthylene	0.5	mg/kg	<0.5	<0.5	<0.5	-	-
Anthracene	0.5	mg/kg	<0.5	<0.5	<0.5	-	-
Benz(a)anthracene	0.5	mg/kg	<0.5	<0.5	<0.5	-	-
Benzo(a)pyrene	0.5	mg/kg	<0.5	<0.5	<0.5	-	-
Benzo(b)&(k)fluoranthene	1	mg/kg	<1	<1	<1	-	-
Benzo(g,h,i)perylene	0.5	mg/kg	<0.5	<0.5	<0.5	-	-
Chrysene	0.5	mg/kg	<0.5	<0.5	<0.5	-	-
Dibenz(ah)anthracene	0.5	mg/kg	<0.5	<0.5	<0.5	-	-
Fluoranthene	0.5	mg/kg	<0.5	<0.5	<0.5	-	-
Fluorene	0.5	mg/kg	<0.5	<0.5	<0.5	-	-
Indeno(123-cd)pyrene	0.5	mg/kg	<0.5	<0.5	<0.5	-	-
Naphthalene	0.5	mg/kg	<0.5	<0.5	<0.5	-	-
Phenanthrene	0.5	mg/kg	<0.5	<0.5	<0.5	-	-
Pyrene	0.5	mg/kg	<0.5	<0.5	<0.5	-	-
Sum of PAHs	0.5	mg/kg	<0.5	<0.5	<0.5	-	-

Customer Sample ID	SP1	SP2	TP50 0-0.1	QC10A	TP50 0.2-0.3
Amdel Sample Number	941385	941386	941387	941389	941390
Date Sampled	07/04/2008	07/04/2008	07/04/2008	07/04/2008	07/04/2008

SVOC						
Test/Reference	PQL	Unit				
2-Fluorobiphenyl - Surrogate	-	%	89	90	88	-
p-Terphenyl-D14 - Surrogate	-	%	108	108	109	-
Anthracene-d10 - Surrogate	-	%	92	93	93	-
2000 TPH (C10 - C36) in Soil by GC						
C10-C14 Fraction	10	mg/kg	-	-	<10	-
C15-C28 Fraction	20	mg/kg	-	-	<20	-
C29-C36 Fraction	20	mg/kg	-	-	<20	-

Metals						
Test/Reference	PQL	Unit				
3100 Total Metals in Soil By ICP/MS						
Arsenic	2	mg/kg	<2	<2	<2	-
Cadmium	2	mg/kg	<2	<2	<2	-
Chromium	2	mg/kg	19	20	16	-
Copper	2	mg/kg	12	18	11	-
Lead	2	mg/kg	6.3	6.7	5.6	-
Nickel	2	mg/kg	7.5	8.9	5.9	-
Zinc	2	mg/kg	28	46	21	-

Inorganics						
Test/Reference	PQL	Unit				
4000 pH in Soil						
pH	0.1	pH	-	-	7.2	-

Miscellaneous						
Test/Reference	PQL	Unit				
5000 Moisture Content						
% Moisture	1	%	2	2	1	-

Customer Sample ID	TP50 0.4-0.5	TP50 0.9-1.0	TP50 1.9-2.0	TP51 0-0.1	TP51 0.2-0.3
Amdel Sample Number	941391	941392	941393	941394	941395
Date Sampled	07/04/2008	07/04/2008	07/04/2008	07/04/2008	07/04/2008

VOC						
Test/Reference	PQL	Unit				
1100 BTEX & (C6-C9) in Soil by P&T						
Benzene	0.2	mg/kg	-	-	-	<0.2
Ethylbenzene	1	mg/kg	-	-	-	<1.0
Meta- & Para- Xylene	2	mg/kg	-	-	-	<2.0
Ortho-Xylene	1	mg/kg	-	-	-	<1.0
Toluene	1	mg/kg	-	-	-	<1.0
Total Xylenes	3	mg/kg	-	-	-	<3.0
C6-C9 Fraction	5	mg/kg	-	-	-	<5.0
4-Bromofluorobenzene - Surrogate	-	%	-	-	-	99

SVOC						
Test/Reference	PQL	Unit				
2300 OC Pesticides in Soil by GC-MS						
a-BHC	0.5	mg/kg	-	-	-	<0.5
a-Chlordane	0.5	mg/kg	-	-	-	<0.5
a-Endosulfan	0.5	mg/kg	-	-	-	<0.5

Customer Sample ID	TP50 0.4-0.5	TP50 0.9-1.0	TP50 1.9-2.0	TP51 0-0.1	TP51 0.2-0.3
Amdel Sample Number	941391	941392	941393	941394	941395
Date Sampled	07/04/2008	07/04/2008	07/04/2008	07/04/2008	07/04/2008

SVOC

Test/Reference	PQL	Unit					
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Aldrin	0.5	mg/kg	-	-	-	-	<0.5
b-BHC	0.5	mg/kg	-	-	-	-	<0.5
b-Endosulfan	0.5	mg/kg	-	-	-	-	<0.5
d-BHC	0.5	mg/kg	-	-	-	-	<0.5
DDD	0.5	mg/kg	-	-	-	-	<0.5
DDE	0.5	mg/kg	-	-	-	-	<0.5
DDT	0.5	mg/kg	-	-	-	-	<0.5
Dieldrin	0.5	mg/kg	-	-	-	-	<0.5
Endosulfan sulfate	0.5	mg/kg	-	-	-	-	<0.5
Endrin	0.5	mg/kg	-	-	-	-	<0.5
Endrin Aldehyde	0.5	mg/kg	-	-	-	-	<0.5
g-BHC	0.5	mg/kg	-	-	-	-	<0.5
g-Chlordane	0.5	mg/kg	-	-	-	-	<0.5
Heptachlor	0.5	mg/kg	-	-	-	-	<0.5
Heptachlor epoxide	0.5	mg/kg	-	-	-	-	<0.5
Hexachlorobenzene (HCB)	0.5	mg/kg	-	-	-	-	<0.5
Methoxychlor	0.5	mg/kg	-	-	-	-	<0.5
Oxychlordane	0.5	mg/kg	-	-	-	-	<0.5
2,4,5,6-tetrachloro-m-xylene - Surrogate	-	%	-	-	-	-	104

2100 PAH in Soil by GC

Acenaphthene	0.5	mg/kg	-	-	-	-	<0.5
Acenaphthylene	0.5	mg/kg	-	-	-	-	<0.5
Anthracene	0.5	mg/kg	-	-	-	-	<0.5
Benz(a)anthracene	0.5	mg/kg	-	-	-	-	<0.5
Benzo(a)pyrene	0.5	mg/kg	-	-	-	-	<0.5
Benzo(b)&(k)fluoranthene	1	mg/kg	-	-	-	-	<1
Benzo(g,h,i)perylene	0.5	mg/kg	-	-	-	-	<0.5
Chrysene	0.5	mg/kg	-	-	-	-	<0.5
Dibenz(ah)anthracene	0.5	mg/kg	-	-	-	-	<0.5
Fluoranthene	0.5	mg/kg	-	-	-	-	<0.5
Fluorene	0.5	mg/kg	-	-	-	-	<0.5
Indeno(123-cd)pyrene	0.5	mg/kg	-	-	-	-	<0.5
Naphthalene	0.5	mg/kg	-	-	-	-	<0.5
Phenanthrene	0.5	mg/kg	-	-	-	-	<0.5
Pyrene	0.5	mg/kg	-	-	-	-	<0.5
Sum of PAHs	0.5	mg/kg	-	-	-	-	<0.5
2-Fluorobiphenyl - Surrogate	-	%	-	-	-	-	88
p-Terphenyl-D14 - Surrogate	-	%	-	-	-	-	114
Anthracene-d10 - Surrogate	-	%	-	-	-	-	98

2000 TPH (C10 - C36) in Soil by GC

C10-C14 Fraction	10	mg/kg	-	-	-	-	<10
C15-C28 Fraction	20	mg/kg	-	-	-	-	<20
C29-C36 Fraction	20	mg/kg	-	-	-	-	<20

Metals

Test/Reference	PQL	Unit					
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3100 Total Metals in Soil By ICP/MS

Arsenic	2	mg/kg	-	-	-	-	2.3
Cadmium	2	mg/kg	-	-	-	-	<2
Chromium	2	mg/kg	-	-	-	-	39

Customer Sample ID	TP50 0.4-0.5	TP50 0.9-1.0	TP50 1.9-2.0	TP51 0-0.1	TP51 0.2-0.3
Amdel Sample Number	941391	941392	941393	941394	941395
Date Sampled	07/04/2008	07/04/2008	07/04/2008	07/04/2008	07/04/2008
Metals					
Test/Reference	PQL	Unit			
Copper	2	mg/kg	-	-	20
Lead	2	mg/kg	-	-	8.0
Nickel	2	mg/kg	-	-	21
Zinc	2	mg/kg	-	-	20
Inorganics					
Test/Reference	PQL	Unit			
4000 pH in Soil					
pH	0.1	pH	-	-	8.8
Miscellaneous					
Test/Reference	PQL	Unit			
5000 Moisture Content					
% Moisture	1	%	-	-	11

Customer Sample ID	TP52 0.2-0.3	TP52 0.4-0.5	QC12A	TP52 0.9-1.0	TP52 1.9-2.0
Amdel Sample Number	941401	941402	941403	941404	941405
Date Sampled	07/04/2008	07/04/2008	07/04/2008	07/04/2008	07/04/2008
VOC					
Test/Reference	PQL	Unit			
1100 BTEX &(C6-C9) in Soil by P&T					
Benzene	0.2	mg/kg	<0.2	-	-
Ethylbenzene	1	mg/kg	<1.0	-	-
Meta- & Para- Xylene	2	mg/kg	<2.0	-	-
Ortho-Xylene	1	mg/kg	<1.0	-	-
Toluene	1	mg/kg	<1.0	-	-
Total Xylenes	3	mg/kg	<3.0	-	-
C6-C9 Fraction	5	mg/kg	<5.0	-	-
4-Bromofluorobenzene - Surrogate	-	%	102	-	-
SVOC					
Test/Reference	PQL	Unit			
2300 OC Pesticides in Soil by GC-MS					
a-BHC	0.5	mg/kg	<0.5	-	-
a-Chlordane	0.5	mg/kg	<0.5	-	-
a-Endosulfan	0.5	mg/kg	<0.5	-	-
Aldrin	0.5	mg/kg	<0.5	-	-
b-BHC	0.5	mg/kg	<0.5	-	-
b-Endosulfan	0.5	mg/kg	<0.5	-	-
d-BHC	0.5	mg/kg	<0.5	-	-
DDD	0.5	mg/kg	<0.5	-	-
DDE	0.5	mg/kg	<0.5	-	-
DDT	0.5	mg/kg	<0.5	-	-
Dieldrin	0.5	mg/kg	<0.5	-	-
Endosulfan sulfate	0.5	mg/kg	<0.5	-	-
Endrin	0.5	mg/kg	<0.5	-	-
Endrin Aldehyde	0.5	mg/kg	<0.5	-	-
g-BHC	0.5	mg/kg	<0.5	-	-
g-Chlordane	0.5	mg/kg	<0.5	-	-

Customer Sample ID	TP52 0.2-0.3	TP52 0.4-0.5	QC12A	TP52 0.9-1.0	TP52 1.9-2.0
Amdel Sample Number	941401	941402	941403	941404	941405
Date Sampled	07/04/2008	07/04/2008	07/04/2008	07/04/2008	07/04/2008
SVOC					
Test/Reference	PQL	Unit			
Heptachlor	0.5	mg/kg	<0.5	-	-
Heptachlor epoxide	0.5	mg/kg	<0.5	-	-
Hexachlorobenzene (HCB)	0.5	mg/kg	<0.5	-	-
Methoxychlor	0.5	mg/kg	<0.5	-	-
Oxychlorodane	0.5	mg/kg	<0.5	-	-
2,4,5,6-tetrachloro-m-xylene - Surrogate	-	%	102	-	-
2100 PAH in Soil by GC					
Acenaphthene	0.5	mg/kg	<0.5	-	-
Acenaphthylene	0.5	mg/kg	<0.5	-	-
Anthracene	0.5	mg/kg	<0.5	-	-
Benz(a)anthracene	0.5	mg/kg	<0.5	-	-
Benzo(a)pyrene	0.5	mg/kg	<0.5	-	-
Benzo(b)&(k)fluoranthene	1	mg/kg	<1	-	-
Benzo(g,h,i)perylene	0.5	mg/kg	<0.5	-	-
Chrysene	0.5	mg/kg	<0.5	-	-
Dibenz(ah)anthracene	0.5	mg/kg	<0.5	-	-
Fluoranthene	0.5	mg/kg	<0.5	-	-
Fluorene	0.5	mg/kg	<0.5	-	-
Indeno(123-cd)pyrene	0.5	mg/kg	<0.5	-	-
Naphthalene	0.5	mg/kg	<0.5	-	-
Phenanthrene	0.5	mg/kg	<0.5	-	-
Pyrene	0.5	mg/kg	<0.5	-	-
Sum of PAHs	0.5	mg/kg	<0.5	-	-
2-Fluorobiphenyl - Surrogate	-	%	88	-	-
p-Terphenyl-D14 - Surrogate	-	%	112	-	-
Anthracene-d10 - Surrogate	-	%	96	-	-
2000 TPH (C10 - C36) in Soil by GC					
C10-C14 Fraction	10	mg/kg	<10	-	-
C15-C28 Fraction	20	mg/kg	<20	-	-
C29-C36 Fraction	20	mg/kg	<20	-	-
Metals					
Test/Reference	PQL	Unit			
3100 Total Metals in Soil By ICP/MS					
Arsenic	2	mg/kg	3.8	-	-
Cadmium	2	mg/kg	<2	-	-
Chromium	2	mg/kg	43	-	-
Copper	2	mg/kg	22	-	-
Lead	2	mg/kg	8.4	-	-
Nickel	2	mg/kg	23	-	-
Zinc	2	mg/kg	22	-	-
Inorganics					
Test/Reference	PQL	Unit			
4000 pH in Soil					
pH	0.1	pH	8.8	-	-
Miscellaneous					
Test/Reference	PQL	Unit			
5000 Moisture Content					
% Moisture	1	%	12	-	-

Customer Sample ID	TP53 0-0.1	TP53 0.2-0.3	TP53 0.4-0.5	TP53 0.9-1.0	TP53 1.9-2.0
Amdel Sample Number	941406	941407	941408	941409	941410
Date Sampled	07/04/2008	07/04/2008	07/04/2008	07/04/2008	07/04/2008
VOC					
Test/Reference	PQL	Unit			
1100 BTEX &(C6-C9) in Soil by P&T					
Benzene	0.2	mg/kg	-	<0.2	-
Ethylbenzene	1	mg/kg	-	<1.0	-
Meta- & Para- Xylene	2	mg/kg	-	<2.0	-
Ortho-Xylene	1	mg/kg	-	<1.0	-
Toluene	1	mg/kg	-	<1.0	-
Total Xylenes	3	mg/kg	-	<3.0	-
C6-C9 Fraction	5	mg/kg	-	<5.0	-
4-Bromofluorobenzene - Surrogate	-	%	-	74	-
1100 MAH(BTEX & C6-C9) in Soil P&T					
Benzene	0.2	mg/kg	<0.2	-	-
Cumene	0.5	mg/kg	<0.5	-	-
Ethylbenzene	1	mg/kg	<1.0	-	-
Meta- & Para- Xylene	2	mg/kg	<2.0	-	-
Ortho-Xylene	1	mg/kg	<1.0	-	-
Styrene	0.5	mg/kg	<0.5	-	-
Toluene	1	mg/kg	<1.0	-	-
Total Xylenes	3	mg/kg	<3.0	-	-
C6-C9 Fraction	5	mg/kg	<5.0	-	-
4-Bromofluorobenzene - Surrogate	-	%	102	-	-
SVOC					
Test/Reference	PQL	Unit			
2300 OC Pesticides in Soil by GC-MS					
a-BHC	0.5	mg/kg	<0.5	<0.5	-
a-Chlordane	0.5	mg/kg	<0.5	<0.5	-
a-Endosulfan	0.5	mg/kg	<0.5	<0.5	-
Aldrin	0.5	mg/kg	<0.5	<0.5	-
b-BHC	0.5	mg/kg	<0.5	<0.5	-
b-Endosulfan	0.5	mg/kg	<0.5	<0.5	-
d-BHC	0.5	mg/kg	<0.5	<0.5	-
DDD	0.5	mg/kg	<0.5	<0.5	-
DDE	0.5	mg/kg	<0.5	<0.5	-
DDT	0.5	mg/kg	<0.5	<0.5	-
Dieldrin	0.5	mg/kg	<0.5	<0.5	-
Endosulfan sulfate	0.5	mg/kg	<0.5	<0.5	-
Endrin	0.5	mg/kg	<0.5	<0.5	-
Endrin Aldehyde	0.5	mg/kg	<0.5	<0.5	-
g-BHC	0.5	mg/kg	<0.5	<0.5	-
g-Chlordane	0.5	mg/kg	<0.5	<0.5	-
Heptachlor	0.5	mg/kg	<0.5	<0.5	-
Heptachlor epoxide	0.5	mg/kg	<0.5	<0.5	-
Hexachlorobenzene (HCB)	0.5	mg/kg	<0.5	<0.5	-
Methoxychlor	0.5	mg/kg	<0.5	<0.5	-
Oxychlordane	0.5	mg/kg	<0.5	<0.5	-
2,4,5,6-tetrachloro-m-xylene - Surrogate	-	%	100	101	-
2100 PAH in Soil by GC					
Acenaphthene	0.5	mg/kg	<0.5	<0.5	-

Customer Sample ID	TP53 0-0.1	TP53 0.2-0.3	TP53 0.4-0.5	TP53 0.9-1.0	TP53 1.9-2.0
Amdel Sample Number	941406	941407	941408	941409	941410
Date Sampled	07/04/2008	07/04/2008	07/04/2008	07/04/2008	07/04/2008
SVOC					
Test/Reference	PQL	Unit			
Acenaphthylene	0.5	mg/kg	<0.5	<0.5	-
Anthracene	0.5	mg/kg	<0.5	<0.5	-
Benz(a)anthracene	0.5	mg/kg	<0.5	<0.5	-
Benzo(a)pyrene	0.5	mg/kg	<0.5	<0.5	-
Benzo(b)&(k)fluoranthene	1	mg/kg	<1	<1	-
Benzo(g,h,i)perylene	0.5	mg/kg	<0.5	<0.5	-
Chrysene	0.5	mg/kg	<0.5	<0.5	-
Dibenz(ah)anthracene	0.5	mg/kg	<0.5	<0.5	-
Fluoranthene	0.5	mg/kg	<0.5	<0.5	-
Fluorene	0.5	mg/kg	<0.5	<0.5	-
Indeno(123-cd)pyrene	0.5	mg/kg	<0.5	<0.5	-
Naphthalene	0.5	mg/kg	<0.5	<0.5	-
Phenanthrene	0.5	mg/kg	<0.5	<0.5	-
Pyrene	0.5	mg/kg	<0.5	<0.5	-
Sum of PAHs	0.5	mg/kg	<0.5	<0.5	-
2-Fluorobiphenyl - Surrogate	-	%	90	89	-
p-Terphenyl-D14 - Surrogate	-	%	110	109	-
Anthracene-d10 - Surrogate	-	%	95	96	-
2600 PCBs in Soil by GC					
Aroclor 1016DB	0.5	mg/kg	<0.5	-	-
Aroclor 1221DB	0.5	mg/kg	<0.5	-	-
Aroclor 1232 and 1242 as totalDB	1	mg/kg	<1	-	-
Aroclor 1248 and 1254 as totalDB	1	mg/kg	<1	-	-
Aroclor 1260DB	0.5	mg/kg	<0.5	-	-
Total Polychlorinated biphenylsDB	1	mg/kg	<1	-	-
Decachlorobiphenyl - PCB surrogate	1	%	86	-	-
2000 TPH (C10 - C36) in Soil by GC					
C10-C14 Fraction	10	mg/kg	<10	<10	-
C15-C28 Fraction	20	mg/kg	<20	<20	-
C29-C36 Fraction	20	mg/kg	<20	<20	-
Metals					
Test/Reference	PQL	Unit			
3400 Mercury in Soil by FIMS					
Mercury	0.01	mg/kg	0.02	-	-
3100 Total Metals in Soil By ICP/MS					
Antimony	2	mg/kg	<2	-	-
Arsenic	2	mg/kg	2.7	2.3	-
Barium	2	mg/kg	110	-	-
Beryllium	2	mg/kg	<2	-	-
Boron	2	mg/kg	22	-	-
Cadmium	2	mg/kg	<2	<2	-
Chromium	2	mg/kg	50	55	-
Cobalt	2	mg/kg	16	-	-
Copper	2	mg/kg	28	28	-
Lead	2	mg/kg	12	10	-
Manganese	2	mg/kg	440	-	-
Molybdenum	2	mg/kg	<2	-	-
Nickel	2	mg/kg	25	27	-
Selenium	2	mg/kg	<2	-	-
Tin	2	mg/kg	<2	-	-

Customer Sample ID	TP53 0-0.1	TP53 0.2-0.3	TP53 0.4-0.5	TP53 0.9-1.0	TP53 1.9-2.0
Amdel Sample Number	941406	941407	941408	941409	941410
Date Sampled	07/04/2008	07/04/2008	07/04/2008	07/04/2008	07/04/2008
Metals					
Test/Reference	PQL	Unit			
Vanadium	2	mg/kg	56	-	-
Zinc	2	mg/kg	26	26	-
Inorganics					
Test/Reference	PQL	Unit			
4300 Anions in Soil by IC					
Fluoride (Soluble)	2	mg/kg	3	-	-
4270 Total Cyanide in Soil Colourmetric					
Total Cyanide	0.1	mg/kg	0.6	-	-
4000 pH in Soil					
pH	0.1	pH	7.4	7.9	-
4850 Total Phenolics in Soil by SFA					
Total Phenolics	0.1	mg/kg	<0.1	-	-
Miscellaneous					
Test/Reference	PQL	Unit			
5000 Moisture Content					
% Moisture	1	%	7	15	-

Customer Sample ID	TP54 0-0.1	TP54 0.2-0.3	TP54 0.4-0.5	TP54 0.9-1.0	TP54 1.9-2.0
Amdel Sample Number	941411	941412	941413	941414	941415
Date Sampled	07/04/2008	07/04/2008	07/04/2008	07/04/2008	07/04/2008
VOC					
Test/Reference	PQL	Unit			
1100 BTEX &(C6-C9) in Soil by P&T					
Benzene	0.2	mg/kg	<0.2	-	-
Ethylbenzene	1	mg/kg	<1.0	-	-
Meta- & Para- Xylene	2	mg/kg	<2.0	-	-
Ortho-Xylene	1	mg/kg	<1.0	-	-
Toluene	1	mg/kg	<1.0	-	-
Total Xylenes	3	mg/kg	<3.0	-	-
C6-C9 Fraction	5	mg/kg	<5.0	-	-
4-Bromofluorobenzene - Surrogate	-	%	102	-	-
SVOC					
Test/Reference	PQL	Unit			
2300 OC Pesticides in Soil by GC-MS					
a-BHC	0.5	mg/kg	<0.5	-	-
a-Chlordane	0.5	mg/kg	<0.5	-	-
a-Endosulfan	0.5	mg/kg	<0.5	-	-
Aldrin	0.5	mg/kg	<0.5	-	-
b-BHC	0.5	mg/kg	<0.5	-	-
b-Endosulfan	0.5	mg/kg	<0.5	-	-
d-BHC	0.5	mg/kg	<0.5	-	-
DDD	0.5	mg/kg	<0.5	-	-
DDE	0.5	mg/kg	<0.5	-	-
DDT	0.5	mg/kg	<0.5	-	-
Dieldrin	0.5	mg/kg	<0.5	-	-
Endosulfan sulfate	0.5	mg/kg	<0.5	-	-
Endrin	0.5	mg/kg	<0.5	-	-

Customer Sample ID	TP54 0-0.1	TP54 0.2-0.3	TP54 0.4-0.5	TP54 0.9-1.0	TP54 1.9-2.0
Amdel Sample Number	941411	941412	941413	941414	941415
Date Sampled	07/04/2008	07/04/2008	07/04/2008	07/04/2008	07/04/2008

SVOC

Test/Reference	PQL	Unit				
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Endrin Aldehyde	0.5	mg/kg	<0.5	-	-	-
g-BHC	0.5	mg/kg	<0.5	-	-	-
g-Chlordane	0.5	mg/kg	<0.5	-	-	-
Heptachlor	0.5	mg/kg	<0.5	-	-	-
Heptachlor epoxide	0.5	mg/kg	<0.5	-	-	-
Hexachlorobenzene (HCB)	0.5	mg/kg	<0.5	-	-	-
Methoxychlor	0.5	mg/kg	<0.5	-	-	-
Oxychlordane	0.5	mg/kg	<0.5	-	-	-
2,4,5,6-tetrachloro-m-xylene - Surrogate	-	%	100	-	-	-

2100 PAH in Soil by GC

Acenaphthene	0.5	mg/kg	<0.5	-	-	-
Acenaphthylene	0.5	mg/kg	<0.5	-	-	-
Anthracene	0.5	mg/kg	<0.5	-	-	-
Benz(a)anthracene	0.5	mg/kg	<0.5	-	-	-
Benzo(a)pyrene	0.5	mg/kg	<0.5	-	-	-
Benzo(b)&(k)fluoranthene	1	mg/kg	<1	-	-	-
Benzo(g,h,i)perylene	0.5	mg/kg	<0.5	-	-	-
Chrysene	0.5	mg/kg	<0.5	-	-	-
Dibenz(ah)anthracene	0.5	mg/kg	<0.5	-	-	-
Fluoranthene	0.5	mg/kg	<0.5	-	-	-
Fluorene	0.5	mg/kg	<0.5	-	-	-
Indeno(123-cd)pyrene	0.5	mg/kg	<0.5	-	-	-
Naphthalene	0.5	mg/kg	<0.5	-	-	-
Phenanthrene	0.5	mg/kg	<0.5	-	-	-
Pyrene	0.5	mg/kg	<0.5	-	-	-
Sum of PAHs	0.5	mg/kg	<0.5	-	-	-
2-Fluorobiphenyl - Surrogate	-	%	88	-	-	-
p-Terphenyl-D14 - Surrogate	-	%	110	-	-	-
Anthracene-d10 - Surrogate	-	%	95	-	-	-

2000 TPH (C10 - C36) in Soil by GC

C10-C14 Fraction	10	mg/kg	<10	-	-	-
C15-C28 Fraction	20	mg/kg	<20	-	-	-
C29-C36 Fraction	20	mg/kg	22	-	-	-

Metals

Test/Reference	PQL	Unit				
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3100 Total Metals in Soil By ICP/MS

Arsenic	2	mg/kg	<2	-	-	-
Cadmium	2	mg/kg	<2	-	-	-
Chromium	2	mg/kg	42	-	-	-
Copper	2	mg/kg	27	-	-	-
Lead	2	mg/kg	16	-	-	-
Nickel	2	mg/kg	21	-	-	-
Zinc	2	mg/kg	26	-	-	-

Inorganics

Test/Reference	PQL	Unit				
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4000 pH in Soil						
pH	0.1	pH	7.4	-	-	-

Miscellaneous

Test/Reference	PQL	Unit				
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Customer Sample ID	TP54 0-0.1	TP54 0.2-0.3	TP54 0.4-0.5	TP54 0.9-1.0	TP54 1.9-2.0
Amdel Sample Number	941411	941412	941413	941414	941415
Date Sampled	07/04/2008	07/04/2008	07/04/2008	07/04/2008	07/04/2008

Miscellaneous

Test/Reference	PQL	Unit				
5000 Moisture Content						
% Moisture	1	%	8	-	-	-

Customer Sample ID	TP55 0-0.1	TP55 0.2-0.3	TP55 0.4-0.5	TP55 0.9-1.0	TP55 1.9-2.0
Amdel Sample Number	941416	941417	941418	941420	941421
Date Sampled	07/04/2008	07/04/2008	07/04/2008	07/04/2008	07/04/2008

VOC

Test/Reference	PQL	Unit				
1100 MAH(BTEX & C6-C9) in Soil P&T						
Benzene	0.2	mg/kg	<0.2	-	-	-
Cumene	0.5	mg/kg	<0.5	-	-	-
Ethylbenzene	1	mg/kg	<1.0	-	-	-
Meta- & Para- Xylene	2	mg/kg	<2.0	-	-	-
Ortho-Xylene	1	mg/kg	<1.0	-	-	-
Styrene	0.5	mg/kg	<0.5	-	-	-
Toluene	1	mg/kg	<1.0	-	-	-
Total Xylenes	3	mg/kg	<3.0	-	-	-
C6-C9 Fraction	5	mg/kg	<5.0	-	-	-
4-Bromofluorobenzene - Surrogate	-	%	106	-	-	-

SVOC

Test/Reference	PQL	Unit				
2300 OC Pesticides in Soil by GC-MS						
a-BHC	0.5	mg/kg	<0.5	-	-	-
a-Chlordane	0.5	mg/kg	<0.5	-	-	-
a-Endosulfan	0.5	mg/kg	<0.5	-	-	-
Aldrin	0.5	mg/kg	<0.5	-	-	-
b-BHC	0.5	mg/kg	<0.5	-	-	-
b-Endosulfan	0.5	mg/kg	<0.5	-	-	-
d-BHC	0.5	mg/kg	<0.5	-	-	-
DDD	0.5	mg/kg	<0.5	-	-	-
DDE	0.5	mg/kg	<0.5	-	-	-
DDT	0.5	mg/kg	<0.5	-	-	-
Dieldrin	0.5	mg/kg	<0.5	-	-	-
Endosulfan sulfate	0.5	mg/kg	<0.5	-	-	-
Endrin	0.5	mg/kg	<0.5	-	-	-
Endrin Aldehyde	0.5	mg/kg	<0.5	-	-	-
g-BHC	0.5	mg/kg	<0.5	-	-	-
g-Chlordane	0.5	mg/kg	<0.5	-	-	-
Heptachlor	0.5	mg/kg	<0.5	-	-	-
Heptachlor epoxide	0.5	mg/kg	<0.5	-	-	-
Hexachlorobenzene (HCB)	0.5	mg/kg	<0.5	-	-	-
Methoxychlor	0.5	mg/kg	<0.5	-	-	-
Oxychlordane	0.5	mg/kg	<0.5	-	-	-
2,4,5,6-tetrachloro-m-xylene - Surrogate	-	%	99	-	-	-
2100 PAH in Soil by GC						
Acenaphthene	0.5	mg/kg	<0.5	-	-	-
Acenaphthylene	0.5	mg/kg	<0.5	-	-	-

Customer Sample ID	TP55 0-0.1	TP55 0.2-0.3	TP55 0.4-0.5	TP55 0.9-1.0	TP55 1.9-2.0
Amdel Sample Number	941416	941417	941418	941420	941421
Date Sampled	07/04/2008	07/04/2008	07/04/2008	07/04/2008	07/04/2008

SVOC							
Test/Reference	PQL	Unit					
Anthracene	0.5	mg/kg	<0.5	-	-	-	-
Benz(a)anthracene	0.5	mg/kg	<0.5	-	-	-	-
Benzo(a)pyrene	0.5	mg/kg	<0.5	-	-	-	-
Benzo(b)&(k)fluoranthene	1	mg/kg	<1	-	-	-	-
Benzo(g,h,i)perylene	0.5	mg/kg	<0.5	-	-	-	-
Chrysene	0.5	mg/kg	<0.5	-	-	-	-
Dibenz(ah)anthracene	0.5	mg/kg	<0.5	-	-	-	-
Fluoranthene	0.5	mg/kg	<0.5	-	-	-	-
Fluorene	0.5	mg/kg	<0.5	-	-	-	-
Indeno(123-cd)pyrene	0.5	mg/kg	<0.5	-	-	-	-
Naphthalene	0.5	mg/kg	<0.5	-	-	-	-
Phenanthrene	0.5	mg/kg	<0.5	-	-	-	-
Pyrene	0.5	mg/kg	<0.5	-	-	-	-
Sum of PAHs	0.5	mg/kg	<0.5	-	-	-	-
2-Fluorobiphenyl - Surrogate	-	%	87	-	-	-	-
p-Terphenyl-D14 - Surrogate	-	%	109	-	-	-	-
Anthracene-d10 - Surrogate	-	%	93	-	-	-	-

2600 PCBs in Soil by GC

Aroclor 1016DB	0.5	mg/kg	<0.5	-	-	-	-
Aroclor 1221DB	0.5	mg/kg	<0.5	-	-	-	-
Aroclor 1232 and 1242 as totalDB	1	mg/kg	<1	-	-	-	-
Aroclor 1248 and 1254 as totalDB	1	mg/kg	<1	-	-	-	-
Aroclor 1260DB	0.5	mg/kg	<0.5	-	-	-	-
Total Polychlorinated biphenylsDB	1	mg/kg	<1	-	-	-	-
Decachlorobiphenyl - PCB surrogate	1	%	83	-	-	-	-

2000 TPH (C10 - C36) in Soil by GC

C10-C14 Fraction	10	mg/kg	<10	-	-	-	-
C15-C28 Fraction	20	mg/kg	<20	-	-	-	-
C29-C36 Fraction	20	mg/kg	25	-	-	-	-

Metals

Test/Reference	PQL	Unit					
3400 Mercury in Soil by FIMS							
Mercury	0.01	mg/kg	0.01	-	-	-	-
3100 Total Metals in Soil By ICP/MS							
Antimony	2	mg/kg	<2	-	-	-	-
Arsenic	2	mg/kg	2.3	-	-	-	-
Barium	2	mg/kg	62	-	-	-	-
Beryllium	2	mg/kg	<2	-	-	-	-
Boron	2	mg/kg	15	-	-	-	-
Cadmium	2	mg/kg	<2	-	-	-	-
Chromium	2	mg/kg	29	-	-	-	-
Cobalt	2	mg/kg	10	-	-	-	-
Copper	2	mg/kg	17	-	-	-	-
Lead	2	mg/kg	19	-	-	-	-
Manganese	2	mg/kg	360	-	-	-	-
Molybdenum	2	mg/kg	<2	-	-	-	-
Nickel	2	mg/kg	13	-	-	-	-
Selenium	2	mg/kg	<2	-	-	-	-
Tin	2	mg/kg	<2	-	-	-	-
Vanadium	2	mg/kg	45	-	-	-	-

Customer Sample ID	TP55 0-0.1	TP55 0.2-0.3	TP55 0.4-0.5	TP55 0.9-1.0	TP55 1.9-2.0
Amdel Sample Number	941416	941417	941418	941420	941421
Date Sampled	07/04/2008	07/04/2008	07/04/2008	07/04/2008	07/04/2008

Metals

Test/Reference	PQL	Unit				
Zinc	2	mg/kg	21	-	-	-

Inorganics

Test/Reference	PQL	Unit				
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4300 Anions in Soil by IC

Fluoride (Soluble)	2	mg/kg	<2	-	-	-
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4270 Total Cyanide in Soil Colourmetric

Total Cyanide	0.1	mg/kg	0.7	-	-	-
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4000 pH in Soil

pH	0.1	pH	7.0	-	-	-
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4850 Total Phenolics in Soil by SFA

Total Phenolics	0.1	mg/kg	<0.1	-	-	-
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Miscellaneous

Test/Reference	PQL	Unit				
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5000 Moisture Content

% Moisture	1	%	2	-	-	-
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Customer Sample ID	QC14A	TP56 0-0.1	TP56 0.2-0.3	TP56 0.4-0.5	TP56 0.9-1.0
Amdel Sample Number	941422	941423	941424	941425	941426
Date Sampled	07/04/2008	07/04/2008	07/04/2008	07/04/2008	07/04/2008

VOC

Test/Reference	PQL	Unit				
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1100 BTEX &(C6-C9) in Soil by P&T

Benzene	0.2	mg/kg	-	<0.2	-	-
Ethylbenzene	1	mg/kg	-	<1	-	-
Meta- & Para- Xylene	2	mg/kg	-	<2	-	-
Ortho-Xylene	1	mg/kg	-	<1	-	-
Toluene	1	mg/kg	-	<1	-	-
Total Xylenes	3	mg/kg	-	<3	-	-
C6-C9 Fraction	5	mg/kg	-	<5	-	-
4-Bromofluorobenzene - Surrogate	-	%	-	102	-	-

SVOC

Test/Reference	PQL	Unit				
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2300 OC Pesticides in Soil by GC-MS

a-BHC	0.5	mg/kg	-	<0.5	-	-
a-Chlordane	0.5	mg/kg	-	<0.5	-	-
a-Endosulfan	0.5	mg/kg	-	<0.5	-	-
Aldrin	0.5	mg/kg	-	<0.5	-	-
b-BHC	0.5	mg/kg	-	<0.5	-	-
b-Endosulfan	0.5	mg/kg	-	<0.5	-	-
d-BHC	0.5	mg/kg	-	<0.5	-	-
DDD	0.5	mg/kg	-	<0.5	-	-
DDE	0.5	mg/kg	-	<0.5	-	-
DDT	0.5	mg/kg	-	<0.5	-	-
Dieldrin	0.5	mg/kg	-	<0.5	-	-
Endosulfan sulfate	0.5	mg/kg	-	<0.5	-	-
Endrin	0.5	mg/kg	-	<0.5	-	-
Endrin Aldehyde	0.5	mg/kg	-	<0.5	-	-

Customer Sample ID	QC14A	TP56 0-0.1	TP56 0.2-0.3	TP56 0.4-0.5	TP56 0.9-1.0
Amdel Sample Number	941422	941423	941424	941425	941426
Date Sampled	07/04/2008	07/04/2008	07/04/2008	07/04/2008	07/04/2008
SVOC					
Test/Reference	PQL	Unit			
g-BHC	0.5	mg/kg	-	<0.5	-
g-Chlordane	0.5	mg/kg	-	<0.5	-
Heptachlor	0.5	mg/kg	-	<0.5	-
Heptachlor epoxide	0.5	mg/kg	-	<0.5	-
Hexachlorobenzene (HCB)	0.5	mg/kg	-	<0.5	-
Methoxychlor	0.5	mg/kg	-	<0.5	-
Oxychlordane	0.5	mg/kg	-	<0.5	-
2,4,5,6-tetrachloro-m-xylene - Surrogate	-	%	-	98	-
2100 PAH in Soil by GC					
Acenaphthene	0.5	mg/kg	-	<0.5	-
Acenaphthylene	0.5	mg/kg	-	<0.5	-
Anthracene	0.5	mg/kg	-	<0.5	-
Benz(a)anthracene	0.5	mg/kg	-	<0.5	-
Benzo(a)pyrene	0.5	mg/kg	-	<0.5	-
Benzo(b)&(k)fluoranthene	1	mg/kg	-	<1	-
Benzo(g,h,i)perylene	0.5	mg/kg	-	<0.5	-
Chrysene	0.5	mg/kg	-	<0.5	-
Dibenz(ah)anthracene	0.5	mg/kg	-	<0.5	-
Fluoranthene	0.5	mg/kg	-	<0.5	-
Fluorene	0.5	mg/kg	-	<0.5	-
Indeno(123-cd)pyrene	0.5	mg/kg	-	<0.5	-
Naphthalene	0.5	mg/kg	-	<0.5	-
Phenanthrene	0.5	mg/kg	-	<0.5	-
Pyrene	0.5	mg/kg	-	<0.5	-
Sum of PAHs	0.5	mg/kg	-	<0.5	-
2-Fluorobiphenyl - Surrogate	-	%	-	88	-
p-Terphenyl-D14 - Surrogate	-	%	-	110	-
Anthracene-d10 - Surrogate	-	%	-	95	-
2000 TPH (C10 - C36) in Soil by GC					
C10-C14 Fraction	10	mg/kg	-	<10	-
C15-C28 Fraction	20	mg/kg	-	<20	-
C29-C36 Fraction	20	mg/kg	-	<20	-
Metals					
Test/Reference	PQL	Unit			
3100 Total Metals in Soil By ICP/MS					
Arsenic	2	mg/kg	-	<2	-
Cadmium	2	mg/kg	-	<2	-
Chromium	2	mg/kg	-	9.3	-
Copper	2	mg/kg	-	3.7	-
Lead	2	mg/kg	-	6.2	-
Nickel	2	mg/kg	-	2.6	-
Zinc	2	mg/kg	-	7.1	-
Inorganics					
Test/Reference	PQL	Unit			
4000 pH in Soil					
pH	0.1	pH	-	6.8	-
Miscellaneous					
Test/Reference	PQL	Unit			

Customer Sample ID	QC14A	TP56 0-0.1	TP56 0.2-0.3	TP56 0.4-0.5	TP56 0.9-1.0
Amdel Sample Number	941422	941423	941424	941425	941426
Date Sampled	07/04/2008	07/04/2008	07/04/2008	07/04/2008	07/04/2008

Miscellaneous

Test/Reference	PQL	Unit				
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5000 Moisture Content

% Moisture	1	%	-	2	-	-	-
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Customer Sample ID	TP56 1.9-2.0	TP57 0-0.1	QC15A	TP57 0.2-0.3	TP57 0.4-0.5
Amdel Sample Number	941427	941428	941429	941430	941431
Date Sampled	07/04/2008	07/04/2008	07/04/2008	07/04/2008	07/04/2008

VOC

Test/Reference	PQL	Unit				
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1100 BTEX & (C6-C9) in Soil by P&T

Benzene	0.2	mg/kg	-	<0.2	-	-	-
Ethylbenzene	1	mg/kg	-	<1.0	-	-	-
Meta- & Para- Xylene	2	mg/kg	-	<2.0	-	-	-
Ortho-Xylene	1	mg/kg	-	<1.0	-	-	-
Toluene	1	mg/kg	-	<1.0	-	-	-
Total Xylenes	3	mg/kg	-	<3.0	-	-	-
C6-C9 Fraction	5	mg/kg	-	<5.0	-	-	-
4-Bromofluorobenzene - Surrogate	-	%	-	105	-	-	-

SVOC

Test/Reference	PQL	Unit				
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2300 OC Pesticides in Soil by GC-MS

a-BHC	0.5	mg/kg	-	<0.5	<0.5	-	-
a-Chlordane	0.5	mg/kg	-	<0.5	<0.5	-	-
a-Endosulfan	0.5	mg/kg	-	<0.5	<0.5	-	-
Aldrin	0.5	mg/kg	-	<0.5	<0.5	-	-
b-BHC	0.5	mg/kg	-	<0.5	<0.5	-	-
b-Endosulfan	0.5	mg/kg	-	<0.5	<0.5	-	-
d-BHC	0.5	mg/kg	-	<0.5	<0.5	-	-
DDD	0.5	mg/kg	-	<0.5	<0.5	-	-
DDE	0.5	mg/kg	-	<0.5	<0.5	-	-
DDT	0.5	mg/kg	-	<0.5	<0.5	-	-
Dieldrin	0.5	mg/kg	-	<0.5	<0.5	-	-
Endosulfan sulfate	0.5	mg/kg	-	<0.5	<0.5	-	-
Endrin	0.5	mg/kg	-	<0.5	<0.5	-	-
Endrin Aldehyde	0.5	mg/kg	-	<0.5	<0.5	-	-
g-BHC	0.5	mg/kg	-	<0.5	<0.5	-	-
g-Chlordane	0.5	mg/kg	-	<0.5	<0.5	-	-
Heptachlor	0.5	mg/kg	-	<0.5	<0.5	-	-
Heptachlor epoxide	0.5	mg/kg	-	<0.5	<0.5	-	-
Hexachlorobenzene (HCB)	0.5	mg/kg	-	<0.5	<0.5	-	-
Methoxychlor	0.5	mg/kg	-	<0.5	<0.5	-	-
Oxychlordane	0.5	mg/kg	-	<0.5	<0.5	-	-
2,4,5,6-tetrachloro-m-xylene - Surrogate	-	%	-	100	100	-	-

2100 PAH in Soil by GC

Acenaphthene	0.5	mg/kg	-	<0.5	-	-	-
Acenaphthylene	0.5	mg/kg	-	<0.5	-	-	-
Anthracene	0.5	mg/kg	-	<0.5	-	-	-
Benz(a)anthracene	0.5	mg/kg	-	<0.5	-	-	-

Customer Sample ID	TP56 1.9-2.0	TP57 0-0.1	QC15A	TP57 0.2-0.3	TP57 0.4-0.5
Amdel Sample Number	941427	941428	941429	941430	941431
Date Sampled	07/04/2008	07/04/2008	07/04/2008	07/04/2008	07/04/2008

SVOC							
Test/Reference	PQL	Unit					
Benzo(a)pyrene	0.5	mg/kg	-	<0.5	-	-	-
Benzo(b)&(k)fluoranthene	1	mg/kg	-	<1	-	-	-
Benzo(g,h,i)perylene	0.5	mg/kg	-	<0.5	-	-	-
Chrysene	0.5	mg/kg	-	<0.5	-	-	-
Dibenz(ah)anthracene	0.5	mg/kg	-	<0.5	-	-	-
Fluoranthene	0.5	mg/kg	-	<0.5	-	-	-
Fluorene	0.5	mg/kg	-	<0.5	-	-	-
Indeno(123-cd)pyrene	0.5	mg/kg	-	<0.5	-	-	-
Naphthalene	0.5	mg/kg	-	<0.5	-	-	-
Phenanthrene	0.5	mg/kg	-	<0.5	-	-	-
Pyrene	0.5	mg/kg	-	<0.5	-	-	-
Sum of PAHs	0.5	mg/kg	-	<0.5	-	-	-
2-Fluorobiphenyl - Surrogate	-	%	-	90	-	-	-
p-Terphenyl-D14 - Surrogate	-	%	-	110	-	-	-
Anthracene-d10 - Surrogate	-	%	-	95	-	-	-

2000 TPH (C10 - C36) in Soil by GC							
Test/Reference	PQL	Unit					
C10-C14 Fraction	10	mg/kg	-	<10	-	-	-
C15-C28 Fraction	20	mg/kg	-	<20	-	-	-
C29-C36 Fraction	20	mg/kg	-	<20	-	-	-

Metals							
Test/Reference	PQL	Unit					
3100 Total Metals in Soil By ICP/MS							
Arsenic	2	mg/kg	-	<2	<2	-	-
Cadmium	2	mg/kg	-	<2	<2	-	-
Chromium	2	mg/kg	-	12	13	-	-
Copper	2	mg/kg	-	5.0	5.7	-	-
Lead	2	mg/kg	-	5.4	5.9	-	-
Nickel	2	mg/kg	-	3.9	4.3	-	-
Zinc	2	mg/kg	-	8.5	9.1	-	-

Inorganics							
Test/Reference	PQL	Unit					
4000 pH in Soil							
pH	0.1	pH	-	6.5	-	-	-

Miscellaneous							
Test/Reference	PQL	Unit					
5000 Moisture Content							
% Moisture	1	%	-	3	2	-	-

Customer Sample ID	TP57 0.9-1.0	TP57 1.9-2.0	SP3	TP58 0-0.1	TP58 0.2-0.3
Amdel Sample Number	941432	941433	941434	941435	941436
Date Sampled	07/04/2008	07/04/2008	07/04/2008	07/04/2008	07/04/2008

VOC							
Test/Reference	PQL	Unit					
1100 BTEX &(C6-C9) in Soil by P&T							
Benzene	0.2	mg/kg	-	-	-	-	<0.2
Ethylbenzene	1	mg/kg	-	-	-	-	<1.0
Meta- & Para- Xylene	2	mg/kg	-	-	-	-	<2.0

Customer Sample ID	TP57 0.9-1.0	TP57 1.9-2.0	SP3	TP58 0-0.1	TP58 0.2-0.3
Amdel Sample Number	941432	941433	941434	941435	941436
Date Sampled	07/04/2008	07/04/2008	07/04/2008	07/04/2008	07/04/2008

VOC						
Test/Reference	PQL	Unit				
Ortho-Xylene	1	mg/kg	-	-	-	<1.0
Toluene	1	mg/kg	-	-	-	<1.0
Total Xylenes	3	mg/kg	-	-	-	<3.0
C6-C9 Fraction	5	mg/kg	-	-	-	<5.0
4-Bromofluorobenzene - Surrogate	-	%	-	-	-	105

SVOC						
Test/Reference	PQL	Unit				

2300 OC Pesticides in Soil by GC-MS						
a-BHC	0.5	mg/kg	-	-	-	<0.5
a-Chlordane	0.5	mg/kg	-	-	-	<0.5
a-Endosulfan	0.5	mg/kg	-	-	-	<0.5
Aldrin	0.5	mg/kg	-	-	-	<0.5
b-BHC	0.5	mg/kg	-	-	-	<0.5
b-Endosulfan	0.5	mg/kg	-	-	-	<0.5
d-BHC	0.5	mg/kg	-	-	-	<0.5
DDD	0.5	mg/kg	-	-	-	<0.5
DDE	0.5	mg/kg	-	-	-	<0.5
DDT	0.5	mg/kg	-	-	-	<0.5
Dieldrin	0.5	mg/kg	-	-	-	<0.5
Endosulfan sulfate	0.5	mg/kg	-	-	-	<0.5
Endrin	0.5	mg/kg	-	-	-	<0.5
Endrin Aldehyde	0.5	mg/kg	-	-	-	<0.5
g-BHC	0.5	mg/kg	-	-	-	<0.5
g-Chlordane	0.5	mg/kg	-	-	-	<0.5
Heptachlor	0.5	mg/kg	-	-	-	<0.5
Heptachlor epoxide	0.5	mg/kg	-	-	-	<0.5
Hexachlorobenzene (HCB)	0.5	mg/kg	-	-	-	<0.5
Methoxychlor	0.5	mg/kg	-	-	-	<0.5
Oxychlordane	0.5	mg/kg	-	-	-	<0.5
2,4,5,6-tetrachloro-m-xylene - Surrogate	-	%	-	-	-	95

2100 PAH in Soil by GC						
Acenaphthene	0.5	mg/kg	-	-	-	<0.5
Acenaphthylene	0.5	mg/kg	-	-	-	<0.5
Anthracene	0.5	mg/kg	-	-	-	<0.5
Benz(a)anthracene	0.5	mg/kg	-	-	-	<0.5
Benzo(a)pyrene	0.5	mg/kg	-	-	-	<0.5
Benzo(b)&(k)fluoranthene	1	mg/kg	-	-	-	<1
Benzo(g,h,i)perylene	0.5	mg/kg	-	-	-	<0.5
Chrysene	0.5	mg/kg	-	-	-	<0.5
Dibenz(ah)anthracene	0.5	mg/kg	-	-	-	<0.5
Fluoranthene	0.5	mg/kg	-	-	-	<0.5
Fluorene	0.5	mg/kg	-	-	-	<0.5
Indeno(123-cd)pyrene	0.5	mg/kg	-	-	-	<0.5
Naphthalene	0.5	mg/kg	-	-	-	<0.5
Phenanthrene	0.5	mg/kg	-	-	-	<0.5
Pyrene	0.5	mg/kg	-	-	-	<0.5
Sum of PAHs	0.5	mg/kg	-	-	-	<0.5
2-Fluorobiphenyl - Surrogate	-	%	-	-	-	70
p-Terphenyl-D14 - Surrogate	-	%	-	-	-	106

Customer Sample ID	TP57 0.9-1.0	TP57 1.9-2.0	SP3	TP58 0-0.1	TP58 0.2-0.3
Amdel Sample Number	941432	941433	941434	941435	941436
Date Sampled	07/04/2008	07/04/2008	07/04/2008	07/04/2008	07/04/2008

SVOC

Test/Reference	PQL	Unit					
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Anthracene-d10 - Surrogate	-	%	-	-	-	-	92
2000 TPH (C10 - C36) in Soil by GC							
C10-C14 Fraction	10	mg/kg	-	-	-	-	<10
C15-C28 Fraction	20	mg/kg	-	-	-	-	<20
C29-C36 Fraction	20	mg/kg	-	-	-	-	<20

Metals

Test/Reference	PQL	Unit					
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3100 Total Metals in Soil By ICP/MS							
Arsenic	2	mg/kg	-	-	-	-	<2
Cadmium	2	mg/kg	-	-	-	-	<2
Chromium	2	mg/kg	-	-	-	-	22
Copper	2	mg/kg	-	-	-	-	10
Lead	2	mg/kg	-	-	-	-	4.7
Nickel	2	mg/kg	-	-	-	-	8.5
Zinc	2	mg/kg	-	-	-	-	11

Inorganics

Test/Reference	PQL	Unit					
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4000 pH in Soil							
pH	0.1	pH	-	-	-	-	7.8

Miscellaneous

Test/Reference	PQL	Unit					
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5000 Moisture Content							
% Moisture	1	%	-	-	-	-	4

Customer Sample ID	QC16A	TP58 0.4-0.5	TP58 0.9-1.0	TP58 1.9-2.0	TP59 0-0.1
Amdel Sample Number	941437	941438	941439	941440	941441
Date Sampled	07/04/2008	07/04/2008	07/04/2008	07/04/2008	07/04/2008

VOC

Test/Reference	PQL	Unit					
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1100 BTEX & (C6-C9) in Soil by P&T							
Benzene	0.2	mg/kg	-	-	-	-	<0.2
Ethylbenzene	1	mg/kg	-	-	-	-	<1.0
Meta- & Para- Xylene	2	mg/kg	-	-	-	-	<2.0
Ortho-Xylene	1	mg/kg	-	-	-	-	<1.0
Toluene	1	mg/kg	-	-	-	-	<1.0
Total Xylenes	3	mg/kg	-	-	-	-	<3.0
C6-C9 Fraction	5	mg/kg	-	-	-	-	<5.0
4-Bromofluorobenzene - Surrogate	-	%	-	-	-	-	110

SVOC

Test/Reference	PQL	Unit					
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2300 OC Pesticides in Soil by GC-MS							
a-BHC	0.5	mg/kg	-	-	-	-	<0.5
a-Chlordane	0.5	mg/kg	-	-	-	-	<0.5
a-Endosulfan	0.5	mg/kg	-	-	-	-	<0.5
Aldrin	0.5	mg/kg	-	-	-	-	<0.5
b-BHC	0.5	mg/kg	-	-	-	-	<0.5

Customer Sample ID	QC16A	TP58 0.4-0.5	TP58 0.9-1.0	TP58 1.9-2.0	TP59 0-0.1
Amdel Sample Number	941437	941438	941439	941440	941441
Date Sampled	07/04/2008	07/04/2008	07/04/2008	07/04/2008	07/04/2008
SVOC					
Test/Reference	PQL	Unit			
b-Endosulfan	0.5	mg/kg	-	-	<0.5
d-BHC	0.5	mg/kg	-	-	<0.5
DDD	0.5	mg/kg	-	-	<0.5
DDE	0.5	mg/kg	-	-	<0.5
DDT	0.5	mg/kg	-	-	<0.5
Dieldrin	0.5	mg/kg	-	-	<0.5
Endosulfan sulfate	0.5	mg/kg	-	-	<0.5
Endrin	0.5	mg/kg	-	-	<0.5
Endrin Aldehyde	0.5	mg/kg	-	-	<0.5
g-BHC	0.5	mg/kg	-	-	<0.5
g-Chlordane	0.5	mg/kg	-	-	<0.5
Heptachlor	0.5	mg/kg	-	-	<0.5
Heptachlor epoxide	0.5	mg/kg	-	-	<0.5
Hexachlorobenzene (HCB)	0.5	mg/kg	-	-	<0.5
Methoxychlor	0.5	mg/kg	-	-	<0.5
Oxychlordane	0.5	mg/kg	-	-	<0.5
2,4,5,6-tetrachloro-m-xylene - Surrogate	-	%	-	-	96
2100 PAH in Soil by GC					
Acenaphthene	0.5	mg/kg	-	-	<0.5
Acenaphthylene	0.5	mg/kg	-	-	<0.5
Anthracene	0.5	mg/kg	-	-	<0.5
Benz(a)anthracene	0.5	mg/kg	-	-	<0.5
Benzo(a)pyrene	0.5	mg/kg	-	-	<0.5
Benzo(b)&(k)fluoranthene	1	mg/kg	-	-	<1
Benzo(g,h,i)perylene	0.5	mg/kg	-	-	<0.5
Chrysene	0.5	mg/kg	-	-	<0.5
Dibenz(ah)anthracene	0.5	mg/kg	-	-	<0.5
Fluoranthene	0.5	mg/kg	-	-	<0.5
Fluorene	0.5	mg/kg	-	-	<0.5
Indeno(123-cd)pyrene	0.5	mg/kg	-	-	<0.5
Naphthalene	0.5	mg/kg	-	-	<0.5
Phenanthrene	0.5	mg/kg	-	-	<0.5
Pyrene	0.5	mg/kg	-	-	<0.5
Sum of PAHs	0.5	mg/kg	-	-	<0.5
2-Fluorobiphenyl - Surrogate	-	%	-	-	80
p-Terphenyl-D14 - Surrogate	-	%	-	-	106
Anthracene-d10 - Surrogate	-	%	-	-	92
2000 TPH (C10 - C36) in Soil by GC					
C10-C14 Fraction	10	mg/kg	-	-	<10
C15-C28 Fraction	20	mg/kg	-	-	<20
C29-C36 Fraction	20	mg/kg	-	-	<20
Metals					
Test/Reference	PQL	Unit			
3100 Total Metals in Soil By ICP/MS					
Arsenic	2	mg/kg	-	-	3.0
Cadmium	2	mg/kg	-	-	<2
Chromium	2	mg/kg	-	-	40
Copper	2	mg/kg	-	-	23
Lead	2	mg/kg	-	-	16

Customer Sample ID	QC16A	TP58 0.4-0.5	TP58 0.9-1.0	TP58 1.9-2.0	TP59 0-0.1
Amdel Sample Number	941437	941438	941439	941440	941441
Date Sampled	07/04/2008	07/04/2008	07/04/2008	07/04/2008	07/04/2008
Metals					
Test/Reference	PQL	Unit			
Nickel	2	mg/kg	-	-	17
Zinc	2	mg/kg	-	-	24
Inorganics					
Test/Reference	PQL	Unit			
4000 pH in Soil					
pH	0.1	pH	-	-	6.3
Miscellaneous					
Test/Reference	PQL	Unit			
5000 Moisture Content					
% Moisture	1	%	-	-	8

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.

Description	Extracted	Analysed
1100 BTEX &(C6-C9) in Soil by P&T		15/04/2008
1100 MAH(BTEX & C6-C9) in Soil P&T		14/04/2008
2000 TPH (C10 - C36) in Soil by GC	11/04/2008	14/04/2008
2100 PAH in Soil by GC	11/04/2008	15/04/2008
2300 OC Pesticides in Soil by GC-MS	11/04/2008	15/04/2008
2600 PCBs in Soil by GC	11/04/2008	15/04/2008
3100 Total Metals in Soil By ICP/MS	17/04/2008	18/04/2008
3400 Mercury in Soil by FIMS	17/04/2008	17/04/2008
4000 pH in Soil		14/04/2008
4270 Total Cyanide in Soil Colourmetric	10/04/2008	16/04/2008
4300 Anions in Soil by IC	10/04/2008	11/04/2008
4850 Total Phenolics in Soil by SFA	10/04/2008	16/04/2008
5000 Moisture Content		10/04/2008

Amdel Internal Quality Control Review

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. Amdel QC Acceptance/Rejection criteria are available on request.
3. Proficiency trial results are available on request.
4. Actual PQLs are matrix dependant. Quotes PQLs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spike or surrogate recoveries.
6. Test samples duplicated or spiked, are for this job only and are identified in the following QC report.
7. SVOC analyses on waters are performed on homogenized, unfiltered sample, unless noted otherwise.
8. When individual results are qualified in the body of a report, refer to the qualifier descriptions that follow.

Holding Times

Please refer to 'Sampling and Preservation Chart for Soils & Waters' for holding times. (Form LM-FOR-ADM-020)

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgement.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitability qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT an RPD

Quality Control Results

Laboratory: **EN_METALS**

Sample, Test, Result Reference	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Codes
955170 [Method Blank]						
3100 Metals in Soil - As Received						
Antimony	mg/kg	<2		< 2	T	
Arsenic	mg/kg	<2		< 2	T	
Barium	mg/kg	<2		< 2	T	
Beryllium	mg/kg	<2		< 2	T	
Boron	mg/kg	<2		< 2	T	
Cadmium	mg/kg	<2		< 2	T	
Chromium	mg/kg	<2		< 2	T	
Cobalt	mg/kg	<2		< 2	T	
Copper	mg/kg	<2		< 2	T	
Lead	mg/kg	<2		< 2	T	
Manganese	mg/kg	<2		< 2	T	
Molybdenum	mg/kg	2.3		< 2	F	
Nickel	mg/kg	<2		< 2	T	
Selenium	mg/kg	<2		< 2	T	
Tin	mg/kg	<2		< 2	T	
Vanadium	mg/kg	<2		< 2	T	
Zinc	mg/kg	<2		< 2	T	
955200 [Method Blank]						
3400 Mercury in Soil by FIMS						
Mercury	mg/kg	<0.01		< 0.01	T	

Laboratory: EN_METALS

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
955171 [Laboratory Control Sample]							
3100 Metals in Soil - As Received			Expected Value	Percent Recovery			
Antimony	mg/kg	100	100.0	100	70-130 %	T	
Arsenic	mg/kg	99	100.0	99	70-130 %	T	
Barium	mg/kg	110	100.0	110	70-130 %	T	
Boron	mg/kg	120	100.0	116	70-130 %	T	
Cadmium	mg/kg	110	100.0	106	70-130 %	T	
Chromium	mg/kg	110	100.0	107	70-130 %	T	
Cobalt	mg/kg	110	100.0	112	70-130 %	T	
Copper	mg/kg	110	100.0	108	70-130 %	T	
Lead	mg/kg	100	100.0	102	70-130 %	T	
Manganese	mg/kg	110	100.0	112	70-130 %	T	
Nickel	mg/kg	120	100.0	117	70-130 %	T	
Selenium	mg/kg	93	100.0	93	70-130 %	T	
Tin	mg/kg	120	100.0	117	70-130 %	T	
Vanadium	mg/kg	110	100.0	106	70-130 %	T	
Zinc	mg/kg	97	100.0	97	70-130 %	T	
955201 [Laboratory Control Sample]							
3400 Mercury in Soil by FIMS			Expected Value	Percent Recovery			
Mercury	mg/kg	9.5	10.0	95	80-120 %	T	
943278 [Duplicate of 941380]							
3100 Total Metals in Soil By ICP/MS			Result 2	RPD			
Arsenic	mg/kg	<2	<2	<1	0-30 %	T	
Cadmium	mg/kg	<2	<2	<1	0-30 %	T	
Chromium	mg/kg	17	18	6	0-30 %	T	
Copper	mg/kg	7.7	7.7	1	0-30 %	T	
Lead	mg/kg	7.8	8.1	4	0-30 %	T	
Nickel	mg/kg	6.1	6.0	1	0-30 %	T	
Zinc	mg/kg	15	15	<1	0-30 %	T	
943280 [Duplicate of 941387]							
3100 Total Metals in Soil By ICP/MS			Result 2	RPD			
Arsenic	mg/kg	<2	<2	<1	0-30 %	T	
Cadmium	mg/kg	<2	<2	<1	0-30 %	T	
Chromium	mg/kg	17	16	6	0-30 %	T	
Copper	mg/kg	12	11	9	0-30 %	T	
Lead	mg/kg	5.6	5.6	1	0-30 %	T	
Nickel	mg/kg	6.2	5.9	5	0-30 %	T	
Zinc	mg/kg	26	21	20	0-30 %	T	
943290 [Spike of 941395]							
3100 Total Metals in Soil By ICP/MS			Spike Value	Percent Recovery			
Arsenic	mg/kg	110	100.0	106	70-130 %	T	
Cadmium	mg/kg	110	100.0	108	70-130 %	T	
Chromium	mg/kg	160	100.0	123	70-130 %	T	
Copper	mg/kg	130	100.0	113	70-130 %	T	
Lead	mg/kg	110	100.0	103	70-130 %	T	
Nickel	mg/kg	140	100.0	119	70-130 %	T	
Zinc	mg/kg	120	100.0	99	70-130 %	T	

Laboratory: EN_SVOC

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
944947 [Method Blank]							
2000 TPH (C10 - C36) in Soil by GC							
C10-C14 Fraction	mg/kg	<10			< 10	T	
C15-C28 Fraction	mg/kg	<20			< 20	T	
C29-C36 Fraction	mg/kg	<20			< 20	T	

Laboratory: EN_SVOC

Sample, Test, Result Reference	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Codes
944949 [Method Blank]						
2600 PCBs in Soil by GC						
Aroclor 1016	mg/kg	<0.5		< 0.5	T	
Aroclor 1221	mg/kg	<0.5		< 0.5	T	
Aroclor 1232 and 1242 as total	mg/kg	<1		< 1	T	
Aroclor 1248 and 1254 as total	mg/kg	<1		< 1	T	
Aroclor 1260	mg/kg	<0.5		< 0.5	T	
Total Polychlorinated biphenyls	mg/kg	<1		< 1	T	
Decachlorobiphenyl - PCB surrogate	%	95		70-130 %	T	
944954 [Method Blank]						
2000 TPH (C10 - C36) in Soil by GC						
C10-C14 Fraction	mg/kg	<10		< 10	T	
C15-C28 Fraction	mg/kg	<20		< 20	T	
C29-C36 Fraction	mg/kg	<20		< 20	T	
944956 [Method Blank]						
2100 PAH in Soil by GC						
Acenaphthene	mg/kg	<0.5		< 0.5	T	
Acenaphthylene	mg/kg	<0.5		< 0.5	T	
Anthracene	mg/kg	<0.5		< 0.5	T	
Benz(a)anthracene	mg/kg	<0.5		< 0.5	T	
Benzo(a)pyrene	mg/kg	<0.5		< 0.5	T	
Benzo(b)&(k)fluoranthene	mg/kg	<1		< 1	T	
Benzo(g,h,i)perylene	mg/kg	<0.5		< 0.5	T	
Chrysene	mg/kg	<0.5		< 0.5	T	
Dibenz(ah)anthracene	mg/kg	<0.5		< 0.5	T	
Fluoranthene	mg/kg	<0.5		< 0.5	T	
Fluorene	mg/kg	<0.5		< 0.5	T	
Indeno(123-cd)pyrene	mg/kg	<0.5		< 0.5	T	
Naphthalene	mg/kg	<0.5		< 0.5	T	
Phenanthrene	mg/kg	<0.5		< 0.5	T	
Pyrene	mg/kg	<0.5		< 0.5	T	
Sum of PAHs	mg/kg	<0.5		< 0.5	T	
2-Fluorobiphenyl - Surrogate	%	104		70-130 %	T	
Anthracene-d10 - Surrogate	%	110		70-130 %	T	
p-Terphenyl-D14 - Surrogate	%	124		70-130 %	T	
2300 OC Pesticides in Soil by GC-ECD						
a-BHC	mg/kg	<0.5		< 0.5	T	
a-Chlordane	mg/kg	<0.5		< 0.5	T	
a-Endosulfan	mg/kg	<0.5		< 0.5	T	
Aldrin	mg/kg	<0.5		< 0.5	T	
b-BHC	mg/kg	<0.5		< 0.5	T	
b-Endosulfan	mg/kg	<0.5		< 0.5	T	
d-BHC	mg/kg	<0.5		< 0.5	T	
DDD	mg/kg	<0.5		< 0.5	T	
DDE	mg/kg	<0.5		< 0.5	T	
DDT	mg/kg	<0.5		< 0.5	T	
Dieldrin	mg/kg	<0.5		< 0.5	T	
Endosulfan sulfate	mg/kg	<0.5		< 0.5	T	
Endrin	mg/kg	<0.5		< 0.5	T	
Endrin Aldehyde	mg/kg	<0.5		< 0.5	T	
g-BHC	mg/kg	<0.5		< 0.5	T	
g-Chlordane	mg/kg	<0.5		< 0.5	T	
Heptachlor	mg/kg	<0.5		< 0.5	T	
Heptachlor epoxide	mg/kg	<0.5		< 0.5	T	
Hexachlorobenzene (HCB)	mg/kg	<0.5		< 0.5	T	
Methoxychlor	mg/kg	<0.5		< 0.5	T	
Oxychlordane	mg/kg	<0.5		< 0.5	T	
2,4,5,6-tetrachloro-m-xylene-SURROGATE	%	116		70-130 %	T	

Laboratory: EN_SVOC

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
944948 [Laboratory Control Sample]							
2000 TPH (C10 - C36) in Soil by GC			Expected Value	Percent Recovery			
C10-C14 Fraction	mg/kg	130	125.0	104	70-130 %	T	
C15-C28 Fraction	mg/kg	150	125.0	121	70-130 %	T	
C29-C36 Fraction	mg/kg	130	125.0	103	70-130 %	T	
944955 [Laboratory Control Sample]							
2000 TPH (C10 - C36) in Soil by GC			Expected Value	Percent Recovery			
C10-C14 Fraction	mg/kg	140	125.0	113	70-130 %	T	
C15-C28 Fraction	mg/kg	160	125.0	126	70-130 %	T	
C29-C36 Fraction	mg/kg	140	125.0	114	70-130 %	T	
943281 [Duplicate of 941380]							
2300 OC Pesticides in Soil by GC-MS			Result 2	RPD			
a-BHC	mg/kg	<0.5	<0.5	<1	0-30 %	T	
a-Chlordane	mg/kg	<0.5	<0.5	<1	0-30 %	T	
a-Endosulfan	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Aldrin	mg/kg	<0.5	<0.5	<1	0-30 %	T	
b-BHC	mg/kg	<0.5	<0.5	<1	0-30 %	T	
b-Endosulfan	mg/kg	<0.5	<0.5	<1	0-30 %	T	
d-BHC	mg/kg	<0.5	<0.5	<1	0-30 %	T	
DDD	mg/kg	<0.5	<0.5	<1	0-30 %	T	
DDE	mg/kg	<0.5	<0.5	<1	0-30 %	T	
DDT	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Dieldrin	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Endosulfan sulfate	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Endrin	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Endrin Aldehyde	mg/kg	<0.5	<0.5	<1	0-30 %	T	
g-BHC	mg/kg	<0.5	<0.5	<1	0-30 %	T	
g-Chlordane	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Heptachlor	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Heptachlor epoxide	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Hexachlorobenzene (HCB)	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Methoxychlor	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Oxychlordane	mg/kg	<0.5	<0.5	<1	0-30 %	T	
2,4,5,6-tetrachloro-m-xylene - Surrogate	%	94			70-130 %	T	
943282 [Duplicate of 941387]							
2300 OC Pesticides in Soil by GC-MS			Result 2	RPD			
a-BHC	mg/kg	<0.5	<0.5	<1	0-30 %	T	
a-Chlordane	mg/kg	<0.5	<0.5	<1	0-30 %	T	
a-Endosulfan	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Aldrin	mg/kg	<0.5	<0.5	<1	0-30 %	T	
b-BHC	mg/kg	<0.5	<0.5	<1	0-30 %	T	
b-Endosulfan	mg/kg	<0.5	<0.5	<1	0-30 %	T	
d-BHC	mg/kg	<0.5	<0.5	<1	0-30 %	T	
DDD	mg/kg	<0.5	<0.5	<1	0-30 %	T	
DDE	mg/kg	<0.5	<0.5	<1	0-30 %	T	
DDT	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Dieldrin	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Endosulfan sulfate	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Endrin	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Endrin Aldehyde	mg/kg	<0.5	<0.5	<1	0-30 %	T	
g-BHC	mg/kg	<0.5	<0.5	<1	0-30 %	T	
g-Chlordane	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Heptachlor	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Heptachlor epoxide	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Hexachlorobenzene (HCB)	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Methoxychlor	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Oxychlordane	mg/kg	<0.5	<0.5	<1	0-30 %	T	
2,4,5,6-tetrachloro-m-xylene - Surrogate	%	96			70-130 %	T	

Laboratory: EN_SVOC

Sample, Test, Result Reference	Units	Result 1	Result 2	RPD	Acceptance Limits	Pass Limits	Qualifying Codes
943283 [Duplicate of 941380]							
2100 PAH in Soil by GC			Result 2	RPD			
Acenaphthene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Acenaphthylene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Anthracene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Benz(a)anthracene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Benzo(a)pyrene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Benzo(b)&(k)fluoranthene	mg/kg	<1	<1	<1	0-30 %	T	
Benzo(g,h,i)perylene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Chrysene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Dibenz(ah)anthracene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Fluoranthene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Fluorene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Indeno(123-cd)pyrene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Naphthalene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Phenanthrene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Pyrene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Sum of PAHs	mg/kg	<0.5	<0.5	<1	0-30 %	T	
2-Fluorobiphenyl - Surrogate	%	73			70-130 %	T	
Anthracene-d10 - Surrogate	%	90			70-130 %	T	
p-Terphenyl-D14 - Surrogate	%	104			70-130 %	T	
943284 [Duplicate of 941387]							
2100 PAH in Soil by GC			Result 2	RPD			
Acenaphthene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Acenaphthylene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Anthracene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Benz(a)anthracene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Benzo(a)pyrene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Benzo(b)&(k)fluoranthene	mg/kg	<1	<1	<1	0-30 %	T	
Benzo(g,h,i)perylene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Chrysene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Dibenz(ah)anthracene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Fluoranthene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Fluorene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Indeno(123-cd)pyrene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Naphthalene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Phenanthrene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Pyrene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Sum of PAHs	mg/kg	<0.5	<0.5	<1	0-30 %	T	
2-Fluorobiphenyl - Surrogate	%	86			70-130 %	T	
Anthracene-d10 - Surrogate	%	94			70-130 %	T	
p-Terphenyl-D14 - Surrogate	%	110			70-130 %	T	
943287 [Duplicate of 941380]							
2000 TPH (C10 - C36) in Soil by GC			Result 2	RPD			
C10-C14 Fraction	mg/kg	<10	<10	<1	0-30 %	T	
C15-C28 Fraction	mg/kg	<20	<20	<1	0-30 %	T	
C29-C36 Fraction	mg/kg	21	<20	5	0-30 %	T	
943288 [Duplicate of 941387]							
2000 TPH (C10 - C36) in Soil by GC			Result 2	RPD			
C10-C14 Fraction	mg/kg	<10	<10	<1	0-30 %	T	
C15-C28 Fraction	mg/kg	<20	<20	<1	0-30 %	T	
C29-C36 Fraction	mg/kg	<20	<20	<1	0-30 %	T	

Laboratory: EN_SVOC

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
943291 [Spike of 941395]							
2300 OC Pesticides in Soil by GC-MS			Spike Value	Percent Recovery			
a-BHC	mg/kg	1.8	2.0	88	70-130 %	T	
a-Chlordane	mg/kg	2.0	2.0	99	70-130 %	T	
a-Endosulfan	mg/kg	2.0	2.0	101	70-130 %	T	
Aldrin	mg/kg	1.6	2.0	82	70-130 %	T	
b-BHC	mg/kg	1.7	2.0	84	70-130 %	T	
b-Endosulfan	mg/kg	2.0	2.0	101	70-130 %	T	
d-BHC	mg/kg	1.9	2.0	94	70-130 %	T	
DDD	mg/kg	2.1	2.0	104	70-130 %	T	
DDE	mg/kg	2.2	2.0	110	70-130 %	T	
DDT	mg/kg	1.6	2.0	82	70-130 %	T	
Dieldrin	mg/kg	2.0	2.0	99	70-130 %	T	
Endosulfan sulfate	mg/kg	1.8	2.0	88	70-130 %	T	
Endrin	mg/kg	2.0	2.0	100	70-130 %	T	
Endrin Aldehyde	mg/kg	2.0	2.0	100	70-130 %	T	
g-BHC	mg/kg	1.7	2.0	85	70-130 %	T	
g-Chlordane	mg/kg	2.0	2.0	99	70-130 %	T	
Heptachlor	mg/kg	1.5	2.0	76	70-130 %	T	
Heptachlor epoxide	mg/kg	2.0	2.0	100	70-130 %	T	
Hexachlorobenzene (HCB)	mg/kg	1.9	2.0	96	70-130 %	T	
Methoxychlor	mg/kg	1.6	2.0	79	70-130 %	T	
Oxychlordane	mg/kg	<0.5	N/A	N/A	N/A	N/A	
2,4,5,6-tetrachloro-m-xylene - Surrogate	%	93			70-130 %	T	
943292 [Spike of 941395]							
2100 PAH in Soil by GC			Spike Value	Percent Recovery			
Acenaphthene	mg/kg	1.8	2.0	90	70-130 %	T	
Acenaphthylene	mg/kg	1.7	2.0	85	70-130 %	T	
Anthracene	mg/kg	1.8	2.0	90	70-130 %	T	
Benz(a)anthracene	mg/kg	1.8	2.0	89	70-130 %	T	
Benzo(a)pyrene	mg/kg	1.6	2.0	79	70-130 %	T	
Benzo(b)&(k)fluoranthene	mg/kg	3.2	4.0	79	70-130 %	T	
Benzo(g,h,i)perylene	mg/kg	1.7	2.0	84	70-130 %	T	
Chrysene	mg/kg	1.7	2.0	86	70-130 %	T	
Dibenz(ah)anthracene	mg/kg	1.7	2.0	84	70-130 %	T	
Fluoranthene	mg/kg	1.9	2.0	96	70-130 %	T	
Fluorene	mg/kg	1.7	2.0	84	70-130 %	T	
Indeno(123-cd)pyrene	mg/kg	1.7	2.0	85	70-130 %	T	
Naphthalene	mg/kg	1.8	2.0	90	70-130 %	T	
Phenanthrene	mg/kg	1.8	2.0	91	70-130 %	T	
Pyrene	mg/kg	1.9	2.0	94	70-130 %	T	
Sum of PAHs	mg/kg	28	32.0	87	70-130 %	T	
2-Fluorobiphenyl - Surrogate	%	76			70-130 %	T	
Anthracene-d10 - Surrogate	%	92			70-130 %	T	
p-Terphenyl-D14 - Surrogate	%	104			70-130 %	T	
943293 [Spike of 941395]							
2000 TPH (C10 - C36) in Soil by GC			Spike Value	Percent Recovery			
C10-C14 Fraction	mg/kg	110	125.0	84	70-130 %	T	
C15-C28 Fraction	mg/kg	110	125.0	84	70-130 %	T	
C29-C36 Fraction	mg/kg	110	125.0	88	70-130 %	T	

Laboratory: EN_VOC

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
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Laboratory: EN_VOC

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
946126 [Method Blank]							
1100 BTEX in Soil by P&T							
Benzene	mg/kg	<0.2			< 0.2	T	
C6-C9 Fraction	mg/kg	<5.0			< 5	T	
Ethylbenzene	mg/kg	<1.0			< 1	T	
Meta- & Para- Xylene	mg/kg	<2.0			< 2	T	
Ortho-Xylene	mg/kg	<1.0			< 1	T	
Toluene	mg/kg	<1.0			< 1	T	
Total Xylenes	mg/kg	<3.0			< 3	T	
4-Bromofluorobenzene - Surrogate	%	107			70-130 %	T	
946129 [Method Blank]							
1100 BTEX in Soil by P&T							
Benzene	mg/kg	<0.2			< 0.2	T	
C6-C9 Fraction	mg/kg	<5.0			< 5	T	
Ethylbenzene	mg/kg	<1.0			< 1	T	
Meta- & Para- Xylene	mg/kg	<2.0			< 2	T	
Ortho-Xylene	mg/kg	<1.0			< 1	T	
Toluene	mg/kg	<1.0			< 1	T	
Total Xylenes	mg/kg	<3.0			< 3	T	
4-Bromofluorobenzene - Surrogate	%	109			70-130 %	T	
946127 [Laboratory Control Sample]							
1100 BTEX in Soil by P&T							
			Expected Value	Percent Recovery			
Benzene	mg/kg	4.5	5.0	91	70-130 %	T	
C6-C9 Fraction	mg/kg	56	50.0	110	70-130 %	T	
Ethylbenzene	mg/kg	4.6	5.0	93	70-130 %	T	
Meta- & Para- Xylene	mg/kg	9.4	10.0	94	70-130 %	T	
Ortho-Xylene	mg/kg	4.7	5.0	93	70-130 %	T	
Toluene	mg/kg	4.7	5.0	94	70-130 %	T	
Total Xylenes	mg/kg	14	N/A	N/A	N/A	N/A	
4-Bromofluorobenzene - Surrogate	%	106			70-130 %	T	
946130 [Laboratory Control Sample]							
1100 BTEX in Soil by P&T							
			Expected Value	Percent Recovery			
Benzene	mg/kg	4.4	5.0	87	70-130 %	T	
C6-C9 Fraction	mg/kg	42	50.0	84	70-130 %	T	
Ethylbenzene	mg/kg	4.4	5.0	88	70-130 %	T	
Meta- & Para- Xylene	mg/kg	8.8	10.0	88	70-130 %	T	
Ortho-Xylene	mg/kg	4.4	5.0	88	70-130 %	T	
Toluene	mg/kg	4.4	5.0	87	70-130 %	T	
Total Xylenes	mg/kg	13	N/A	N/A	N/A	N/A	
4-Bromofluorobenzene - Surrogate	%	104			70-130 %	T	
943275 [Duplicate of 941380]							
1100 BTEX &(C6-C9) in Soil by P&T							
			Result 2	RPD			
Benzene	mg/kg	<0.2	<0.2	<1	0-30 %	T	
C6-C9 Fraction	mg/kg	<5.0	<5.0	<1	0-30 %	T	
Ethylbenzene	mg/kg	<1.0	<1.0	<1	0-30 %	T	
Meta- & Para- Xylene	mg/kg	<2.0	<2.0	<1	0-30 %	T	
Ortho-Xylene	mg/kg	<1.0	<1.0	<1	0-30 %	T	
Toluene	mg/kg	<1.0	<1.0	<1	0-30 %	T	
Total Xylenes	mg/kg	<3.0	<3.0	N/A	N/A	N/A	
4-Bromofluorobenzene - Surrogate	%	106			70-130 %	T	
943277 [Duplicate of 941387]							
1100 BTEX &(C6-C9) in Soil by P&T							
			Result 2	RPD			
Benzene	mg/kg	<0.2	<0.2	<1	0-30 %	T	
C6-C9 Fraction	mg/kg	<5.0	<5.0	<1	0-30 %	T	
Ethylbenzene	mg/kg	<1.0	<1.0	<1	0-30 %	T	
Meta- & Para- Xylene	mg/kg	<2.0	<2.0	<1	0-30 %	T	
Ortho-Xylene	mg/kg	<1.0	<1.0	<1	0-30 %	T	
Toluene	mg/kg	<1.0	<1.0	<1	0-30 %	T	
Total Xylenes	mg/kg	<3.0	<3.0	N/A	N/A	N/A	
4-Bromofluorobenzene - Surrogate	%	103			70-130 %	T	

Laboratory: EN_VOC

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
943289 [Spike of 941395]							
1100 BTEX &(C6-C9) in Soil by P&T			Spike Value	Percent Recovery			
Benzene	mg/kg	3.9	5.0	78	70-130 %	T	
C6-C9 Fraction	mg/kg	51	50.0	100	70-130 %	T	
Ethylbenzene	mg/kg	4.0	5.0	79	70-130 %	T	
Meta- & Para- Xylene	mg/kg	8.0	10.0	80	70-130 %	T	
Ortho-Xylene	mg/kg	4.0	5.0	81	70-130 %	T	
Sample Weight	-	9.3	N/A	N/A	N/A	N/A	
Toluene	mg/kg	4.0	5.0	80	70-130 %	T	
Total Xylenes	mg/kg	12	N/A	N/A	N/A	N/A	
4-Bromofluorobenzene - Surrogate	%	97			70-130 %	T	

Laboratory: EN_WATERS

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
942910 [Method Blank]							
4300 Anions in Soil by IC							
Bromide (Soluble)	mg/kg	<2			< 2	T	
Chloride (Soluble)	mg/kg	<2			< 2	T	
Fluoride (Soluble)	mg/kg	<2			< 2	T	
Nitrate (Soluble)	mg/kg	<2			< 2	T	
Nitrite (Soluble)	mg/kg	<2			< 2	T	
Orthophosphorus (Soluble)	mg/kg	<2			< 2	T	
Sulphate (Soluble)	mg/kg	<2			< 2	T	
943242 [Method Blank]							
4270 Total Cyanide in Soil Colourmetric							
Total Cyanide	mg/kg	<0.1			< 0.1	T	
943774 [Method Blank]							
4850 Total Phenolics in Soil by SFA							
Total Phenolics	mg/kg	<0.1			< 0.1	T	
942912 [Laboratory Control Sample]							
4300 Anions in Soil by IC			Expected Value	Percent Recovery			
Bromide (Soluble)	mg/kg	540	500.0	107	75-125 %	T	
Chloride (Soluble)	mg/kg	500	500.0	100	75-125 %	T	
Fluoride (Soluble)	mg/kg	420	500.0	85	75-125 %	T	
Nitrate (Soluble)	mg/kg	520	500.0	104	75-125 %	T	
Nitrite (Soluble)	mg/kg	560	500.0	113	75-125 %	T	
Orthophosphorus (Soluble)	mg/kg	480	500.0	95	75-125 %	T	
Sulphate (Soluble)	mg/kg	400	500.0	80	75-125 %	T	
943239 [Laboratory Control Sample]							
4270 Total Cyanide in Soil Colourmetric			Expected Value	Percent Recovery			
Total Cyanide	mg/kg	0.5	0.5	104	70-130 %	T	
943776 [Laboratory Control Sample]							
4850 Total Phenolics in Soil by SFA			Expected Value	Percent Recovery			
Total Phenolics	mg/kg	0.5	0.5	109	70-130 %	T	
943285 [Duplicate of 941380]							
4000 pH in Soil			Result 2	RPD			
pH	pH	7.4	7.1	0.3	0-0.5 pH	T	
943286 [Duplicate of 941387]							
4000 pH in Soil			Result 2	RPD			
pH	pH	7.2	7.2	0.0	0-0.5 pH	T	

Sample Integrity

Attempt to Chill was evident	Yes
Samples correctly preserved	Yes
Organic samples had Teflon liners	Yes
Samples received with Zero Headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Authorised By

Ruth Callander
Alex Petridis
Mark Herbstreit
Helen Lei
Khoa Pham

Client Services Officer
Senior Analyst - SVOC
Senior Analyst - Metals
Senior Analyst - Waters
Analyst - VOC

Accreditation Number: 1645
Accreditation Number: 1645
Accreditation Number: 1645
Accreditation Number: 1645

Laboratory Manager

Anthony Crane

Operations Manager

**Final Report**

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

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The samples were not collected by Amdel staff.



Certificate of Analysis

CONNELL WAGNER (SA) PTY LTD
55 Grenfell St
ADELAIDE SA 5000

Attention: April Freeman

Project 08ENME0008924
Client Reference 31495
Buckland park
Received Date 10/04/2008 09:00:00 AM

Customer Sample ID	TP60 0-0.1	QC17A	TP60 0.2-0.3	TP60 0.4-0.5	TP60 0.9-1.0
Amdel Sample Number	944304	944305	944306	944307	944308
Date Sampled	08/04/2008	08/04/2008	08/04/2008	08/04/2008	08/04/2008

VOC					
Test/Reference	PQL	Unit			
1100 BTEX &(C6-C9) in Soil by P&T					
Benzene	0.2	mg/kg	<0.2	-	-
Ethylbenzene	1	mg/kg	<1	-	-
Meta- & Para- Xylene	2	mg/kg	<2	-	-
Ortho-Xylene	1	mg/kg	<1	-	-
Toluene	1	mg/kg	<1	-	-
Total Xylenes	3	mg/kg	<3	-	-
C6-C9 Fraction	5	mg/kg	<5	-	-
4-Bromofluorobenzene - Surrogate	-	%	96	-	-

SVOC					
Test/Reference	PQL	Unit			
2300 OC Pesticides in Soil by GC-ECD					
a-BHC	0.5	mg/kg	<0.5	<0.5	-
a-Chlordane	0.5	mg/kg	<0.5	<0.5	-
a-Endosulfan	0.5	mg/kg	<0.5	<0.5	-
Aldrin	0.5	mg/kg	<0.5	<0.5	-
b-BHC	0.5	mg/kg	<0.5	<0.5	-
b-Endosulfan	0.5	mg/kg	<0.5	<0.5	-
d-BHC	0.5	mg/kg	<0.5	<0.5	-
DDD	0.5	mg/kg	<0.5	<0.5	-
DDE	0.5	mg/kg	<0.5	<0.5	-
DDT	0.5	mg/kg	<0.5	<0.5	-
Dieldrin	0.5	mg/kg	<0.5	<0.5	-
Endosulfan sulfate	0.5	mg/kg	<0.5	<0.5	-
Endrin	0.5	mg/kg	<0.5	<0.5	-
Endrin Aldehyde	0.5	mg/kg	<0.5	<0.5	-
g-BHC	0.5	mg/kg	<0.5	<0.5	-
g-Chlordane	0.5	mg/kg	<0.5	<0.5	-
Heptachlor	0.5	mg/kg	<0.5	<0.5	-
Heptachlor epoxide	0.5	mg/kg	<0.5	<0.5	-
Hexachlorobenzene (HCB)	0.5	mg/kg	<0.5	<0.5	-
Methoxychlor	0.5	mg/kg	<0.5	<0.5	-
Oxychlordane	0.5	mg/kg	<0.5	<0.5	-
2,4,5,6-tetrachloro-m-xylene-SURROG ATE	1	%	94	98	-

2100 PAH in Soil by GC					
Acenaphthene	0.5	mg/kg	<0.5	-	-
Acenaphthylene	0.5	mg/kg	<0.5	-	-

Customer Sample ID	TP60 0-0.1	QC17A	TP60 0.2-0.3	TP60 0.4-0.5	TP60 0.9-1.0
Amdel Sample Number	944304	944305	944306	944307	944308
Date Sampled	08/04/2008	08/04/2008	08/04/2008	08/04/2008	08/04/2008

SVOC						
Test/Reference	PQL	Unit				
Anthracene	0.5	mg/kg	<0.5	-	-	-
Benz(a)anthracene	0.5	mg/kg	<0.5	-	-	-
Benzo(a)pyrene	0.5	mg/kg	<0.5	-	-	-
Benzo(b)&(k)fluoranthene	1	mg/kg	<1	-	-	-
Benzo(g,h,i)perylene	0.5	mg/kg	<0.5	-	-	-
Chrysene	0.5	mg/kg	<0.5	-	-	-
Dibenz(ah)anthracene	0.5	mg/kg	<0.5	-	-	-
Fluoranthene	0.5	mg/kg	<0.5	-	-	-
Fluorene	0.5	mg/kg	<0.5	-	-	-
Indeno(123-cd)pyrene	0.5	mg/kg	<0.5	-	-	-
Naphthalene	0.5	mg/kg	<0.5	-	-	-
Phenanthrene	0.5	mg/kg	<0.5	-	-	-
Pyrene	0.5	mg/kg	<0.5	-	-	-
Sum of PAHs	0.5	mg/kg	<0.5	-	-	-
2-Fluorobiphenyl - Surrogate	-	%	86	-	-	-
p-Terphenyl-D14 - Surrogate	-	%	102	-	-	-
Anthracene-d10 - Surrogate	-	%	92	-	-	-

2000 TPH (C10 - C36) in Soil by GC						
C10-C14 Fraction	10	mg/kg	<10	-	-	-
C15-C28 Fraction	20	mg/kg	<20	-	-	-
C29-C36 Fraction	20	mg/kg	75	-	-	-

Metals						
Test/Reference	PQL	Unit				
3100 Total Metals in Soil By ICP/MS						
Arsenic	2	mg/kg	<2	<2	-	-
Cadmium	2	mg/kg	<2	<2	-	-
Chromium	2	mg/kg	29	31	-	-
Copper	2	mg/kg	16	16	-	-
Lead	2	mg/kg	12	13	-	-
Nickel	2	mg/kg	12	13	-	-
Zinc	2	mg/kg	22	24	-	-

Inorganics						
Test/Reference	PQL	Unit				
4000 pH in Soil						
pH	0.1	pH	8.0	-	-	-

Miscellaneous						
Test/Reference	PQL	Unit				
5000 Moisture Content						
% Moisture	1	%	5	5	-	-

Customer Sample ID	TP60 1.9-2.0	TP61 0-0.1	TP61 0.2-0.3	TP61 0.4-0.5	TP61 0.9-1.0
Amdel Sample Number	944309	944310	944311	944312	944313
Date Sampled	08/04/2008	08/04/2008	08/04/2008	08/04/2008	08/04/2008

VOC						
Test/Reference	PQL	Unit				
1100 BTEX &(C6-C9) in Soil by P&T						
Benzene	0.2	mg/kg	-	-	<0.2	-

Customer Sample ID	TP60 1.9-2.0	TP61 0-0.1	TP61 0.2-0.3	TP61 0.4-0.5	TP61 0.9-1.0
Amdel Sample Number	944309	944310	944311	944312	944313
Date Sampled	08/04/2008	08/04/2008	08/04/2008	08/04/2008	08/04/2008

VOC						
Test/Reference	PQL	Unit				
Ethylbenzene	1	mg/kg	-	-	<1	-
Meta- & Para- Xylene	2	mg/kg	-	-	<2	-
Ortho-Xylene	1	mg/kg	-	-	<1	-
Toluene	1	mg/kg	-	-	<1	-
Total Xylenes	3	mg/kg	-	-	<3	-
C6-C9 Fraction	5	mg/kg	-	-	<5	-
4-Bromofluorobenzene - Surrogate	-	%	-	-	94	-

SVOC						
Test/Reference	PQL	Unit				

2300 OC Pesticides in Soil by GC-ECD						
a-BHC	0.5	mg/kg	-	-	<0.5	-
a-Chlordane	0.5	mg/kg	-	-	<0.5	-
a-Endosulfan	0.5	mg/kg	-	-	<0.5	-
Aldrin	0.5	mg/kg	-	-	<0.5	-
b-BHC	0.5	mg/kg	-	-	<0.5	-
b-Endosulfan	0.5	mg/kg	-	-	<0.5	-
d-BHC	0.5	mg/kg	-	-	<0.5	-
DDD	0.5	mg/kg	-	-	<0.5	-
DDE	0.5	mg/kg	-	-	<0.5	-
DDT	0.5	mg/kg	-	-	<0.5	-
Dieldrin	0.5	mg/kg	-	-	<0.5	-
Endosulfan sulfate	0.5	mg/kg	-	-	<0.5	-
Endrin	0.5	mg/kg	-	-	<0.5	-
Endrin Aldehyde	0.5	mg/kg	-	-	<0.5	-
g-BHC	0.5	mg/kg	-	-	<0.5	-
g-Chlordane	0.5	mg/kg	-	-	<0.5	-
Heptachlor	0.5	mg/kg	-	-	<0.5	-
Heptachlor epoxide	0.5	mg/kg	-	-	<0.5	-
Hexachlorobenzene (HCB)	0.5	mg/kg	-	-	<0.5	-
Methoxychlor	0.5	mg/kg	-	-	<0.5	-
Oxychlordane	0.5	mg/kg	-	-	<0.5	-
2,4,5,6-tetrachloro-m-xylene-SURROG ATE	1	%	-	-	88	-

2100 PAH in Soil by GC						
Acenaphthene	0.5	mg/kg	-	-	<0.5	-
Acenaphthylene	0.5	mg/kg	-	-	<0.5	-
Anthracene	0.5	mg/kg	-	-	<0.5	-
Benz(a)anthracene	0.5	mg/kg	-	-	<0.5	-
Benzo(a)pyrene	0.5	mg/kg	-	-	<0.5	-
Benzo(b)&(k)fluoranthene	1	mg/kg	-	-	<1	-
Benzo(g,h,i)perylene	0.5	mg/kg	-	-	<0.5	-
Chrysene	0.5	mg/kg	-	-	<0.5	-
Dibenz(ah)anthracene	0.5	mg/kg	-	-	<0.5	-
Fluoranthene	0.5	mg/kg	-	-	<0.5	-
Fluorene	0.5	mg/kg	-	-	<0.5	-
Indeno(123-cd)pyrene	0.5	mg/kg	-	-	<0.5	-
Naphthalene	0.5	mg/kg	-	-	<0.5	-
Phenanthrene	0.5	mg/kg	-	-	<0.5	-
Pyrene	0.5	mg/kg	-	-	<0.5	-
Sum of PAHs	0.5	mg/kg	-	-	<0.5	-

Customer Sample ID	TP60 1.9-2.0	TP61 0-0.1	TP61 0.2-0.3	TP61 0.4-0.5	TP61 0.9-1.0
Amdel Sample Number	944309	944310	944311	944312	944313
Date Sampled	08/04/2008	08/04/2008	08/04/2008	08/04/2008	08/04/2008

SVOC						
Test/Reference	PQL	Unit				
2-Fluorobiphenyl - Surrogate	-	%	-	-	83	-
p-Terphenyl-D14 - Surrogate	-	%	-	-	99	-
Anthracene-d10 - Surrogate	-	%	-	-	92	-

2000 TPH (C10 - C36) in Soil by GC

C10-C14 Fraction	10	mg/kg	-	-	<10	-
C15-C28 Fraction	20	mg/kg	-	-	<20	-
C29-C36 Fraction	20	mg/kg	-	-	<20	-

Metals

Test/Reference	PQL	Unit				
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3100 Total Metals in Soil By ICP/MS

Arsenic	2	mg/kg	-	-	2.5	-
Cadmium	2	mg/kg	-	-	<2	-
Chromium	2	mg/kg	-	-	30	-
Copper	2	mg/kg	-	-	15	-
Lead	2	mg/kg	-	-	11	-
Nickel	2	mg/kg	-	-	13	-
Zinc	2	mg/kg	-	-	17	-

Inorganics

Test/Reference	PQL	Unit				
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4000 pH in Soil

pH	0.1	pH	-	-	9.3	-
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Miscellaneous

Test/Reference	PQL	Unit				
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5000 Moisture Content

% Moisture	1	%	-	-	13	-
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Customer Sample ID	TP61 1.9-2.0	TP62 0-0.1	TP62 0.2-0.3	TP62 0.4-0.5	TP62 0.9-1.0
Amdel Sample Number	944314	944315	944316	944317	944318
Date Sampled	08/04/2008	08/04/2008	08/04/2008	08/04/2008	08/04/2008

VOC						
Test/Reference	PQL	Unit				

1100 BTEX &(C6-C9) in Soil by P&T

Benzene	0.2	mg/kg	-	<0.2	-	-
Ethylbenzene	1	mg/kg	-	<1	-	-
Meta- & Para- Xylene	2	mg/kg	-	<2	-	-
Ortho-Xylene	1	mg/kg	-	<1	-	-
Toluene	1	mg/kg	-	<1	-	-
Total Xylenes	3	mg/kg	-	<3	-	-
C6-C9 Fraction	5	mg/kg	-	<5	-	-
4-Bromofluorobenzene - Surrogate	-	%	-	103	-	-

SVOC

Test/Reference	PQL	Unit				
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2300 OC Pesticides in Soil by GC-ECD

a-BHC	0.5	mg/kg	-	<0.5	-	-
a-Chlordane	0.5	mg/kg	-	<0.5	-	-
a-Endosulfan	0.5	mg/kg	-	<0.5	-	-

Customer Sample ID	TP61 1.9-2.0	TP62 0-0.1	TP62 0.2-0.3	TP62 0.4-0.5	TP62 0.9-1.0
Amdel Sample Number	944314	944315	944316	944317	944318
Date Sampled	08/04/2008	08/04/2008	08/04/2008	08/04/2008	08/04/2008

SVOC

Test/Reference	PQL	Unit					
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Aldrin	0.5	mg/kg	-	<0.5	-	-	-
b-BHC	0.5	mg/kg	-	<0.5	-	-	-
b-Endosulfan	0.5	mg/kg	-	<0.5	-	-	-
d-BHC	0.5	mg/kg	-	<0.5	-	-	-
DDD	0.5	mg/kg	-	<0.5	-	-	-
DDE	0.5	mg/kg	-	<0.5	-	-	-
DDT	0.5	mg/kg	-	<0.5	-	-	-
Dieldrin	0.5	mg/kg	-	<0.5	-	-	-
Endosulfan sulfate	0.5	mg/kg	-	<0.5	-	-	-
Endrin	0.5	mg/kg	-	<0.5	-	-	-
Endrin Aldehyde	0.5	mg/kg	-	<0.5	-	-	-
g-BHC	0.5	mg/kg	-	<0.5	-	-	-
g-Chlordane	0.5	mg/kg	-	<0.5	-	-	-
Heptachlor	0.5	mg/kg	-	<0.5	-	-	-
Heptachlor epoxide	0.5	mg/kg	-	<0.5	-	-	-
Hexachlorobenzene (HCB)	0.5	mg/kg	-	<0.5	-	-	-
Methoxychlor	0.5	mg/kg	-	<0.5	-	-	-
Oxychlordane	0.5	mg/kg	-	<0.5	-	-	-
2,4,5,6-tetrachloro-m-xylene-SURROG ATE	1	%	-	92	-	-	-

2100 PAH in Soil by GC

Acenaphthene	0.5	mg/kg	-	<0.5	-	-	-
Acenaphthylene	0.5	mg/kg	-	<0.5	-	-	-
Anthracene	0.5	mg/kg	-	<0.5	-	-	-
Benz(a)anthracene	0.5	mg/kg	-	<0.5	-	-	-
Benzo(a)pyrene	0.5	mg/kg	-	<0.5	-	-	-
Benzo(b)&(k)fluoranthene	1	mg/kg	-	<1	-	-	-
Benzo(g,h,i)perylene	0.5	mg/kg	-	<0.5	-	-	-
Chrysene	0.5	mg/kg	-	<0.5	-	-	-
Dibenz(ah)anthracene	0.5	mg/kg	-	<0.5	-	-	-
Fluoranthene	0.5	mg/kg	-	<0.5	-	-	-
Fluorene	0.5	mg/kg	-	<0.5	-	-	-
Indeno(123-cd)pyrene	0.5	mg/kg	-	<0.5	-	-	-
Naphthalene	0.5	mg/kg	-	<0.5	-	-	-
Phenanthrene	0.5	mg/kg	-	<0.5	-	-	-
Pyrene	0.5	mg/kg	-	<0.5	-	-	-
Sum of PAHs	0.5	mg/kg	-	<0.5	-	-	-
2-Fluorobiphenyl - Surrogate	-	%	-	83	-	-	-
p-Terphenyl-D14 - Surrogate	-	%	-	99	-	-	-
Anthracene-d10 - Surrogate	-	%	-	92	-	-	-

2000 TPH (C10 - C36) in Soil by GC

C10-C14 Fraction	10	mg/kg	-	<10	-	-	-
C15-C28 Fraction	20	mg/kg	-	<20	-	-	-
C29-C36 Fraction	20	mg/kg	-	44	-	-	-

Metals

Test/Reference	PQL	Unit					
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3100 Total Metals in Soil By ICP/MS

Arsenic	2	mg/kg	-	2.7	-	-	-
Cadmium	2	mg/kg	-	<2	-	-	-
Chromium	2	mg/kg	-	29	-	-	-

Customer Sample ID	TP61 1.9-2.0	TP62 0-0.1	TP62 0.2-0.3	TP62 0.4-0.5	TP62 0.9-1.0
Amdel Sample Number	944314	944315	944316	944317	944318
Date Sampled	08/04/2008	08/04/2008	08/04/2008	08/04/2008	08/04/2008

Metals

Test/Reference	PQL	Unit				
Copper	2	mg/kg	-	14	-	-
Lead	2	mg/kg	-	14	-	-
Nickel	2	mg/kg	-	11	-	-
Zinc	2	mg/kg	-	22	-	-

Inorganics

Test/Reference	PQL	Unit				
4000 pH in Soil						
pH	0.1	pH	-	7.5	-	-

Miscellaneous

Test/Reference	PQL	Unit				
5000 Moisture Content						
% Moisture	1	%	-	4	-	-

Customer Sample ID	TP62 1.9-2.0	TP63 0-0.1	TP63 0.2-0.3	TP63 0.4-0.5	QC19A
Amdel Sample Number	944319	944320	944321	944322	944323
Date Sampled	08/04/2008	08/04/2008	08/04/2008	08/04/2008	08/04/2008

VOC

Test/Reference	PQL	Unit				
1100 BTEX &(C6-C9) in Soil by P&T						
Benzene	0.2	mg/kg	-	-	<0.2	-
Ethylbenzene	1	mg/kg	-	-	<1	-
Meta- & Para- Xylene	2	mg/kg	-	-	<2	-
Ortho-Xylene	1	mg/kg	-	-	<1	-
Toluene	1	mg/kg	-	-	<1	-
Total Xylenes	3	mg/kg	-	-	<3	-
C6-C9 Fraction	5	mg/kg	-	-	<5	-
4-Bromofluorobenzene - Surrogate	-	%	-	-	94	-

SVOC

Test/Reference	PQL	Unit				
2300 OC Pesticides in Soil by GC-ECD						
a-BHC	0.5	mg/kg	-	-	<0.5	-
a-Chlordane	0.5	mg/kg	-	-	<0.5	-
a-Endosulfan	0.5	mg/kg	-	-	<0.5	-
Aldrin	0.5	mg/kg	-	-	<0.5	-
b-BHC	0.5	mg/kg	-	-	<0.5	-
b-Endosulfan	0.5	mg/kg	-	-	<0.5	-
d-BHC	0.5	mg/kg	-	-	<0.5	-
DDD	0.5	mg/kg	-	-	<0.5	-
DDE	0.5	mg/kg	-	-	<0.5	-
DDT	0.5	mg/kg	-	-	<0.5	-
Dieldrin	0.5	mg/kg	-	-	<0.5	-
Endosulfan sulfate	0.5	mg/kg	-	-	<0.5	-
Endrin	0.5	mg/kg	-	-	<0.5	-
Endrin Aldehyde	0.5	mg/kg	-	-	<0.5	-
g-BHC	0.5	mg/kg	-	-	<0.5	-
g-Chlordane	0.5	mg/kg	-	-	<0.5	-

Customer Sample ID	TP62 1.9-2.0	TP63 0-0.1	TP63 0.2-0.3	TP63 0.4-0.5	QC19A
Amdel Sample Number	944319	944320	944321	944322	944323
Date Sampled	08/04/2008	08/04/2008	08/04/2008	08/04/2008	08/04/2008
SVOC					
Test/Reference	PQL	Unit			
Heptachlor	0.5	mg/kg	-	-	<0.5
Heptachlor epoxide	0.5	mg/kg	-	-	<0.5
Hexachlorobenzene (HCB)	0.5	mg/kg	-	-	<0.5
Methoxychlor	0.5	mg/kg	-	-	<0.5
Oxychlorane	0.5	mg/kg	-	-	<0.5
2,4,5,6-tetrachloro-m-xylene-SURROG ATE	1	%	-	-	90
2100 PAH in Soil by GC					
Acenaphthene	0.5	mg/kg	-	-	<0.5
Acenaphthylene	0.5	mg/kg	-	-	<0.5
Anthracene	0.5	mg/kg	-	-	<0.5
Benz(a)anthracene	0.5	mg/kg	-	-	<0.5
Benzo(a)pyrene	0.5	mg/kg	-	-	<0.5
Benzo(b)&(k)fluoranthene	1	mg/kg	-	-	<1
Benzo(g,h,i)perylene	0.5	mg/kg	-	-	<0.5
Chrysene	0.5	mg/kg	-	-	<0.5
Dibenz(ah)anthracene	0.5	mg/kg	-	-	<0.5
Fluoranthene	0.5	mg/kg	-	-	<0.5
Fluorene	0.5	mg/kg	-	-	<0.5
Indeno(123-cd)pyrene	0.5	mg/kg	-	-	<0.5
Naphthalene	0.5	mg/kg	-	-	<0.5
Phenanthrene	0.5	mg/kg	-	-	<0.5
Pyrene	0.5	mg/kg	-	-	<0.5
Sum of PAHs	0.5	mg/kg	-	-	<0.5
2-Fluorobiphenyl - Surrogate	-	%	-	-	82
p-Terphenyl-D14 - Surrogate	-	%	-	-	97
Anthracene-d10 - Surrogate	-	%	-	-	90
2000 TPH (C10 - C36) in Soil by GC					
C10-C14 Fraction	10	mg/kg	-	-	<10
C15-C28 Fraction	20	mg/kg	-	-	<20
C29-C36 Fraction	20	mg/kg	-	-	<20
Metals					
Test/Reference	PQL	Unit			
3100 Total Metals in Soil By ICP/MS					
Arsenic	2	mg/kg	-	-	<2
Cadmium	2	mg/kg	-	-	<2
Chromium	2	mg/kg	-	-	15
Copper	2	mg/kg	-	-	6.2
Lead	2	mg/kg	-	-	5.8
Nickel	2	mg/kg	-	-	5.5
Zinc	2	mg/kg	-	-	8.7
Inorganics					
Test/Reference	PQL	Unit			
4000 pH in Soil					
pH	0.1	pH	-	-	7.5
Miscellaneous					
Test/Reference	PQL	Unit			
5000 Moisture Content					
% Moisture	1	%	-	-	4

Customer Sample ID	TP63 0.9-1.0	TP63 1.9-2.0	TP64 0-0.1	TP64 0.2-0.3	TP64 0.4-0.5
Amdel Sample Number	944324	944325	944326	944332	944333
Date Sampled	08/04/2008	08/04/2008	08/04/2008	08/04/2008	08/04/2008

VOC						
Test/Reference	PQL	Unit				
1100 BTEX &(C6-C9) in Soil by P&T						
Benzene	0.2	mg/kg	-	-	<0.2	-
Ethylbenzene	1	mg/kg	-	-	<1	-
Meta- & Para- Xylene	2	mg/kg	-	-	<2	-
Ortho-Xylene	1	mg/kg	-	-	<1	-
Toluene	1	mg/kg	-	-	<1	-
Total Xylenes	3	mg/kg	-	-	<3	-
C6-C9 Fraction	5	mg/kg	-	-	<5	-
4-Bromofluorobenzene - Surrogate	-	%	-	-	74	-

SVOC						
Test/Reference	PQL	Unit				
2300 OC Pesticides in Soil by GC-ECD						
a-BHC	0.5	mg/kg	-	-	<0.5	-
a-Chlordane	0.5	mg/kg	-	-	<0.5	-
a-Endosulfan	0.5	mg/kg	-	-	<0.5	-
Aldrin	0.5	mg/kg	-	-	<0.5	-
b-BHC	0.5	mg/kg	-	-	<0.5	-
b-Endosulfan	0.5	mg/kg	-	-	<0.5	-
d-BHC	0.5	mg/kg	-	-	<0.5	-
DDD	0.5	mg/kg	-	-	<0.5	-
DDE	0.5	mg/kg	-	-	<0.5	-
DDT	0.5	mg/kg	-	-	<0.5	-
Dieldrin	0.5	mg/kg	-	-	<0.5	-
Endosulfan sulfate	0.5	mg/kg	-	-	<0.5	-
Endrin	0.5	mg/kg	-	-	<0.5	-
Endrin Aldehyde	0.5	mg/kg	-	-	<0.5	-
g-BHC	0.5	mg/kg	-	-	<0.5	-
g-Chlordane	0.5	mg/kg	-	-	<0.5	-
Heptachlor	0.5	mg/kg	-	-	<0.5	-
Heptachlor epoxide	0.5	mg/kg	-	-	<0.5	-
Hexachlorobenzene (HCB)	0.5	mg/kg	-	-	<0.5	-
Methoxychlor	0.5	mg/kg	-	-	<0.5	-
Oxychlordane	0.5	mg/kg	-	-	<0.5	-
2,4,5,6-tetrachloro-m-xylene-SURROG ATE	1	%	-	-	92	-

2100 PAH in Soil by GC						
Acenaphthene	0.5	mg/kg	-	-	<0.5	-
Acenaphthylene	0.5	mg/kg	-	-	<0.5	-
Anthracene	0.5	mg/kg	-	-	<0.5	-
Benz(a)anthracene	0.5	mg/kg	-	-	<0.5	-
Benzo(a)pyrene	0.5	mg/kg	-	-	<0.5	-
Benzo(b)&(k)fluoranthene	1	mg/kg	-	-	<1	-
Benzo(g,h,i)perylene	0.5	mg/kg	-	-	<0.5	-
Chrysene	0.5	mg/kg	-	-	<0.5	-
Dibenz(ah)anthracene	0.5	mg/kg	-	-	<0.5	-
Fluoranthene	0.5	mg/kg	-	-	<0.5	-
Fluorene	0.5	mg/kg	-	-	<0.5	-
Indeno(123-cd)pyrene	0.5	mg/kg	-	-	<0.5	-

Customer Sample ID	TP63 0.9-1.0	TP63 1.9-2.0	TP64 0-0.1	TP64 0.2-0.3	TP64 0.4-0.5
Amdel Sample Number	944324	944325	944326	944332	944333
Date Sampled	08/04/2008	08/04/2008	08/04/2008	08/04/2008	08/04/2008
SVOC					
Test/Reference	PQL	Unit			
Naphthalene	0.5	mg/kg	-	-	<0.5
Phenanthrene	0.5	mg/kg	-	-	<0.5
Pyrene	0.5	mg/kg	-	-	<0.5
Sum of PAHs	0.5	mg/kg	-	-	<0.5
2-Fluorobiphenyl - Surrogate	-	%	-	-	84
p-Terphenyl-D14 - Surrogate	-	%	-	-	100
Anthracene-d10 - Surrogate	-	%	-	-	94
2000 TPH (C10 - C36) in Soil by GC					
C10-C14 Fraction	10	mg/kg	-	-	<10
C15-C28 Fraction	20	mg/kg	-	-	<20
C29-C36 Fraction	20	mg/kg	-	-	<20
Metals					
Test/Reference	PQL	Unit			
3100 Total Metals in Soil By ICP/MS					
Arsenic	2	mg/kg	-	-	3.2
Cadmium	2	mg/kg	-	-	<2
Chromium	2	mg/kg	-	-	49
Copper	2	mg/kg	-	-	23
Lead	2	mg/kg	-	-	9.3
Nickel	2	mg/kg	-	-	19
Zinc	2	mg/kg	-	-	32
Inorganics					
Test/Reference	PQL	Unit			
4000 pH in Soil					
pH	0.1	pH	-	-	8.4
Miscellaneous					
Test/Reference	PQL	Unit			
5000 Moisture Content					
% Moisture	1	%	-	-	17

Customer Sample ID	TP64 0.9-1.0	QC20A	TP64 1.9-2.0	TP65 0-0.1	TP65 0.2-0.3
Amdel Sample Number	944335	944337	944338	944339	944340
Date Sampled	08/04/2008	08/04/2008	08/04/2008	08/04/2008	08/04/2008
VOC					
Test/Reference	PQL	Unit			
1100 MAH(BTEX & C6-C9) in Soil P&T					
Benzene	0.2	mg/kg	-	-	<0.2
Cumene	0.5	mg/kg	-	-	<0.5
Ethylbenzene	1	mg/kg	-	-	<1
Meta- & Para- Xylene	2	mg/kg	-	-	<2
Ortho-Xylene	1	mg/kg	-	-	<1
Styrene	0.5	mg/kg	-	-	<0.5
Toluene	1	mg/kg	-	-	<1
Total Xylenes	3	mg/kg	-	-	<3
C6-C9 Fraction	5	mg/kg	-	-	<5
4-Bromofluorobenzene - Surrogate	-	%	-	-	91
SVOC					

Customer Sample ID	TP64 0.9-1.0	QC20A	TP64 1.9-2.0	TP65 0-0.1	TP65 0.2-0.3
Amdel Sample Number	944335	944337	944338	944339	944340
Date Sampled	08/04/2008	08/04/2008	08/04/2008	08/04/2008	08/04/2008
SVOC					
Test/Reference	PQL	Unit			
2300 OC Pesticides in Soil by GC-ECD					
a-BHC	0.5	mg/kg	-	-	<0.5
a-Chlordane	0.5	mg/kg	-	-	<0.5
a-Endosulfan	0.5	mg/kg	-	-	<0.5
Aldrin	0.5	mg/kg	-	-	<0.5
b-BHC	0.5	mg/kg	-	-	<0.5
b-Endosulfan	0.5	mg/kg	-	-	<0.5
d-BHC	0.5	mg/kg	-	-	<0.5
DDD	0.5	mg/kg	-	-	<0.5
DDE	0.5	mg/kg	-	-	<0.5
DDT	0.5	mg/kg	-	-	<0.5
Dieldrin	0.5	mg/kg	-	-	<0.5
Endosulfan sulfate	0.5	mg/kg	-	-	<0.5
Endrin	0.5	mg/kg	-	-	<0.5
Endrin Aldehyde	0.5	mg/kg	-	-	<0.5
g-BHC	0.5	mg/kg	-	-	<0.5
g-Chlordane	0.5	mg/kg	-	-	<0.5
Heptachlor	0.5	mg/kg	-	-	<0.5
Heptachlor epoxide	0.5	mg/kg	-	-	<0.5
Hexachlorobenzene (HCB)	0.5	mg/kg	-	-	<0.5
Methoxychlor	0.5	mg/kg	-	-	<0.5
Oxychlordane	0.5	mg/kg	-	-	<0.5
2,4,5,6-tetrachloro-m-xylene-SURROG ATE	1	%	-	-	88
2100 PAH in Soil by GC					
Acenaphthene	0.5	mg/kg	-	-	<0.5
Acenaphthylene	0.5	mg/kg	-	-	<0.5
Anthracene	0.5	mg/kg	-	-	<0.5
Benz(a)anthracene	0.5	mg/kg	-	-	<0.5
Benzo(a)pyrene	0.5	mg/kg	-	-	<0.5
Benzo(b)&(k)fluoranthene	1	mg/kg	-	-	<1
Benzo(g,h,i)perylene	0.5	mg/kg	-	-	<0.5
Chrysene	0.5	mg/kg	-	-	<0.5
Dibenz(ah)anthracene	0.5	mg/kg	-	-	<0.5
Fluoranthene	0.5	mg/kg	-	-	<0.5
Fluorene	0.5	mg/kg	-	-	<0.5
Indeno(123-cd)pyrene	0.5	mg/kg	-	-	<0.5
Naphthalene	0.5	mg/kg	-	-	<0.5
Phenanthrene	0.5	mg/kg	-	-	<0.5
Pyrene	0.5	mg/kg	-	-	<0.5
Sum of PAHs	0.5	mg/kg	-	-	<0.5
2-Fluorobiphenyl - Surrogate	-	%	-	-	84
p-Terphenyl-D14 - Surrogate	-	%	-	-	96
Anthracene-d10 - Surrogate	-	%	-	-	90
2600 PCBs in Soil by GC					
Aroclor 1016DB	0.5	mg/kg	-	-	<0.5
Aroclor 1221DB	0.5	mg/kg	-	-	<0.5
Aroclor 1232 and 1242 as totalDB	1	mg/kg	-	-	<1
Aroclor 1248 and 1254 as totalDB	1	mg/kg	-	-	<1
Aroclor 1260DB	0.5	mg/kg	-	-	<0.5

Customer Sample ID	TP64 0.9-1.0	QC20A	TP64 1.9-2.0	TP65 0-0.1	TP65 0.2-0.3
Amdel Sample Number	944335	944337	944338	944339	944340
Date Sampled	08/04/2008	08/04/2008	08/04/2008	08/04/2008	08/04/2008

SVOC

Test/Reference	PQL	Unit					
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Total Polychlorinated biphenylsDB	1	mg/kg	-	-	-	<1	-
Decachlorobiphenyl - PCB surrogate	1	%	-	-	-	80	-
2000 TPH (C10 - C36) in Soil by GC							
C10-C14 Fraction	10	mg/kg	-	-	-	<10	-
C15-C28 Fraction	20	mg/kg	-	-	-	<20	-
C29-C36 Fraction	20	mg/kg	-	-	-	22	-

Metals

Test/Reference	PQL	Unit					
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3400 Mercury in Soil by FIMS

Mercury	0.01	mg/kg	-	-	-	0.01	-
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3100 Total Metals in Soil By ICP/MS

Antimony	2	mg/kg	-	-	-	<2	-
Arsenic	2	mg/kg	-	-	-	2.2	-
Barium	2	mg/kg	-	-	-	67	-
Beryllium	2	mg/kg	-	-	-	<2	-
Boron	2	mg/kg	-	-	-	21	-
Cadmium	2	mg/kg	-	-	-	<2	-
Chromium	2	mg/kg	-	-	-	31	-
Cobalt	2	mg/kg	-	-	-	9.7	-
Copper	2	mg/kg	-	-	-	17	-
Lead	2	mg/kg	-	-	-	12	-
Manganese	2	mg/kg	-	-	-	380	-
Molybdenum	2	mg/kg	-	-	-	<2	-
Nickel	2	mg/kg	-	-	-	13	-
Selenium	2	mg/kg	-	-	-	<2	-
Tin	2	mg/kg	-	-	-	<2	-
Vanadium	2	mg/kg	-	-	-	44	-
Zinc	2	mg/kg	-	-	-	23	-

Inorganics

Test/Reference	PQL	Unit					
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4300 Anions in Soil by IC

Fluoride (Soluble)	2	mg/kg	-	-	-	<2	-
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4270 Total Cyanide in Soil Colourmetric

Total Cyanide	0.1	mg/kg	-	-	-	0.5	-
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4000 pH in Soil

pH	0.1	pH	-	-	-	7.4	-
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4850 Total Phenolics in Soil by SFA

Total Phenolics	0.1	mg/kg	-	-	-	0.1	-
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Miscellaneous

Test/Reference	PQL	Unit					
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5000 Moisture Content

% Moisture	1	%	-	-	-	3	-
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Customer Sample ID	TP65 0.4-0.5	TP65 0.9-1.0	TP65 1.9-2.0	TP66 0-0.1	QC21A
Amdel Sample Number	944341	944342	944343	944344	944345
Date Sampled	08/04/2008	08/04/2008	08/04/2008	08/04/2008	08/04/2008

VOC

Test/Reference	PQL	Unit					
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Customer Sample ID	TP65 0.4-0.5	TP65 0.9-1.0	TP65 1.9-2.0	TP66 0-0.1	QC21A
Amdel Sample Number	944341	944342	944343	944344	944345
Date Sampled	08/04/2008	08/04/2008	08/04/2008	08/04/2008	08/04/2008

VOC	PQL	Unit					
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1100 BTEX & (C6-C9) in Soil by P&T

Benzene	0.2	mg/kg	-	-	-	<0.2	-
Ethylbenzene	1	mg/kg	-	-	-	<1	-
Meta- & Para- Xylene	2	mg/kg	-	-	-	<2	-
Ortho-Xylene	1	mg/kg	-	-	-	<1	-
Toluene	1	mg/kg	-	-	-	<1	-
Total Xylenes	3	mg/kg	-	-	-	<3	-
C6-C9 Fraction	5	mg/kg	-	-	-	<5	-
4-Bromofluorobenzene - Surrogate	-	%	-	-	-	98	-

SVOC

Test/Reference	PQL	Unit					
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2300 OC Pesticides in Soil by GC-ECD

a-BHC	0.5	mg/kg	-	-	-	<0.5	-
a-Chlordane	0.5	mg/kg	-	-	-	<0.5	-
a-Endosulfan	0.5	mg/kg	-	-	-	<0.5	-
Aldrin	0.5	mg/kg	-	-	-	<0.5	-
b-BHC	0.5	mg/kg	-	-	-	<0.5	-
b-Endosulfan	0.5	mg/kg	-	-	-	<0.5	-
d-BHC	0.5	mg/kg	-	-	-	<0.5	-
DDD	0.5	mg/kg	-	-	-	<0.5	-
DDE	0.5	mg/kg	-	-	-	<0.5	-
DDT	0.5	mg/kg	-	-	-	<0.5	-
Dieldrin	0.5	mg/kg	-	-	-	<0.5	-
Endosulfan sulfate	0.5	mg/kg	-	-	-	<0.5	-
Endrin	0.5	mg/kg	-	-	-	<0.5	-
Endrin Aldehyde	0.5	mg/kg	-	-	-	<0.5	-
g-BHC	0.5	mg/kg	-	-	-	<0.5	-
g-Chlordane	0.5	mg/kg	-	-	-	<0.5	-
Heptachlor	0.5	mg/kg	-	-	-	<0.5	-
Heptachlor epoxide	0.5	mg/kg	-	-	-	<0.5	-
Hexachlorobenzene (HCB)	0.5	mg/kg	-	-	-	<0.5	-
Methoxychlor	0.5	mg/kg	-	-	-	<0.5	-
Oxychlordane	0.5	mg/kg	-	-	-	<0.5	-
2,4,5,6-tetrachloro-m-xylene-SURROG ATE	1	%	-	-	-	94	-

2100 PAH in Soil by GC

Acenaphthene	0.5	mg/kg	-	-	-	<0.5	-
Acenaphthylene	0.5	mg/kg	-	-	-	<0.5	-
Anthracene	0.5	mg/kg	-	-	-	<0.5	-
Benz(a)anthracene	0.5	mg/kg	-	-	-	<0.5	-
Benzo(a)pyrene	0.5	mg/kg	-	-	-	<0.5	-
Benzo(b)&(k)fluoranthene	1	mg/kg	-	-	-	<1	-
Benzo(g,h,i)perylene	0.5	mg/kg	-	-	-	<0.5	-
Chrysene	0.5	mg/kg	-	-	-	<0.5	-
Dibenz(ah)anthracene	0.5	mg/kg	-	-	-	<0.5	-
Fluoranthene	0.5	mg/kg	-	-	-	<0.5	-
Fluorene	0.5	mg/kg	-	-	-	<0.5	-
Indeno(123-cd)pyrene	0.5	mg/kg	-	-	-	<0.5	-
Naphthalene	0.5	mg/kg	-	-	-	<0.5	-
Phenanthrene	0.5	mg/kg	-	-	-	<0.5	-

Customer Sample ID	TP65 0.4-0.5	TP65 0.9-1.0	TP65 1.9-2.0	TP66 0-0.1	QC21A
Amdel Sample Number	944341	944342	944343	944344	944345
Date Sampled	08/04/2008	08/04/2008	08/04/2008	08/04/2008	08/04/2008

SVOC

Test/Reference	PQL	Unit					
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Pyrene	0.5	mg/kg	-	-	-	<0.5	-
Sum of PAHs	0.5	mg/kg	-	-	-	<0.5	-
2-Fluorobiphenyl - Surrogate	-	%	-	-	-	88	-
p-Terphenyl-D14 - Surrogate	-	%	-	-	-	104	-
Anthracene-d10 - Surrogate	-	%	-	-	-	97	-

2000 TPH (C10 - C36) in Soil by GC

C10-C14 Fraction	10	mg/kg	-	-	-	<10	-
C15-C28 Fraction	20	mg/kg	-	-	-	<20	-
C29-C36 Fraction	20	mg/kg	-	-	-	<20	-

Metals

Test/Reference	PQL	Unit					
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3100 Total Metals in Soil By ICP/MS

Arsenic	2	mg/kg	-	-	-	2.2	-
Cadmium	2	mg/kg	-	-	-	<2	-
Chromium	2	mg/kg	-	-	-	36	-
Copper	2	mg/kg	-	-	-	20	-
Lead	2	mg/kg	-	-	-	12	-
Nickel	2	mg/kg	-	-	-	15	-
Zinc	2	mg/kg	-	-	-	20	-

Inorganics

Test/Reference	PQL	Unit					
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4000 pH in Soil

pH	0.1	pH	-	-	-	7.1	-
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Miscellaneous

Test/Reference	PQL	Unit					
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5000 Moisture Content

% Moisture	1	%	-	-	-	3	-
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Customer Sample ID	TP67 0.2-0.3	TP67 0.4-0.5	TP67 0.9-1.0	TP67 1.9-2.0	TP68 0-0.1
Amdel Sample Number	944351	944352	944353	944354	944355
Date Sampled	08/04/2008	08/04/2008	08/04/2008	08/04/2008	08/04/2008

VOC

Test/Reference	PQL	Unit					
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1100 BTEX &(C6-C9) in Soil by P&T

Benzene	0.2	mg/kg	<0.2	-	-	-	-
Ethylbenzene	1	mg/kg	<1	-	-	-	-
Meta- & Para- Xylene	2	mg/kg	<2	-	-	-	-
Ortho-Xylene	1	mg/kg	<1	-	-	-	-
Toluene	1	mg/kg	<1	-	-	-	-
Total Xylenes	3	mg/kg	<3	-	-	-	-
C6-C9 Fraction	5	mg/kg	<5	-	-	-	-
4-Bromofluorobenzene - Surrogate	-	%	86	-	-	-	-

1100 MAH(BTEX & C6-C9) in Soil P&T

Benzene	0.2	mg/kg	-	-	-	-	<0.2
Cumene	0.5	mg/kg	-	-	-	-	<0.5
Ethylbenzene	1	mg/kg	-	-	-	-	<1
Meta- & Para- Xylene	2	mg/kg	-	-	-	-	<2

Customer Sample ID	TP67 0.2-0.3	TP67 0.4-0.5	TP67 0.9-1.0	TP67 1.9-2.0	TP68 0-0.1
Amdel Sample Number	944351	944352	944353	944354	944355
Date Sampled	08/04/2008	08/04/2008	08/04/2008	08/04/2008	08/04/2008
VOC					
Test/Reference	PQL	Unit			
Ortho-Xylene	1	mg/kg	-	-	<1
Styrene	0.5	mg/kg	-	-	<0.5
Toluene	1	mg/kg	-	-	<1
Total Xylenes	3	mg/kg	-	-	<3
C6-C9 Fraction	5	mg/kg	-	-	<5
4-Bromofluorobenzene - Surrogate	-	%	-	-	107
SVOC					
Test/Reference	PQL	Unit			
2300 OC Pesticides in Soil by GC-ECD					
a-BHC	0.5	mg/kg	<0.5	-	<0.5
a-Chlordane	0.5	mg/kg	<0.5	-	<0.5
a-Endosulfan	0.5	mg/kg	<0.5	-	<0.5
Aldrin	0.5	mg/kg	<0.5	-	<0.5
b-BHC	0.5	mg/kg	<0.5	-	<0.5
b-Endosulfan	0.5	mg/kg	<0.5	-	<0.5
d-BHC	0.5	mg/kg	<0.5	-	<0.5
DDD	0.5	mg/kg	<0.5	-	<0.5
DDE	0.5	mg/kg	<0.5	-	<0.5
DDT	0.5	mg/kg	<0.5	-	<0.5
Dieldrin	0.5	mg/kg	<0.5	-	<0.5
Endosulfan sulfate	0.5	mg/kg	<0.5	-	<0.5
Endrin	0.5	mg/kg	<0.5	-	<0.5
Endrin Aldehyde	0.5	mg/kg	<0.5	-	<0.5
g-BHC	0.5	mg/kg	<0.5	-	<0.5
g-Chlordane	0.5	mg/kg	<0.5	-	<0.5
Heptachlor	0.5	mg/kg	<0.5	-	<0.5
Heptachlor epoxide	0.5	mg/kg	<0.5	-	<0.5
Hexachlorobenzene (HCB)	0.5	mg/kg	<0.5	-	<0.5
Methoxychlor	0.5	mg/kg	<0.5	-	<0.5
Oxychlorane	0.5	mg/kg	<0.5	-	<0.5
2,4,5,6-tetrachloro-m-xylene-SURROG ATE	1	%	88	-	90
2100 PAH in Soil by GC					
Acenaphthene	0.5	mg/kg	<0.5	-	<0.5
Acenaphthylene	0.5	mg/kg	<0.5	-	<0.5
Anthracene	0.5	mg/kg	<0.5	-	<0.5
Benz(a)anthracene	0.5	mg/kg	<0.5	-	<0.5
Benzo(a)pyrene	0.5	mg/kg	<0.5	-	<0.5
Benzo(b)&(k)fluoranthene	1	mg/kg	<1	-	<1
Benzo(g,h,i)perylene	0.5	mg/kg	<0.5	-	<0.5
Chrysene	0.5	mg/kg	<0.5	-	<0.5
Dibenz(ah)anthracene	0.5	mg/kg	<0.5	-	<0.5
Fluoranthene	0.5	mg/kg	<0.5	-	<0.5
Fluorene	0.5	mg/kg	<0.5	-	<0.5
Indeno(123-cd)pyrene	0.5	mg/kg	<0.5	-	<0.5
Naphthalene	0.5	mg/kg	<0.5	-	<0.5
Phenanthrene	0.5	mg/kg	<0.5	-	<0.5
Pyrene	0.5	mg/kg	<0.5	-	<0.5
Sum of PAHs	0.5	mg/kg	<0.5	-	<0.5
2-Fluorobiphenyl - Surrogate	-	%	82	-	88

Customer Sample ID	TP67 0.2-0.3	TP67 0.4-0.5	TP67 0.9-1.0	TP67 1.9-2.0	TP68 0-0.1
Amdel Sample Number	944351	944352	944353	944354	944355
Date Sampled	08/04/2008	08/04/2008	08/04/2008	08/04/2008	08/04/2008
SVOC					
Test/Reference	PQL	Unit			
p-Terphenyl-D14 - Surrogate	-	%	94	-	100
Anthracene-d10 - Surrogate	-	%	89	-	92
2600 PCBs in Soil by GC					
Aroclor 1016DB	0.5	mg/kg	-	-	<0.5
Aroclor 1221DB	0.5	mg/kg	-	-	<0.5
Aroclor 1232 and 1242 as totalDB	1	mg/kg	-	-	<1
Aroclor 1248 and 1254 as totalDB	1	mg/kg	-	-	<1
Aroclor 1260DB	0.5	mg/kg	-	-	<0.5
Total Polychlorinated biphenylsDB	1	mg/kg	-	-	<1
Decachlorobiphenyl - PCB surrogate	1	%	-	-	86
2000 TPH (C10 - C36) in Soil by GC					
C10-C14 Fraction	10	mg/kg	<10	-	<10
C15-C28 Fraction	20	mg/kg	<20	-	<20
C29-C36 Fraction	20	mg/kg	<20	-	<20
Metals					
Test/Reference	PQL	Unit			
3400 Mercury in Soil by FIMS					
Mercury	0.01	mg/kg	-	-	<0.01
3100 Total Metals in Soil By ICP/MS					
Antimony	2	mg/kg	-	-	<2
Arsenic	2	mg/kg	<2	-	<2
Barium	2	mg/kg	-	-	11
Beryllium	2	mg/kg	-	-	<2
Boron	2	mg/kg	-	-	5.7
Cadmium	2	mg/kg	<2	-	<2
Chromium	2	mg/kg	32	-	8.9
Cobalt	2	mg/kg	-	-	<2
Copper	2	mg/kg	19	-	5.1
Lead	2	mg/kg	9.3	-	2.5
Manganese	2	mg/kg	-	-	37
Molybdenum	2	mg/kg	-	-	<2
Nickel	2	mg/kg	17	-	2.9
Selenium	2	mg/kg	-	-	<2
Tin	2	mg/kg	-	-	<2
Vanadium	2	mg/kg	-	-	11
Zinc	2	mg/kg	19	-	4.6
Inorganics					
Test/Reference	PQL	Unit			
4300 Anions in Soil by IC					
Fluoride (Soluble)	2	mg/kg	-	-	6
4270 Total Cyanide in Soil Colourmetric					
Total Cyanide	0.1	mg/kg	-	-	0.1
4000 pH in Soil					
pH	0.1	pH	8.6	-	8.3
4850 Total Phenolics in Soil by SFA					
Total Phenolics	0.1	mg/kg	-	-	<0.1
Miscellaneous					
Test/Reference	PQL	Unit			
5000 Moisture Content					

Customer Sample ID	TP67 0.2-0.3	TP67 0.4-0.5	TP67 0.9-1.0	TP67 1.9-2.0	TP68 0-0.1
Amdel Sample Number	944351	944352	944353	944354	944355
Date Sampled	08/04/2008	08/04/2008	08/04/2008	08/04/2008	08/04/2008
Miscellaneous					
Test/Reference	PQL	Unit			
% Moisture	1	%	6	-	-

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.

Description	Extracted	Analysed
1100 BTEX &(C6-C9) in Soil by P&T	11/04/2008	17/04/2008
1100 MAH(BTEX & C6-C9) in Soil P&T	11/04/2008	17/04/2008
2000 TPH (C10 - C36) in Soil by GC	11/04/2008	14/04/2008
2100 PAH in Soil by GC	11/04/2008	15/04/2008
2300 OC Pesticides in Soil by GC-ECD	11/04/2008	15/04/2008
2600 PCBs in Soil by GC	11/04/2008	15/04/2008
3100 Total Metals in Soil By ICP/MS	17/04/2008	18/04/2008
3400 Mercury in Soil by FIMS	17/04/2008	18/04/2008
4000 pH in Soil		14/04/2008
4270 Total Cyanide in Soil Colourmetric		16/04/2008
4300 Anions in Soil by IC	11/04/2008	14/04/2008
4850 Total Phenolics in Soil by SFA		16/04/2008
5000 Moisture Content		11/04/2008

Amdel Internal Quality Control Review

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. Amdel QC Acceptance/Rejection criteria are available on request.
3. Proficiency trial results are available on request.
4. Actual PQLs are matrix dependant. Quotes PQLs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spike or surrogate recoveries.
6. Test samples duplicated or spiked, are for this job only and are identified in the following QC report.
7. SVOC analyses on waters are performed on homogenized, unfiltered sample, unless noted otherwise.
8. When individual results are qualified in the body of a report, refer to the qualifier descriptions that follow.

Holding Times

Please refer to 'Sampling and Preservation Chart for Soils & Waters' for holding times. (Form LM-FOR-ADM-020)

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgement.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitability qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT an RPD

Quality Control Results

Laboratory: **EN_METALS**

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
955180 [Method Blank]							
3400 Mercury in Soil by FIMS							
Mercury	mg/kg	<0.01			< 0.01	T	
955426 [Method Blank]							
3100 Metals in Soil - As Received							
Antimony	mg/kg	<2			< 2	T	
Arsenic	mg/kg	<2			< 2	T	
Barium	mg/kg	<2			< 2	T	
Beryllium	mg/kg	<2			< 2	T	
Cadmium	mg/kg	<2			< 2	T	
Chromium	mg/kg	<2			< 2	T	
Cobalt	mg/kg	<2			< 2	T	
Copper	mg/kg	<2			< 2	T	
Lead	mg/kg	<2			< 2	T	
Manganese	mg/kg	<2			< 2	T	
Molybdenum	mg/kg	<2			< 2	T	
Nickel	mg/kg	<2			< 2	T	
Selenium	mg/kg	<2			< 2	T	
Tin	mg/kg	<2			< 2	T	
Vanadium	mg/kg	<2			< 2	T	
Zinc	mg/kg	<2			< 2	T	
955181 [Laboratory Control Sample]							
3400 Mercury in Soil by FIMS							
Mercury	mg/kg	9.3	Expected Value	Percent Recovery	80-120 %	T	
			10.0	93			

Laboratory: EN_METALS

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
955427 [Laboratory Control Sample]							
3100 Metals in Soil - As Received			Expected Value	Percent Recovery			
Antimony	mg/kg	97	100.0	97	70-130 %	T	
Arsenic	mg/kg	98	100.0	98	70-130 %	T	
Barium	mg/kg	100	100.0	102	70-130 %	T	
Beryllium	mg/kg	90	100.0	90	70-130 %	T	
Boron	mg/kg	89	100.0	89	70-130 %	T	
Cadmium	mg/kg	100	100.0	100	70-130 %	T	
Chromium	mg/kg	100	100.0	105	70-130 %	T	
Cobalt	mg/kg	110	100.0	108	70-130 %	T	
Copper	mg/kg	110	100.0	112	70-130 %	T	
Lead	mg/kg	92	100.0	92	70-130 %	T	
Manganese	mg/kg	110	100.0	105	70-130 %	T	
Molybdenum	mg/kg	120	100.0	116	70-130 %	T	
Selenium	mg/kg	93	100.0	93	70-130 %	T	
Tin	mg/kg	110	100.0	108	70-130 %	T	
Vanadium	mg/kg	100	100.0	103	70-130 %	T	
Zinc	mg/kg	98	100.0	98	70-130 %	T	
944534 [Duplicate of 944304]							
3100 Total Metals in Soil By ICP/MS			Result 2	RPD			
Arsenic	mg/kg	<2	<2	<1	0-30 %	T	
Cadmium	mg/kg	<2	<2	<1	0-30 %	T	
Chromium	mg/kg	28	29	7	0-30 %	T	
Copper	mg/kg	15	16	9	0-30 %	T	
Lead	mg/kg	11	12	14	0-30 %	T	
Nickel	mg/kg	12	12	5	0-30 %	T	
Zinc	mg/kg	21	22	5	0-30 %	T	
944540 [Spike of 944311]							
3100 Total Metals in Soil By ICP/MS			Spike Value	Percent Recovery			
Arsenic	mg/kg	110	100.0	103	70-130 %	T	
Cadmium	mg/kg	100	100.0	105	70-130 %	T	
Chromium	mg/kg	130	100.0	107	70-130 %	T	
Copper	mg/kg	130	100.0	113	70-130 %	T	
Lead	mg/kg	110	100.0	100	70-130 %	T	
Nickel	mg/kg	130	100.0	120	70-130 %	T	
Zinc	mg/kg	110	100.0	95	70-130 %	T	

Laboratory: EN_SVOC

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
944998 [Method Blank]							
2000 TPH (C10 - C36) in Soil by GC							
C10-C14 Fraction	mg/kg	<10			< 10	T	
C15-C28 Fraction	mg/kg	<20			< 20	T	
C29-C36 Fraction	mg/kg	<20			< 20	T	

Laboratory: EN_SVOC

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
945000 [Method Blank]							
2100 PAH in Soil by GC							
Acenaphthene	mg/kg	<0.5			< 0.5	T	
Acenaphthylene	mg/kg	<0.5			< 0.5	T	
Anthracene	mg/kg	<0.5			< 0.5	T	
Benz(a)anthracene	mg/kg	<0.5			< 0.5	T	
Benzo(a)pyrene	mg/kg	<0.5			< 0.5	T	
Benzo(b)&(k)fluoranthene	mg/kg	<1			< 1	T	
Benzo(g,h,i)perylene	mg/kg	<0.5			< 0.5	T	
Chrysene	mg/kg	<0.5			< 0.5	T	
Dibenz(ah)anthracene	mg/kg	<0.5			< 0.5	T	
Fluoranthene	mg/kg	<0.5			< 0.5	T	
Fluorene	mg/kg	<0.5			< 0.5	T	
Indeno(123-cd)pyrene	mg/kg	<0.5			< 0.5	T	
Naphthalene	mg/kg	<0.5			< 0.5	T	
Phenanthrene	mg/kg	<0.5			< 0.5	T	
Pyrene	mg/kg	<0.5			< 0.5	T	
Sum of PAHs	mg/kg	<0.5			< 0.5	T	
2-Fluorobiphenyl - Surrogate	%	100			70-130 %	T	
Anthracene-d10 - Surrogate	%	106			70-130 %	T	
p-Terphenyl-D14 - Surrogate	%	110			70-130 %	T	
2300 OC Pesticides in Soil by GC-ECD							
a-BHC	mg/kg	<0.5			< 0.5	T	
a-Chlordane	mg/kg	<0.5			< 0.5	T	
a-Endosulfan	mg/kg	<0.5			< 0.5	T	
Aldrin	mg/kg	<0.5			< 0.5	T	
b-BHC	mg/kg	<0.5			< 0.5	T	
b-Endosulfan	mg/kg	<0.5			< 0.5	T	
d-BHC	mg/kg	<0.5			< 0.5	T	
DDD	mg/kg	<0.5			< 0.5	T	
DDE	mg/kg	<0.5			< 0.5	T	
DDT	mg/kg	<0.5			< 0.5	T	
Dieldrin	mg/kg	<0.5			< 0.5	T	
Endosulfan sulfate	mg/kg	<0.5			< 0.5	T	
Endrin	mg/kg	<0.5			< 0.5	T	
Endrin Aldehyde	mg/kg	<0.5			< 0.5	T	
g-BHC	mg/kg	<0.5			< 0.5	T	
g-Chlordane	mg/kg	<0.5			< 0.5	T	
Heptachlor	mg/kg	<0.5			< 0.5	T	
Heptachlor epoxide	mg/kg	<0.5			< 0.5	T	
Hexachlorobenzene (HCB)	mg/kg	<0.5			< 0.5	T	
Methoxychlor	mg/kg	<0.5			< 0.5	T	
Oxychlordane	mg/kg	<0.5			< 0.5	T	
2,4,5,6-tetrachloro-m-xylene-SURROGATE	%	102			70-130 %	T	
2600 PCBs in Soil by GC							
Aroclor 1016	mg/kg	<0.5			< 0.5	T	
Aroclor 1221	mg/kg	<0.5			< 0.5	T	
Aroclor 1232 and 1242 as total	mg/kg	<1			< 1	T	
Aroclor 1248 and 1254 as total	mg/kg	<1			< 1	T	
Aroclor 1260	mg/kg	<0.5			< 0.5	T	
Total Polychlorinated biphenyls	mg/kg	<1			< 1	T	
Decachlorobiphenyl - PCB surrogate	%	94			70-130 %	T	
944999 [Laboratory Control Sample]							
2000 TPH (C10 - C36) in Soil by GC							
			Expected Value	Percent Recovery			
C10-C14 Fraction	mg/kg	110	125.0	87	70-130 %	T	
C15-C28 Fraction	mg/kg	110	125.0	89	70-130 %	T	
C29-C36 Fraction	mg/kg	110	125.0	90	70-130 %	T	

Laboratory: EN_SVOC

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
944535 [Duplicate of 944304]							
2300 OC Pesticides in Soil by GC-ECD			Result 2	RPD			
a-BHC	mg/kg	<0.5	<0.5	<1	0-30 %	T	
a-Chlordane	mg/kg	<0.5	<0.5	<1	0-30 %	T	
a-Endosulfan	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Aldrin	mg/kg	<0.5	<0.5	<1	0-30 %	T	
b-BHC	mg/kg	<0.5	<0.5	<1	0-30 %	T	
b-Endosulfan	mg/kg	<0.5	<0.5	<1	0-30 %	T	
d-BHC	mg/kg	<0.5	<0.5	<1	0-30 %	T	
DDD	mg/kg	<0.5	<0.5	<1	0-30 %	T	
DDE	mg/kg	<0.5	<0.5	<1	0-30 %	T	
DDT	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Dieldrin	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Endosulfan sulfate	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Endrin	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Endrin Aldehyde	mg/kg	<0.5	<0.5	<1	0-30 %	T	
g-BHC	mg/kg	<0.5	<0.5	<1	0-30 %	T	
g-Chlordane	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Heptachlor	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Heptachlor epoxide	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Hexachlorobenzene (HCB)	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Methoxychlor	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Oxychlordane	mg/kg	<0.5	<0.5	<1	0-30 %	T	
2,4,5,6-tetrachloro-m-xylene-SURROGATE	%	92			70-130 %	T	
944536 [Duplicate of 944304]							
2100 PAH in Soil by GC			Result 2	RPD			
Acenaphthene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Acenaphthylene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Anthracene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Benz(a)anthracene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Benzo(a)pyrene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Benzo(b)&(k)fluoranthene	mg/kg	<1	<1	<1	0-30 %	T	
Benzo(g,h,i)perylene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Chrysene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Dibenz(ah)anthracene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Fluoranthene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Fluorene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Indeno(123-cd)pyrene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Naphthalene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Phenanthrene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Pyrene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Sum of PAHs	mg/kg	<0.5	<0.5	<1	0-30 %	T	
2-Fluorobiphenyl - Surrogate	%	88			70-130 %	T	
Anthracene-d10 - Surrogate	%	90			70-130 %	T	
p-Terphenyl-D14 - Surrogate	%	96			70-130 %	T	
944538 [Duplicate of 944304]							
2000 TPH (C10 - C36) in Soil by GC			Result 2	RPD			
C10-C14 Fraction	mg/kg	<10	<10	<1	0-30 %	T	
C15-C28 Fraction	mg/kg	<20	<20	<1	0-30 %	T	
C29-C36 Fraction	mg/kg	57	75	27	0-30 %	T	

Laboratory: EN_SVOC

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
944541 [Spike of 944311]							
2300 OC Pesticides in Soil by GC-ECD			Spike Value	Percent Recovery			
a-BHC	mg/kg	1.8	2.0	89	70-130 %	T	
a-Chlordane	mg/kg	2.0	2.0	99	70-130 %	T	
a-Endosulfan	mg/kg	1.8	2.0	92	70-130 %	T	
Aldrin	mg/kg	1.6	2.0	82	70-130 %	T	
b-BHC	mg/kg	1.7	2.0	82	70-130 %	T	
b-Endosulfan	mg/kg	1.6	2.0	82	70-130 %	T	
d-BHC	mg/kg	1.8	2.0	92	70-130 %	T	
DDD	mg/kg	1.6	2.0	82	70-130 %	T	
DDE	mg/kg	1.8	2.0	91	70-130 %	T	
DDT	mg/kg	1.2	N/A	N/A	N/A	N/A	
Dieldrin	mg/kg	1.7	2.0	86	70-130 %	T	
Endosulfan sulfate	mg/kg	1.5	2.0	75	70-130 %	T	
Endrin	mg/kg	1.4	2.0	70	70-130 %	T	
Endrin Aldehyde	mg/kg	1.7	2.0	86	70-130 %	T	
g-BHC	mg/kg	1.6	2.0	82	70-130 %	T	
g-Chlordane	mg/kg	1.8	2.0	89	70-130 %	T	
Heptachlor	mg/kg	1.4	N/A	N/A	N/A	N/A	
Heptachlor epoxide	mg/kg	1.7	2.0	86	70-130 %	T	
Hexachlorobenzene (HCB)	mg/kg	2.0	2.0	99	70-130 %	T	
Methoxychlor	mg/kg	1.2	N/A	N/A	N/A	N/A	
Oxychlordane	mg/kg	<0.5	N/A	N/A	N/A	N/A	
2,4,5,6-tetrachloro-m-xylene-SURROGATE	%	91			70-130 %	T	
944542 [Spike of 944311]							Q13
2100 PAH in Soil by GC			Spike Value	Percent Recovery			
Acenaphthene	mg/kg	1.8	2.0	91	70-130 %	T	
Acenaphthylene	mg/kg	2.0	2.0	100	70-130 %	T	
Anthracene	mg/kg	2.0	2.0	98	70-130 %	T	
Benz(a)anthracene	mg/kg	1.8	2.0	90	70-130 %	T	
Benzo(a)pyrene	mg/kg	1.6	2.0	81	70-130 %	T	
Benzo(b)&(k)fluoranthene	mg/kg	<1	N/A	N/A	N/A	N/A	
Benzo(g,h,i)perylene	mg/kg	1.8	2.0	92	70-130 %	T	
Chrysene	mg/kg	1.7	2.0	86	70-130 %	T	
Dibenz(ah)anthracene	mg/kg	1.8	2.0	88	70-130 %	T	
Fluoranthene	mg/kg	2.0	2.0	98	70-130 %	T	
Fluorene	mg/kg	2.0	2.0	101	70-130 %	T	
Indeno(123-cd)pyrene	mg/kg	1.8	2.0	89	70-130 %	T	
Naphthalene	mg/kg	2.1	2.0	106	70-130 %	T	
Phenanthrene	mg/kg	2.0	2.0	102	70-130 %	T	
Pyrene	mg/kg	1.9	2.0	96	70-130 %	T	
Sum of PAHs	mg/kg	26	32.0	82	70-130 %	T	
2-Fluorobiphenyl - Surrogate	%	87			70-130 %	T	
Anthracene-d10 - Surrogate	%	92			70-130 %	T	
p-Terphenyl-D14 - Surrogate	%	100			70-130 %	T	
944543 [Spike of 944311]							
2000 TPH (C10 - C36) in Soil by GC			Spike Value	Percent Recovery			
C10-C14 Fraction	mg/kg	100	125.0	80	70-130 %	T	
C15-C28 Fraction	mg/kg	100	125.0	81	70-130 %	T	
C29-C36 Fraction	mg/kg	110	125.0	85	70-130 %	T	

Laboratory: EN_VOC

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
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Laboratory: EN_VOC

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
946314 [Method Blank]							
1100 BTEX in Soil by P&T							
Benzene	mg/kg	<0.2			< 0.2	T	
C6-C9 Fraction	mg/kg	<5.0			< 5	T	
Ethylbenzene	mg/kg	<1.0			< 1	T	
Meta- & Para- Xylene	mg/kg	<2.0			< 2	T	
Ortho-Xylene	mg/kg	<1.0			< 1	T	
Toluene	mg/kg	<1.0			< 1	T	
Total Xylenes	mg/kg	<3.0			< 3	T	
4-Bromofluorobenzene - Surrogate	%	79			70-130 %	T	
946316 [Laboratory Control Sample]							
1100 BTEX in Soil by P&T							
			Expected Value	Percent Recovery			
Benzene	mg/kg	4.2	5.0	84	70-130 %	T	
C6-C9 Fraction	mg/kg	43	50.0	86	70-130 %	T	
Ethylbenzene	mg/kg	4.1	5.0	82	70-130 %	T	
Meta- & Para- Xylene	mg/kg	8.1	10.0	81	70-130 %	T	
Ortho-Xylene	mg/kg	4.3	5.0	86	70-130 %	T	
Toluene	mg/kg	4.2	5.0	84	70-130 %	T	
Total Xylenes	mg/kg	12	N/A	N/A	N/A	N/A	
4-Bromofluorobenzene - Surrogate	%	85			70-130 %	T	
944533 [Duplicate of 944304]							
1100 BTEX &(C6-C9) in Soil by P&T							
			Result 2	RPD			
Benzene	mg/kg	<0.2	<0.2	<1	0-30 %	T	
C6-C9 Fraction	mg/kg	<5	<5	<1	0-30 %	T	
Ethylbenzene	mg/kg	<1	<1	<1	0-30 %	T	
Meta- & Para- Xylene	mg/kg	<2	<2	<1	0-30 %	T	
Ortho-Xylene	mg/kg	<1	<1	<1	0-30 %	T	
Toluene	mg/kg	<1	<1	<1	0-30 %	T	
Total Xylenes	mg/kg	<3	<3	N/A	N/A	N/A	
4-Bromofluorobenzene - Surrogate	%	93			70-130 %	T	
944539 [Spike of 944311]							
1100 BTEX &(C6-C9) in Soil by P&T							
			Spike Value	Percent Recovery			
Benzene	mg/kg	5.0	5.0	100	70-130 %	T	
C6-C9 Fraction	mg/kg	48	50.0	97	70-130 %	T	
Ethylbenzene	mg/kg	5.1	5.0	102	70-130 %	T	
Meta- & Para- Xylene	mg/kg	10	10.0	102	70-130 %	T	
Ortho-Xylene	mg/kg	5.2	5.0	104	70-130 %	T	
Sample Weight	-	9.2	N/A	N/A	N/A	N/A	
Toluene	mg/kg	5.0	5.0	100	70-130 %	T	
Total Xylenes	mg/kg	15	N/A	N/A	N/A	N/A	
4-Bromofluorobenzene - Surrogate	%	107			70-130 %	T	

Laboratory: EN_WATERS

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
945778 [Method Blank]							
4300 Anions in Soil by IC							
Bromide (Soluble)	mg/kg	<2			< 2	T	
Chloride (Soluble)	mg/kg	<2			< 2	T	
Fluoride (Soluble)	mg/kg	<2			< 2	T	
Nitrate (Soluble)	mg/kg	<2			< 2	T	
Nitrite (Soluble)	mg/kg	<2			< 2	T	
Orthophosphorus (Soluble)	mg/kg	<2			< 2	T	
Sulphate (Soluble)	mg/kg	<2			< 2	T	
947824 [Method Blank]							
4270 Total Cyanide in Soil Colourmetric							
Total Cyanide	mg/kg	<0.1			< 0.1	T	
949939 [Method Blank]							
4850 Total Phenolics in Soil by SFA							
Total Phenolics	mg/kg	<0.1			< 0.1	T	

Laboratory: EN_WATERS

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
945780 [Laboratory Control Sample]							
4300 Anions in Soil by IC			Expected Value	Percent Recovery			
Bromide (Soluble)	mg/kg	550	500.0	110	75-125 %	T	
Chloride (Soluble)	mg/kg	540	500.0	108	75-125 %	T	
Fluoride (Soluble)	mg/kg	520	500.0	104	75-125 %	T	
Nitrate (Soluble)	mg/kg	580	500.0	116	75-125 %	T	
Nitrite (Soluble)	mg/kg	530	500.0	106	75-125 %	T	
Orthophosphorus (Soluble)	mg/kg	490	500.0	98	75-125 %	T	
Sulphate (Soluble)	mg/kg	510	500.0	102	75-125 %	T	
947827 [Laboratory Control Sample]							
4270 Total Cyanide in Soil Colourmetric			Expected Value	Percent Recovery			
Total Cyanide	mg/kg	0.5	N/A	N/A	N/A	N/A	
949927 [Laboratory Control Sample]							
4000 pH in Soil			Expected Value	Percent Recovery			
pH	pH	7.4	N/A	N/A	N/A	N/A	
949941 [Laboratory Control Sample]							
4850 Total Phenolics in Soil by SFA			Expected Value	Percent Recovery			
Total Phenolics	mg/kg	0.6	0.5	110	70-130 %	T	
944537 [Duplicate of 944304]							
4000 pH in Soil			Result 2	RPD			
pH	pH	7.9	8.0	0.1	0-0.5 pH	T	

Sample Integrity

Attempt to Chill was evident	Yes
Samples correctly preserved	Yes
Organic samples had Teflon liners	Yes
Samples received with Zero Headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code Description

Q13 Some individual compounds for this analysis have failed. However the QC sample is considered acceptable if 80% of the compounds meet Acceptance Criteria.

Authorised By

Alex Petridis	Senior Analyst - SVOC	
Ruth Callander	Client Services Officer	
Mark Herbstreit	Senior Analyst - Metals	Accreditation Number: 1645
Helen Lei	Senior Analyst - Waters	Accreditation Number: 1645
Khoa Pham	Analyst - VOC	Accreditation Number: 1645
Olga Alieva	Analyst - SVOC	Accreditation Number: 1645

Laboratory Manager

Anthony Crane Operations Manager



Final Report

- Indicates Not Requested * Indicates NATA accreditation does not cover the performance of this service

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The samples were not collected by Amdel staff.



Certificate of Analysis

CONNELL WAGNER (SA) PTY LTD
55 Grenfell St
ADELAIDE SA 5000

Attention: April Freeman

Project 08ENME0008929
Client Reference 31495
Buckland Park
Received Date 10/04/2008 09:00:00 AM

Customer Sample ID	TP69 0-0.1	TP69 0.2-0.3	TP69 0.4-0.5	TP69 0.9-1.0	TP69 1.9-2.0
Amdel Sample Number	944106	944107	944108	944109	944110
Date Sampled	09/04/2008	09/04/2008	09/04/2008	09/04/2008	09/04/2008

VOC						
Test/Reference	PQL	Unit				
1100 BTEX &(C6-C9) in Soil by P&T						
Benzene	0.2	mg/kg	<0.2	-	-	-
Ethylbenzene	1	mg/kg	<1	-	-	-
Meta- & Para- Xylene	2	mg/kg	<2	-	-	-
Ortho-Xylene	1	mg/kg	<1	-	-	-
Toluene	1	mg/kg	<1	-	-	-
Total Xylenes	3	mg/kg	<3	-	-	-
C6-C9 Fraction	5	mg/kg	<5	-	-	-
4-Bromofluorobenzene - Surrogate	-	%	90	-	-	-

SVOC						
Test/Reference	PQL	Unit				
2300 OC Pesticides in Soil by GC-ECD						
a-BHC	0.5	mg/kg	<0.5	-	-	-
a-Chlordane	0.5	mg/kg	<0.5	-	-	-
a-Endosulfan	0.5	mg/kg	<0.5	-	-	-
Aldrin	0.5	mg/kg	<0.5	-	-	-
b-BHC	0.5	mg/kg	<0.5	-	-	-
b-Endosulfan	0.5	mg/kg	<0.5	-	-	-
d-BHC	0.5	mg/kg	<0.5	-	-	-
DDD	0.5	mg/kg	<0.5	-	-	-
DDE	0.5	mg/kg	<0.5	-	-	-
DDT	0.5	mg/kg	<0.5	-	-	-
Dieldrin	0.5	mg/kg	<0.5	-	-	-
Endosulfan sulfate	0.5	mg/kg	<0.5	-	-	-
Endrin	0.5	mg/kg	<0.5	-	-	-
Endrin Aldehyde	0.5	mg/kg	<0.5	-	-	-
g-BHC	0.5	mg/kg	<0.5	-	-	-
g-Chlordane	0.5	mg/kg	<0.5	-	-	-
Heptachlor	0.5	mg/kg	<0.5	-	-	-
Heptachlor epoxide	0.5	mg/kg	<0.5	-	-	-
Hexachlorobenzene (HCB)	0.5	mg/kg	<0.5	-	-	-
Methoxychlor	0.5	mg/kg	<0.5	-	-	-
Oxychlordane	0.5	mg/kg	<0.5	-	-	-
2,4,5,6-tetrachloro-m-xylene-SURROG ATE	1	%	96	-	-	-
2100 PAH in Soil by GC						
Acenaphthene	0.5	mg/kg	<0.5	-	-	-
Acenaphthylene	0.5	mg/kg	<0.5	-	-	-

Customer Sample ID	TP69 0-0.1	TP69 0.2-0.3	TP69 0.4-0.5	TP69 0.9-1.0	TP69 1.9-2.0
Amdel Sample Number	944106	944107	944108	944109	944110
Date Sampled	09/04/2008	09/04/2008	09/04/2008	09/04/2008	09/04/2008

SVOC						
Test/Reference	PQL	Unit				
Anthracene	0.5	mg/kg	<0.5	-	-	-
Benz(a)anthracene	0.5	mg/kg	<0.5	-	-	-
Benzo(a)pyrene	0.5	mg/kg	<0.5	-	-	-
Benzo(b)&(k)fluoranthene	1	mg/kg	<1	-	-	-
Benzo(g,h,i)perylene	0.5	mg/kg	<0.5	-	-	-
Chrysene	0.5	mg/kg	<0.5	-	-	-
Dibenz(ah)anthracene	0.5	mg/kg	<0.5	-	-	-
Fluoranthene	0.5	mg/kg	<0.5	-	-	-
Fluorene	0.5	mg/kg	<0.5	-	-	-
Indeno(123-cd)pyrene	0.5	mg/kg	<0.5	-	-	-
Naphthalene	0.5	mg/kg	<0.5	-	-	-
Phenanthrene	0.5	mg/kg	<0.5	-	-	-
Pyrene	0.5	mg/kg	<0.5	-	-	-
Sum of PAHs	0.5	mg/kg	<0.5	-	-	-
2-Fluorobiphenyl - Surrogate	-	%	82	-	-	-
p-Terphenyl-D14 - Surrogate	-	%	76	-	-	-
2000 TPH (C10 - C36) in Soil by GC						
C10-C14 Fraction	10	mg/kg	<10	-	-	-
C15-C28 Fraction	20	mg/kg	21	-	-	-
C29-C36 Fraction	20	mg/kg	38	-	-	-

Metals						
Test/Reference	PQL	Unit				
3100 Total Metals in Soil By ICP/MS						
Arsenic	2	mg/kg	5.3	-	-	-
Cadmium	2	mg/kg	<2	-	-	-
Chromium	2	mg/kg	27	-	-	-
Copper	2	mg/kg	1100	-	-	-
Lead	2	mg/kg	9.1	-	-	-
Nickel	2	mg/kg	16	-	-	-
Zinc	2	mg/kg	32	-	-	-

Inorganics						
Test/Reference	PQL	Unit				
4000 pH in Soil						
pH	0.1	pH	7.8	-	-	-

Miscellaneous						
Test/Reference	PQL	Unit				
5000 Moisture Content						
% Moisture	1	%	4	-	-	-

Customer Sample ID	TP70 0-0.1	TP70 0.2-0.3	TP70 0.4-0.5	TP70 0.9-1.0	TP70 1.9-2.0
Amdel Sample Number	944111	944112	944113	944114	944115
Date Sampled	09/04/2008	09/04/2008	09/04/2008	09/04/2008	09/04/2008

VOC						
Test/Reference	PQL	Unit				
1100 BTEX &(C6-C9) in Soil by P&T						
Benzene	0.2	mg/kg	-	<0.2	-	-
Ethylbenzene	1	mg/kg	-	<1	-	-

Customer Sample ID	TP70 0-0.1	TP70 0.2-0.3	TP70 0.4-0.5	TP70 0.9-1.0	TP70 1.9-2.0
Amdel Sample Number	944111	944112	944113	944114	944115
Date Sampled	09/04/2008	09/04/2008	09/04/2008	09/04/2008	09/04/2008

VOC					
Test/Reference	PQL	Unit			
Meta- & Para- Xylene	2	mg/kg	-	<2	-
Ortho-Xylene	1	mg/kg	-	<1	-
Toluene	1	mg/kg	-	<1	-
Total Xylenes	3	mg/kg	-	<3	-
C6-C9 Fraction	5	mg/kg	-	<5	-
4-Bromofluorobenzene - Surrogate	-	%	-	103	-

SVOC					
Test/Reference	PQL	Unit			

2300 OC Pesticides in Soil by GC-ECD

a-BHC	0.5	mg/kg	-	<0.5	-
a-Chlordane	0.5	mg/kg	-	<0.5	-
a-Endosulfan	0.5	mg/kg	-	<0.5	-
Aldrin	0.5	mg/kg	-	<0.5	-
b-BHC	0.5	mg/kg	-	<0.5	-
b-Endosulfan	0.5	mg/kg	-	<0.5	-
d-BHC	0.5	mg/kg	-	<0.5	-
DDD	0.5	mg/kg	-	<0.5	-
DDE	0.5	mg/kg	-	<0.5	-
DDT	0.5	mg/kg	-	<0.5	-
Dieldrin	0.5	mg/kg	-	<0.5	-
Endosulfan sulfate	0.5	mg/kg	-	<0.5	-
Endrin	0.5	mg/kg	-	<0.5	-
Endrin Aldehyde	0.5	mg/kg	-	<0.5	-
g-BHC	0.5	mg/kg	-	<0.5	-
g-Chlordane	0.5	mg/kg	-	<0.5	-
Heptachlor	0.5	mg/kg	-	<0.5	-
Heptachlor epoxide	0.5	mg/kg	-	<0.5	-
Hexachlorobenzene (HCB)	0.5	mg/kg	-	<0.5	-
Methoxychlor	0.5	mg/kg	-	<0.5	-
Oxychlordane	0.5	mg/kg	-	<0.5	-
2,4,5,6-tetrachloro-m-xylene-SURROG ATE	1	%	-	100	-

2100 PAH in Soil by GC

Acenaphthene	0.5	mg/kg	-	<0.5	-
Acenaphthylene	0.5	mg/kg	-	<0.5	-
Anthracene	0.5	mg/kg	-	<0.5	-
Benz(a)anthracene	0.5	mg/kg	-	<0.5	-
Benzo(a)pyrene	0.5	mg/kg	-	<0.5	-
Benzo(b)&(k)fluoranthene	1	mg/kg	-	<1	-
Benzo(g,h,i)perylene	0.5	mg/kg	-	<0.5	-
Chrysene	0.5	mg/kg	-	<0.5	-
Dibenz(ah)anthracene	0.5	mg/kg	-	<0.5	-
Fluoranthene	0.5	mg/kg	-	<0.5	-
Fluorene	0.5	mg/kg	-	<0.5	-
Indeno(123-cd)pyrene	0.5	mg/kg	-	<0.5	-
Naphthalene	0.5	mg/kg	-	<0.5	-
Phenanthrene	0.5	mg/kg	-	<0.5	-
Pyrene	0.5	mg/kg	-	<0.5	-
Sum of PAHs	0.5	mg/kg	-	<0.5	-
2-Fluorobiphenyl - Surrogate	-	%	-	90	-

Customer Sample ID	TP70 0-0.1	TP70 0.2-0.3	TP70 0.4-0.5	TP70 0.9-1.0	TP70 1.9-2.0
Amdel Sample Number	944111	944112	944113	944114	944115
Date Sampled	09/04/2008	09/04/2008	09/04/2008	09/04/2008	09/04/2008

SVOC

Test/Reference	PQL	Unit				
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p-Terphenyl-D14 - Surrogate	-	%	-	110	-	-	-
Anthracene-d10 - Surrogate	-	%	-	97	-	-	-
2000 TPH (C10 - C36) in Soil by GC							
C10-C14 Fraction	10	mg/kg	-	<10	-	-	-
C15-C28 Fraction	20	mg/kg	-	<20	-	-	-
C29-C36 Fraction	20	mg/kg	-	<20	-	-	-

Metals

Test/Reference	PQL	Unit				
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3100 Total Metals in Soil By ICP/MS							
Arsenic	2	mg/kg	-	3.2	-	-	-
Cadmium	2	mg/kg	-	<2	-	-	-
Chromium	2	mg/kg	-	42	-	-	-
Copper	2	mg/kg	-	22	-	-	-
Lead	2	mg/kg	-	9.0	-	-	-
Nickel	2	mg/kg	-	26	-	-	-
Zinc	2	mg/kg	-	20	-	-	-

Inorganics

Test/Reference	PQL	Unit				
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4000 pH in Soil							
pH	0.1	pH	-	9.0	-	-	-

Miscellaneous

Test/Reference	PQL	Unit				
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5000 Moisture Content							
% Moisture	1	%	-	11	-	-	-

Customer Sample ID	TP71 0-0.1	QC23A	TP71 0.2-0.3	TP71 0.4-0.5	TP71 0.9-1.0
Amdel Sample Number	944116	944117	944118	944119	944120
Date Sampled	09/04/2008	09/04/2008	09/04/2008	09/04/2008	09/04/2008

VOC

Test/Reference	PQL	Unit				
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1100 BTEX & (C6-C9) in Soil by P&T							
Benzene	0.2	mg/kg	<0.2	-	-	-	-
Ethylbenzene	1	mg/kg	<1	-	-	-	-
Meta- & Para- Xylene	2	mg/kg	<2	-	-	-	-
Ortho-Xylene	1	mg/kg	<1	-	-	-	-
Toluene	1	mg/kg	<1	-	-	-	-
Total Xylenes	3	mg/kg	<3	-	-	-	-
C6-C9 Fraction	5	mg/kg	<5	-	-	-	-
4-Bromofluorobenzene - Surrogate	-	%	93	-	-	-	-

SVOC

Test/Reference	PQL	Unit				
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2300 OC Pesticides in Soil by GC-ECD							
a-BHC	0.5	mg/kg	<0.5	<0.5	-	-	-
a-Chlordane	0.5	mg/kg	<0.5	<0.5	-	-	-
a-Endosulfan	0.5	mg/kg	<0.5	<0.5	-	-	-
Aldrin	0.5	mg/kg	<0.5	<0.5	-	-	-

Customer Sample ID	TP71 0-0.1	QC23A	TP71 0.2-0.3	TP71 0.4-0.5	TP71 0.9-1.0
Amdel Sample Number	944116	944117	944118	944119	944120
Date Sampled	09/04/2008	09/04/2008	09/04/2008	09/04/2008	09/04/2008
SVOC					
Test/Reference	PQL	Unit			
b-BHC	0.5	mg/kg	<0.5	<0.5	-
b-Endosulfan	0.5	mg/kg	<0.5	<0.5	-
d-BHC	0.5	mg/kg	<0.5	<0.5	-
DDD	0.5	mg/kg	<0.5	<0.5	-
DDE	0.5	mg/kg	<0.5	<0.5	-
DDT	0.5	mg/kg	<0.5	<0.5	-
Dieldrin	0.5	mg/kg	<0.5	<0.5	-
Endosulfan sulfate	0.5	mg/kg	<0.5	<0.5	-
Endrin	0.5	mg/kg	<0.5	<0.5	-
Endrin Aldehyde	0.5	mg/kg	<0.5	<0.5	-
g-BHC	0.5	mg/kg	<0.5	<0.5	-
g-Chlordane	0.5	mg/kg	<0.5	<0.5	-
Heptachlor	0.5	mg/kg	<0.5	<0.5	-
Heptachlor epoxide	0.5	mg/kg	<0.5	<0.5	-
Hexachlorobenzene (HCB)	0.5	mg/kg	<0.5	<0.5	-
Methoxychlor	0.5	mg/kg	<0.5	<0.5	-
Oxychlordane	0.5	mg/kg	<0.5	<0.5	-
2,4,5,6-tetrachloro-m-xylene-SURROG ATE	1	%	96	84	-
2100 PAH in Soil by GC					
Acenaphthene	0.5	mg/kg	<0.5	-	-
Acenaphthylene	0.5	mg/kg	<0.5	-	-
Anthracene	0.5	mg/kg	<0.5	-	-
Benz(a)anthracene	0.5	mg/kg	<0.5	-	-
Benzo(a)pyrene	0.5	mg/kg	<0.5	-	-
Benzo(b)&(k)fluoranthene	1	mg/kg	<1	-	-
Benzo(g,h,i)perylene	0.5	mg/kg	<0.5	-	-
Chrysene	0.5	mg/kg	<0.5	-	-
Dibenz(ah)anthracene	0.5	mg/kg	<0.5	-	-
Fluoranthene	0.5	mg/kg	<0.5	-	-
Fluorene	0.5	mg/kg	<0.5	-	-
Indeno(123-cd)pyrene	0.5	mg/kg	<0.5	-	-
Naphthalene	0.5	mg/kg	<0.5	-	-
Phenanthrene	0.5	mg/kg	<0.5	-	-
Pyrene	0.5	mg/kg	<0.5	-	-
Sum of PAHs	0.5	mg/kg	<0.5	-	-
2-Fluorobiphenyl - Surrogate	-	%	88	-	-
p-Terphenyl-D14 - Surrogate	-	%	106	-	-
Anthracene-d10 - Surrogate	-	%	94	-	-
2000 TPH (C10 - C36) in Soil by GC					
C10-C14 Fraction	10	mg/kg	<10	-	-
C15-C28 Fraction	20	mg/kg	<20	-	-
C29-C36 Fraction	20	mg/kg	59	-	-
Metals					
Test/Reference	PQL	Unit			
3100 Total Metals in Soil By ICP/MS					
Arsenic	2	mg/kg	<2	<2	-
Cadmium	2	mg/kg	<2	<2	-
Chromium	2	mg/kg	12	14	-
Copper	2	mg/kg	10	12	-

Customer Sample ID	TP71 0-0.1	QC23A	TP71 0.2-0.3	TP71 0.4-0.5	TP71 0.9-1.0
Amdel Sample Number	944116	944117	944118	944119	944120
Date Sampled	09/04/2008	09/04/2008	09/04/2008	09/04/2008	09/04/2008
Metals					
Test/Reference	PQL	Unit			
Lead	2	mg/kg	4.6	5.6	-
Nickel	2	mg/kg	4.8	5.9	-
Zinc	2	mg/kg	21	26	-
Inorganics					
Test/Reference	PQL	Unit			
4000 pH in Soil					
pH	0.1	pH	8.1	-	-
Miscellaneous					
Test/Reference	PQL	Unit			
5000 Moisture Content					
% Moisture	1	%	9	11	-

Customer Sample ID	TP71 1.9-2.0	TP72 0-0.1	TP72 0.2-0.3	TP72 0.4-0.5	QC24A
Amdel Sample Number	944121	944122	944123	944124	944125
Date Sampled	09/04/2008	09/04/2008	09/04/2008	09/04/2008	09/04/2008
VOC					
Test/Reference	PQL	Unit			
1100 BTEX &(C6-C9) in Soil by P&T					
Benzene	0.2	mg/kg	-	<0.2	-
Ethylbenzene	1	mg/kg	-	<1	-
Meta- & Para- Xylene	2	mg/kg	-	<2	-
Ortho-Xylene	1	mg/kg	-	<1	-
Toluene	1	mg/kg	-	<1	-
Total Xylenes	3	mg/kg	-	<3	-
C6-C9 Fraction	5	mg/kg	-	<5	-
4-Bromofluorobenzene - Surrogate	-	%	-	99	-
SVOC					
Test/Reference	PQL	Unit			
2300 OC Pesticides in Soil by GC-ECD					
a-BHC	0.5	mg/kg	-	<0.5	-
a-Chlordane	0.5	mg/kg	-	<0.5	-
a-Endosulfan	0.5	mg/kg	-	<0.5	-
Aldrin	0.5	mg/kg	-	<0.5	-
b-BHC	0.5	mg/kg	-	<0.5	-
b-Endosulfan	0.5	mg/kg	-	<0.5	-
d-BHC	0.5	mg/kg	-	<0.5	-
DDD	0.5	mg/kg	-	<0.5	-
DDE	0.5	mg/kg	-	<0.5	-
DDT	0.5	mg/kg	-	<0.5	-
Dieldrin	0.5	mg/kg	-	<0.5	-
Endosulfan sulfate	0.5	mg/kg	-	<0.5	-
Endrin	0.5	mg/kg	-	<0.5	-
Endrin Aldehyde	0.5	mg/kg	-	<0.5	-
g-BHC	0.5	mg/kg	-	<0.5	-
g-Chlordane	0.5	mg/kg	-	<0.5	-
Heptachlor	0.5	mg/kg	-	<0.5	-

Customer Sample ID	TP71 1.9-2.0	TP72 0-0.1	TP72 0.2-0.3	TP72 0.4-0.5	QC24A
Amdel Sample Number	944121	944122	944123	944124	944125
Date Sampled	09/04/2008	09/04/2008	09/04/2008	09/04/2008	09/04/2008

SVOC

Test/Reference	PQL	Unit				
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Heptachlor epoxide	0.5	mg/kg	-	<0.5	-	-
Hexachlorobenzene (HCB)	0.5	mg/kg	-	<0.5	-	-
Methoxychlor	0.5	mg/kg	-	<0.5	-	-
Oxychlorodane	0.5	mg/kg	-	<0.5	-	-
2,4,5,6-tetrachloro-m-xylene-SURROG ATE	1	%	-	98	-	-

2100 PAH in Soil by GC

Acenaphthene	0.5	mg/kg	-	<0.5	-	-
Acenaphthylene	0.5	mg/kg	-	<0.5	-	-
Anthracene	0.5	mg/kg	-	<0.5	-	-
Benz(a)anthracene	0.5	mg/kg	-	<0.5	-	-
Benzo(a)pyrene	0.5	mg/kg	-	<0.5	-	-
Benzo(b)&(k)fluoranthene	1	mg/kg	-	<1	-	-
Benzo(g,h,i)perylene	0.5	mg/kg	-	<0.5	-	-
Chrysene	0.5	mg/kg	-	<0.5	-	-
Dibenz(ah)anthracene	0.5	mg/kg	-	<0.5	-	-
Fluoranthene	0.5	mg/kg	-	<0.5	-	-
Fluorene	0.5	mg/kg	-	<0.5	-	-
Indeno(123-cd)pyrene	0.5	mg/kg	-	<0.5	-	-
Naphthalene	0.5	mg/kg	-	<0.5	-	-
Phenanthrene	0.5	mg/kg	-	<0.5	-	-
Pyrene	0.5	mg/kg	-	<0.5	-	-
Sum of PAHs	0.5	mg/kg	-	<0.5	-	-
2-Fluorobiphenyl - Surrogate	-	%	-	88	-	-
p-Terphenyl-D14 - Surrogate	-	%	-	105	-	-
Anthracene-d10 - Surrogate	-	%	-	93	-	-

2000 TPH (C10 - C36) in Soil by GC

C10-C14 Fraction	10	mg/kg	-	<10	-	-
C15-C28 Fraction	20	mg/kg	-	<20	-	-
C29-C36 Fraction	20	mg/kg	-	21	-	-

Metals

Test/Reference	PQL	Unit				
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3100 Total Metals in Soil by ICP/MS

Arsenic	2	mg/kg	-	2.2	-	-
Cadmium	2	mg/kg	-	<2	-	-
Chromium	2	mg/kg	-	32	-	-
Copper	2	mg/kg	-	18	-	-
Lead	2	mg/kg	-	8.3	-	-
Nickel	2	mg/kg	-	17	-	-
Zinc	2	mg/kg	-	25	-	-

Inorganics

Test/Reference	PQL	Unit				
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4000 pH in Soil

pH	0.1	pH	-	8.5	-	-
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Miscellaneous

Test/Reference	PQL	Unit				
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5000 Moisture Content

% Moisture	1	%	-	10	-	-
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Customer Sample ID	TP72 0.9-1.0	TP72 1.9-2.0	TP73 0-0.1	TP73 0.2-0.3	TP73 0.4-0.5
Amdel Sample Number	944126	944127	944128	944129	944130
Date Sampled	09/04/2008	09/04/2008	09/04/2008	09/04/2008	09/04/2008

VOC						
Test/Reference	PQL	Unit				
1100 BTEX &(C6-C9) in Soil by P&T						
Benzene	0.2	mg/kg	-	-	-	<0.2
Ethylbenzene	1	mg/kg	-	-	-	<1
Meta- & Para- Xylene	2	mg/kg	-	-	-	<2
Ortho-Xylene	1	mg/kg	-	-	-	<1
Toluene	1	mg/kg	-	-	-	<1
Total Xylenes	3	mg/kg	-	-	-	<3
C6-C9 Fraction	5	mg/kg	-	-	-	<5
4-Bromofluorobenzene - Surrogate	-	%	-	-	-	99

SVOC						
Test/Reference	PQL	Unit				
2300 OC Pesticides in Soil by GC-ECD						
a-BHC	0.5	mg/kg	-	-	-	<0.5
a-Chlordane	0.5	mg/kg	-	-	-	<0.5
a-Endosulfan	0.5	mg/kg	-	-	-	<0.5
Aldrin	0.5	mg/kg	-	-	-	<0.5
b-BHC	0.5	mg/kg	-	-	-	<0.5
b-Endosulfan	0.5	mg/kg	-	-	-	<0.5
d-BHC	0.5	mg/kg	-	-	-	<0.5
DDD	0.5	mg/kg	-	-	-	<0.5
DDE	0.5	mg/kg	-	-	-	<0.5
DDT	0.5	mg/kg	-	-	-	<0.5
Dieldrin	0.5	mg/kg	-	-	-	<0.5
Endosulfan sulfate	0.5	mg/kg	-	-	-	<0.5
Endrin	0.5	mg/kg	-	-	-	<0.5
Endrin Aldehyde	0.5	mg/kg	-	-	-	<0.5
g-BHC	0.5	mg/kg	-	-	-	<0.5
g-Chlordane	0.5	mg/kg	-	-	-	<0.5
Heptachlor	0.5	mg/kg	-	-	-	<0.5
Heptachlor epoxide	0.5	mg/kg	-	-	-	<0.5
Hexachlorobenzene (HCB)	0.5	mg/kg	-	-	-	<0.5
Methoxychlor	0.5	mg/kg	-	-	-	<0.5
Oxychlordane	0.5	mg/kg	-	-	-	<0.5
2,4,5,6-tetrachloro-m-xylene-SURROG ATE	1	%	-	-	-	100

2100 PAH in Soil by GC						
Test/Reference	PQL	Unit				
Acenaphthene	0.5	mg/kg	-	-	-	<0.5
Acenaphthylene	0.5	mg/kg	-	-	-	<0.5
Anthracene	0.5	mg/kg	-	-	-	<0.5
Benz(a)anthracene	0.5	mg/kg	-	-	-	<0.5
Benzo(a)pyrene	0.5	mg/kg	-	-	-	<0.5
Benzo(b)&(k)fluoranthene	1	mg/kg	-	-	-	<1
Benzo(g,h,i)perylene	0.5	mg/kg	-	-	-	<0.5
Chrysene	0.5	mg/kg	-	-	-	<0.5
Dibenz(ah)anthracene	0.5	mg/kg	-	-	-	<0.5
Fluoranthene	0.5	mg/kg	-	-	-	<0.5
Fluorene	0.5	mg/kg	-	-	-	<0.5
Indeno(123-cd)pyrene	0.5	mg/kg	-	-	-	<0.5

Customer Sample ID	TP72 0.9-1.0	TP72 1.9-2.0	TP73 0-0.1	TP73 0.2-0.3	TP73 0.4-0.5
Amdel Sample Number	944126	944127	944128	944129	944130
Date Sampled	09/04/2008	09/04/2008	09/04/2008	09/04/2008	09/04/2008
SVOC					
Test/Reference	PQL	Unit			
Naphthalene	0.5	mg/kg	-	-	<0.5
Phenanthrene	0.5	mg/kg	-	-	<0.5
Pyrene	0.5	mg/kg	-	-	<0.5
Sum of PAHs	0.5	mg/kg	-	-	<0.5
2-Fluorobiphenyl - Surrogate	-	%	-	-	90
p-Terphenyl-D14 - Surrogate	-	%	-	-	108
Anthracene-d10 - Surrogate	-	%	-	-	98
2000 TPH (C10 - C36) in Soil by GC					
C10-C14 Fraction	10	mg/kg	-	-	<10
C15-C28 Fraction	20	mg/kg	-	-	<20
C29-C36 Fraction	20	mg/kg	-	-	<20
Metals					
Test/Reference	PQL	Unit			
3100 Total Metals in Soil By ICP/MS					
Arsenic	2	mg/kg	-	-	<2
Cadmium	2	mg/kg	-	-	<2
Chromium	2	mg/kg	-	-	26
Copper	2	mg/kg	-	-	15
Lead	2	mg/kg	-	-	11
Nickel	2	mg/kg	-	-	12
Zinc	2	mg/kg	-	-	17
Inorganics					
Test/Reference	PQL	Unit			
4000 pH in Soil					
pH	0.1	pH	-	-	8.6
Miscellaneous					
Test/Reference	PQL	Unit			
5000 Moisture Content					
% Moisture	1	%	-	-	9

Customer Sample ID	TP73 0.9-1.0	TP73 1.9-2.0	TP74 0-0.1	TP74 0.2-0.3	TP74 0.4-0.5
Amdel Sample Number	944131	944132	944133	944134	944135
Date Sampled	09/04/2008	09/04/2008	09/04/2008	09/04/2008	09/04/2008
VOC					
Test/Reference	PQL	Unit			
1100 BTEX & (C6-C9) in Soil by P&T					
Benzene	0.2	mg/kg	-	-	<0.2
Ethylbenzene	1	mg/kg	-	-	<1
Meta- & Para- Xylene	2	mg/kg	-	-	<2
Ortho-Xylene	1	mg/kg	-	-	<1
Toluene	1	mg/kg	-	-	<1
Total Xylenes	3	mg/kg	-	-	<3
C6-C9 Fraction	5	mg/kg	-	-	<5
4-Bromofluorobenzene - Surrogate	-	%	-	-	102
SVOC					
Test/Reference	PQL	Unit			

Customer Sample ID	TP73 0.9-1.0	TP73 1.9-2.0	TP74 0-0.1	TP74 0.2-0.3	TP74 0.4-0.5
Amdel Sample Number	944131	944132	944133	944134	944135
Date Sampled	09/04/2008	09/04/2008	09/04/2008	09/04/2008	09/04/2008

SVOC	PQL	Unit
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2300 OC Pesticides in Soil by GC-ECD

Test/Reference	PQL	Unit	TP73 0.9-1.0	TP73 1.9-2.0	TP74 0-0.1	TP74 0.2-0.3	TP74 0.4-0.5
a-BHC	0.5	mg/kg	-	-	<0.5	-	-
a-Chlordane	0.5	mg/kg	-	-	<0.5	-	-
a-Endosulfan	0.5	mg/kg	-	-	<0.5	-	-
Aldrin	0.5	mg/kg	-	-	<0.5	-	-
b-BHC	0.5	mg/kg	-	-	<0.5	-	-
b-Endosulfan	0.5	mg/kg	-	-	<0.5	-	-
d-BHC	0.5	mg/kg	-	-	<0.5	-	-
DDD	0.5	mg/kg	-	-	<0.5	-	-
DDE	0.5	mg/kg	-	-	<0.5	-	-
DDT	0.5	mg/kg	-	-	<0.5	-	-
Dieldrin	0.5	mg/kg	-	-	<0.5	-	-
Endosulfan sulfate	0.5	mg/kg	-	-	<0.5	-	-
Endrin	0.5	mg/kg	-	-	<0.5	-	-
Endrin Aldehyde	0.5	mg/kg	-	-	<0.5	-	-
g-BHC	0.5	mg/kg	-	-	<0.5	-	-
g-Chlordane	0.5	mg/kg	-	-	<0.5	-	-
Heptachlor	0.5	mg/kg	-	-	<0.5	-	-
Heptachlor epoxide	0.5	mg/kg	-	-	<0.5	-	-
Hexachlorobenzene (HCB)	0.5	mg/kg	-	-	<0.5	-	-
Methoxychlor	0.5	mg/kg	-	-	<0.5	-	-
Oxychlordane	0.5	mg/kg	-	-	<0.5	-	-
2,4,5,6-tetrachloro-m-xylene-SURROG ATE	1	%	-	-	100	-	-

2100 PAH in Soil by GC

Test/Reference	PQL	Unit	TP73 0.9-1.0	TP73 1.9-2.0	TP74 0-0.1	TP74 0.2-0.3	TP74 0.4-0.5
Acenaphthene	0.5	mg/kg	-	-	<0.5	-	-
Acenaphthylene	0.5	mg/kg	-	-	<0.5	-	-
Anthracene	0.5	mg/kg	-	-	<0.5	-	-
Benz(a)anthracene	0.5	mg/kg	-	-	<0.5	-	-
Benzo(a)pyrene	0.5	mg/kg	-	-	<0.5	-	-
Benzo(b)&(k)fluoranthene	1	mg/kg	-	-	<1	-	-
Benzo(g,h,i)perylene	0.5	mg/kg	-	-	<0.5	-	-
Chrysene	0.5	mg/kg	-	-	<0.5	-	-
Dibenz(ah)anthracene	0.5	mg/kg	-	-	<0.5	-	-
Fluoranthene	0.5	mg/kg	-	-	<0.5	-	-
Fluorene	0.5	mg/kg	-	-	<0.5	-	-
Indeno(123-cd)pyrene	0.5	mg/kg	-	-	<0.5	-	-
Naphthalene	0.5	mg/kg	-	-	<0.5	-	-
Phenanthrene	0.5	mg/kg	-	-	<0.5	-	-
Pyrene	0.5	mg/kg	-	-	<0.5	-	-
Sum of PAHs	0.5	mg/kg	-	-	<0.5	-	-
2-Fluorobiphenyl - Surrogate	-	%	-	-	90	-	-
p-Terphenyl-D14 - Surrogate	-	%	-	-	106	-	-
Anthracene-d10 - Surrogate	-	%	-	-	96	-	-

2000 TPH (C10 - C36) in Soil by GC

Test/Reference	PQL	Unit	TP73 0.9-1.0	TP73 1.9-2.0	TP74 0-0.1	TP74 0.2-0.3	TP74 0.4-0.5
C10-C14 Fraction	10	mg/kg	-	-	<10	-	-
C15-C28 Fraction	20	mg/kg	-	-	<20	-	-
C29-C36 Fraction	20	mg/kg	-	-	25	-	-

Metals

Test/Reference	PQL	Unit
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Customer Sample ID	TP73 0.9-1.0	TP73 1.9-2.0	TP74 0-0.1	TP74 0.2-0.3	TP74 0.4-0.5
Amdel Sample Number	944131	944132	944133	944134	944135
Date Sampled	09/04/2008	09/04/2008	09/04/2008	09/04/2008	09/04/2008

Metals

Test/Reference	PQL	Unit					
3100 Total Metals in Soil By ICP/MS							
Arsenic	2	mg/kg	-	-	<2	-	-
Cadmium	2	mg/kg	-	-	<2	-	-
Chromium	2	mg/kg	-	-	9.8	-	-
Copper	2	mg/kg	-	-	3.2	-	-
Lead	2	mg/kg	-	-	3.8	-	-
Nickel	2	mg/kg	-	-	2.6	-	-
Zinc	2	mg/kg	-	-	7.1	-	-

Inorganics

Test/Reference	PQL	Unit					
4000 pH in Soil							
pH	0.1	pH	-	-	7.8	-	-

Miscellaneous

Test/Reference	PQL	Unit					
5000 Moisture Content							
% Moisture	1	%	-	-	3	-	-

Customer Sample ID	TP74 0.9-1.0	TP74 1.9-2.0	TP75 0-0.1	TP75 0.2-0.3	TP75 0.4-0.5
Amdel Sample Number	944136	944137	944138	944139	944140
Date Sampled	09/04/2008	09/04/2008	09/04/2008	09/04/2008	09/04/2008

VOC

Test/Reference	PQL	Unit					
1100 MAH(BTEX & C6-C9) in Soil P&T							
Benzene	0.2	mg/kg	-	-	<0.2	-	-
Cumene	0.5	mg/kg	-	-	<0.5	-	-
Ethylbenzene	1	mg/kg	-	-	<1	-	-
Meta- & Para- Xylene	2	mg/kg	-	-	<2	-	-
Ortho-Xylene	1	mg/kg	-	-	<1	-	-
Styrene	0.5	mg/kg	-	-	<0.5	-	-
Toluene	1	mg/kg	-	-	<1	-	-
Total Xylenes	3	mg/kg	-	-	<3	-	-
C6-C9 Fraction	5	mg/kg	-	-	<5	-	-
4-Bromofluorobenzene - Surrogate	-	%	-	-	92	-	-

SVOC

Test/Reference	PQL	Unit					
2300 OC Pesticides in Soil by GC-ECD							
a-BHC	0.5	mg/kg	-	-	<0.5	-	-
a-Chlordane	0.5	mg/kg	-	-	<0.5	-	-
a-Endosulfan	0.5	mg/kg	-	-	<0.5	-	-
Aldrin	0.5	mg/kg	-	-	<0.5	-	-
b-BHC	0.5	mg/kg	-	-	<0.5	-	-
b-Endosulfan	0.5	mg/kg	-	-	<0.5	-	-
d-BHC	0.5	mg/kg	-	-	<0.5	-	-
DDD	0.5	mg/kg	-	-	<0.5	-	-
DDE	0.5	mg/kg	-	-	<0.5	-	-
DDT	0.5	mg/kg	-	-	<0.5	-	-
Dieldrin	0.5	mg/kg	-	-	<0.5	-	-

Customer Sample ID	TP74 0.9-1.0	TP74 1.9-2.0	TP75 0-0.1	TP75 0.2-0.3	TP75 0.4-0.5
Amdel Sample Number	944136	944137	944138	944139	944140
Date Sampled	09/04/2008	09/04/2008	09/04/2008	09/04/2008	09/04/2008
SVOC					
Test/Reference	PQL	Unit			
Endosulfan sulfate	0.5	mg/kg	-	-	<0.5
Endrin	0.5	mg/kg	-	-	<0.5
Endrin Aldehyde	0.5	mg/kg	-	-	<0.5
g-BHC	0.5	mg/kg	-	-	<0.5
g-Chlordane	0.5	mg/kg	-	-	<0.5
Heptachlor	0.5	mg/kg	-	-	<0.5
Heptachlor epoxide	0.5	mg/kg	-	-	<0.5
Hexachlorobenzene (HCB)	0.5	mg/kg	-	-	<0.5
Methoxychlor	0.5	mg/kg	-	-	<0.5
Oxychlordane	0.5	mg/kg	-	-	<0.5
2,4,5,6-tetrachloro-m-xylene-SURROG ATE	1	%	-	-	121
2100 PAH in Soil by GC					
Acenaphthene	0.5	mg/kg	-	-	<0.5
Acenaphthylene	0.5	mg/kg	-	-	<0.5
Anthracene	0.5	mg/kg	-	-	<0.5
Benz(a)anthracene	0.5	mg/kg	-	-	<0.5
Benzo(a)pyrene	0.5	mg/kg	-	-	<0.5
Benzo(b)&(k)fluoranthene	1	mg/kg	-	-	<1
Benzo(g,h,i)perylene	0.5	mg/kg	-	-	<0.5
Chrysene	0.5	mg/kg	-	-	<0.5
Dibenz(ah)anthracene	0.5	mg/kg	-	-	<0.5
Fluoranthene	0.5	mg/kg	-	-	<0.5
Fluorene	0.5	mg/kg	-	-	<0.5
Indeno(123-cd)pyrene	0.5	mg/kg	-	-	<0.5
Naphthalene	0.5	mg/kg	-	-	<0.5
Phenanthrene	0.5	mg/kg	-	-	<0.5
Pyrene	0.5	mg/kg	-	-	<0.5
Sum of PAHs	0.5	mg/kg	-	-	<0.5
2-Fluorobiphenyl - Surrogate	-	%	-	-	110
p-Terphenyl-D14 - Surrogate	-	%	-	-	130
Anthracene-d10 - Surrogate	-	%	-	-	116
2600 PCBs in Soil by GC					
Aroclor 1016DB	0.5	mg/kg	-	-	<0.5
Aroclor 1221DB	0.5	mg/kg	-	-	<0.5
Aroclor 1232 and 1242 as totalDB	1	mg/kg	-	-	<1
Aroclor 1248 and 1254 as totalDB	1	mg/kg	-	-	<1
Aroclor 1260DB	0.5	mg/kg	-	-	<0.5
Total Polychlorinated biphenylsDB	1	mg/kg	-	-	<1
Decachlorobiphenyl - PCB surrogate	1	%	-	-	104
2000 TPH (C10 - C36) in Soil by GC					
C10-C14 Fraction	10	mg/kg	-	-	<10
C15-C28 Fraction	20	mg/kg	-	-	<20
C29-C36 Fraction	20	mg/kg	-	-	35
Metals					
Test/Reference	PQL	Unit			
3400 Mercury in Soil by FIMS					
Mercury	0.01	mg/kg	-	-	0.01
3100 Total Metals in Soil By ICP/MS					
Antimony	2	mg/kg	-	-	<2

Customer Sample ID	TP74 0.9-1.0	TP74 1.9-2.0	TP75 0-0.1	TP75 0.2-0.3	TP75 0.4-0.5
Amdel Sample Number	944136	944137	944138	944139	944140
Date Sampled	09/04/2008	09/04/2008	09/04/2008	09/04/2008	09/04/2008
Metals					
Test/Reference	PQL	Unit			
Arsenic	2	mg/kg	-	-	<2
Barium	2	mg/kg	-	-	63
Beryllium	2	mg/kg	-	-	<2
Boron	2	mg/kg	-	-	12
Cadmium	2	mg/kg	-	-	<2
Chromium	2	mg/kg	-	-	26
Cobalt	2	mg/kg	-	-	8.0
Copper	2	mg/kg	-	-	17
Lead	2	mg/kg	-	-	15
Manganese	2	mg/kg	-	-	280
Molybdenum	2	mg/kg	-	-	<2
Nickel	2	mg/kg	-	-	13
Selenium	2	mg/kg	-	-	<2
Tin	2	mg/kg	-	-	<2
Vanadium	2	mg/kg	-	-	27
Zinc	2	mg/kg	-	-	26
Inorganics					
Test/Reference	PQL	Unit			
4300 Anions in Soil by IC					
Fluoride (Soluble)	2	mg/kg	-	-	4
4270 Total Cyanide in Soil Colourmetric					
Total Cyanide	0.1	mg/kg	-	-	0.4
4000 pH in Soil					
pH	0.1	pH	-	-	7.8
4850 Total Phenolics in Soil by SFA					
Total Phenolics	0.1	mg/kg	-	-	<0.1
Miscellaneous					
Test/Reference	PQL	Unit			
5000 Moisture Content					
% Moisture	1	%	-	-	5

Customer Sample ID	TP75 0.9-1.0	TP75 1.9-2.0	TP76 0-0.1	QC26A	TP76 0.2-0.3
Amdel Sample Number	944141	944142	944143	944144	944145
Date Sampled	09/04/2008	09/04/2008	09/04/2008	09/04/2008	09/04/2008
VOC					
Test/Reference	PQL	Unit			
1100 BTEX &(C6-C9) in Soil by P&T					
Benzene	0.2	mg/kg	-	-	<0.2
Ethylbenzene	1	mg/kg	-	-	<1
Meta- & Para- Xylene	2	mg/kg	-	-	<2
Ortho-Xylene	1	mg/kg	-	-	<1
Toluene	1	mg/kg	-	-	<1
Total Xylenes	3	mg/kg	-	-	<3
C6-C9 Fraction	5	mg/kg	-	-	<5
4-Bromofluorobenzene - Surrogate	-	%	-	-	98
SVOC					
Test/Reference	PQL	Unit			

Customer Sample ID	TP75 0.9-1.0	TP75 1.9-2.0	TP76 0-0.1	QC26A	TP76 0.2-0.3
Amdel Sample Number	944141	944142	944143	944144	944145
Date Sampled	09/04/2008	09/04/2008	09/04/2008	09/04/2008	09/04/2008

SVOC	PQL	Unit
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2300 OC Pesticides in Soil by GC-ECD

Test/Reference	PQL	Unit	TP75 0.9-1.0	TP75 1.9-2.0	TP76 0-0.1	QC26A	TP76 0.2-0.3
a-BHC	0.5	mg/kg	-	-	<0.5	-	-
a-Chlordane	0.5	mg/kg	-	-	<0.5	-	-
a-Endosulfan	0.5	mg/kg	-	-	<0.5	-	-
Aldrin	0.5	mg/kg	-	-	<0.5	-	-
b-BHC	0.5	mg/kg	-	-	<0.5	-	-
b-Endosulfan	0.5	mg/kg	-	-	<0.5	-	-
d-BHC	0.5	mg/kg	-	-	<0.5	-	-
DDD	0.5	mg/kg	-	-	<0.5	-	-
DDE	0.5	mg/kg	-	-	<0.5	-	-
DDT	0.5	mg/kg	-	-	<0.5	-	-
Dieldrin	0.5	mg/kg	-	-	<0.5	-	-
Endosulfan sulfate	0.5	mg/kg	-	-	<0.5	-	-
Endrin	0.5	mg/kg	-	-	<0.5	-	-
Endrin Aldehyde	0.5	mg/kg	-	-	<0.5	-	-
g-BHC	0.5	mg/kg	-	-	<0.5	-	-
g-Chlordane	0.5	mg/kg	-	-	<0.5	-	-
Heptachlor	0.5	mg/kg	-	-	<0.5	-	-
Heptachlor epoxide	0.5	mg/kg	-	-	<0.5	-	-
Hexachlorobenzene (HCB)	0.5	mg/kg	-	-	<0.5	-	-
Methoxychlor	0.5	mg/kg	-	-	<0.5	-	-
Oxychlordane	0.5	mg/kg	-	-	<0.5	-	-
2,4,5,6-tetrachloro-m-xylene-SURROG ATE	1	%	-	-	124	-	-

2100 PAH in Soil by GC

Test/Reference	PQL	Unit	TP75 0.9-1.0	TP75 1.9-2.0	TP76 0-0.1	QC26A	TP76 0.2-0.3
Acenaphthene	0.5	mg/kg	-	-	<0.5	-	-
Acenaphthylene	0.5	mg/kg	-	-	<0.5	-	-
Anthracene	0.5	mg/kg	-	-	<0.5	-	-
Benz(a)anthracene	0.5	mg/kg	-	-	<0.5	-	-
Benzo(a)pyrene	0.5	mg/kg	-	-	<0.5	-	-
Benzo(b)&(k)fluoranthene	1	mg/kg	-	-	<1	-	-
Benzo(g,h,i)perylene	0.5	mg/kg	-	-	<0.5	-	-
Chrysene	0.5	mg/kg	-	-	<0.5	-	-
Dibenz(ah)anthracene	0.5	mg/kg	-	-	<0.5	-	-
Fluoranthene	0.5	mg/kg	-	-	<0.5	-	-
Fluorene	0.5	mg/kg	-	-	<0.5	-	-
Indeno(123-cd)pyrene	0.5	mg/kg	-	-	<0.5	-	-
Naphthalene	0.5	mg/kg	-	-	<0.5	-	-
Phenanthrene	0.5	mg/kg	-	-	<0.5	-	-
Pyrene	0.5	mg/kg	-	-	<0.5	-	-
Sum of PAHs	0.5	mg/kg	-	-	<0.5	-	-
2-Fluorobiphenyl - Surrogate	-	%	-	-	112	-	-
p-Terphenyl-D14 - Surrogate	-	%	-	-	110	-	-
Anthracene-d10 - Surrogate	-	%	-	-	120	-	-

2000 TPH (C10 - C36) in Soil by GC

Test/Reference	PQL	Unit	TP75 0.9-1.0	TP75 1.9-2.0	TP76 0-0.1	QC26A	TP76 0.2-0.3
C10-C14 Fraction	10	mg/kg	-	-	<10	-	-
C15-C28 Fraction	20	mg/kg	-	-	<20	-	-
C29-C36 Fraction	20	mg/kg	-	-	<20	-	-

Metals

Test/Reference	PQL	Unit
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Customer Sample ID	TP75 0.9-1.0	TP75 1.9-2.0	TP76 0-0.1	QC26A	TP76 0.2-0.3
Amdel Sample Number	944141	944142	944143	944144	944145
Date Sampled	09/04/2008	09/04/2008	09/04/2008	09/04/2008	09/04/2008

Metals

Test/Reference	PQL	Unit					
3100 Total Metals in Soil By ICP/MS							
Arsenic	2	mg/kg	-	-	<2	-	-
Cadmium	2	mg/kg	-	-	<2	-	-
Chromium	2	mg/kg	-	-	9.5	-	-
Copper	2	mg/kg	-	-	4.0	-	-
Lead	2	mg/kg	-	-	<2	-	-
Nickel	2	mg/kg	-	-	3.3	-	-
Zinc	2	mg/kg	-	-	5.1	-	-

Inorganics

Test/Reference	PQL	Unit					
4000 pH in Soil							
pH	0.1	pH	-	-	6.5	-	-

Miscellaneous

Test/Reference	PQL	Unit					
5000 Moisture Content							
% Moisture	1	%	-	-	1	-	-

Customer Sample ID	TP76 0.4-0.5	TP76 0.9-1.0	TP76 1.9-2.0	TP77 0-0.1	TP77 0.2-0.3
Amdel Sample Number	944146	944147	944148	944149	944150
Date Sampled	09/04/2008	09/04/2008	09/04/2008	09/04/2008	09/04/2008

VOC

Test/Reference	PQL	Unit					
1100 MAH(BTEX & C6-C9) in Soil P&T							
Benzene	0.2	mg/kg	-	-	-	<0.2	-
Cumene	0.5	mg/kg	-	-	-	<0.5	-
Ethylbenzene	1	mg/kg	-	-	-	<1	-
Meta- & Para- Xylene	2	mg/kg	-	-	-	<2	-
Ortho-Xylene	1	mg/kg	-	-	-	<1	-
Styrene	0.5	mg/kg	-	-	-	<0.5	-
Toluene	1	mg/kg	-	-	-	<1	-
Total Xylenes	3	mg/kg	-	-	-	<3	-
C6-C9 Fraction	5	mg/kg	-	-	-	<5	-
4-Bromofluorobenzene - Surrogate	-	%	-	-	-	89	-

SVOC

Test/Reference	PQL	Unit					
2300 OC Pesticides in Soil by GC-ECD							
a-BHC	0.5	mg/kg	-	-	-	<0.5	-
a-Chlordane	0.5	mg/kg	-	-	-	<0.5	-
a-Endosulfan	0.5	mg/kg	-	-	-	<0.5	-
Aldrin	0.5	mg/kg	-	-	-	<0.5	-
b-BHC	0.5	mg/kg	-	-	-	<0.5	-
b-Endosulfan	0.5	mg/kg	-	-	-	<0.5	-
d-BHC	0.5	mg/kg	-	-	-	<0.5	-
DDD	0.5	mg/kg	-	-	-	<0.5	-
DDE	0.5	mg/kg	-	-	-	<0.5	-
DDT	0.5	mg/kg	-	-	-	<0.5	-
Dieldrin	0.5	mg/kg	-	-	-	<0.5	-

Customer Sample ID	TP76 0.4-0.5	TP76 0.9-1.0	TP76 1.9-2.0	TP77 0-0.1	TP77 0.2-0.3
Amdel Sample Number	944146	944147	944148	944149	944150
Date Sampled	09/04/2008	09/04/2008	09/04/2008	09/04/2008	09/04/2008
SVOC					
Test/Reference	PQL	Unit			
Endosulfan sulfate	0.5	mg/kg	-	-	-
Endrin	0.5	mg/kg	-	-	-
Endrin Aldehyde	0.5	mg/kg	-	-	-
g-BHC	0.5	mg/kg	-	-	-
g-Chlordane	0.5	mg/kg	-	-	-
Heptachlor	0.5	mg/kg	-	-	-
Heptachlor epoxide	0.5	mg/kg	-	-	-
Hexachlorobenzene (HCB)	0.5	mg/kg	-	-	-
Methoxychlor	0.5	mg/kg	-	-	-
Oxychlordane	0.5	mg/kg	-	-	-
2,4,5,6-tetrachloro-m-xylene-SURROG ATE	1	%	-	-	-
				99	-
2100 PAH in Soil by GC					
Acenaphthene	0.5	mg/kg	-	-	-
Acenaphthylene	0.5	mg/kg	-	-	-
Anthracene	0.5	mg/kg	-	-	-
Benz(a)anthracene	0.5	mg/kg	-	-	-
Benzo(a)pyrene	0.5	mg/kg	-	-	-
Benzo(b)&(k)fluoranthene	1	mg/kg	-	-	-
Benzo(g,h,i)perylene	0.5	mg/kg	-	-	-
Chrysene	0.5	mg/kg	-	-	-
Dibenz(ah)anthracene	0.5	mg/kg	-	-	-
Fluoranthene	0.5	mg/kg	-	-	-
Fluorene	0.5	mg/kg	-	-	-
Indeno(123-cd)pyrene	0.5	mg/kg	-	-	-
Naphthalene	0.5	mg/kg	-	-	-
Phenanthrene	0.5	mg/kg	-	-	-
Pyrene	0.5	mg/kg	-	-	-
Sum of PAHs	0.5	mg/kg	-	-	-
2-Fluorobiphenyl - Surrogate	-	%	-	-	-
p-Terphenyl-D14 - Surrogate	-	%	-	-	-
Anthracene-d10 - Surrogate	-	%	-	-	-
				90	-
				108	-
				94	-
2600 PCBs in Soil by GC					
Aroclor 1016DB	0.5	mg/kg	-	-	-
Aroclor 1221DB	0.5	mg/kg	-	-	-
Aroclor 1232 and 1242 as totalDB	1	mg/kg	-	-	-
Aroclor 1248 and 1254 as totalDB	1	mg/kg	-	-	-
Aroclor 1260DB	0.5	mg/kg	-	-	-
Total Polychlorinated biphenylsDB	1	mg/kg	-	-	-
Decachlorobiphenyl - PCB surrogate	1	%	-	-	-
				<0.5	-
				<0.5	-
				<1	-
				<1	-
				<0.5	-
				<1	-
				84	-
2000 TPH (C10 - C36) in Soil by GC					
C10-C14 Fraction	10	mg/kg	-	-	-
C15-C28 Fraction	20	mg/kg	-	-	-
C29-C36 Fraction	20	mg/kg	-	-	-
				<10	-
				<20	-
				<20	-
Metals					
Test/Reference	PQL	Unit			
3400 Mercury in Soil by FIMS					
Mercury	0.01	mg/kg	-	-	-
				<0.01	-
3100 Total Metals in Soil By ICP/MS					
Antimony	2	mg/kg	-	-	-
				<2	-

Customer Sample ID	TP76 0.4-0.5	TP76 0.9-1.0	TP76 1.9-2.0	TP77 0-0.1	TP77 0.2-0.3
Amdel Sample Number	944146	944147	944148	944149	944150
Date Sampled	09/04/2008	09/04/2008	09/04/2008	09/04/2008	09/04/2008

Metals

Test/Reference	PQL	Unit					
Arsenic	2	mg/kg	-	-	-	<2	-
Barium	2	mg/kg	-	-	-	28	-
Beryllium	2	mg/kg	-	-	-	<2	-
Boron	2	mg/kg	-	-	-	9.0	-
Cadmium	2	mg/kg	-	-	-	<2	-
Chromium	2	mg/kg	-	-	-	20	-
Cobalt	2	mg/kg	-	-	-	5.5	-
Copper	2	mg/kg	-	-	-	11	-
Lead	2	mg/kg	-	-	-	7.3	-
Manganese	2	mg/kg	-	-	-	190	-
Molybdenum	2	mg/kg	-	-	-	<2	-
Nickel	2	mg/kg	-	-	-	8.6	-
Selenium	2	mg/kg	-	-	-	<2	-
Tin	2	mg/kg	-	-	-	<2	-
Vanadium	2	mg/kg	-	-	-	22	-
Zinc	2	mg/kg	-	-	-	12	-

Inorganics

Test/Reference	PQL	Unit					
4300 Anions in Soil by IC							
Fluoride (Soluble)	2	mg/kg	-	-	-	4	-
4270 Total Cyanide in Soil Colourmetric							
Total Cyanide	0.1	mg/kg	-	-	-	0.4	-
4000 pH in Soil							
pH	0.1	pH	-	-	-	7.8	-
4850 Total Phenolics in Soil by SFA							
Total Phenolics	0.1	mg/kg	-	-	-	<0.1	-
Miscellaneous							
Test/Reference	PQL	Unit					
5000 Moisture Content							
% Moisture	1	%	-	-	-	2	-

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.

Description	Extracted	Analysed
1100 BTEX &(C6-C9) in Soil by P&T	11/04/2008	17/04/2008
1100 MAH(BTEX & C6-C9) in Soil P&T	11/04/2008	17/04/2008
2000 TPH (C10 - C36) in Soil by GC	11/04/2008	14/04/2008
2100 PAH in Soil by GC	11/04/2008	15/04/2008
2300 OC Pesticides in Soil by GC-ECD	11/04/2008	15/04/2008
2600 PCBs in Soil by GC	11/04/2008	15/04/2008
3100 Total Metals in Soil By ICP/MS	17/04/2008	18/04/2008
3400 Mercury in Soil by FIMS	17/04/2008	18/04/2008
4000 pH in Soil		14/04/2008
4270 Total Cyanide in Soil Colourmetric		16/04/2008
4300 Anions in Soil by IC	11/04/2008	14/04/2008
4850 Total Phenolics in Soil by SFA		16/04/2008
5000 Moisture Content		11/04/2008

Amdel Internal Quality Control Review

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. Amdel QC Acceptance/Rejection criteria are available on request.
3. Proficiency trial results are available on request.
4. Actual PQLs are matrix dependant. Quotes PQLs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spike or surrogate recoveries.
6. Test samples duplicated or spiked, are for this job only and are identified in the following QC report.
7. SVOC analyses on waters are performed on homogenized, unfiltered sample, unless noted otherwise.
8. When individual results are qualified in the body of a report, refer to the qualifier descriptions that follow.

Holding Times

Please refer to 'Sampling and Preservation Chart for Soils & Waters' for holding times. (Form LM-FOR-ADM-020)

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgement.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitability qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT an RPD

Quality Control Results

Laboratory: **EN_METALS**

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
955190 [Method Blank]							
3400 Mercury in Soil by FIMS							
Mercury	mg/kg	<0.01			< 0.01	T	
955437 [Method Blank]							
3100 Metals in Soil - As Received							
Antimony	mg/kg	<2			< 2	T	
Arsenic	mg/kg	<2			< 2	T	
Barium	mg/kg	<2			< 2	T	
Beryllium	mg/kg	<2			< 2	T	
Cadmium	mg/kg	<2			< 2	T	
Chromium	mg/kg	<2			< 2	T	
Cobalt	mg/kg	<2			< 2	T	
Copper	mg/kg	<2			< 2	T	
Lead	mg/kg	<2			< 2	T	
Manganese	mg/kg	<2			< 2	T	
Molybdenum	mg/kg	<2			< 2	T	
Nickel	mg/kg	<2			< 2	T	
Selenium	mg/kg	<2			< 2	T	
Tin	mg/kg	<2			< 2	T	
Vanadium	mg/kg	<2			< 2	T	
Zinc	mg/kg	<2			< 2	T	
955191 [Laboratory Control Sample]							
3400 Mercury in Soil by FIMS							
Mercury	mg/kg	9.3	Expected Value	Percent Recovery	80-120 %	T	
			10.0	93			

Laboratory: EN_METALS

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
955438 [Laboratory Control Sample]							
3100 Metals in Soil - As Received			Expected Value	Percent Recovery			
Antimony	mg/kg	100	100.0	100	70-130 %	T	
Arsenic	mg/kg	100	100.0	102	70-130 %	T	
Barium	mg/kg	100	100.0	104	70-130 %	T	
Beryllium	mg/kg	98	100.0	98	70-130 %	T	
Boron	mg/kg	110	100.0	112	70-130 %	T	
Cadmium	mg/kg	100	100.0	104	70-130 %	T	
Chromium	mg/kg	100	100.0	103	70-130 %	T	
Cobalt	mg/kg	110	100.0	111	70-130 %	T	
Copper	mg/kg	110	100.0	114	70-130 %	T	
Lead	mg/kg	94	100.0	94	70-130 %	T	
Manganese	mg/kg	110	100.0	113	70-130 %	T	
Molybdenum	mg/kg	120	100.0	116	70-130 %	T	
Nickel	mg/kg	120	100.0	116	70-130 %	T	
Selenium	mg/kg	89	100.0	89	70-130 %	T	
Tin	mg/kg	110	100.0	114	70-130 %	T	
Vanadium	mg/kg	100	100.0	104	70-130 %	T	
Zinc	mg/kg	95	100.0	95	70-130 %	T	
944207 [Duplicate of 944106]							
3100 Total Metals in Soil By ICP/MS			Result 2	RPD			
Arsenic	mg/kg	5.6	5.3	5	0-30 %	T	
Cadmium	mg/kg	<2	<2	<1	0-30 %	T	
Chromium	mg/kg	28	27	5	0-30 %	T	
Copper	mg/kg	1100	1100	1	0-30 %	T	
Lead	mg/kg	9.7	9.1	7	0-30 %	T	
Nickel	mg/kg	16	16	<1	0-30 %	T	
Zinc	mg/kg	35	32	10	0-30 %	T	
944213 [Spike of 944112]							
3100 Total Metals in Soil By ICP/MS			Spike Value	Percent Recovery			
Arsenic	mg/kg	100	100.0	100	70-130 %	T	
Cadmium	mg/kg	100	100.0	103	70-130 %	T	
Chromium	mg/kg	150	100.0	112	70-130 %	T	
Copper	mg/kg	130	100.0	113	70-130 %	T	
Lead	mg/kg	110	100.0	97	70-130 %	T	
Nickel	mg/kg	150	100.0	125	70-130 %	T	
Zinc	mg/kg	120	100.0	100	70-130 %	T	

Laboratory: EN_SVOC

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
944954 [Method Blank]							
2000 TPH (C10 - C36) in Soil by GC							
C10-C14 Fraction	mg/kg	<10			< 10	T	
C15-C28 Fraction	mg/kg	<20			< 20	T	
C29-C36 Fraction	mg/kg	<20			< 20	T	

Laboratory: EN_SVOC

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
944956 [Method Blank]							
2100 PAH in Soil by GC							
Acenaphthene	mg/kg	<0.5			< 0.5	T	
Acenaphthylene	mg/kg	<0.5			< 0.5	T	
Anthracene	mg/kg	<0.5			< 0.5	T	
Benz(a)anthracene	mg/kg	<0.5			< 0.5	T	
Benzo(a)pyrene	mg/kg	<0.5			< 0.5	T	
Benzo(b)&(k)fluoranthene	mg/kg	<1			< 1	T	
Benzo(g,h,i)perylene	mg/kg	<0.5			< 0.5	T	
Chrysene	mg/kg	<0.5			< 0.5	T	
Dibenz(ah)anthracene	mg/kg	<0.5			< 0.5	T	
Fluoranthene	mg/kg	<0.5			< 0.5	T	
Fluorene	mg/kg	<0.5			< 0.5	T	
Indeno(123-cd)pyrene	mg/kg	<0.5			< 0.5	T	
Naphthalene	mg/kg	<0.5			< 0.5	T	
Phenanthrene	mg/kg	<0.5			< 0.5	T	
Pyrene	mg/kg	<0.5			< 0.5	T	
Sum of PAHs	mg/kg	<0.5			< 0.5	T	
2-Fluorobiphenyl - Surrogate	%	104			70-130 %	T	
Anthracene-d10 - Surrogate	%	110			70-130 %	T	
p-Terphenyl-D14 - Surrogate	%	124			70-130 %	T	
2300 OC Pesticides in Soil by GC-ECD							
a-BHC	mg/kg	<0.5			< 0.5	T	
a-Chlordane	mg/kg	<0.5			< 0.5	T	
a-Endosulfan	mg/kg	<0.5			< 0.5	T	
Aldrin	mg/kg	<0.5			< 0.5	T	
b-BHC	mg/kg	<0.5			< 0.5	T	
b-Endosulfan	mg/kg	<0.5			< 0.5	T	
d-BHC	mg/kg	<0.5			< 0.5	T	
DDD	mg/kg	<0.5			< 0.5	T	
DDE	mg/kg	<0.5			< 0.5	T	
DDT	mg/kg	<0.5			< 0.5	T	
Dieldrin	mg/kg	<0.5			< 0.5	T	
Endosulfan sulfate	mg/kg	<0.5			< 0.5	T	
Endrin	mg/kg	<0.5			< 0.5	T	
Endrin Aldehyde	mg/kg	<0.5			< 0.5	T	
g-BHC	mg/kg	<0.5			< 0.5	T	
g-Chlordane	mg/kg	<0.5			< 0.5	T	
Heptachlor	mg/kg	<0.5			< 0.5	T	
Heptachlor epoxide	mg/kg	<0.5			< 0.5	T	
Hexachlorobenzene (HCB)	mg/kg	<0.5			< 0.5	T	
Methoxychlor	mg/kg	<0.5			< 0.5	T	
Oxychlordane	mg/kg	<0.5			< 0.5	T	
2,4,5,6-tetrachloro-m-xylene-SURROGATE	%	116			70-130 %	T	
944955 [Laboratory Control Sample]							
2000 TPH (C10 - C36) in Soil by GC							
			Expected Value	Percent Recovery			
C10-C14 Fraction	mg/kg	140	125.0	113	70-130 %	T	
C15-C28 Fraction	mg/kg	160	125.0	126	70-130 %	T	
C29-C36 Fraction	mg/kg	140	125.0	114	70-130 %	T	

Laboratory: EN_SVOC

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
944208 [Duplicate of 944106]							
2300 OC Pesticides in Soil by GC-ECD			Result 2	RPD			
a-BHC	mg/kg	<0.5	<0.5	<1	0-30 %	T	
a-Chlordane	mg/kg	<0.5	<0.5	<1	0-30 %	T	
a-Endosulfan	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Aldrin	mg/kg	<0.5	<0.5	<1	0-30 %	T	
b-BHC	mg/kg	<0.5	<0.5	<1	0-30 %	T	
b-Endosulfan	mg/kg	<0.5	<0.5	<1	0-30 %	T	
d-BHC	mg/kg	<0.5	<0.5	<1	0-30 %	T	
DDD	mg/kg	<0.5	<0.5	<1	0-30 %	T	
DDE	mg/kg	<0.5	<0.5	<1	0-30 %	T	
DDT	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Dieldrin	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Endosulfan sulfate	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Endrin	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Endrin Aldehyde	mg/kg	<0.5	<0.5	<1	0-30 %	T	
g-BHC	mg/kg	<0.5	<0.5	<1	0-30 %	T	
g-Chlordane	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Heptachlor	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Heptachlor epoxide	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Hexachlorobenzene (HCB)	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Methoxychlor	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Oxychlordane	mg/kg	<0.5	<0.5	<1	0-30 %	T	
2,4,5,6-tetrachloro-m-xylene-SURROGATE	%	100			70-130 %	T	
944209 [Duplicate of 944106]							
2100 PAH in Soil by GC			Result 2	RPD			
Acenaphthene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Acenaphthylene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Anthracene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Benz(a)anthracene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Benzo(a)pyrene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Benzo(b)&(k)fluoranthene	mg/kg	<1	<1	<1	0-30 %	T	
Benzo(g,h,i)perylene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Chrysene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Dibenz(ah)anthracene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Fluoranthene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Fluorene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Indeno(123-cd)pyrene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Naphthalene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Phenanthrene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Pyrene	mg/kg	<0.5	<0.5	<1	0-30 %	T	
Sum of PAHs	mg/kg	<0.5	<0.5	<1	0-30 %	T	
2-Fluorobiphenyl - Surrogate	%	90			70-130 %	T	
p-Terphenyl-D14 - Surrogate	%	82			70-130 %	T	
944211 [Duplicate of 944106]							
2000 TPH (C10 - C36) in Soil by GC			Result 2	RPD			
C10-C14 Fraction	mg/kg	<10	<10	<1	0-30 %	T	
C15-C28 Fraction	mg/kg	<20	21	5	0-30 %	T	
C29-C36 Fraction	mg/kg	27	38	35	0-30 %	F	

Laboratory: EN_SVOC

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
944214 [Spike of 944112]							
2300 OC Pesticides in Soil by GC-ECD			Spike Value	Percent Recovery			
a-BHC	mg/kg	1.6	2.0	79	70-130 %	T	
a-Chlordane	mg/kg	1.6	2.0	81	70-130 %	T	
a-Endosulfan	mg/kg	2.0	2.0	98	70-130 %	T	
Aldrin	mg/kg	1.5	2.0	74	70-130 %	T	
b-BHC	mg/kg	1.5	2.0	71	70-130 %	T	
b-Endosulfan	mg/kg	1.8	2.0	92	70-130 %	T	
d-BHC	mg/kg	1.7	2.0	84	70-130 %	T	
DDD	mg/kg	1.8	2.0	90	70-130 %	T	
DDE	mg/kg	2.0	2.0	96	70-130 %	T	
DDT	mg/kg	1.4	2.0	70	70-130 %	T	
Dieldrin	mg/kg	1.9	2.0	96	70-130 %	T	
Endosulfan sulfate	mg/kg	1.3	2.0	66	70-130 %	F	
Endrin	mg/kg	1.6	2.0	82	70-130 %	T	
Endrin Aldehyde	mg/kg	1.7	2.0	85	70-130 %	T	
g-BHC	mg/kg	1.6	2.0	78	70-130 %	T	
g-Chlordane	mg/kg	1.7	2.0	84	70-130 %	T	
Heptachlor	mg/kg	1.3	2.0	65	70-130 %	F	
Heptachlor epoxide	mg/kg	1.9	2.0	94	70-130 %	T	
Hexachlorobenzene (HCB)	mg/kg	1.7	2.0	86	70-130 %	T	
Methoxychlor	mg/kg	1.4	2.0	69	70-130 %	F	
Oxychlordane	mg/kg	<0.5	N/A	N/A	N/A	N/A	
2,4,5,6-tetrachloro-m-xylene-SURROGATE	%	98			70-130 %	T	
944215 [Spike of 944112]							
2100 PAH in Soil by GC			Spike Value	Percent Recovery			
Acenaphthene	mg/kg	1.8	2.0	92	70-130 %	T	
Acenaphthylene	mg/kg	1.7	2.0	85	70-130 %	T	
Anthracene	mg/kg	1.8	2.0	92	70-130 %	T	
Benz(a)anthracene	mg/kg	1.8	2.0	90	70-130 %	T	
Benzo(a)pyrene	mg/kg	1.8	2.0	89	70-130 %	T	
Benzo(b)&(k)fluoranthene	mg/kg	3.5	4.0	87	70-130 %	T	
Benzo(g,h,i)perylene	mg/kg	1.8	2.0	91	70-130 %	T	
Chrysene	mg/kg	1.8	2.0	90	70-130 %	T	
Dibenz(ah)anthracene	mg/kg	1.8	2.0	91	70-130 %	T	
Fluoranthene	mg/kg	2.0	2.0	100	70-130 %	T	
Fluorene	mg/kg	1.7	2.0	86	70-130 %	T	
Indeno(123-cd)pyrene	mg/kg	1.8	2.0	91	70-130 %	T	
Naphthalene	mg/kg	1.8	2.0	91	70-130 %	T	
Phenanthrene	mg/kg	1.8	2.0	92	70-130 %	T	
Pyrene	mg/kg	1.9	2.0	96	70-130 %	T	
Sum of PAHs	mg/kg	29	32.0	91	70-130 %	T	
2-Fluorobiphenyl - Surrogate	%	90			70-130 %	T	
Anthracene-d10 - Surrogate	%	96			70-130 %	T	
p-Terphenyl-D14 - Surrogate	%	106			70-130 %	T	
944216 [Spike of 944112]							
2000 TPH (C10 - C36) in Soil by GC			Spike Value	Percent Recovery			
C10-C14 Fraction	mg/kg	120	125.0	97	70-130 %	T	
C15-C28 Fraction	mg/kg	120	125.0	99	70-130 %	T	
C29-C36 Fraction	mg/kg	120	125.0	96	70-130 %	T	

Laboratory: EN_VOC

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
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Laboratory: EN_VOC

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
946314 [Method Blank]							
1100 BTEX in Soil by P&T							
Benzene	mg/kg	<0.2			< 0.2	T	
C6-C9 Fraction	mg/kg	<5.0			< 5	T	
Ethylbenzene	mg/kg	<1.0			< 1	T	
Meta- & Para- Xylene	mg/kg	<2.0			< 2	T	
Ortho-Xylene	mg/kg	<1.0			< 1	T	
Toluene	mg/kg	<1.0			< 1	T	
Total Xylenes	mg/kg	<3.0			< 3	T	
4-Bromofluorobenzene - Surrogate	%	79			70-130 %	T	
946316 [Laboratory Control Sample]							
1100 BTEX in Soil by P&T							
			Expected Value	Percent Recovery			
Benzene	mg/kg	4.2	5.0	84	70-130 %	T	
C6-C9 Fraction	mg/kg	43	50.0	86	70-130 %	T	
Ethylbenzene	mg/kg	4.1	5.0	82	70-130 %	T	
Meta- & Para- Xylene	mg/kg	8.1	10.0	81	70-130 %	T	
Ortho-Xylene	mg/kg	4.3	5.0	86	70-130 %	T	
Toluene	mg/kg	4.2	5.0	84	70-130 %	T	
Total Xylenes	mg/kg	12	N/A	N/A	N/A	N/A	
4-Bromofluorobenzene - Surrogate	%	85			70-130 %	T	
944200 [Duplicate of 944106]							
1100 BTEX &(C6-C9) in Soil by P&T							
			Result 2	RPD			
Benzene	mg/kg	<0.2	<0.2	<1	0-30 %	T	
C6-C9 Fraction	mg/kg	<5	<5	<1	0-30 %	T	
Ethylbenzene	mg/kg	<1	<1	<1	0-30 %	T	
Meta- & Para- Xylene	mg/kg	<2	<2	<1	0-30 %	T	
Ortho-Xylene	mg/kg	<1	<1	<1	0-30 %	T	
Toluene	mg/kg	<1	<1	<1	0-30 %	T	
Total Xylenes	mg/kg	<3	<3	N/A	N/A	N/A	
4-Bromofluorobenzene - Surrogate	%	89			70-130 %	T	
944212 [Spike of 944112]							
1100 BTEX &(C6-C9) in Soil by P&T							
			Spike Value	Percent Recovery			
Benzene	mg/kg	4.1	5.0	82	70-130 %	T	
C6-C9 Fraction	mg/kg	39	50.0	75	70-130 %	T	
Ethylbenzene	mg/kg	4.0	5.0	81	70-130 %	T	
Meta- & Para- Xylene	mg/kg	8.0	10.0	80	70-130 %	T	
Ortho-Xylene	mg/kg	4.2	5.0	84	70-130 %	T	
Sample Weight	-	9.3	N/A	N/A	N/A	N/A	
Toluene	mg/kg	4.3	5.0	86	70-130 %	T	
Total Xylenes	mg/kg	12	N/A	N/A	N/A	N/A	
4-Bromofluorobenzene - Surrogate	%	86			70-130 %	T	

Laboratory: EN_WATERS

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
945778 [Method Blank]							
4300 Anions in Soil by IC							
Bromide (Soluble)	mg/kg	<2			< 2	T	
Chloride (Soluble)	mg/kg	<2			< 2	T	
Fluoride (Soluble)	mg/kg	<2			< 2	T	
Nitrate (Soluble)	mg/kg	<2			< 2	T	
Nitrite (Soluble)	mg/kg	<2			< 2	T	
Orthophosphorus (Soluble)	mg/kg	<2			< 2	T	
Sulphate (Soluble)	mg/kg	<2			< 2	T	
947824 [Method Blank]							
4270 Total Cyanide in Soil Colourmetric							
Total Cyanide	mg/kg	<0.1			< 0.1	T	
949939 [Method Blank]							
4850 Total Phenolics in Soil by SFA							
Total Phenolics	mg/kg	<0.1			< 0.1	T	

Laboratory: **EN_WATERS**

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
945780 [Laboratory Control Sample]							
4300 Anions in Soil by IC			Expected Value	Percent Recovery			
Bromide (Soluble)	mg/kg	550	500.0	110	75-125 %	T	
Chloride (Soluble)	mg/kg	540	500.0	108	75-125 %	T	
Fluoride (Soluble)	mg/kg	520	500.0	104	75-125 %	T	
Nitrate (Soluble)	mg/kg	580	500.0	116	75-125 %	T	
Nitrite (Soluble)	mg/kg	530	500.0	106	75-125 %	T	
Orthophosphorus (Soluble)	mg/kg	490	500.0	98	75-125 %	T	
Sulphate (Soluble)	mg/kg	510	500.0	102	75-125 %	T	
947827 [Laboratory Control Sample]							
4270 Total Cyanide in Soil Colourmetric			Expected Value	Percent Recovery			
Total Cyanide	mg/kg	0.5	N/A	N/A	N/A	N/A	
949852 [Laboratory Control Sample]							
4000 pH in Soil			Expected Value	Percent Recovery			
pH	pH	7.4	N/A	N/A	N/A	N/A	
949941 [Laboratory Control Sample]							
4850 Total Phenolics in Soil by SFA			Expected Value	Percent Recovery			
Total Phenolics	mg/kg	0.6	0.5	110	70-130 %	T	
944210 [Duplicate of 944106]							
4000 pH in Soil			Result 2	RPD			
pH	pH	8.0	7.8	0.2	0-0.5 pH	T	

Sample Integrity


Attempt to Chill was evident	Yes
Samples correctly preserved	Yes
Organic samples had Teflon liners	Yes
Samples received with Zero Headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Authorised By

Ruth Callander	Client Services Officer	
Alex Petridis	Senior Analyst - SVOC	Accreditation Number: 1645
Mark Herbstreit	Senior Analyst - Metals	Accreditation Number: 1645
Helen Lei	Senior Analyst - Waters	Accreditation Number: 1645
Khoa Pham	Analyst - VOC	Accreditation Number: 1645

Laboratory Manager

Anthony Crane Operations Manager



Final Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

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The samples were not collected by Amdel staff.

Appendix D

Chain of Custody Forms - Soil

Appendix D

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Connell Wagner

FIXED
 23/11/08
 OK

JOB# E035990

CHAIN OF CUSTODY FORM

Job No. 31495 Date Required _____ Sheet 1 of 7

Investigator				Sample Matrix				Sample Preservation				Analysis												
name, address, ph & fax nos. Contact Person: <u>Connell Wagner</u> <u>April Freeman</u>				WATER	SOIL	SLUDGE	OTHER (PLEASE SPECIFY)	COMPOSITE	ICE	HNO3/HCl	UNPRESERVED	OTHER (PLEASE SPECIFY)	As, B, Be, Cd, Cu, Mn, Hg, Zn, Cr & Pb <u>+ CA VI</u>	TPH: MA-30	PAH: TOR-3-0-19GL <u>& off</u>	OCP: Drinking Water	PCB: TOR-0-001-19GL	TDS: APHA 254 OC	pH: APHA 4500 H+	SULFATE SULPHUR Schönbein (not attached)	BTEX: Benzene: TOR-0-001-19GL	PHENOXY ACID Herbicides	VC EPA SCREEN (ALS)	
Site: <u>Buckland Park</u>																								
Laboratory																								
name, address & fax no. <u>Labmark</u>																								
Contact Person:																								
Courier																								
name, address, ph & fax nos.																								
Contact Person:																								
Sample ID	Container	Sampling		WATER	SOIL	SLUDGE	OTHER (PLEASE SPECIFY)	COMPOSITE	ICE	HNO3/HCl	UNPRESERVED	OTHER (PLEASE SPECIFY)	As, B, Be, Cd, Cu, Mn, Hg, Zn, Cr & Pb <u>+ CA VI</u>	TPH: MA-30	PAH: TOR-3-0-19GL <u>& off</u>	OCP: Drinking Water	PCB: TOR-0-001-19GL	TDS: APHA 254 OC	pH: APHA 4500 H+	SULFATE SULPHUR Schönbein (not attached)	BTEX: Benzene: TOR-0-001-19GL	PHENOXY ACID Herbicides	VC EPA SCREEN (ALS)	
		Date	Time																					
138208	TP1 0.05-0.15	Glass jar	19/01/08	-	✓				✓				✓	✓	✓	✓				✓	✓	✓	✓	
138209	TP1 0.4-0.5	"	18/01/08	-	✓				✓				✓							✓	✓	✓	✓	
138210	TP1 0.9-1.0	"	18/01/08	-	✓				✓				✓							✓	✓	✓	✓	
138211	TP1 1.9-2.0	"	18/01/08	-	✓				✓				✓							✓	✓	✓	✓	
138212	TP2 0.05-0.15	"	"	-	✓				✓				✓	✓	✓	✓				✓	✓	✓	✓	
138213	QL1	"	"	-	✓				✓				✓							✓	✓	✓	✓	
138215	QL2	"	"	-	✓				✓				✓							✓	✓	✓	✓	
138215	TP2 0.4-0.5	"	"	-	✓				✓				✓							✓	✓	✓	✓	
138216	TP2 0.9-1.0	"	"	-	✓				✓				✓							✓	✓	✓	✓	
138217	TP2 1.9-2.0	"	"	-	✓				✓				✓							✓	✓	✓	✓	
138218	TP3 0.05-0.15	"	"	-	✓				✓				✓	✓	✓	✓				✓	✓	✓	✓	
138219	TP3 0.2-0.25	"	"	-	✓				✓				✓							✓	✓	✓	✓	
138220	TP3 0.4-0.5	"	"	-	✓				✓				✓							✓	✓	✓	✓	
138221	TP3 0.9-1.0	"	"	-	✓				✓				✓							✓	✓	✓	✓	

CAB#

PLEASE FORWARD TO SECONDARY LAB (ALS)

Investigator: I attest that the proper field sampling procedures were used during the collection of these samples
 Samplers Name: April Freeman (print and signature) dfreeman (Date) 18/01/08

Relinquished by: (print and signature) <u>April Freeman</u> <u>dfreeman</u>	Date <u>22/1/08</u>	Time <u>12:00</u>	Received by: (print and signature) <u>Olivia Labmark</u>	Date <u>23/1</u>	Time <u>11 am</u>
Relinquished by: (print and signature)	Date	Time	Received by: (print and signature) <u>Olivia Leanne</u>	Date <u>24/1</u>	Time <u>8 am</u>

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Connell Wagner

FAXED
 1231 @ 11:30pm
 OK

JOB# E035990

CHAIN OF CUSTODY FORM

Job No. 31495 Date Required _____ Sheet 2 of 7

Investigator Connell Wagner
 name, address, ph & fax nos.
 Contact Person: April Freeman

Site Buckland Park

Laboratory Labmark
 name, address & fax no.
 Contact Person:

Courier
 name, address, ph & fax nos.
 Contact Person:

Sample ID	Container	Sampling		WATER	SOIL	SLUDGE	OTHER (PLEASE SPECIFY)	COMPOSITE	ICE	HNO3/HCl	UNPRESERVED	OTHER (PLEASE SPECIFY)	As, B, Ba, Cd, Cu, Mn, Hg, Zn, Cr & Pb + Cr VI	TPH; MA-30	PAH; LOR-0.01µg/L	OCP; Drinking Water + OPP	PCB; LOR 0.01 µg/L	TDS; APHA 254 OC	pH; APHA 4500 H+	SULFATE + SULPHUR (Sulfate + Sulfur attached)	BTEX; Benzene; LOR 0.004 mg/L	PHENOXY ACID HERBICIDES	VIC EPA SCREEN 448	
		Date	Time																					
13822 TP4 0.05-0.15	Glass jar	18/01/08	-		✓				✓				✓	✓	✓	✓				✓	✓	✓		
13823 QCS	"	"	-		✓				✓															
13824 TP4 0.4-0.5	"	"	-		✓				✓															
13825 TP5 0.05-0.15	"	"	-		✓				✓											✓	✓		✓	✓
13826 TP5 0.2-0.25	"	"	-		✓				✓															
13827 TP5 0.4-0.5	"	"	-		✓				✓															
13828 QL4	"	"	-		✓				✓															
13829 QLS	"	"	-		✓				✓															
13830 TP5 0.9-1.0	"	"	-		✓				✓															
13831 TP6 0.05-0.15	"	"	-		✓				✓				✓	✓	✓	✓				✓	✓	✓	✓	✓
13832 TP6 0.4-0.5	"	"	-		✓				✓															
13833 TP6 0.9-1.0	"	"	-		✓				✓															
138234 TP7 0.05-0.15	"	"	-		✓				✓				✓	✓	✓	✓				✓	✓	✓	✓	✓
138235 TP7 0.4-0.5	"	"	-		✓				✓															

CAB #

- 13822
- 13823
- 13824
- 13825
- 13826
- 13827
- 13828
- 13829
- 13830
- 13831
- 13832
- 138233
- 138234
- 138235

Investigator: I attest that the proper field sampling procedures were used during the collection of these samples
 Samplers Name: April Freeman (print and signature) (Date) 18/01/08

Relinquished by: April Freeman (print and signature) Date 22/1/08 Time 12:00
 Received by: Ola Labmark (print and signature) Date 23/1 Time 11 am

Relinquished by: _____ (print and signature) Date _____ Time _____
 Received by: Ola (print and signature) Date 24/1/08 Time 8 am

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Connell Wagner

23/1 @ 11:30 AM
 04

JOB# ED35990

CHAIN OF CUSTODY FORM

Job No. 31495 Date Required _____ Sheet 3 of 7

Investigator name, address, ph & fax nos. Contact Person: <u>April Freeman</u>				Sample Matrix				Sample Preservation				Analysis												
Site <u>Buckland Park</u>				WATER	SOIL	SLUDGE	OTHER (PLEASE SPECIFY)	COMPOSITE	ICE	HNO3/HCl	UNPRESERVED	OTHER (PLEASE SPECIFY)	As, B, Be, Cd, Cu, Mn, Hg, Zn, Cr & Pb <u>TCV</u>	TPH; MA-30	PAH; <u>FOR 9-9 night</u>	OCP; <u>Dinking water + off</u>	PCB; <u>FOR 0.001 ug/L</u>	TDS; APHA 254 OC	pH; APHA 4500 H+	SULFIDES & SULFUR <u>Gonorrhea (refer attached)</u>	BTEX; <u>FOR 0.001 mg/L</u>	PEROXY ACIDS <u>NOX BICIDES</u>	VIC <u>FOR SCREEN 448</u>	
Sample ID	Container	Sampling																						
		Date	Time																					
138236	TP7 0.9-1.0	glass jar	18/01/08	-	✓				✓															
138237	TP7 1.9-2.0	"	"	-	✓				✓															
138238	TP4 0.9-1.0	"	"	-	✓				✓															
138239	TP8 0.05-0.15	"	21/01/08	-	✓				✓				✓	✓	✓	✓			✓	✓	✓	✓		
138240	QL6	"	21/01/08	-	✓				✓															
138241	QL7	"	21/01/08	-	✓				✓															
138242	TP8 0.5-0.6	"	21/01/08	-	✓				✓															
138243	TP8 0.9-1.0	"	21/01/08	-	✓				✓															
138244	TP8 1.9-2.0	"	"	-	✓				✓															
138245	TP9 0.05-0.15	"	"	-	✓				✓				✓	✓	✓	✓			✓	✓	✓	✓		
138246	TP9 0.4-0.5	"	"	-	✓				✓															
138247	TP9 0.9-1.0	"	"	-	✓				✓															
138248	TP10 0.05-0.15	"	"	-	✓				✓										✓	✓	✓	✓		
138249	TP10 0.4-0.5	"	"	-	✓				✓															

Investigator: I attest that the proper field sampling procedures were used during the collection of these samples. Samplers Name: April Freeman (print and signature) dfreeman (Date) 18/01/08

Relinquished by: April Freeman (print and signature) Date 22/1/08 Time 12:00 Received by: Ola Labmark (print and signature) Date 23/1 Time 11 am

Relinquished by: _____ (print and signature) Date _____ Time _____ Received by: Ola (print and signature) Date 24/1 Time 8 am

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Connell Wagner

PAID
 23/1 @ 1:30pm
 OH

JOB# E035990

CHAIN OF CUSTODY FORM

Job No. **31495** Date Required _____ Sheet **4** of **7**

Investigator **Connell Wagner**
 name, address, ph & fax nos.
 Contact Person: **April Freeman**

Site **Buckland Park**

Laboratory **Labmark**
 name, address & fax no.
 Contact Person:

Courier
 name, address, ph & fax nos.
 Contact Person:

Sample ID Container Sampling Date Time

Sample ID	Container	Sampling		WATER	SOIL	SLUDGE	OTHER (PLEASE SPECIFY)	COMPOSITE	ICE	HNO3/HCl	UNPRESERVED	OTHER (PLEASE SPECIFY)	Analysis									
		Date	Time										As, B, Be, Cd, Cu, Mn, Hg, Zn, Cr & Pb +CCVI	TPH: MA-30	PAH: LOB 3.0 µg/L	OCF: Drinking Water + off	PCB: LOB 0.001 µg/L	TDS: ALPHA 254 OC	pH: ALPHA 4500 H+	SULFATE + SULPHUR Sulfate	BTEX: Benzene-LOB 0.001 µg/L	PHENOXY ACID HERBICIDES
138250 TPI0 0.9-1.0	Glass jar	21/01/08	-		✓				✓				✓	✓	✓	✓			✓	✓	✓	✓
138251 TPI1 0.05-0.15	"	"	-		✓				✓				✓	✓	✓	✓			✓	✓	✓	✓
138252 TPI1 0.4-0.5	"	"	-		✓				✓				✓	✓	✓	✓			✓	✓	✓	✓
138253 QC 8	"	"	-		✓				✓				✓	✓	✓	✓			✓	✓	✓	✓
138254 TPI1 0.9-1.0	"	"	-		✓				✓				✓	✓	✓	✓			✓	✓	✓	✓
138255 TPI2 0.05-0.15	"	"	-		✓				✓				✓	✓	✓	✓			✓	✓	✓	✓
138256 TPI2 0.4-0.5	"	"	-		✓				✓				✓	✓	✓	✓			✓	✓	✓	✓
138257 TPI2 0.9-1.0	"	"	-		✓				✓				✓	✓	✓	✓			✓	✓	✓	✓
138258 TPI2 1.9-2.0	"	"	-		✓				✓				✓	✓	✓	✓			✓	✓	✓	✓
138259 TPI3 0.05-0.15	"	"	-		✓				✓				✓	✓	✓	✓			✓	✓	✓	✓
138260 TPI3 0.4-0.5	"	"	-		✓				✓				✓	✓	✓	✓			✓	✓	✓	✓
138261 TPI3 0.9-1.0	"	"	-		✓				✓				✓	✓	✓	✓			✓	✓	✓	✓
138262 TPI3 1.9-2.0	"	"	-		✓				✓				✓	✓	✓	✓			✓	✓	✓	✓
138263 TPI4 0.05-0.15	"	"	-		✓				✓				✓	✓	✓	✓			✓	✓	✓	✓

Investigator: I attest that the proper field sampling procedures were used during the collection of these samples
 Samplers Name: **April Freeman** (print and signature) (Date) **22/01/08**

Relinquished by: **Joe Piccini** (print and signature) Date **22/1/08** Time **12:00**
 Received by: **Ola Labmark** (print and signature) Date **23/1** Time **11 am**

Relinquished by: _____ (print and signature) Date _____ Time _____
 Received by: **Leanne** (print and signature) Date **24/1** Time **8 am**

LAB#

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Connell Wagner

F/A 123/1 @ 11:30pm
OH

JOB # E035990

CHAIN OF CUSTODY FORM

Job No. 31495					Date Required					Sheet 5 of 7															
Investigator name, address, ph & fax nos. Contact Person: April Freeman					Sample Matrix					Sample Preservation					Analysis										
Site Buckland Park					WATER	SOIL	SLUDGE	OTHER (PLEASE SPECIFY)	COMPOSITE	ICE	HNO3/HCl	UNPRESERVED	OTHER (PLEASE SPECIFY)	As, B, Be, Cd, Cu, Mn, Hg, Zn, Cr & Pb + CC-VI	TPH: MA-30	PAH: LOR-8-6-19/L	OCP: Drinking Water + Off	PCB: LOR-0-001-4/L	TDS: APHA 254 OC	PH: APHA 4500 H+	SULFATE + SULPHUR Solvents (refer attached)	BTEX: Benzene-TOR 0-001 mg/L	PHENOXY ACID HERBICIDES	VIC EPA SCREEN 448	
Laboratory name, address & fax no. Contact Person: Labmark		Courier name, address, ph & fax nos. Contact Person:		Sample ID																					Container
138264 TP14 0.4-0.5 Glass jar 21/01/08						✓				✓															
138265 TP14 0.9-1.0 " " " "						✓				✓															
138266 TP14 1.9-2.0 " " " "						✓				✓				✓											
138267 TP15 0.05-0.15 " " " "						✓				✓									✓	✓			✓	✓	
138268 TP15 0.4-0.5 " " " "						✓				✓															
138269 TP15 0.9-1.0 " " " "						✓				✓															
138270 TP16 0.05-0.15 " " " "						✓				✓			✓	✓	✓	✓			✓	✓		✓	✓		
138271 QL9 " " " "						✓				✓									✓	✓					
138272 QL10 " " " "						✓				✓									✓	✓					
138273 TP16 0.4-0.5 " " " "						✓				✓															
138274 TP16 0.9-1.0 " " " "						✓				✓															
138275 TP17 0.05-0.15 " " " "						✓				✓			✓	✓	✓	✓			✓	✓		✓	✓		
138276 TP17 0.4-0.5 " " " "						✓				✓															
138277 TP17 0.9-1.0 " " " "						✓				✓															
Investigator: I attest that the proper field sampling procedures were used during the collection of these samples										Samplers Name: April Freeman (print and signature) (Date) 22/01/08															
Relinquished by: Joe Pedicin (print and signature)					Date: 22/1/08					Time: 12:00					Received by: Ola Labmark (print and signature) (Date) 23/1					Time: 11 am					
Relinquished by: (print and signature)					Date:					Time:					Received by: (print and signature) (Date) 24/1					Time: 8 am					

LAB#

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Connell Wagner

Job # 0035990

23/1 @ 11:30pm
 OK

CHAIN OF CUSTODY FORM

Job No. 31495 Date Required _____ Sheet 6 of 7

Investigator name, address, ph & fax nos. Contact Person: Site				Sample Matrix				Sample Preservation				Analysis												
Connell Wagner name, address, ph & fax nos. Contact Person: April Freeman Site: Buckland Park				WATER	SOIL	SLUDGE	OTHER (PLEASE SPECIFY)	COMPOSITE	ICE	HNO3/HCl	UNPRESERVED	OTHER (PLEASE SPECIFY)	As, B, Be, Cd, Cu, Mn, Hg, Zn, Cr & Pb #CCVI	TPH: MA-30	PAH: LOA-30 mg/L	OCP: Drinking Water Top	PCB: LOA-0.001 mg/L	TDS: APHA 254 OC	pH: APHA 4500 H+	SULFATE & SULPHUR Solvents (refer attached)	BTEX: Benzene, TOL, O, D, M, X mg/L	PHENOLY AND HERBICIDES	VIC EPA SCALEN 448	
																								Sample ID
138278	TP18 005-015	Glass Jar	21/01/08	-																				
138279	TP18 04-0.5	"	"	-																				
138280	TP18 09-1.0	"	"	-																				
138281	TP18 19-2.0	"	"	-																				
138282	TP19 005-015	"	"	-																				
138283	TP19 04-0.5	"	"	-																				
138284	TP19 09-1.0	"	"	-																				
138285	TP19 19-2.0	"	"	-																				
138286	TP20 005-015	"	"	-																				
138287	TP20 04-0.5	"	"	-																				
138288	TP20 09-1.0	"	"	-																				
138289	TP20 19-2.0	"	"	-																				
138290	TP20 28-2.9	"	"	-																				
138291	TP21 005-015	"	"	-																				

LAB #

Investigator: I attest that the proper field sampling procedures were used during the collection of these samples
 Samplers Name: April Freeman (print and signature) (Date) 22/01/08

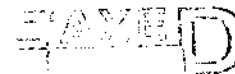
Relinquished by: Joe Medicin (print and signature) Date 22/1/08 Time 12:00
 Received by: Ola Laimarck (print and signature) Date 23/1 Time 11 am

Relinquished by: (print and signature) Date _____ Time _____
 Received by: Leanne (print and signature) Date 24/1 Time 8 am

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Job# 0035990

CHAIN OF CUSTODY FORM

Job No. 31495 Date Required _____ Sheet 7 of 7

Investigator <u>Connell Wagner</u> name, address, ph & fax nos. Contact Person: <u>April Freeman</u>				Sample Matrix				Sample Preservation				Analysis												
Site <u>Buckland Park</u>				WATER	SOIL	SLUDGE	OTHER (PLEASE SPECIFY)	COMPOSITE	ICE	HNO3/HCl	UNPRESERVED	OTHER (PLEASE SPECIFY)	As, B, Be, Cd, Cu, Mn, Hg, Zn, Cr & Pb <u>PCCVI</u>	TPH: <u>MA-90</u>	PAH: <u>FOR SOIL</u>	OCF: <u>Drinking Water TOP</u>	PCB: <u>DR-004-ug/L</u>	TDS: <u>APHA 254 OC</u>	pH: <u>APHA 4500 H+</u>	<u>SULFATE & SULPHUR</u> Solvents (refer attachment)	<u>DR-004-ug/L</u> <u>DR-004-ug/L</u> <u>DR-004-ug/L</u>	<u>PHENOLY ACID METABOLITES</u>		
Sample ID	Container	Date	Time																					
<u>138292</u>	<u>TP21 04-05</u>	<u>Glass Jar</u>	<u>21/01/08</u>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>															
<u>138293</u>	<u>TP21 09-10</u>	<u>"</u>	<u>"</u>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>															
<u>138294</u>	<u>TP22 005-015</u>	<u>"</u>	<u>"</u>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>															
<u>138295</u>	<u>TP22 0.4-0.5</u>	<u>"</u>	<u>"</u>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
<u>138296</u>	<u>TP22 0.9-1.0</u>	<u>"</u>	<u>"</u>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>															
<u>138514</u>	<u>TP14(0.4-0.5)</u>	<u>added at clients req.</u>			<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>															

LAB#
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2036019

CHAIN OF CUSTODY FORM

Job No. **31495** Date Required _____ Sheet 1 of 5

Investigator Matt Eysgenroon 82379754 name, address, ph & fax nos. Contact Person: Connell Wagner			Sample Matrix				Sample Preservation				Analysis										
Site Buckland Park			WATER	SOIL	SLUDGE	OTHER (PLEASE SPECIFY)	COMPOSITE	ICE	HNO3/HCl	UNPRESERVED	OTHER (PLEASE SPECIFY)	As, B, Ba, Cd, Cu, Mn, Hg, Zn, Cr & Pb + CR V	TPH, MA-30	PAH: FOR 30 PAGE	OCP: Drinking Water	PCB: FOR 200 PAGE	TDS: APHA 254 OC	PH: APHA 4500 H+	Sulfate + Sulphur SOX: FOR 100 PAGE	BTEX: Remanent, FOR 500 PAGE	Phenony Acid hexalonic VIC 440 Sample 9
Laboratory name, address & fax no. Contact Person: Labmark																					
Courier name, address, ph & fax nos. Contact Person: TNT			Sample ID	Container	Sampling Date Time																
	TP23	0.05-0.15	Jar	138654	22	11															
	TP23	0.4-0.5	Jar	138655	22	11															
	TP23	0.9-1	Jar	138656	22	11															
	TP23	1.9-2	Jar	138657	22	11															
	TP24	0.05-0.15	Jar	138658	22	11															
	QC 11		Jar	138659	22	11															
	QC 12		Jar	138660	22	11															
	TP24	0.4-0.5	Jar	138661	22	11															
	TP24	0.9-1	Jar	138662	22	11															
	TP24	1.9-2	Jar	138663	22	11															
	TP25	0.05-0.15	Jar	138664	22	11															
	TP25	0.4-0.5	Jar	138665	22	11															
	TP25	0.9-1	Jar	138666	22	11															
	TP26	0.05-0.15	Jar	138667	22	11															
Investigator:	I attest that the proper field sampling procedures were used during the collection of these samples										Samplers Name: (print and signature) Matt Eysgenroon		(Date) 23/1/08								
Relinquished by: (print and signature) Matt Eysgenroon	Date 23/1/08	Time	Received by: (print and signature) Leanne	Date 29/1/08	Time																
Relinquished by: (print and signature)	Date	Time	Received by: (print and signature)	Date	Time																

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CHAIN OF CUSTODY FORM

Job No.	31495	Date Required		Sheet <u>1</u> of <u>5</u>
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Investigator Matt Eygenraam
 name, address, ph & fax nos.
 Contact Person: Connell Wagner 02579754
 Site
Buckland Park
 Laboratory
 name, address & fax no.
 Contact Person: Labmark
 Courier
 name, address, ph & fax nos.
 Contact Person: NT

			Sample Matrix				Sample Preservation				Analysis														
Sample ID	Container	Sampling		WATER	SOIL	SLUDGE	OTHER (PLEASE SPECIFY)	COMPOSITE	ICE	HNO3/HCl	UNPRESERVED	OTHER (PLEASE SPECIFY)	As, B, Be, Cd, Cr, Mn, Hg, Zn Cr & Pb + Cr VI	TPH; MA-30	PAH; 100-1000 µg/L	OCP; 100-1000 µg/kg + OPP + 100-1000 µg/kg	PCB; 100-1000 µg/L	TDS; APHA 254 OC	pH; APHA 4500 H+	Sulfate; 100-1000 mg/L (barium chloride)	BTEX; 100-1000 µg/L	Phenols; 100-1000 µg/L	Nitrate; 100-1000 µg/L	Nitrite; 100-1000 µg/L	
		Date	Time																						
TP26 0.4-0.5	Jar 138667	22	1																						
TP26 0.9-1	Jar 138669	22	1																						
TP26 1.9-2	Jar 138670	22	1																						
TP27 0.05-0.15	Jar 138671	22	1																	✓	✓		✓	✓	
TP27 0.4-0.5	Jar 138672	22	1																						
TP27 0.9-1	Jar 138673	22	1																						
TP28 0.05-0.15	Jar 138674	22	1										✓	✓	✓	✓				✓	✓		✓	✓	
TP28 0.4-0.5	Jar 138676	22	1										✓			✓				✓	✓				
TP28 0.9-1	Jar 138677	22	1																						
TP29 0.05-0.15	Jar 138678	22	1										✓	✓	✓	✓				✓	✓		✓	✓	
TP29 0.4-0.5	Jar 138679	22	1																						
TP29 0.9-1	Jar 138680	22	1																						
TP29 1.9-2	Jar 138681	22	1																						

Investigator:	I attest that the proper field sampling procedures were used during the collection of these samples		Samplers Name:	<u>Matt Eygenraam</u> (print and signature)	(Date)	<u>23/1/08</u>
Relinquished by:	<u>Matt Eygenraam</u> (print and signature)	Date	<u>23/1/08</u>	Time		
Received by:	<u>Leanne</u> (print and signature)	Date	<u>29/1/08</u>	Time		

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CHAIN OF CUSTODY FORM

Job No. **3495** Date Required _____ Sheet **3** of **5**

Investigator **Matt Eygenraam**
 name, address, ph & fax nos
 Contact Person: **Connell Wagner 82379754**
 Site
Buckland Park
 Laboratory
 name, address & fax no.
 Contact Person: **Labmark**
 Courier
 name, address, ph & fax nos.
 Contact Person:

Sample ID	Container	Sampling	
		Date	Time
TP30 0.05-0.15	Jar 138682	22/1	
TP30 0.4-0.5	Jar 138683	22/1	
TP30 0.9-1	Jar 138684	22/1	
TP31 0.05-0.15	Jar 138685	22/1	
TP31 0.4-0.5	Jar 138686	22/1	
TP31 0.9-1	Jar 138687	22/1	
TP31 1.9-2	Jar 138688	22/1	
TP32 0.05-0.15	Jar 138689	22/1	
TP32 0.4-0.5	Jar 138690	22/1	
TP32 0.9-1	Jar 138691	22/1	
QC14	Jar 138692	22/1	
TP33 0.05-0.15	Jar 138693	22/1	
QC15	Jar 138694	22/1	
QC16	Jar 138695	22/1	

Sample Matrix					Sample Preservation					Analysis									
WATER	SOIL	SLUDGE	OTHER (PLEASE SPECIFY)	COMPOSITE	ICE	HNO3/HCl	UNPRESERVED	OTHER (PLEASE SPECIFY)	As, B, Be, Cd, Cu, Mn, Hg, Zn, Cr & Pb + Cr VI	TPH; MA-30	PAH; TOR-0-0 ppt	OC; TOR-0-0 ppt + OP + drinking water	PCB; TOR-0-0 ppt	TDS; APHA 254 OC	pH; APHA 4500 H+	Sulfate + Sulfur + nitrate (refer attachment)	BTEX; benzene, toluene, ethylbenzene, xylene	Phenol, Acid hydrocarbons	VIC EPA 440 + 450 + 460
									✓	✓	✓	✓			✓	✓	✓	✓	
									✓	✓	✓	✓			✓	✓	✓	✓	
									✓	✓	✓	✓			✓	✓	✓	✓	
									✓	✓	✓	✓			✓	✓	✓	✓	
									✓	✓	✓	✓			✓	✓	✓	✓	
									✓	✓	✓	✓			✓	✓	✓	✓	

Investigator: I attest that the proper field sampling procedures were used during the collection of these samples

Relinquished by: (print and signature) **Matt Eygenraam** Date **23/1/08** Time _____

Relinquished by: (print and signature) _____ Date _____ Time _____

Samplers Name: (print and signature) **Matt Eygenraam** (Date) **23/1/08**

Received by: (print and signature) **Leanne** Date **29/1/08** Time _____

Received by: (print and signature) _____ Date _____ Time _____

Submit to Secondary LAB

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E036019

CHAIN OF CUSTODY FORM

Job No.			Date Required			Sheet 4 of 5																
Investigator			Sample Matrix				Sample Preservation				Analysis											
name, address, ph & fax nos. Contact Person: Connell Wagner 82379154 Site: Birkland Park			WATER	SOIL	SLUDGE	OTHER (PLEASE SPECIFY)	COMPOSITE	ICE	HNO3/HCl	UNPRESERVED	OTHER (PLEASE SPECIFY)	As, B, Ba, Cd, Cu, Mn, Hg, Zn Cr & Pb + Cr VI	TPH; MA-30	PAH; LOR 3 to 10 pt	OCP; Drinking Water off	PCB; LORE 3 to 10 pt	TDS; APHA 254 OC	pH; APHA 4500 H+	Sulfate + Sulfide <small>Substrate for attachment</small>	BTEX; Benzene, Toluene, Ethyl Benzene, Xylene	Phenoxyl Acid <small>includes VLL EPA 248</small>	compos 9
Sample ID	Container	Sampling																				
		Date	Time																			
TP33 0.4-0.5	Jar 138696	22/11																				
TP33 0.9-1	Jar 138697	22/11																				
TP34 0.05-0.15	Jar 138698	23/11																				
TP34 0.4-0.5	Jar 138699	23/11																				
TP34 0.9-1	Jar 138700	23/11																				
TP34 1.9-2	Jar 138701	23/11																				
TP35 0.05-0.15	Jar 138702	23/11																				
TP35 0.4-0.5	Jar 138703	23/11																				
TP35 0.9-1	Jar 138704	23/11																				
QC17	Jar 138705	23/11																				
TP36 0.05-0.15	Jar 138706	23/11																				
TP36 0.4-0.5	Jar 138707	23/11																				
TP36 0.9-1	Jar 138708	23/11																				
TP36 1.9-2	Jar 138709	23/11																				
Investigator: I attest that the proper field sampling procedures were used during the collection of these samples			Samplers Name: (print and signature)				(Date)															
Relinquished by: (print and signature)			Date	Time	Received By: (print and signature)				Date	Time												
Relinquished by: (print and signature)			Date	Time	Received by: (print and signature)				Date	Time												

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E036019

CHAIN OF CUSTODY FORM

Job No. **3495** Date Required _____ Sheet **5** of **5**

Investigator **Matt Eygenraam 82379754**
 name, address, ph & fax nos.
 Contact Person: **Connell Wagner**
 Site: **Buckland Park**
 Laboratory: **Labmark**
 name, address & fax no.
 Contact Person:
 Courier: **TNT**
 name, address, ph & fax nos.
 Contact Person:

Sample Matrix			Sample Preservation				Analysis												
WATER	SOIL	SLUDGE	OTHER (PLEASE SPECIFY)	COMPOSITE	ICE	HNO3/HCl	UNPRESERVED	OTHER (PLEASE SPECIFY)	As, B, Be, Cd, Cu, Mn, Hg, Zn Cr & Pb	TPH; MA-30	PAH; FOR 2.0 ug/L	OCP; FOR 0.001 ug/L	PCB; FOR 0.001 ug/L	TDS; APHA 254 OC	pH; APHA 4500 H+	BTEX; FOR 0.001 mg/L	Phenols; FOR 0.001 mg/L	Halides	COMPO
									✓	✓	✓	✓			✓	✓	✓	✓	✓

Investigator: I attest that the proper field sampling procedures were used during the collection of these samples
 Relinquished by: (print and signature) **Matt Eygenraam** Date: **23/1/08** Time: _____
 Relinquished by: (print and signature) _____ Date: _____ Time: _____
 Samplers Name: (print and signature) **Matt Eygenraam** (Date) **25/1/08**
 Received by: (print and signature) _____ Date: **29/1/08** Time: _____
 Received by: (print and signature) _____ Date: _____ Time: _____

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Connell Wagner

Q0218. PM

CHAIN OF CUSTODY FORM

Job No. 31495				Date Required				Sheet 1 of 5															
Investigator <i>Connell Wagner</i> name, address, ph & fax nos. Contact Person: <i>April Freeman</i>				Sample Matrix				Sample Preservation				Analysis											
Site <i>Buckland Park</i>				WATER	SOIL	SLUDGE	OTHER (PLEASE SPECIFY)	COMPOSITE	ICE	HNO3/HCl	UNPRESERVED	OTHER (PLEASE SPECIFY)	As, Be, B, Cd, Cr, Cu, Hg, Zn, Cr & Pb <i>MS/TLES m7</i>	TPH, WAs, 00 <i>6-0036</i>	PAH, LOR 30 <i>10/L</i>	OCP; Drinking Water	PCB; LOR 0.001 µg/L	TDS; APHA 254 OC	pH; APHA 4500-H+	Solvents (refer attached)	BTEX; Benzene; t-COR 0.001 mg/L	<i>MS</i>	<i>VIC EPA</i>
Laboratory <i>Amdel</i> name, address & fax no. Contact Person:																							
Courier name, address, ph & fax nos. Contact Person:				Sample ID				Container				Sampling											
				Date				Time															
- TP38 0-0-1				<i>Glass Jar</i>				<i>03/04</i>				<i>9:30am</i>											
- TP38 0-2-0-3				"				"				"											
- TP38 0-4-0-5				"				"				"											
- <i>QC1A</i>				"				"				"											
- TP38 0-9-1-0				"				"				<i>9:30am</i>											
- TP38 1-9-2-0				"				"				"											
- TP39 0-0-1				"				"				<i>10:10am</i>											
- <i>QC2A</i>				"				"				"											
- TP39 0-2-0-3				"				"				<i>10:10am</i>											
- TP39 0-4-0-5				"				"				"											
- TP39 0-9-1-0				"				"				"											
- TP39 1-9-2-0				"				"				"											
- TP40 0-0-1				"				"				<i>10:45am</i>											
- TP40 0-2-0-3				"				"				"											

936078/08ENME0008403-1
 CONNELLWAG-TP38 0-0-1-07/0



Investigator: I attest that the proper field sampling procedures were used during the collection of these samples

Relinquished by: (print and signature) *April Freeman* *dfreeman* Date *04/04/08* Time *3pm*

Relinquished by: (print and signature) *Damien Labmark* Date *7/4* Time *9:00*

Samplers Name: (print and signature) *April Freeman* *dfreeman* (Date) *03/04/08*

Received by: (print and signature) _____ Date _____ Time _____

Received by: (print and signature) _____ Date _____ Time _____

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CHAIN OF CUSTODY FORM

Job No. 31495 Date Required _____ Sheet 2 of 5

Investigator <u>Connell Wagner</u> name, address, ph & fax nos. Contact Person: <u>April Freeman</u>				Sample Matrix					Sample Preservation					Analysis										
Site <u>Buckland Park</u>				WATER	SOIL	SLUDGE	OTHER (PLEASE SPECIFY)	COMPOSITE	ICE	HNO3/HCl	UNPRESERVED	OTHER (PLEASE SPECIFY)	As, Be, Cd, Cr, Hg, Ni, Pb, Se, V, Zn, Mn, Cu, Ni, Cr & Pb <u>M.S. M7</u>	TPH; MA-30 <u>C6-C7</u>	PAH; LOR-30 <u>PH</u>	OCP; Drinking-Water	PCB; LOR 0.001 µg/L	TDS; APHA 254 OC	pH; APHA-4500 HF	Solvents (refer attached)	BTEX, Benzene-LOR 0.001 mg/L	<u>VC</u> <u>EFN</u>		
Laboratory <u>Amdel</u> name, address & fax no.: Contact Person:																							Sampling	
Courier name, address, ph & fax nos. Contact Person:				Date	Time																			
Sample ID	Container	Date	Time																					
<u>QL3A</u>	<u>Glass Jar</u>	<u>03/04</u>	<u>-</u>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>															
<u>TP40 0.4-0.5</u>	<u>"</u>	<u>"</u>	<u>10:45am</u>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>															
<u>TP40 0.9-1.0</u>	<u>"</u>	<u>"</u>	<u>"</u>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>															
<u>TP40 1.9-2.0</u>	<u>"</u>	<u>"</u>	<u>"</u>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>															
<u>TP41 0-0.1</u>	<u>"</u>	<u>"</u>	<u>11:15am</u>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>															
<u>TP41 0.2-0.3</u>	<u>"</u>	<u>"</u>	<u>"</u>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			<u>20</u>	
<u>TP41 0.4-0.5</u>	<u>"</u>	<u>"</u>	<u>"</u>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>															
<u>TP41 0.9-1.0</u>	<u>"</u>	<u>"</u>	<u>"</u>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>															
<u>TP41 1.9-2.0</u>	<u>"</u>	<u>"</u>	<u>"</u>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>															
<u>TP42 0-0.1</u>	<u>"</u>	<u>"</u>	<u>11:45am</u>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			<u>24</u>	
<u>TP42 0.2-0.3</u>	<u>"</u>	<u>"</u>	<u>"</u>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>															
<u>TP42 0.4-0.5</u>	<u>"</u>	<u>"</u>	<u>"</u>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>															
<u>TP42 0.9-1.0</u>	<u>"</u>	<u>"</u>	<u>"</u>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>															
<u>QL4A</u>	<u>"</u>	<u>"</u>	<u>-</u>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>															

Investigator: I attest that the proper field sampling procedures were used during the collection of these samples	Samplers Name: <u>April Freeman</u> (print and signature) <u>dfreeman</u> (Date) <u>03/04/08</u>	
Relinquished by: <u>April Freeman</u> (print and signature) <u>dfreeman</u>	Date: <u>04/04/08</u>	Time: <u>3pm</u>
Relinquished by: <u>Damien Labmark</u> (print and signature) <u>DL</u>	Date: <u>7/4</u>	Time: <u>9:00</u>
Received by: _____ (print and signature)	Date: _____	Time: _____
Received by: _____ (print and signature)	Date: _____	Time: _____

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CHAIN OF CUSTODY FORM

Job No. **31495** Date Required _____ Sheet **3** of **5**

Investigator **Connell Wagner**
 name, address, ph & fax nos.
 Contact Person: **April Freeman**
 Site **Buckland Park**
 Laboratory **Amdel**
 name, address & fax no.
 Contact Person:
 Courier
 name, address, ph & fax nos.
 Contact Person:

Sample ID	Container	Sampling		Sample Matrix				Sample Preservation				Analysis														
		Date	Time	WATER	SOIL	SLUDGE	OTHER (PLEASE SPECIFY)	COMPOSITE	ICE	HNO3/HCl	UNPRESERVED	OTHER (PLEASE SPECIFY)	As, B, Cr, Cu, Ni, Pb, Zn, Cd & P6 METALS M7	TPH; MA-98 C6-C26	PAH; LOR 3-9 µg/L	OCF; Drinking Water	PCB; LOR 0.001 µg/L	TDS; APHA 254 OC	pH; APHA 4500-H+	Solvents (refer attached)	BTEX, Benzene; LOR 0.001 mg/L	VOC DPA				
TP4219-20	Glass Jar	03/04	11:4 Sam		✓			✓																		
TP430-0.1	"	"	12:15 pm		✓			✓				✓	✓	✓	✓											
TP430.2-0.3	"	"	"		✓			✓																		
TP430.4-0.5	"	"	"		✓			✓																		
TP430.9-1.0	"	"	"		✓			✓																		
TP431.9-2.0	"	"	"		✓			✓																		
QLSA	"	"	-		✓			✓																		
TP440-0.1	"	"	1 pm		✓			✓				✓	✓	✓	✓											
QL6A	"	"	-		✓			✓																		
TP440.2-0.3	"	"	1 pm		✓			✓				✓		✓												
TP440.4-0.5	"	"	"		✓			✓																		
TP440.9-1.0	"	"	"		✓			✓																		
TP441.9-2.0	"	"	"		✓			✓																		
TP450-0.1	"	"	1:30 pm		✓			✓																		

Investigator: I attest that the proper field sampling procedures were used during the collection of these samples
 Relinquished by: (print and signature) **April Freeman** *dfreeman* Date **04/04/08** Time **3pm**
 Relinquished by: (print and signature) **Damien Labmark** Date **7/4** Time **9:00**

Samplers Name: (print and signature) **April Freeman** *dfreeman* (Date) **03/04/08**
 Received by: (print and signature) _____ Date _____ Time _____
 Received by: (print and signature) _____ Date _____ Time _____

36
 PLEASE SUBMIT TO SOLO WORKY LAB

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CHAIN OF CUSTODY FORM

Job No. 31495 Date Required _____ Sheet 4 of 5

Investigator name, address, ph & fax nos. Contact Person:			Sample Matrix					Sample Preservation				Analysis										
Connell Wagner April Freeman			WATER	SOIL	SLUDGE	OTHER (PLEASE SPECIFY)	COMPOSITE	ICE	HNO3/HCl	UNPRESERVED	OTHER (PLEASE SPECIFY)	As, B, Be, Cd, Cr, Cu, Hg, Pb, Zn, Cr & Pb MUTUALS IN7	TPH; MA-30 6-036	PAH; LOR 3-0 µg/L	OCP; Drinking Water	PCB; LOR 0.001 µg/L	TDS; APHA 254 OC	pH; APHA 4500 FT	Solvents (refer attached)	BTEX; Benzene+LOR-0.001mg/L	VC EPA	
Site Buckland Park																						
Laboratory name, address & fax no. Contact Person: Amadel			Courier name, address, ph & fax nos. Contact Person:			Sample ID Container Sampling Date Time																
TP4502-0.3	Glass Jar	03/04 1:30 pm		✓				✓				✓	✓	✓	✓			✓	✓			
QL7A	"	"		✓				✓														
TP4504-0.5	"	1:30 pm		✓				✓														
TP4509-1.0	"	"		✓				✓														
TP4519-2.0	"	"		✓				✓														
TP460-0.1	"	3 pm		✓				✓				✓	✓	✓				✓	✓			
TP4602-0.3	"	3 pm		✓				✓														
TP4604-0.5	"	"		✓				✓														
TP4609-1.0	"	"		✓				✓														
TP4619-2.0	"	"		✓				✓														
TP470-0.1	"	3:45 pm		✓				✓										✓			✓	
QL8A	"	"		✓				✓														
TP4702-0.3	"	3:45 pm		✓				✓														
TP4704-0.5	"	"		✓				✓														

Investigator: I attest that the proper field sampling procedures were used during the collection of these samples

Samplers Name: (print and signature) April Freeman (Date) 03/04/08

Relinquished by: (print and signature) April Freeman Date 04/04/08 Time 3 pm

Received by: (print and signature) _____ Date _____ Time _____

Relinquished by: (print and signature) Damien Labmank Date 7/4 Time 9:00

Received by: (print and signature) _____ Date _____ Time _____

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CHAIN OF CUSTODY FORM

Job No. 31495 Date Required _____ Sheet 5 of 5

Investigator Connell Wagner
 name, address, ph & fax nos.
 Contact Person: April Freeman

Site Buckland Park

Laboratory Amdel
 name, address & fax no.
 Contact Person:

Courier
 name, address, ph & fax nos.
 Contact Person:

Sample ID	Container	Sampling	
		Date	Time
TP470.9-1.0	Glass Jar	03/04	3:45pm
TP471.9-2.0	"	"	"
TP480-0.1	"	"	4:15pm
TP480.2-0.3	"	"	"
QL9A	"	"	"
TP4804-0.5	"	"	4:15pm
TP480.9-1.0	"	"	"
TP481.9-2.0	"	"	"

Sample Matrix					Sample Preservation					Analysis									
WATER	SOIL	SLUDGE	OTHER (PLEASE SPECIFY)	COMPOSITE	ICE	HNO3/HCl	UNPRESERVED	OTHER (PLEASE SPECIFY)	As, B, Be, Cd, Cr, Mn, Ni, Pb, Zn, Cu, Fe, Hg, Se, V, Mo, Ni, Mn, Zn, Cr, Co, Pb	TPH; MA-30 C6-C50	PAH; LOR 3.0 µg/L	OCF; Drinking Water	PCB; LOR 0.001 µg/L	TDS; APHA 254 OC	pH; APHA 4500-H+	Solvents (refer attached)	BTEX, Benzene; LOR 0.001 mg/L	VIC EPA	
	✓				✓														
	✓				✓														
	✓				✓														
	✓				✓				✓	✓	✓	✓			✓		✓		
	✓				✓														
	✓				✓														

Investigator: I attest that the proper field sampling procedures were used during the collection of these samples

Samplers Name: April Freeman (print and signature) dfreeman (Date) 03/04/08

Relinquished by: April Freeman (print and signature) dfreeman Date 04/04/08 Time 3pm

Received by: _____ (print and signature) Date _____ Time _____

Relinquished by: Darren DeB Labmark (print and signature) Date 7/4 Time 9:00

Received by: _____ (print and signature) Date _____ Time _____


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Connell Wagner

CHAIN OF CUSTODY FORM

Job No. 31495 Date Required _____ Sheet 1 of 5

Investigator <u>Connell Wagner</u> name, address, ph & fax nos. Contact Person: <u>April Freeman</u>			Sample Matrix					Sample Preservation					Analysis								
Site <u>Buckland Park</u>			WATER	SOIL	SLUDGE	OTHER (PLEASE SPECIFY)	COMPOSITE	ICE	HNO3/HCl	UNPRESERVED	OTHER (PLEASE SPECIFY)	As, B, Br, Ca, Cu, Mn, Hg, Zn, Cr & Pb <u>MS 712.5 m7</u>	TPH; MA-30 <u>C6-C36</u>	PAH; LOR 3.0 µg/L	OCP; Drinking water	PCB; LOR 0.001 µg/L	TDS; APHA 254 OC	pH; APHA 4500 HF	Solvents (refer attached)	BTEX, Benzene; LOR 0.001 mg/L	<u>VC EPA</u>
Laboratory <u>Amdel</u> name, address & fax no. Contact Person:																					
Courier name, address, ph & fax nos. Contact Person:																					
Sample ID	Container	Sampling																			
		Date	Time																		
TP490-0.1	Glass Jar	07/04	9:15 am		✓				✓			✓	✓	✓	✓			✓	✓		
TP490.2-0.3	"	"	"		✓				✓												
TP490.4-0.5	"	"	"		✓				✓												
TP490.9-1.0	"	"	"		✓				✓												
TP491.9-2.0	"	"	"		✓				✓												
SP1	941463/08ENME0008764-1 CITYWEST-32151259610-12-09	"	9:30 am		✓				✓			✓	✓	✓							
SP2		"	"		✓				✓			✓	✓	✓							
TP50 0.0-1	"	"	10 am		✓				✓			✓	✓	✓			✓		✓		
QL10A	"	"	"		✓				✓												
TP50 0.2-0.3	"	"	10 am		✓				✓												
TP50 0.4-0.5	"	"	"		✓				✓												
TP500.9-1.0	"	"	"		✓				✓												
TP501.9-2.0	"	"	"		✓				✓												
TP510-0.1	"	"	10:45 am		✓				✓												

Investigator: I attest that the proper field sampling procedures were used during the collection of these samples
 Relinquished by: (print and signature) Matt Engenraum Wagner Date 8/4/08 Time _____
 Received by: (print and signature) Michael Helms Date 9/4/08 Time 9:00
 Relinquished by: (print and signature) _____ Date _____ Time _____
 Received by: (print and signature) _____ Date _____ Time _____

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CHAIN OF CUSTODY FORM

Job No. 31495				Date Required				Sheet 2 of 5															
Investigator: <i>Connell Wagner</i> name, address, ph & fax nos. Contact Person: <i>April Freeman</i>				Sample Matrix				Sample Preservation				Analysis											
Site: <i>Buckland Park</i>				WATER	SOIL	SLUDGE	OTHER (PLEASE SPECIFY)	COMPOSITE	ICE	HNO3/HCl	UNPRESERVED	OTHER (PLEASE SPECIFY)	As, B, Ba, Be, Bi, Br, Cd, Cr, Cu, Fe, Pb, Se, Si, Zn, Mn, Ni, U, V, W, Y, Mo, Hg, Ag, Au, Ni, Cr, Mn, Zn, Cu, Fe, Pb, As, B, Ba, Be, Bi, Br, Cd, Cr, Cu, Fe, Pb, Se, Si, Zn, Mn, Ni, U, V, W, Y, Mo, Hg, Ag, Au	TPH: <i>MA-99-66-C36</i>	PAH: <i>LOR 50 µg/L</i>	OCP: <i>Drinking Water</i>	PCB: <i>LOR 0.001 µg/L</i>	TDS: <i>APHA 254 OC</i>	pH: <i>APHA 4500-H+</i>	Solvents (refer attached)	BTEX: <i>Benzene: LOR 0.001 mg/L</i>	VOC: <i>ORA</i>	
Laboratory: <i>Amdel</i> name, address & fax no. Contact Person:																							Courier: <i>Amstel</i> name, address, ph & fax nos. Contact Person:
Sample ID	Container	Sampling																					
		Date	Time																				
<i>TP5102-03</i>	<i>Glass Jar</i>	<i>07/04</i>	<i>10:45am</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
<i>QU1A</i>	<i>"</i>	<i>"</i>	<i>"</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>														
<i>TP5104-05</i>	<i>"</i>	<i>"</i>	<i>10:45am</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>														
<i>TP5109-10</i>	<i>"</i>	<i>"</i>	<i>"</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>														
<i>TP5119-20</i>	<i>"</i>	<i>"</i>	<i>"</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>														
<i>TP520-0.1</i>	<i>"</i>	<i>"</i>	<i>11:15am</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>														
<i>TP5202-03</i>	<i>"</i>	<i>"</i>	<i>"</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
<i>TP5204-05</i>	<i>"</i>	<i>"</i>	<i>"</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>														
<i>QU2A</i>	<i>"</i>	<i>"</i>	<i>"</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>														
<i>TP5209-10</i>	<i>"</i>	<i>"</i>	<i>11:15am</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>														
<i>TP5219-20</i>	<i>"</i>	<i>"</i>	<i>"</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>														
<i>TP530-0.1</i>	<i>"</i>	<i>"</i>	<i>11:45am</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>										<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	
<i>TP5302-03</i>	<i>"</i>	<i>"</i>	<i>"</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
<i>TP5304-05</i>	<i>"</i>	<i>"</i>	<i>"</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>														

Investigator: I attest that the proper field sampling procedures were used during the collection of these samples

Samplers Name: *April Freeman* (print and signature) *dfreeman* (Date) *07/04/08*

Relinquished by: *Matt Eyervorn* (print and signature) *ME*
 Date: *8/4/08* Time:

Received by: *Michael* (print and signature) *Michael G* Date: *9/2/08* Time: *9:00*

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Connell Wagner

CHAIN OF CUSTODY FORM

Job No. 31495 Date Required _____ Sheet 3 of 5

Investigator <u>Connell Wagner</u> name, address, ph & fax nos. Contact Person: <u>April Freeman</u>				Sample Matrix				Sample Preservation				Analysis											
Site <u>Buckland Park</u>				WATER	SOIL	SLUDGE	OTHER (PLEASE SPECIFY)	COMPOSITE	ICE	HNO3/HCl	UNPRESERVED	OTHER (PLEASE SPECIFY)	As, B, Ba, Cd, Cu, Mn, Hg, Zn, Cr, & Pb <u>MSTALS 0.7</u>	TPH; MA-88 <u>C6-C36</u>	PAH; LOR <u>3.0 µg/L</u>	OCP; Drinking Water	PCB; LOR 0.001 µg/L	TDS; APHA 254 OC	pH; APHA 4500 H+	Solvents (refer attached)	BTEX; Benzene; LOR 0.001 mg/L	<u>VC</u>	<u>ORA</u>
Laboratory <u>Amdel</u> name, address & fax no. Contact Person:																							
Courier name, address, ph & fax nos. Contact Person:				Sample ID		Container		Sampling															
				Date		Time																	
TP53 0.9-1.0		<u>Glass Jar</u>		<u>07/04</u>		<u>11:45am</u>																	
TP53 1.9-2.0		"		"		"																	
TP53 1.9-2.0		"		"		<u>11:45am</u>																	
TP54 0-0.1		"		"		<u>12 pm</u>																	
TP54 0.2-0.3		"		"		"																	
TP54 0.4-0.5		"		"		"																	
TP54 0.9-1.0		"		"		"																	
TP54 1.9-2.0		"		"		"																	
TP55 0-0.1		"		"		<u>12:30pm</u>																	
TP55 0.2-0.3		"		"		"																	
TP55 0.4-0.5		"		"		"																	
TP55 0.9-1.0		"		"		"																	
TP55 1.9-2.0		"		"		"																	
QC14A		"		"		"																	
Investigator: I attest that the proper field sampling procedures were used during the collection of these samples								Samplers Name: <u>April Freeman</u> (print and signature) <u>afreeman</u> (Date) <u>07/04/08</u>															
Relinquished by: <u>Matt Eugenciam</u> (print and signature) <u>MEE</u>				Date: <u>5/4/08</u>		Time:		Received by: <u>Michael</u> (print and signature) <u>Michael G</u>				Date: <u>9/4/08</u>		Time: <u>9:00</u>									
Relinquished by: _____ (print and signature)				Date:		Time:		Received by: _____ (print and signature)				Date:		Time:									

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Connell Wagner

CHAIN OF CUSTODY FORM

Job No. 31495 Date Required _____ Sheet 4 of 5

Investigator <i>Connell Wagner</i> name, address, ph & fax nos. Contact Person: <i>April Freeman</i>			Sample Matrix				Sample Preservation				Analysis										
Site <i>Buckland Park</i>			WATER	SOIL	SLUDGE	OTHER (PLEASE SPECIFY)	COMPOSITE	ICE	HNO3/HCl	UNPRESERVED	OTHER (PLEASE SPECIFY)	As, B, Ba, Be, Bi, Br, Cd, Cr, Cu, Hg, Mn, Ni, Pb, Se, Tl, U, V, Zn, Cr & Pb <i>MST (RUS) M7</i>	TPH; MMA-30 <i>C6-C36</i>	PAH; LOR 30 <i>µg/L</i>	OCP; Drinking Water	PCB; LOR 0.001 <i>µg/L</i>	TDS; APHA 254 OC	pH; APHA <i>4500 H+</i>	Solvents (refer attached)	BTEX; Benzene; LOR 0.001 mg/L	<i>VC EPA</i>
Laboratory <i>Amstel</i> name, address & fax no. Contact Person: Courier name, address, ph & fax nos. Contact Person:																					
Sample ID	Container	Sampling																			
		Date	Time																		
<i>TP560-0.1</i>	<i>Glass Jar</i>	<i>07/04</i>	<i>1:45pm</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<i>TP560-2-03</i>	<i>"</i>	<i>"</i>	<i>"</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<i>TP560-4-05</i>	<i>"</i>	<i>"</i>	<i>"</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<i>TP560-9-10</i>	<i>"</i>	<i>"</i>	<i>"</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<i>TP561-9-20</i>	<i>"</i>	<i>"</i>	<i>"</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<i>TP570-0.1</i>	<i>"</i>	<i>"</i>	<i>2:15pm</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<i>QLISA</i>	<i>"</i>	<i>"</i>	<i>"</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<i>TP570-2-03</i>	<i>"</i>	<i>"</i>	<i>2:15pm</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<i>TP570-4-05</i>	<i>"</i>	<i>"</i>	<i>"</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<i>TP570-9-10</i>	<i>"</i>	<i>"</i>	<i>"</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<i>TP571-9-20</i>	<i>"</i>	<i>"</i>	<i>"</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<i>SP3</i>	<i>"</i>	<i>"</i>	<i>2:30pm</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<i>TP580-0.1</i>	<i>"</i>	<i>"</i>	<i>3pm</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<i>TP580-2-03</i>	<i>"</i>	<i>"</i>	<i>3pm</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Investigator: I attest that the proper field sampling procedures were used during the collection of these samples				Samplers Name: <i>April Freeman</i> (print and signature)				(Date) <i>07/04/08</i>													
Relinquished by: <i>McA Eysenroam</i> (print and signature)		Date: <i>8/4/08</i>	Time:	Received by: <i>Michael</i> (print and signature)		Date: <i>9/4/08</i>	Time: <i>9:00</i>														
Relinquished by: _____ (print and signature)		Date:	Time:	Received by: _____ (print and signature)		Date:	Time:														

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CHAIN OF CUSTODY FORM

Job No. 31495 Date Required _____ Sheet 5 of 5

Investigator Connell Wagner
 name, address, ph & fax nos.
 Contact Person: April Freeman
 Site Buckland Park
 Laboratory Amdel
 name, address & fax no.
 Contact Person:
 Courier
 name, address, ph & fax nos.
 Contact Person:

				Sample Matrix					Sample Preservation				Analysis										
Sample ID	Container	Sampling		WATER	SOIL	SLUDGE	OTHER (PLEASE SPECIFY)	COMPOSITE	ICE	HNO3/HCl	UNPRESERVED	OTHER (PLEASE SPECIFY)	As, B, Be, Cd, Cr, Cu, Hg, Mn, Ni, Pb, Se, V, Zn, Cr6, Pb <u>MSTALS M7</u>	TPH; MTA-98 C6-C36	PAH; LOR 3.0 µg/L	OCP; Drinking Water	PCB; LOR 0.001 µg/L	TDS; APHA 254 OC	pH; APHA #500-H+	Solvents (refer attached)	BTEX; Benzene; LOR 0.001 mg/L	VC EPA	
		Date	Time																				
<u>QC16A</u>	<u>Glass Jar</u>	<u>07/04</u>	<u>-</u>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>														
<u>TP580405</u>	<u>"</u>	<u>"</u>	<u>3pm</u>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>														
<u>TP580910</u>	<u>"</u>	<u>"</u>	<u>"</u>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>														
<u>TP581920</u>	<u>"</u>	<u>"</u>	<u>"</u>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>														
<u>TP590-0.1</u>	<u>"</u>	<u>"</u>	<u>3:30pm</u>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
<u>TP590203</u>	<u>"</u>	<u>"</u>	<u>"</u>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>														
<u>TP590405</u>	<u>"</u>	<u>"</u>	<u>"</u>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>														
<u>TP590910</u>	<u>"</u>	<u>"</u>	<u>"</u>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>														
<u>TP591920</u>	<u>"</u>	<u>"</u>	<u>"</u>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>														

Investigator: I attest that the proper field sampling procedures were used during the collection of these samples
 Relinquished by: Matt Eygenram ME Date 8/4/08 Time _____
 Relinquished by: _____ Date _____ Time _____
 Samplers Name: April Freeman dfreeman (print and signature) (Date) 07/04/08
 Received by: Michael Michael G (print and signature) Date 9/4/08 Time 9:00
 Received by: _____ (print and signature) Date _____ Time _____

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CHAIN OF CUSTODY FORM

Job No. 31495		Date Required		Sheet 1 of 4																																																	
Investigator Connell Wagner name, address, ph & fax nos. Contact Person: April Freeman				Sample Matrix		Sample Preservation		Analysis																																													
Site Buckland Park				WATER		SOIL		SLUDGE		OTHER (PLEASE SPECIFY)		COMPOSITE		ICE		HNO3/HCl		UNPRESERVED		OTHER (PLEASE SPECIFY)		As, B, Be, Cd, Cr, Cu, Hg, Ni, Pb, Se, Zn		MICRALS A7		TPH; MA-30 C6-C36		PAH; LOR 3:0 pg/L		OCP; Drinking Water		PCB; LOR 0.001 pg/L		TDS; APHA 254 OC		PH/APHA 4500 H+		Solvents (refer attached)		BTEX, Benzene; LOR 0.001 mg/L		VIC EPA											
Laboratory Amdel name, address & fax no. Contact Person:				COURT		name, address, ph & fax nos. Contact Person:		Sample ID		Container		Sampling Date Time		WATER		SOIL		SLUDGE		OTHER (PLEASE SPECIFY)		COMPOSITE		ICE		HNO3/HCl		UNPRESERVED		OTHER (PLEASE SPECIFY)		As, B, Be, Cd, Cr, Cu, Hg, Ni, Pb, Se, Zn		MICRALS A7		TPH; MA-30 C6-C36		PAH; LOR 3:0 pg/L		OCP; Drinking Water		PCB; LOR 0.001 pg/L		TDS; APHA 254 OC		PH/APHA 4500 H+		Solvents (refer attached)		BTEX, Benzene; LOR 0.001 mg/L		VIC EPA	
TP60 0-0.1 QL7A				Glass Jar		08/04 8:30am				✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓					
TP60 0.2-0.3				"		" 8:30am				✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓									
TP60 0.4-0.5				"		" "				✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓									
TP60 0.9-1.0				"		" "				✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓									
TP60 1.9-2.0				544304/0BENME0008924-1 CONNELLWAG-TP60 0-0.1-10/0		" "				✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓									
TP61 0-0.1				"		" 9am				✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓									
TP61 0.2-0.3 QL8A				"		" "				✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓									
TP61 0.4-0.5				"		" 9am				✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓									
TP61 0.9-1.0				"		" "				✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓									
TP61 1.9-2.0				"		" "				✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓									
TP62 0-0.1				"		" 10am				✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓											
TP62 0.2-0.3				"		" "				✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓									
Investigator: I attest that the proper field sampling procedures were used during the collection of these samples				Samplers Name: April Freeman (print and signature) <i>dfreeman</i> (Date) 08/04/08				Relinquished by: Matt Eysgrove (print and signature) <i>MEysgrove</i> Date 9/4/08 Time				Received by: Michael Cassidy (print and signature) <i>MSC</i> Date 10/4/08 Time 9:00				Relinquished by: (print and signature) Date Time				Received by: (print and signature) Date Time																																	

PLEASE SEND TO SECONDARY LABS

CHAIN OF CUSTODY FORM

Investigator: Connell Wagner name, address, ph & fax nos.			Job No. 31495	Date Required	Sheet 2 of 4																	
Contact Person: April Freeman			Sample Matrix			Sample Preservation					Analysis											
Site: Buckland Park																						
Laboratory: Amdel name, address & fax no.			WATER	SOIL	SLUDGE	OTHER (PLEASE SPECIFY)	COMPOSITE	ICE	HNO3/HCl	UNPRESERVED	OTHER (PLEASE SPECIFY)	As Pb, Cd, Cr, Mn, Ni, Zn, Cr & Pb MSMS m7	TPH; MA-00- C6 - C26	PAH; LGR-3-0-19/L	OCP; Drinking Water	PCB; LGR-0-001-10/L	IDS; APHA-254-OC	pH; APHA-4500-H+	Solvents (refer attached)	BTEX; Benzene; LGR-0-001-mg/L	MC EPA	
Courier: Amdel name, address, ph & fax nos.																						
Contact Person:			Sampling																			
Sample ID	Container	Date	Time																			
TP620405	Glass Jar	08/04	10am																			
TP620910	"	"	"																			
TP621920	"	"	"																			
TP630-0.1	"	"	10:30am																			
TP630.2-0.3	"	"	"																			
TP630.4-0.5	"	"	"																			
QC19A	"	"	"																			
TP630.9-1.0	"	"	10:30am																			
TP631.9-2.0	"	"	"																			
TP640-0.1	"	"	11am																			
TP640.2-0.3	"	"	"																			
TP640.4-0.5	"	"	"																			
TP640.4-1.0	"	"	"																			
QC20A	"	"	"																			
Investigator: I attest that the proper field sampling procedures were used during the collection of these samples			Samplers Name: April Freeman (print and signature)			(Date) 08/04/08																
Relinquished by: Matt Eggan (print and signature)			Date	Time	Received by: Michael Cassidy (print and signature)			Date	Time													
Relinquished by: Matt Eggan (print and signature)			Date 9/4/08		Received by: Michael Cassidy (print and signature)			Date 10/4/08	Time 9:00													

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CHAIN OF CUSTODY FORM

Job No.			Date Required			Sheet 3 of 4																					
Investigator name, address, ph & fax nos. Contact Person:			Sample Matrix			Sample Preservation			Analysis																		
Site			WATER	SOIL	SLUDGE	OTHER (PLEASE SPECIFY)	COMPOSITE	ICE	HNO3/HCl	UNPRESERVED	OTHER (PLEASE SPECIFY)	As, P, Be, Cd, Cu, Mn, Hg, Zn, Cr & Pb ME 47.5 mg	TPH; MVA-30 6-696	PAH; LOR 9.0 µg/L	OCF; Drinking Water	PCB; LOR 0.001 µg/L	IDS; ALPHA 254 OG	pH; ALPHA 4500 HF	Solvents (refer attached)	BTEX; Benzene; LOR 0.001 mg/L	VIC EPA						
Laboratory name, address & fax no. Contact Person:																											
Courier name, address, ph & fax nos. Contact Person:			Date			Time																					
Sample ID	Container	Sampling																									
TP64 1-9-20	Glass Jar	08/04 11am		✓				✓																			
TP65 0-0-1	"	" 11:45am		✓				✓																			
TP65 0.2-0.3	"	" 11:45am		✓				✓																			
TP65 0.4-0.5	"	" "		✓				✓																			
TP65 0.9-1.0	"	" "		✓				✓																			
TP65 1.9-2.0	"	" "		✓				✓																			
TP66 0-0-1	"	" 12:15pm		✓				✓				✓	✓	✓	✓			✓		✓							
OC21A	"	" "		✓				✓																			
TP66 0.2-0.3	"	" 12:15pm		✓				✓																			
TP66 0.4-0.5	"	" "		✓				✓																			
TP66 0.9-1.0	"	" "		✓				✓																			
TP66 1.9-2.0	"	" "		✓				✓																			
TP67 0-0-1	"	" 2pm		✓				✓																			
TP67 0.2-0.3	"	" "		✓				✓				✓	✓	✓	✓			✓		✓							
Investigator: I attest that the proper field sampling procedures were used during the collection of these samples			Samplers Name: (print and signature)			Date																					
Relinquished by: (print and signature)			Date			Time			Received by: (print and signature)			Date			Time												
Mott Egganoom ME jpp			9/4/08						Michael Cassidy MSC			10/4/09			9:00												
Relinquished by: (print and signature)			Date			Time			Received by: (print and signature)			Date			Time												

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CHAIN OF CUSTODY FORM

Job No. 31495 Date Required _____ Sheet 1 of 4

Investigator Connell Wagner
 name, address, ph & fax nos.
Contact Person: April Freeman
Site Buckland Park
Laboratory
 name, address & fax no. Andel
Contact Person:
Courier
 name, address, ph & fax nos.
Contact Person:

Sample ID	Container	Sampling		WATER	SOIL	SLUDGE	OTHER (PLEASE SPECIFY)	COMPOSITE	ICE	HNO3/HCl	UNPRESERVED	OTHER (PLEASE SPECIFY)	Analysis										
		Date	Time										As, S, Pb, Cd, Cr, Mn, Hg, Zn, Cu, & Pb	TPH: WA-30	PAH: LOR 9-9 ppb/L	OCP: Drinking Water	PCB: LOR 0-004 ppb/L	TDS: APHA 254 TC	pH: APHA 4500-H	Solvents (refer attached)	BTEX: Benzene: LOR 0-001 mg/L	MC 68A 018-1	
TP69 0-0-1	Glass Jar	09/04	8am		✓				✓				✓	✓	✓	✓			✓				
TP69 0.2-0.3	"	"	"		✓				✓														
TP69 0.4-0.5	"	"	"		✓				✓														
TP69 0.9-1.0	"	"	"		✓				✓														
TP69 1.9-2.0	"	"	"		✓				✓														
TP70 0-0-1	944106/08ENME0008929-1 CONNELLWAG-TP69 0-0.1-10/0	"	8:30am		✓				✓														
TP70 0.2-0.3		"	"		✓				✓				✓	✓	✓	✓			✓				
TP70 0.4-0.5	"	"	"		✓				✓														
TP70 0.9-1.0	"	"	"		✓				✓														
TP70 1.9-2.0	"	"	"		✓				✓														
TP71 0-0-1	"	"	9am		✓				✓														
Q623A	"	"	"		✓				✓														
TP71 0.2-0.3	"	"	9am		✓				✓														
TP71 0.4-0.5	"	"	"		✓				✓														

Investigator: I attest that the proper field sampling procedures were used during the collection of these samples
Samplers Name: (print and signature) April Freeman (Date) 09/04/08
Relinquished by: (print and signature) April Freeman Date 09/04/08 Time 4pm
Received by: (print and signature) Michael Cassidy Date 10/4/08 Time 9:00
Relinquished by: (print and signature) _____ Date _____ Time _____
Received by: (print and signature) _____ Date _____ Time _____

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CHAIN OF CUSTODY FORM

Job No. 31495 Date Required _____ Sheet 2 of 4

Investigator name, address, ph & fax nos. Contact Person: <u>April Freeman</u>				Sample Matrix					Sample Preservation				Analysis										
Site <u>Buckland Park</u>				WATER	SOIL	SLUDGE	OTHER (PLEASE SPECIFY)	COMPOSITE	ICE	HNO3/HCl	UNPRESERVED	OTHER (PLEASE SPECIFY)	As, B, Ba, Cd, Cr, Mn, Ni, Pb, Zn, Cr & Pb <u>As, B, Ba, Cd, Cr, Mn, Ni, Pb, Zn, Cr & Pb</u> <u>As, B, Ba, Cd, Cr, Mn, Ni, Pb, Zn, Cr & Pb</u>	TPH; MA-90 <u>6-C30</u>	PAH; LOR 3.0 ug/L <u>Drinking Water</u>	OCP; Drinking Water	PCB; LOR 0.001 ug/g	TDS; APHA 254 UC	PH; APHA 4500 H+	Solvents (refer attached)	BTEX; Benzene; LOR 0.001 mg/L	<u>VC EPA 448-1</u>	
Laboratory name, address & fax no. <u>Amstel</u> Contact Person: Courier name, address, ph & fax nos. Contact Person:																							
Sample ID	Container	Sampling																					
		Date	Time																				
<u>TP71 0.9-1.0</u>	<u>Glass Jar</u>	<u>09/04</u>	<u>9am</u>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>														
<u>TP71 1.9-2.0</u>	<u>"</u>	<u>"</u>	<u>"</u>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>														
<u>TP72 0-0.1</u>	<u>"</u>	<u>"</u>	<u>9:45am</u>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>				
<u>TP72 0.2-0.3</u>	<u>"</u>	<u>"</u>	<u>"</u>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>														
<u>TP72 0.4-0.5</u>	<u>"</u>	<u>"</u>	<u>"</u>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>														
<u>TP72 0.9-1.0</u>	<u>"</u>	<u>"</u>	<u>9:45am</u>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>														
<u>TP72 1.9-2.0</u>	<u>"</u>	<u>"</u>	<u>"</u>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>														
<u>TP73 0-0.1</u>	<u>"</u>	<u>"</u>	<u>10:15am</u>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>														
<u>TP73 0.2-0.3</u>	<u>"</u>	<u>"</u>	<u>"</u>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>				
<u>TP73 0.4-0.5</u>	<u>"</u>	<u>"</u>	<u>"</u>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>														
<u>TP73 0.9-1.0</u>	<u>"</u>	<u>"</u>	<u>"</u>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>														
<u>TP73 1.9-2.0</u>	<u>"</u>	<u>"</u>	<u>"</u>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>														
<u>TP74 0-0.1</u>	<u>"</u>	<u>"</u>	<u>10:45am</u>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>				
Investigator: I attest that the proper field sampling procedures were used during the collection of these samples				Samplers Name: (print and signature) <u>April Freeman</u> <u>dfreeman</u> (Date) <u>09/04/08</u>																			
Relinquished by: (print and signature) <u>April Freeman</u> <u>dfreeman</u>		Date	Time	Received by: (print and signature) <u>Michael Cassidy</u> <u>MSC</u>		Date	Time																
		<u>09/04/08</u>	<u>4pm</u>			<u>10/4/08</u>	<u>9:00</u>																
Relinquished by: (print and signature)		Date	Time	Received by: (print and signature)		Date	Time																

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CHAIN OF CUSTODY FORM

Job No.				Date Required				Sheet 3 of 4														
Investigator name, address, ph & fax nos. Contact Person:				Sample Matrix				Sample Preservation				Analysis										
Site				WATER	SOIL	SLUDGE	OTHER (PLEASE SPECIFY)	COMPOSITE	ICE	HNO3/HCl	UNPRESERVED	OTHER (PLEASE SPECIFY)	As, B, Be, Cd, Co, Cr, Cu, Mn, Hg, Zn, Cr & Pb MS/MS M7	TPH; MA-30 C6-C76	PAH; TOR-20 µg/L	OCP; Drinking Water	PCB; TOR-0.001 µg/L	TDS; ALPHA 254 OC	pH; ALPHA 4500 FT	Solvents (refer attached)	BTEX; Benzene; TOR 0.001 µg/L	VIC EPA 408.1
Laboratory name, address & fax no. Contact Person:																						
Courier name, address, ph & fax nos. Contact Person:				Sample ID				Container				Sampling										
				Date				Time														
QC25A				Glass Jar				09/04				-										
TP74 0.2-0.3				"				"				10:45am										
TP74 0.4-0.5				"				"				"										
TP74 0.9-1.0				"				"				"										
TP74 1.9-2.0				"				"				"										
TP75 0-0.1				"				"				11:45am										
TP75 0.2-0.3				"				"				"										
TP75 0.4-0.5				"				"				"										
TP75 0.9-1.0				"				"				"										
TP75 1.9-2.0				"				"				"										
TP76 0-0.1				"				"				12:30pm										
QC26A				"				"				"										
TP76 0.2-0.3				"				"				12:30pm										
TP76 0.4-0.5				"				"				"										
Investigator:				I attest that the proper field sampling procedures were used during the collection of these samples								Samplers Name: (print and signature) April Freeman <i>dfreeman</i>				(Date) 09/04/08						
Relinquished by: (print and signature) April Freeman <i>dfreeman</i>				Date 09/04/08				Time 4pm				Received by: (print and signature)				Date						
Relinquished by: (print and signature)				Date				Time				Received by: (print and signature)				Date						

PLEASE SEND
TO
SECONDARY
LAB

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CHAIN OF CUSTODY FORM

Job No.	31495	Date Required		Sheet 4 of 4
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Investigator *Connell Wagner*
name, address, ph & fax nos.
Contact Person: *April Freeman*
Site *Buckland Park*
Laboratory *Amdel*
name, address & fax no.
Contact Person:
Courier
name, address, ph & fax nos.
Contact Person:

Sample ID	Container	Sampling	
		Date	Time
<i>TP76 0.9-1.0</i>	<i>Glass Jar</i>	<i>09/04</i>	<i>12:30pm</i>
<i>TP76 1.9-2.0</i>	<i>"</i>	<i>"</i>	<i>"</i>
<i>TP77 0.0-1</i>	<i>"</i>	<i>"</i>	<i>1 pm</i>
<i>TP77 0.2-0.3</i>	<i>"</i>	<i>"</i>	<i>"</i>
<i>TP77 0.4-0.5</i>	<i>"</i>	<i>"</i>	<i>"</i>
<i>TP77 0.9-1.0</i>	<i>"</i>	<i>"</i>	<i>"</i>
<i>QL27A</i>	<i>"</i>	<i>"</i>	<i>"</i>
<i>TP77 1.9-2.0</i>	<i>"</i>	<i>"</i>	<i>1 pm</i>

Sample Matrix				Sample Preservation				Analysis											
WATER	SOIL	SLUDGE	OTHER (PLEASE SPECIFY)	COMPOSITE	ICE	HNO3/HCl	UNPRESERVED	OTHER (PLEASE SPECIFY)	As, B, Be, Cd, Cr, Mn, Hg, Zn, Co, Pb	TPH: Max 50	PAH: TOR 3.0 µg/L	OCP: Drinking Water	PCB: TOR 0.001 µg/L	TDS: APHA 254 OC	pH: APHA 4500 H+	Solvents (refer attached)	BTEX: Benzene: TOR 0.001 µg/L	VIC	GA 448.1
	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>														
	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>														
	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>										<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>
	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>														
	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>														
	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>														

Investigator: I attest that the proper field sampling procedures were used during the collection of these samples

Samplers Name: (print and signature) *April Freeman* (Date) *09/04/08*

Relinquished by: (print and signature) <i>April Freeman</i>	Date <i>09/04/08</i>	Time <i>4 pm</i>	Received by: (print and signature) <i>Michael Cassidy</i>	Date <i>10/4/08</i>	Time <i>9:00</i>
Relinquished by: (print and signature)	Date	Time	Received by: (print and signature)	Date	Time

Appendix E

Quality Control Analysis - Soil

Appendix E

Analyte (mg/kg)	Units	Inter-laboratory Triplicate			Inter-laboratory Triplicate		
		QC2	TP 2 (0.05-0.15)	RPD%	QC16	TP33 (0.05 -0.15)	RPD%
Metals							
Arsenic		<5	2	0	2.1	2	4.9
Beryllium		<1	<1	--	< 2	<1	--
Boron		<50	<5	--	16	6	90.9
Cadmium		<1	<0.1	--	< 0.5	<0.1	--
Chromium		18	14	25	13	12	8
Copper		9	7	25	5.8	6	3.4
Lead		8	8	0	< 5	6	--
Manganese		137	131	4.5	54	71	27.2
Mercury		0.2	<0.05	--	< 0.1	<0.05	--
Zinc		11	10	9.5	7.4	10	29.9
Organochlorine Pesticides (OC)							
alpha-BHC		<0.05	<0.05	--	< 0.05	<0.05	--
Hexachlorobenzene (HCB)		<0.05	<0.05	--	< 0.05	<0.05	--
beta-BHC		<0.05	<0.05	--	< 0.05	<0.05	--
gamma-BHC		<0.05	<0.05	--	< 0.05	<0.05	--
delta-BHC		<0.05	<0.05	--	< 0.05	<0.05	--
Heptachlor		<0.05	<0.05	--	< 0.05	<0.05	--
Aldrin		<0.05	<0.05	--	< 0.05	<0.05	--
Heptachlor epoxide		<0.05	<0.05	--	< 0.05	<0.05	--
trans-Chlordane		<0.05	<0.05	--	< 0.1	<0.05	--
alpha-Endosulfan		<0.05	<0.05	--	< 0.05	<0.05	--
cis-Chlordane		<0.05	<0.05	--	--	<0.05	--
Dieldrin		<0.05	<0.05	--	< 0.05	<0.05	--
4,4'-DDE		<0.05	<0.05	--	< 0.05	<0.05	--
Endrin		<0.05	<0.05	--	< 0.05	<0.05	--
beta-Endosulfan		<0.05	<0.05	--	< 0.05	<0.05	--
4,4'-DDD		<0.05	<0.05	--	< 0.05	<0.05	--
Endrin aldehyde		<0.05	--	--	< 0.05	--	--
Endosulfan sulfate		<0.05	<0.05	--	< 0.05	<0.05	--
4,4'-DDT		<0.2	<0.2	--	< 0.05	<0.2	--
Endrin ketone		<0.05	--	--	< 0.05	--	--
Methoxychlor		<0.2	<0.2	--	< 0.05	<0.2	--
EP068B: Organophosphorus Pesticides (OP)							
Dichlorvos		<0.05	<0.5	--	< 0.2	<0.5	--
Demeton-S-methyl		<0.05	<1	--	< 0.2	<0.5	--
Monocrotophos		<0.2	<0.5	--	--	--	--
Dimethoate		<0.05	<0.5	--	--	<0.5	--
Diazinon		<0.05	<0.5	--	< 0.2	<0.5	--
Chlorpyrifos-methyl		<0.05	<0.5	--	--	<0.5	--
Parathion-methyl		<0.2	<0.5	--	--	<0.5	--
Malathion		<0.05	<0.5	--	--	<0.5	--
Fenthion		<0.05	<0.5	--	< 0.2	<0.5	--
Chlorpyrifos		<0.05	--	--	< 0.2	--	--
Parathion		<0.2	<0.5	--	< 0.2	<0.5	--
Pirimphos-ethyl		<0.05	--	--	--	--	--
Chlorfenvinphos		<0.05	--	--	--	--	--
Bromophos-ethyl		<0.05	--	--	--	--	--
Fenamiphos		<0.05	--	--	--	--	--
Prothiofos		<0.05	<0.5	--	--	<0.5	--
Ethion		<0.05	<0.5	--	< 0.2	--	--
Carbophenothion		<0.05	--	--	--	--	--
Azinphos Methyl		<0.05	<0.5	--	< 0.2	<0.5	--
Speciated Chromium							
Hexavalent Chromium		-	-	-	< 1	-	-
Trivalent Chromium		-	-	-	-	-	-

denotes RPD >50%

Analyte (mg/kg)	Units	Intra-laboratory Duplicate			Intra-laboratory Duplicate			Intra-laboratory Duplicate			Intra-laboratory Duplicate		
		QC1	TP 2 (0.05-0.15)	RPD%	QC9	TP16 (0.05-0.15)	RPD%	QC13	TP28 (0.05-0.15)	RPD%	QC15	TP33 (0.05-0.15)	RPD%
Metals													
Arsenic	mg/Kg	2	2	0	2	2	0	1	1	0	2	2	0
Beryllium	mg/Kg	<1	<1	--	<1	<1	--	<1	<1	--	<1	<1	--
Boron	mg/Kg	<5	<5	--	12	8	40	<5	<5	--	<5	6	--
Cadmium	mg/Kg	<0.1	<0.1	--	<0.1	<0.1	--	<0.1	<0.1	--	<0.1	<0.1	--
Chromium	mg/Kg	17	14	19.4	20	16	22.2	9	10	10.5	12	12	0
Cobalt	mg/Kg	--	--	--	--	--	--	--	--	--	--	--	--
Copper	mg/Kg	8	7	13.3	11	9	20	4	4	0	5	6	18.2
Lead	mg/Kg	9	8	11.8	5	5	0	4	5	22.2	6	6	0
Manganese	mg/Kg	143	131	8.8	155	152	2	97	116	17.8	66	71	7.3
Molybdenum	mg/Kg	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	mg/Kg	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	mg/Kg	--	--	--	--	--	--	--	--	--	--	--	--
Tin	mg/Kg	--	--	--	--	--	--	--	--	--	--	--	--
Zinc	mg/Kg	11	10	9.5	15	12	22.2	11	8	31.6	9	10	10.5
Organochlorine Pesticides (OC)													
a-BHC	mg/Kg	<0.05	<0.05	--	<0.05	<0.05	--	<0.05	<0.05	--	<0.05	<0.05	--
Hexachlorobenzene	mg/Kg	<0.05	<0.05	--	<0.05	<0.05	--	<0.05	<0.05	--	<0.05	<0.05	--
b-BHC	mg/Kg	<0.05	<0.05	--	<0.05	<0.05	--	<0.05	<0.05	--	<0.05	<0.05	--
g-BHC (Lindane)	mg/Kg	<0.05	<0.05	--	<0.05	<0.05	--	<0.05	<0.05	--	<0.05	<0.05	--
d-BHC	mg/Kg	<0.05	<0.05	--	<0.05	<0.05	--	<0.05	<0.05	--	<0.05	<0.05	--
Heptachlor	mg/Kg	<0.05	<0.05	--	<0.05	<0.05	--	<0.05	<0.05	--	<0.05	<0.05	--
Aldrin	mg/Kg	<0.05	<0.05	--	<0.05	<0.05	--	<0.05	<0.05	--	<0.05	<0.05	--
Heptachlor epoxide	mg/Kg	<0.05	<0.05	--	<0.05	<0.05	--	<0.05	<0.05	--	<0.05	<0.05	--
trans-chlordane	mg/Kg	<0.05	<0.05	--	<0.05	<0.05	--	<0.05	<0.05	--	<0.05	<0.05	--
Endosulfan I	mg/Kg	<0.05	<0.05	--	<0.05	<0.05	--	<0.05	<0.05	--	<0.05	<0.05	--
cis-chlordane	mg/Kg	<0.05	<0.05	--	<0.05	<0.05	--	<0.05	<0.05	--	<0.05	<0.05	--
Dieldrin	mg/Kg	<0.05	<0.05	--	<0.05	<0.05	--	<0.05	<0.05	--	<0.05	<0.05	--
4,4-DDE	mg/Kg	<0.05	<0.05	--	<0.05	<0.05	--	<0.05	<0.05	--	<0.05	<0.05	--
Endrin	mg/Kg	<0.05	<0.05	--	<0.05	<0.05	--	<0.05	<0.05	--	<0.05	<0.05	--
Endosulfan II	mg/Kg	<0.05	<0.05	--	<0.05	<0.05	--	<0.05	<0.05	--	<0.05	<0.05	--
4,4-DDD	mg/Kg	<0.05	<0.05	--	<0.05	<0.05	--	<0.05	<0.05	--	<0.05	<0.05	--
Endosulfan sulphate	mg/Kg	<0.05	<0.05	--	<0.05	<0.05	--	<0.05	<0.05	--	<0.05	<0.05	--
4,4-DDT	mg/Kg	<0.2	<0.2	--	<0.2	<0.2	--	<0.2	<0.2	--	<0.2	<0.2	--
Methoxychlor	mg/Kg	<0.2	<0.2	--	<0.2	<0.2	--	<0.2	<0.2	--	<0.2	<0.2	--
Organophosphorus Pesticides (OP)													
Dichlorvos	mg/Kg	<0.5	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	--
Mevinphos (Phosdrin)	mg/Kg	<0.5	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	--
Demeton (total)	mg/Kg	<1	<1	--	<1	<1	--	<1	<1	--	<1	<1	--
Ethoprop	mg/Kg	<0.5	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	--
Monocrotophos	mg/Kg	<0.5	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	--
Phorate	mg/Kg	<0.5	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	--
Dimethoate	mg/Kg	<0.5	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	--
Diazinon	mg/Kg	<0.5	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	--
Disulfoton	mg/Kg	<0.5	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	--
Methyl parathion	mg/Kg	<0.5	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	--
Ronnel	mg/Kg	<0.5	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	--
Fenitrothion	mg/Kg	<0.5	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	--
Malathion	mg/Kg	<0.5	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	--
Chlorpyrifos	mg/Kg	<0.5	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	--
Fenthion	mg/Kg	<0.5	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	--
Parathion	mg/Kg	<0.5	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	--
Stirofos	mg/Kg	<0.5	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	--
Prothiofos	mg/Kg	<0.5	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	--
Azinophos methyl	mg/Kg	<0.5	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	--
Coumaphos	mg/Kg	<0.5	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	--	<0.5	<0.5	--
Speciated Chromium													
Hexavalent Chromium	mg/Kg	<1	<1	--	<1	<1	--	<1	<1	--	<1	<1	--
Trivalent Chromium	mg/Kg	16	13	20.7	20	35	54.5	8	9	11.8	11	11	0

denotes RPD >50%

Analyte (mg/kg)	Intra-laboratory Duplicate			Intra-laboratory Duplicate			Intra-laboratory Duplicate			Intra-laboratory Duplicate		
	QC2A	TP39 (0-0.1)	RPD%	QC15A	TP57 (0-0.1)	RPD%	QC17	TP60 (0-0.1)	RPD%	QC23	TP71 (0-0.1)	RPD%
Metals												
Arsenic	<2	2.2	-	<2	<2	-	<2	<2	-	<2	<2	-
Beryllium	-	-	-	-	-	-	-	-	-	-	-	-
Boron	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	<2	<2	-	<2	<2	-	<2	<2	-	<2	<2	-
Chromium	22	32	37	13	12	8	31	29	6.7	14	12	15.4
Cobalt	-	-	-	-	-	-	-	-	-	-	-	-
Copper	9.3	13	33.2	5.7	5	13.1	16	16	0	12	10	18.2
Lead	8.4	11	26.8	5.9	5.4	8.8	13	12	8	5.6	4.6	19.6
Manganese	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	7.1	11	43.1	4.3	3.9	9.8	13	12	8	5.9	4.6	24.8
Selenium	-	-	-	-	-	-	-	-	-	-	-	-
Tin	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	12	17	34.5	9.1	8.5	6.8	24	22	8.7	26	21	21.3
Organochlorine Pesticides (OC)												
a-BHC	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-
a - Chlordane	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-
a - Endosulfan	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-
Aldrin	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-
b-BHC	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-
b-Endosulfan	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-
d-BHC	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-
DDD	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-
DDE	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-
DDT	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-
Dieldrin	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-
Endosulfan sulfate	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-
Endrin	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-
Endrin Aldehyde	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-
g-BHC	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-
g-Chlordane	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-
Heptachlor	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-
Heptachlor epoxide	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-
Hexachlorobenzene (HCB)	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-
Methoxychlor	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-
Oxychlordane	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-

 denotes RPD >50%


Analyte (mg/kg)	Inter-laboratory Triplicate			Inter-laboratory Triplicate			Inter-laboratory Triplicate		
	QC6A	TP44 (0-0.1)	RPD%	QC18A	TP61(0.2-0.3)	RPD%	QC25A	TP74 (0-0.1)	RPD%
Metals									
Arsenic	< 2	<2	-	<2	2.5	-	<2	<2	-
Beryllium	-	-	-	-	-	-	-	-	-
Boron	-	-	-	-	-	-	-	-	-
Cadmium	< 0.5	<2	-	<0.5	<2	-	<0.5	<2	-
Chromium	20	20	0	30	30	0	11	8.9	21.1
Copper	10	12	18.2	13	15	14.3	<5	3.2	-
Lead	<5	6.4	-	10	11	9.5	<5	3.8	-
Manganese	-	-	-	-	-	-	-	-	-
Mercury	<0.1	-	-	-	-	-	-	-	-
Nickle	7.1	8	11.9	13	13	0	<5	2.6	-
Zinc	20	19	5.1	21	17	21.1	8.1	7.1	13.2
Organochlorine Pesticides (OC)									
a-BHC	< 0.05	<0.5	-	< 0.05	<0.5	-	< 0.05	<0.5	-
a - Chlordane	< 0.1	<0.5	-	< 0.1	<0.5	-	< 0.1	<0.5	-
a - Endosulfan	< 0.05	<0.5	-	< 0.05	<0.5	-	< 0.05	<0.5	-
Aldrin	< 0.05	<0.5	-	< 0.05	<0.5	-	< 0.05	<0.5	-
b-BHC	< 0.05	<0.5	-	< 0.05	<0.5	-	< 0.05	<0.5	-
b-Endosulfan	< 0.05	<0.5	-	< 0.05	<0.5	-	< 0.05	<0.5	-
d-BHC	< 0.05	<0.5	-	< 0.05	<0.5	-	< 0.05	<0.5	-
DDD	< 0.05	<0.5	-	< 0.05	<0.5	-	< 0.05	<0.5	-
DDE	< 0.05	<0.5	-	< 0.05	<0.5	-	< 0.05	<0.5	-
DDT	< 0.05	<0.5	-	< 0.05	<0.5	-	< 0.05	<0.5	-
Dieldrin	< 0.05	<0.5	-	< 0.05	<0.5	-	< 0.05	<0.5	-
Endosulfan sulfate	< 0.05	<0.5	-	< 0.05	<0.5	-	< 0.05	<0.5	-
Endrin	< 0.05	<0.5	-	< 0.05	<0.5	-	< 0.05	<0.5	-
Endrin Aldehyde	< 0.05	<0.5	-	< 0.05	<0.5	-	< 0.05	<0.5	-
g-BHC	< 0.05	<0.5	-	< 0.05	<0.5	-	< 0.05	<0.5	-
g-Chlordane	< 0.05	<0.5	-	< 0.05	<0.5	-	< 0.05	<0.5	-
Heptachlor	< 0.05	<0.5	-	< 0.05	<0.5	-	< 0.05	<0.5	-
Heptachlor epoxide	< 0.05	<0.5	-	< 0.05	<0.5	-	< 0.05	<0.5	-
Hexachlorobenzene (HCB)	< 0.05	<0.5	-	< 0.05	<0.5	-	< 0.05	<0.5	-
Methoxychlor	< 0.05	<0.5	-	< 0.05	<0.5	-	< 0.05	<0.5	-
Oxychlordane	< 0.05	<0.5	-	< 0.05	<0.5	-	< 0.05	<0.5	-

 denotes RPD >50%

Analyte (mg/kg)	Intra-laboratory Duplicate			Intra-laboratory Duplicate			Intra-laboratory Duplicate			Intra-laboratory Duplicate		
	QC2A	TP39 (0-0.1)	RPD%	QC15A	TP57 (0-0.1)	RPD%	QC17	TP60 (0-0.1)	RPD%	QC23	TP71 (0-0.1)	RPD%
Metals												
Arsenic	<2	2.2	-	<2	<2	-	<2	<2	-	<2	<2	-
Beryllium	-	-	-	-	-	-	-	-	-	-	-	-
Boron	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	<2	<2	-	<2	<2	-	<2	<2	-	<2	<2	-
Chromium	22	32	37	13	12	8	31	29	6.7	14	12	15.4
Cobalt	-	-	-	-	-	-	-	-	-	-	-	-
Copper	9.3	13	33.2	5.7	5	13.1	16	16	0	12	10	18.2
Lead	8.4	11	26.8	5.9	5.4	8.8	13	12	8	5.6	4.6	19.6
Manganese	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	7.1	11	43.1	4.3	3.9	9.8	13	12	8	5.9	4.6	24.8
Selenium	-	-	-	-	-	-	-	-	-	-	-	-
Tin	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	12	17	34.5	9.1	8.5	6.8	24	22	8.7	26	21	21.3
Organochlorine Pesticides (OC)												
a-BHC	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-
a - Chlordane	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-
a - Endosulfan	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-
Aldrin	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-
b-BHC	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-
b-Endosulfan	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-
d-BHC	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-
DDD	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-
DDE	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-
DDT	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-
Dieldrin	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-
Endosulfan sulfate	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-
Endrin	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-
Endrin Aldehyde	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-
g-BHC	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-
g-Chlordane	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-
Heptachlor	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-
Heptachlor epoxide	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-
Hexachlorobenzene (HCB)	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-
Methoxychlor	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-
Oxychlordane	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-

 denotes RPD >50%

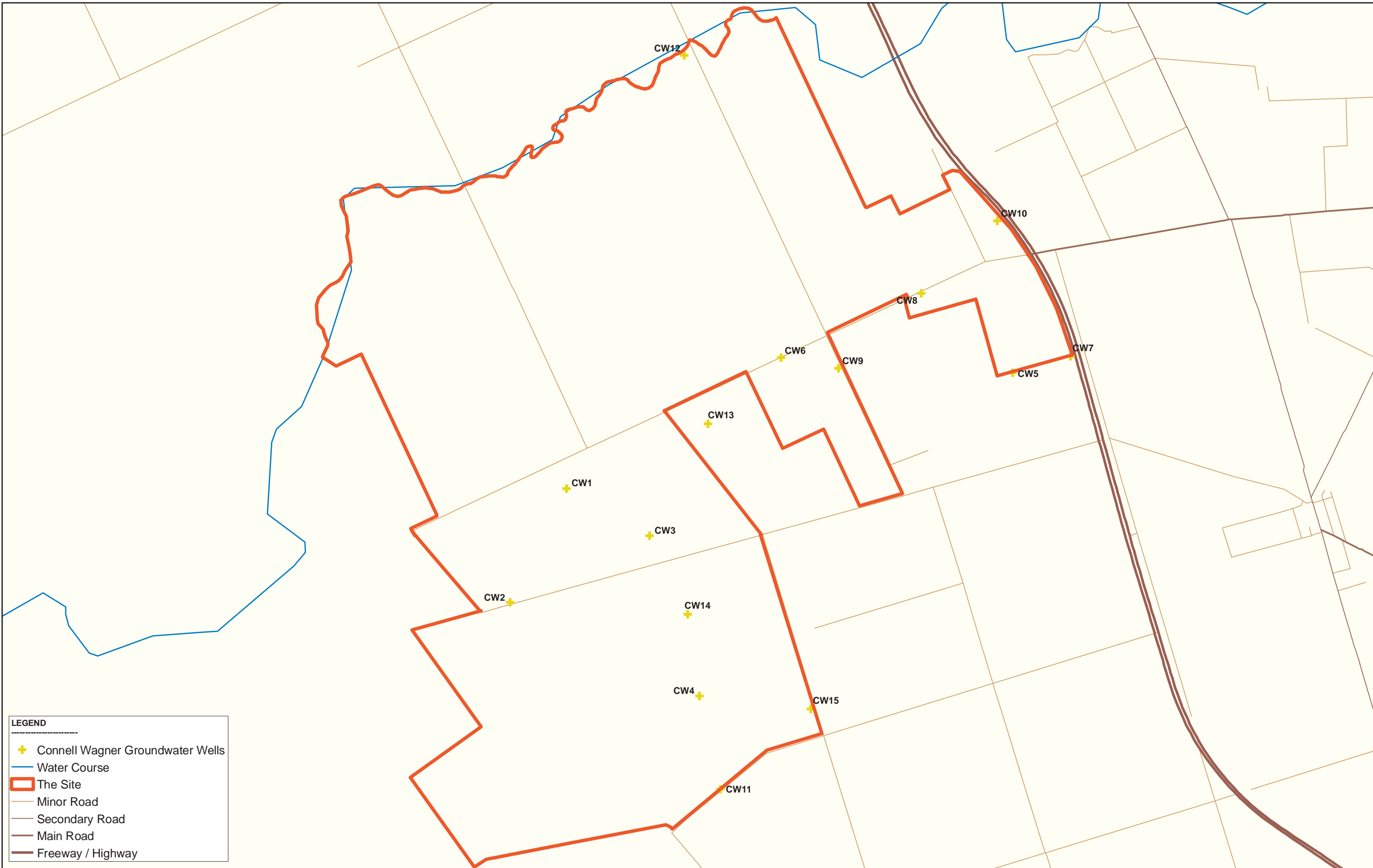
Analyte (mg/kg)	Inter-laboratory Triplicate			Inter-laboratory Triplicate			Inter-laboratory Triplicate		
	QC6A	TP44 (0-0.1)	RPD%	QC18A	TP61(0.2-0.3)	RPD%	QC25A	TP74 (0-0.1)	RPD%
Metals									
Arsenic	< 2	<2	-	<2	2.5	-	<2	<2	-
Beryllium	-	-	-	-	-	-	-	-	-
Boron	-	-	-	-	-	-	-	-	-
Cadmium	< 0.5	<2	-	<0.5	<2	-	<0.5	<2	-
Chromium	20	20	0	30	30	0	11	8.9	21.1
Copper	10	12	18.2	13	15	14.3	<5	3.2	-
Lead	<5	6.4	-	10	11	9.5	<5	3.8	-
Manganese	-	-	-	-	-	-	-	-	-
Mecury	<0.1	-	-	-	-	-	-	-	-
Nickle	7.1	8	11.9	13	13	0	<5	2.6	-
Zinc	20	19	5.1	21	17	21.1	8.1	7.1	13.2
Organochlorine Pesticides (OC)									
a-BHC	< 0.05	<0.5	-	< 0.05	<0.5	-	< 0.05	<0.5	-
a - Chlordane	< 0.1	<0.5	-	< 0.1	<0.5	-	< 0.1	<0.5	-
a - Endosulfan	< 0.05	<0.5	-	< 0.05	<0.5	-	< 0.05	<0.5	-
Aldrin	< 0.05	<0.5	-	< 0.05	<0.5	-	< 0.05	<0.5	-
b-BHC	< 0.05	<0.5	-	< 0.05	<0.5	-	< 0.05	<0.5	-
b-Endosulfan	< 0.05	<0.5	-	< 0.05	<0.5	-	< 0.05	<0.5	-
d-BHC	< 0.05	<0.5	-	< 0.05	<0.5	-	< 0.05	<0.5	-
DDD	< 0.05	<0.5	-	< 0.05	<0.5	-	< 0.05	<0.5	-
DDE	< 0.05	<0.5	-	< 0.05	<0.5	-	< 0.05	<0.5	-
DDT	< 0.05	<0.5	-	< 0.05	<0.5	-	< 0.05	<0.5	-
Dieldrin	< 0.05	<0.5	-	< 0.05	<0.5	-	< 0.05	<0.5	-
Endosulfan sulfate	< 0.05	<0.5	-	< 0.05	<0.5	-	< 0.05	<0.5	-
Endrin	< 0.05	<0.5	-	< 0.05	<0.5	-	< 0.05	<0.5	-
Endrin Aldehyde	< 0.05	<0.5	-	< 0.05	<0.5	-	< 0.05	<0.5	-
g-BHC	< 0.05	<0.5	-	< 0.05	<0.5	-	< 0.05	<0.5	-
g-Chlordane	< 0.05	<0.5	-	< 0.05	<0.5	-	< 0.05	<0.5	-
Heptachlor	< 0.05	<0.5	-	< 0.05	<0.5	-	< 0.05	<0.5	-
Heptachlor epoxide	< 0.05	<0.5	-	< 0.05	<0.5	-	< 0.05	<0.5	-
Hexachlorobenzene (HCB)	< 0.05	<0.5	-	< 0.05	<0.5	-	< 0.05	<0.5	-
Methoxychlor	< 0.05	<0.5	-	< 0.05	<0.5	-	< 0.05	<0.5	-
Oxychlordane	< 0.05	<0.5	-	< 0.05	<0.5	-	< 0.05	<0.5	-

 denotes RPD >50%

Appendix F

Site Sampling Locations – Groundwater

Appendix F



LEGEND

- + Connell Wagner Groundwater Wells
- Water Course
- The Site
- Minor Road
- Secondary Road
- Main Road
- Freeway / Highway

N

1:22,000

0 0.25 0.5 1 1.5 km

<p>Produced By Connell Wagner</p> <p>Data Sources Transport SA</p> <p>Projection Transverse Mercator</p> <p>Datum Geocentric Datum of Australia 1994</p> <p>Complied 16/10/08</p>	<p>Copyright Connell Wagner, All Rights Reserved. All works and information displayed are subject to copyright. For the reproduction or publication beyond that permitted by the Copyright Act 1968 (Cwth) written permission must be sought from Connell Wagner.</p>	<p>Connell Wagner has taken care to accurately reproduce its drawings on the information regarding in ground services supplied by the above listed data sources. The data sources advise that the data was current on the following dates:</p>	<p>Connell Wagner, its agents, officers and employees make no representations, either express or implied, that the information displayed is accurate or fit for any purpose and expressly disclaims all liability for loss or damage arising from reliance upon the information displayed.</p> <p>Prior to undertaking any in ground excavation, testing on construction activity the contractor shall verify the location of all services within the subject area using service authority data and onsite support and appropriate location techniques.</p>
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The contractor shall satisfy all service authority requirements and obtain all service authority approvals prior to undertaking any excavation.

Appendix G

Groundwater Monitoring Well Gauge and Purge Sheet

Appendix G

Job Name	Buckland Park	
Job Number	31495	
Sampler	ME	
Well	GW1	
Date	6/5/2008	
Time	12:00	
Purging Method	Bailer	
Depth to GW before purging (m)		3.51
Depth to GW after purging (m)		5.61
Depth to bottom of well (m)		5.48

Calculations

Height (m) = Depth to bottom of well - depth to GW
 1.91

Well volume (L) = $\pi r^2 h$
 6.11

Total water purged (L) = Well volume x total well purges

Water Quality

Cumulative Volume

Purged (L)	DO (ppm)	EC (mS)	pH	ReDox (mV)	Temp (°C)
6.5	4.1	3.47	8.16	108	19.9
13	2.89	3.53	8.16	71	18.9
19.5	2.61	3.52	8.11	55	18.9
26	2.4	3.34	8.11	65	18.9
32.5	2.38	3.55	8.11	71	18.9
39	2.35	3.55	8.11	70	18.9

Water Quality Description (colour, turbidity, odour, sheen)

Light Brown, lighter with bailing

Well Location and Condition

Standpipe
 Back of Greenhouse

Comments

VIC EPA

Job Name	Buckland Park	
Job Number	31495	
Sampler	ME	
Well	GW2	
Date	6/5/2008	
Time	10:30	
Purging Method	Bailer	
Depth to GW before purging (m)		3.525
Depth to GW after purging (m)		3.53
Depth to bottom of well (m)		4.65

Calculations

Height (m) = Depth to bottom of well - depth to GW
 1.4

Well volume (L) = $\pi r^2 h$
 4.48

Total water purged (L) = Well volume x total well purges

Water Quality

Cumulative Volume

Purged (L)	DO (ppm)	EC (mS)	pH	ReDox (mV)	Temp (°C)
14		4.91	8.21	17	20.8
28	2.65	4.62	8.26	50	20.9
33	2.59	4.63	8.36	50	20.5
39	2.58	4.62	8.34	47	20.5

Water Quality Description (colour, turbidity, odour, sheen)

Brown, lighter brown when bailed, no odour, no sheen

Well Location and Condition

Stand pipe

Comments

Metals, PAM, OCP

Job Name	Buckland Park	
Job Number	31495	
Sampler	ME	
Well	GW3	
Date	6/5/2008	
Time	3:08	
Purging Method	Bailer	
Depth to GW before purging (m)		2.55
Depth to GW after purging (m)		6.23
Depth to bottom of well (m)		6.23

Calculations

Height (m) = Depth to bottom of well - depth to GW
3.78

Well volume (L) = $\pi r^2 h$
12.1

Total water purged (L) = Well volume x total well purges

Water Quality

Cumulative Volume

Purged (L)	DO (ppm)	EC (mS)	pH	ReDox (mV)	Temp (°C)
12.5	3.23	55.6	7.35	145	20.7
25	2.94	54.4	7.39	118	20.4
37.5	1.8	53.8	7.33	103	20.3
50	1.7	55.8	7.34	89	20.3
62.5	1.95	54.8	7.32	145	20.3
72	1.94	56.4	7.36	86	20.1
87.5	1.94	56.5	7.36	85	20.1

Water Quality Description (colour, turbidity, odour, sheen)

Light Brown

Well Location and Condition

Comments

Metals, PAH, OCD, QC1, QC2

Job Name	Buckland Park	
Job Number	31495	
Sampler	ME	
Well	GW4	
Date	8/5/2008	
Time	10:00	
Purging Method	Bailer	
Depth to GW before purging (m)		3.4
Depth to GW after purging (m)		3.5
Depth to bottom of well (m)		4.58

Calculations

Height (m) = Depth to bottom of well - depth to GW
 1.2

Well volume (L) = $\pi r^2 h$
 2.4

Total water purged (L) = Well volume x total well purges

Water Quality

Cumulative Volume

Purged (L)	DO (ppm)	EC (mS)	pH	ReDox (mV)	Temp (°C)
5	3.21	54.3	7.45	118	20.9
8	2.59	52.5	7.51	86	20.9
11	2.58	53	7.43	85	21

Water Quality Description (colour, turbidity, odour, sheen)

Light brown, no odour or sheen

Well Location and Condition

Comments

Metals, PAH, OCP

Job Name	Buckland Park		
Job Number	31495		
Sampler	ME		
Well	GW5		
Date			
Time			
Purging Method			
Depth to GW before purging (m)			3.05
Depth to GW after purging (m)			3.05
Depth to bottom of well (m)			5.43

Calculations

Height (m) = Depth to bottom of well - depth to GW
2.38

Well volume (L) = $\pi r^2 h$
4.7

Total water purged (L) = Well volume x total well purges

Water Quality

Cumulative Volume

Purged (L)	DO (ppm)	EC (mS)	pH	ReDox (mV)	Temp (°C)
5	3.49	11.39	7.52	136	19
10	2.63	11.21	7.33	152	19.6
15	2.65	10.91	6.88	161	19.7
20	2.54	10.71	7.01	162	19.7

Water Quality Description (colour, turbidity, odour, sheen)

Well Location and Condition

274505
6162057

Comments

Metals, DAH, OCP

Job Name	Buckland Park	
Job Number	31495	
Sampler	ME	
Well	GW6	
Date	7/5/2008	
Time	2.38	
Purging Method	Bailers	
Depth to GW before purging (m)		3.65
Depth to GW after purging (m)		5.255
Depth to bottom of well (m)		6.85

Calculations

Height (m) = Depth to bottom of well - depth to GW
3.2

Well volume (L) = $\pi r^2 h$
6.3

Total water purged (L) = Well volume x total well purges

Water Quality

Cumulative Volume

Purged (L)	DO (ppm)	EC (mS)	pH	ReDox (mV)	Temp (°C)
7	4.1	16.11	7.44	146	21.7
13.5	4.23	15.57	7.57	117	20.5
	4.65	15.27	7.64	148	19.8
	4.16	15.53	7.62	68	20.3
	3.4	14.36	7.53	94	20.4
	3.59	14.27	7.64	63	20.5
	3.49	14.34	7.62	64	20.4

Water Quality Description (colour, turbidity, odour, sheen)

Clear when bailed
No sheen or odour

Well Location and Condition

Comments

Slow recharge, metals, OCP, DAH

Job Name	Buckland Park	
Job Number	31495	
Sampler	ME	
Well	GW7	
Date	5/508	
Time	1:00	
Purging Method	Bailer	
Depth to GW before purging (m)		3.25
Depth to GW after purging (m)		3.275
Depth to bottom of well (m)		5.7

Calculations

Height (m) = Depth to bottom of well - depth to GW
 2.5

Well volume (L) = $\pi r^2 h$
 4.9

Total water purged (L) = Well volume x total well purges

Water Quality

Cumulative Volume

Purged (L)	DO (ppm)	EC (mS)	pH	ReDox (mV)	Temp (°C)
5	1.84	7.44	7.79	146	21.7
10	1.77	7.43	7.88	63	21.9
15	1.72	7.45	7.92	59	21.9

Water Quality Description (colour, turbidity, odour, sheen)

Light brown, no odour or sheen

Well Location and Condition

Comments

TDS, pH, Metals, PAH, OCR

Job Name	Buckland Park		
Job Number	31495		
Sampler	ME		
Well	GW8		
Date	15/5/08		
Time	10:55		
Purging Method			
Depth to GW before purging (m)			3.86
Depth to GW after purging (m)			3.86
Depth to bottom of well (m)			5.25

Calculations

Height (m) = Depth to bottom of well - depth to GW
 1.39

Well volume (L) = $\pi r^2 h$
 2.7

Total water purged (L) = Well volume x total well purges

Water Quality

Cumulative Volume

Purged (L)	DO (ppm)	EC (mS)	pH	ReDox (mV)	Temp (°C)
3	2.86	9.01	7.03	240	21.8
6	3.56	9.14	7.2	206	21.8
9	3.61	9.11	7.21	208	21.4

Water Quality Description (colour, turbidity, odour, sheen)

VIC EPA

Well Location and Condition

Comments

Job Name	Buckland Park	
Job Number	31495	
Sampler	ME	
Well	GW9	
Date	8/5/2008	
Time	11:37	
Purging Method		
Depth to GW before purging (m)		3.83
Depth to GW after purging (m)		3.98
Depth to bottom of well (m)		6.445

Calculations

Height (m) = Depth to bottom of well - depth to GW
 2.6

Well volume (L) = $\pi r^2 h$
 5.1

Total water purged (L) = Well volume x total well purges

Water Quality

Cumulative Volume

Purged (L)	DO (ppm)	EC (mS)	pH	ReDox (mV)	Temp (°C)
5	1.84	10.26	6.89	179	20.2
	1.34	9.3	7.34	50	19.7
	1.24	8.91	7.36	22	19.6
	1.14	8.63	7.33	20	19.6
	1.64	8.43	7.34	22	19.6

Water Quality Description (colour, turbidity, odour, sheen)

Well Location and Condition

Comments

Slow recharge

Job Name	Buckland Park				
Job Number	31495				
Sampler	ME				
Well	GW10				
Date	15/5/08				
Time	2:00				
Purging Method					
Depth to GW before purging (m)	4.422				
Depth to GW after purging (m)	4.3				
Depth to bottom of well (m)	5.5				
Calculations					
Height (m) = Depth to bottom of well - depth to GW 0.88					
Well volume (L) = $\pi r^2 h$ 1.72					
Total water purged (L) = Well volume x total well purges					
Water Quality					
Cumulative Volume					
Purged (L)	DO (ppm)	EC (mS)	pH	ReDox (mV)	Temp (°C)
2	2.25	6.21	6.82	282	21.3
4	2.45	5.68	7.16	224	20.7
6	2.5	5.45	7.3	222	20.5
8	3.4	5.42	7.45	222	20.5
Water Quality Description (colour, turbidity, odour, sheen)					
Well Location and Condition					
Comments					
Slow recharge					

Job Name	Buckland Park	
Job Number	31495	
Sampler	ME	
Well	GW11	
Date	7/5/2008	
Time	4:58	
Purging Method		
Depth to GW before purging (m)		2.26
Depth to GW after purging (m)		2.425
Depth to bottom of well (m)		4.85

Calculations

Height (m) = Depth to bottom of well - depth to GW
 2.59

Well volume (L) = $\pi r^2 h$
 5.1

Total water purged (L) = Well volume x total well purges

Water Quality

Cumulative Volume

Purged (L)	DO (ppm)	EC (mS)	pH	ReDox (mV)	Temp (°C)
	5.45	28.7	7.42	140	19.2
	2.05	26.8	7.36	66	20
	1.84	25.9	7.47	49	20.2
	1.85	25.3	7.5	47	20.2

Water Quality Description (colour, turbidity, odour, sheen)

Clear on top
 Light brown recharge

Well Location and Condition

Comments

pH, TDS, Metals, PAH, OCP

Job Name	Buckland Park	
Job Number	31495	
Sampler	ME	
Well	GW12	
Date	15/5/08	
Time	12:30	
Purging Method		
Depth to GW before purging (m)		7.45
Depth to GW after purging (m)		7.96
Depth to bottom of well (m)		9.96

Calculations

Height (m) = Depth to bottom of well - depth to GW
 2.51

Well volume (L) = $\pi r^2 h$
 4.9

Total water purged (L) = Well volume x total well purges

Water Quality

Cumulative Volume					
Purged (L)	DO (ppm)	EC (mS)	pH	ReDox (mV)	Temp (°C)
5	0.1	1	5.92	212	20.1
	0.1	0.2	6.25	230	18.7
	2.79	12.59	6.41	235	18.7
	2.69	12.53	6.52	228	18.7

Water Quality Description (colour, turbidity, odour, sheen)

Well Location and Condition

Comments

pH, TDS, Metals, AAH, OCP

Job Name	Buckland Park	
Job Number	31495	
Sampler	ME	
Well	GW13	
Date	7/5/2008	
Time	10:00	
Purging Method	Bailer	
Depth to GW before purging (m)		3.37
Depth to GW after purging (m)		3.38
Depth to bottom of well (m)		4.85

Calculations

Height (m) = Depth to bottom of well - depth to GW
 4.85-3.37=1.48 (1.48x.00196)=2.9008

Well volume (L) = $\pi r^2 h$
 2.9

Total water purged (L) = Well volume x total well purges

Water Quality

Cumulative Volume

Purged (L)	DO (ppm)	EC (mS)	pH	ReDox (mV)	Temp (°C)
3	3.67	25.9	7.55	125	20.3
6	1.53	26.3	7.6	66	20.6
9	2.8	26.3	7.74	48	20.4
12	1.85	26.2	7.61	66	20.7
15	2.95	24.3	7.67	80	20.6
18	1.66	26.9	7.66	45	20.7
21	1.65	26.9	7.65	45	20.6

Water Quality Description (colour, turbidity, odour, sheen)

Light brown, no sheen or odour

Well Location and Condition

Comments

pH, TDS, PAH, OCP, Metals

Job Name	Buckland Park	
Job Number	31495	
Sampler	ME	
Well	GW14	
Date	7/5/2008	
Time	12.04	
Purging Method	Bailer	
Depth to GW before purging (m)		2.61
Depth to GW after purging (m)		2.65
Depth to bottom of well (m)		5m

Calculations

Height (m) = Depth to bottom of well - depth to GW
 2.39

Well volume (L) = $\pi r^2 h$
 4.7

Total water purged (L) = Well volume x total well purges

Water Quality

Cumulative Volume						
Purged (L)	DO (ppm)	EC (mS)	pH	ReDox (mV)	Temp (°C)	
5	2.12	29.4	7.15	155	20.8	
10	1.8	30.4	7.23	82	20.4	
15	1.86	29.1	7.31	70	20.3	
20	1.22	27.7	7.31	62	20.6	
25	2.05	27.8	7.36	70	20.6	
30	2.05	27.4	7.29	70	20.6	

Water Quality Description (colour, turbidity, odour, sheen)

Light brown, clearer w/bailing
 No odour

Well Location and Condition

Comments

VIC EPA pH TDS

Job Name	Buckland Park	
Job Number	31495	
Sampler	ME	
Well	GW15	
Date		
Time		
Purging Method		
Depth to GW before purging (m)		2.54
Depth to GW after purging (m)		3.36
Depth to bottom of well (m)		3.8

Calculations

Height (m) = Depth to bottom of well - depth to GW
 1.26

Well volume (L) = $\pi r^2 h$
 2.5

Total water purged (L) = Well volume x total well purges

Water Quality

Cumulative Volume

Purged (L)	DO (ppm)	EC (mS)	pH	ReDox (mV)	Temp (°C)
3	3.85	7.02	7.57	297	20.8
6	3.83	7.18	7.7	225	20.8
9	3.9	7.38	7.77	225	20.8

Water Quality Description (colour, turbidity, odour, sheen)

Lots of sediment

Well Location and Condition

Comments

Slow recharge, QC4, QC5

Appendix H

Laboratory Analysis Certificates - Groundwater

Appendix H



This document is issued in accordance with NATA's accreditation requirements.
Accredited for compliance with ISO/IEC 17025

Accreditation Number: 1645



Amended Certificate of Analysis

CONNELL WAGNER (SA) PTY LTD
55 Grenfell St
ADELAIDE SA 5000

Attention: Matt Eygenraamm

Project 08ENME0011740
Client Reference 31495
Buckland Park
Received Date 09/05/2008 09:00:00 AM

Customer Sample ID	GW13	Q10	GW14	QC3	GW6	GW11
Amdel Sample Number	989678		989679	989680	989681	989682
Date Sampled	07/05/2008		07/05/2008	07/05/2008	07/05/2008	08/05/2008
VOC						
Test/Reference	PQL		Unit			
1300 VHCs in Water by P&T						
1,1,1,2-Tetrachloroethane	5		µg/L	-	<5.0	-
1,1,1-Trichloroethane	5		µg/L	-	<5.0	-
1,1,2,2-Tetrachloroethane	5		µg/L	-	<5.0	-
1,1,2-Trichloroethane	5		µg/L	-	<5.0	-
1,1-Dichloroethane	30		µg/L	-	<30.0	-
1,1-Dichloroethene	5		µg/L	-	<5.0	-
1,2,3-Trichlorobenzene	5		µg/L	-	<5.0	-
1,2,4-Trichlorobenzene	5		µg/L	-	<5.0	-
1,2-Dichlorobenzene	5		µg/L	-	<5.0	-
1,2-Dichloropropane	5		µg/L	-	<5.0	-
1,2-Dichloroethane	5		µg/L	-	<5.0	-
1,3-Dichlorobenzene	5		µg/L	-	<5.0	-
1,3-Dichloropropane	5		µg/L	-	<5.0	-
1,4-Dichlorobenzene	5		µg/L	-	<5.0	-
2-Chlorotoluene	5		µg/L	-	<5.0	-
4-Chlorotoluene	5		µg/L	-	<5.0	-
Bromochloromethane	5		µg/L	-	<5.0	-
Bromodichloromethane	5		µg/L	-	<5.0	-
Bromoform	5		µg/L	-	<5.0	-
Carbon Tetrachloride	5		µg/L	-	<5.0	-
Chlorobenzene	5		µg/L	-	<5.0	-
Chloroethane	5		µg/L	-	<5.0	-
Chloroform	10		µg/L	-	<10.0	-
cis-1,2-Dichloroethene	5		µg/L	-	<5.0	-
cis-1,3-Dichloropropene	5		µg/L	-	<5.0	-
Dibromomethane	5		µg/L	-	<5.0	-
Dibromochloromethane	5		µg/L	-	<5.0	-
Hexachlorobutadiene	5		µg/L	-	<5.0	-
Hexachloroethane	5		µg/L	-	<5.0	-
Methylene Chloride	10		µg/L	-	<10.0	-
Pentachloroethane	5		µg/L	-	<5.0	-
Tetrachloroethene	5		µg/L	-	<5.0	-
trans-1,2-Dichloroethene	5		µg/L	-	<5.0	-
trans-1,3-Dichloropropene	5		µg/L	-	<5.0	-
Trichloroethene	5		µg/L	-	<5.0	-
Trichlorofluoromethane	5		µg/L	-	<5.0	-
Vinyl chloride	5		µg/L	-	<5.0	-

Customer Sample ID			GW13	Q10 GW14	QC3	GW6	GW11
Amdel Sample Number			989678	989679	989680	989681	989682
Date Sampled			07/05/2008	07/05/2008	07/05/2008	07/05/2008	08/05/2008
VOC							
Test/Reference	PQL	Unit					
Pentafluorobenzene-Surrogate	1	%	-	94	-	-	-
Toluene-D8 - Surrogate	1	%	-	94	-	-	-
4-Bromofluorobenzene - Surrogate	1	%	-	92	-	-	-
1100 MAH(BTEX & C6-C9) in Water P&T							
Benzene	0.5	µg/L	-	<0.5	-	-	-
Cumene	1	µg/L	-	<1.0	-	-	-
Ethylbenzene	1	µg/L	-	<1.0	-	-	-
Meta- & Para- Xylene	2	µg/L	-	<2.0	-	-	-
Ortho-Xylene	1	µg/L	-	<1.0	-	-	-
Styrene	1	µg/L	-	<1.0	-	-	-
Toluene	1	µg/L	-	<1.0	-	-	-
Total Xylenes	3	µg/L	-	<3.0	-	-	-
C6-C9 Fraction	20	µg/L	-	<20.0	-	-	-
4-Bromofluorobenzene - Surrogate	-	%	-	72	-	-	-
SVOC							
Test/Reference	PQL	Unit					
2300 OC Pesticides in Water by GC-ECD							
a-BHC	1	µg/L	<1	<1	<1	<10	<10
a-Chlordane	1	µg/L	<1	<1	<1	<10	<10
a-Endosulphan	1	µg/L	<1	<1	<1	<10	<10
Aldrin	1	µg/L	<1	<1	<1	<10	<10
b-BHC	2	µg/L	<2	<2	<2	<20	<20
b-Endosulphan	1	µg/L	<1	<1	<1	<10	<10
d-BHC	1	µg/L	<1	<1	<1	<10	<10
DDD	1	µg/L	<1	<1	<1	<10	<10
DDE	1	µg/L	<1	<1	<1	<10	<10
DDT	1	µg/L	<1	<1	<1	<10	<10
Dieldrin	1	µg/L	<1	<1	<1	<10	<10
Endosulfan sulfate	1	µg/L	<1	<1	<1	<10	<10
Endrin	1	µg/L	<1	<1	<1	<10	<10
Endrin Aldehyde	2	µg/L	<2	<2	<2	<20	<20
g-BHC Lindane	1	µg/L	<1	<1	<1	<10	<10
g-Chlordane	1	µg/L	<1	<1	<1	<10	<10
Heptachlor	1	µg/L	<1	<1	<1	<10	<10
Heptachlor epoxide	1	µg/L	<1	<1	<1	<10	<10
Hexachlorobenzene (HCB)	1	µg/L	<1	<1	<1	<10	<10
Methoxychlor	2	µg/L	<2	<2	<2	<20	<20
Oxychlordane	1	µg/L	<1	<1	<1	<10	<10
2,4,5,6-tetrachloro-m-xylene-SURROG ATE	1	%	100	74	87	102	101
2100 PAH in Water by GC							
Acenaphthene	1	µg/L	<1	<1	-	<1	<1
Acenaphthylene	1	µg/L	<1	<1	-	<1	<1
Anthracene	1	µg/L	<1	<1	-	<1	<1
Benz(a)anthracene	1	µg/L	<1	<1	-	<1	<1
Benzo(a)pyrene	1	µg/L	<1	<1	-	<1	<1
Benzo(b)&(k)fluoranthene	2	µg/L	<2	<2	-	<2	<2
Benzo(ghi)perylene	1	µg/L	<1	<1	-	<1	<1
Dibenz(ah)anthracene	1	µg/L	<1	<1	-	<1	<1
Chrysene	1	µg/L	<1	<1	-	<1	<1

Customer Sample ID			GW13	Q10 GW14	QC3	GW6	GW11
Amdel Sample Number			989678	989679	989680	989681	989682
Date Sampled			07/05/2008	07/05/2008	07/05/2008	07/05/2008	08/05/2008
SVOC							
Test/Reference	PQL	Unit					
Naphthalene	1	µg/L	<1	<1	-	<1	<1
Fluoranthene	1	µg/L	<1	<1	-	<1	<1
Fluorene	1	µg/L	<1	<1	-	<1	<1
Indeno(123-cd)pyrene	1	µg/L	<1	<1	-	<1	<1
Phenanthrene	1	µg/L	<1	<1	-	<1	<1
Pyrene	1	µg/L	<1	<1	-	<1	<1
Sum of PAHs	1	µg/L	<1	<1	-	<1	<1
2-Fluorobiphenyl - Surrogate	-	%	95	78	-	80	77
Anthracene-D10 - Surrogate	-	%	107	-	-	85	72
p-Terphenyl-D14 - Surrogate	-	%	100	82	-	86	80
2600 PCBs in Water by GCMS							
Aroclor 1016	1	µg/L	-	<1	-	-	-
Aroclor 1221	1	µg/L	-	<1	-	-	-
Aroclor 1232 and 1242 as total	2	µg/L	-	<2	-	-	-
Aroclor 1248 and 1254 as total	2	µg/L	-	<2	-	-	-
Aroclor 1260	1	µg/L	-	<1	-	-	-
Total Polychlorinated biphenyls	1	µg/L	-	<1	-	-	-
Decachlorobiphenyl - PCB surrogate	1	%	-	105	-	-	-
2800 Individual Phenols in Water by GC							
2,3,4,6-Tetrachlorophenol	10	µg/L	-	<10	-	-	-
2,3,4-Trichlorophenol	10	µg/L	-	<10	-	-	-
2,3,5,6-Tetrachlorophenol	10	µg/L	-	<10	-	-	-
2,3,5-Trichlorophenol	10	µg/L	-	<10	-	-	-
2,3,6-Trichlorophenol	10	µg/L	-	<10	-	-	-
2,3-Dichlorophenol	20	µg/L	-	<20	-	-	-
2,4&2,5-Dichlorophenol	40	µg/L	-	<40	-	-	-
2,4,6-Trichlorophenol	10	µg/L	-	<10	-	-	-
2,6-Dichlorophenol	10	µg/L	-	<10	-	-	-
2-Chlorophenol	10	µg/L	-	<10	-	-	-
2-Methylphenol	10	µg/L	-	<10	-	-	-
3,4-Dichlorophenol	20	µg/L	-	<20	-	-	-
3,5-Dichlorophenol	20	µg/L	-	<20	-	-	-
3-Chlorophenol & 4-Chlorophenol	10	µg/L	-	<10	-	-	-
3-Methylphenol & 4-Methylphenol	10	µg/L	-	<10	-	-	-
4-Chloro-3-methylphenol	10	µg/L	-	<10	-	-	-
Pentachlorophenol	30	µg/L	-	<30	-	-	-
Phenol	10	µg/L	-	<10	-	-	-
2,4,6-Tribromophenol-Surrogate	-	%	-	68	-	-	-
2000 TPH (C10 - C36) in Water by GC							
C10-C14 Fraction	40	µg/L	-	50	-	-	-
C15-C28 Fraction	100	µg/L	-	<100	-	-	-
C29-C36 Fraction	100	µg/L	-	<100	-	-	-
Metals							
Test/Reference	PQL	Unit					
3100 Dissolved Metals in Water By ICP/MS							
Antimony	1	µg/L	-	1.4	-	-	-
Arsenic	5	µg/L	<5	<5	<5	<5	<5
Barium	5	µg/L	-	46	-	-	-
Beryllium	5	µg/L	-	<5	-	-	-
Boron	5	µg/L	-	7000	-	-	-

Customer Sample ID			GW13	Q10 GW14	QC3	GW6	GW11
Amdel Sample Number			989678	989679	989680	989681	989682
Date Sampled			07/05/2008	07/05/2008	07/05/2008	07/05/2008	08/05/2008
Metals							
Test/Reference	PQL	Unit					
Cadmium	2	µg/L	<2	<2	<2	<2	<2
Chromium	5	µg/L	15	-	<5	9.6	17
Cobalt	5	µg/L	-	<5	-	-	-
Copper	5	µg/L	6.9	7.2	<5	5.1	5.4
Lead	5	µg/L	<5	<5	<5	<5	<5
Manganese	5	µg/L	-	400	-	-	-
Molybdenum	5	µg/L	-	15	-	-	-
Nickel	5	µg/L	<5	<5	<5	<5	<5
Selenium	5	µg/L	-	62	-	-	-
Silver	5	µg/L	-	<5	-	-	-
Tin	5	µg/L	-	<5	-	-	-
Vanadium	5	µg/L	-	16	-	-	-
Zinc	5	µg/L	<5	<5	6.2	16	<5
3400 Dissolved Mercury in Water by FIMS							
Mercury	0.1	µg/L	-	<0.1	-	-	-
Inorganics							
Test/Reference	PQL	Unit					
4230 Total Hexavalent Chromium in Water							
Chromium (VI)	0.02	mg/L	-	<0.02	-	-	-
4270 Total Cyanide in Water Colourmetric							
Total Cyanide	0.005	mg/L	-	<0.005	-	-	-
4000 pH in Water							
pH	0.1	pH	7.6	6.1	-	-	7.6
4110 Dissolved Solids in Water							
Total Dissolved Solids	5	mg/L	550	1700	-	-	4500
4300 Anions in Water by IC							
Fluoride	0.5	mg/L	-	<0.5	-	-	-

Customer Sample ID			GW4	GW9	GW7	GW2	GW1
Amdel Sample Number			989683	989684	989685	989686	989687
Date Sampled			08/05/2008	08/05/2008	08/05/2008	06/05/2008	06/05/2008
VOC							
Test/Reference	PQL	Unit					
1300 VHCs in Water by P&T							
1,1,1,2-Tetrachloroethane	5	µg/L	-	<5.0	-	-	<5.0
1,1,1-Trichloroethane	5	µg/L	-	<5.0	-	-	<5.0
1,1,2,2-Tetrachloroethane	5	µg/L	-	<5.0	-	-	<5.0
1,1,2-Trichloroethane	5	µg/L	-	<5.0	-	-	<5.0
1,1-Dichloroethane	30	µg/L	-	<30.0	-	-	<30.0
1,1-Dichloroethene	5	µg/L	-	<5.0	-	-	<5.0
1,2,3-Trichlorobenzene	5	µg/L	-	<5.0	-	-	<5.0
1,2,4-Trichlorobenzene	5	µg/L	-	<5.0	-	-	<5.0
1,2-Dichlorobenzene	5	µg/L	-	<5.0	-	-	<5.0
1,2-Dichloropropane	5	µg/L	-	<5.0	-	-	<5.0
1,2-Dichloroethane	5	µg/L	-	<5.0	-	-	<5.0
1,3-Dichlorobenzene	5	µg/L	-	<5.0	-	-	<5.0
1,3-Dichloropropane	5	µg/L	-	<5.0	-	-	<5.0
1,4-Dichlorobenzene	5	µg/L	-	<5.0	-	-	<5.0

Customer Sample ID			GW4	GW9	GW7	GW2	GW1
Amdel Sample Number			989683	989684	989685	989686	989687
Date Sampled			08/05/2008	08/05/2008	08/05/2008	06/05/2008	06/05/2008
VOC							
Test/Reference	PQL	Unit					
2-Chlorotoluene	5	µg/L	-	<5.0	-	-	<5.0
4-Chlorotoluene	5	µg/L	-	<5.0	-	-	<5.0
Bromochloromethane	5	µg/L	-	<5.0	-	-	<5.0
Bromodichloromethane	5	µg/L	-	<5.0	-	-	<5.0
Bromoform	5	µg/L	-	<5.0	-	-	<5.0
Carbon Tetrachloride	5	µg/L	-	<5.0	-	-	<5.0
Chlorobenzene	5	µg/L	-	<5.0	-	-	<5.0
Chloroethane	5	µg/L	-	<5.0	-	-	<5.0
Chloroform	10	µg/L	-	<10.0	-	-	<10.0
cis-1,2-Dichloroethene	5	µg/L	-	<5.0	-	-	<5.0
cis-1,3-Dichloropropene	5	µg/L	-	<5.0	-	-	<5.0
Dibromomethane	5	µg/L	-	<5.0	-	-	<5.0
Dibromochloromethane	5	µg/L	-	<5.0	-	-	<5.0
Hexachlorobutadiene	5	µg/L	-	<5.0	-	-	<5.0
Hexachloroethane	5	µg/L	-	<5.0	-	-	<5.0
Methylene Chloride	10	µg/L	-	<10.0	-	-	<10.0
Pentachloroethane	5	µg/L	-	<5.0	-	-	<5.0
Tetrachloroethene	5	µg/L	-	<5.0	-	-	<5.0
trans-1,2-Dichloroethene	5	µg/L	-	<5.0	-	-	<5.0
trans-1,3-Dichloropropene	5	µg/L	-	<5.0	-	-	<5.0
Trichloroethene	5	µg/L	-	<5.0	-	-	<5.0
Trichlorofluoromethane	5	µg/L	-	<5.0	-	-	<5.0
Vinyl chloride	5	µg/L	-	<5.0	-	-	<5.0
Pentafluorobenzene-Surrogate	1	%	-	86	-	-	85
Toluene-D8 - Surrogate	1	%	-	104	-	-	104
4-Bromofluorobenzene - Surrogate	1	%	-	87	-	-	96
1100 MAH(BTEX & C6-C9) in Water P&T							
Benzene	0.5	µg/L	-	<0.5	-	-	<0.5
Cumene	1	µg/L	-	<1.0	-	-	<1.0
Ethylbenzene	1	µg/L	-	<1.0	-	-	<1.0
Meta- & Para- Xylene	2	µg/L	-	<2.0	-	-	<2.0
Ortho-Xylene	1	µg/L	-	<1.0	-	-	<1.0
Styrene	1	µg/L	-	<1.0	-	-	<1.0
Toluene	1	µg/L	-	<1.0	-	-	<1.0
Total Xylenes	3	µg/L	-	<3.0	-	-	<3.0
C6-C9 Fraction	20	µg/L	-	<20.0	-	-	<20.0
4-Bromofluorobenzene - Surrogate	-	%	-	82	-	-	84
SVOC							
Test/Reference	PQL	Unit					
2300 OC Pesticides in Water by GC-ECD							
a-BHC	1	µg/L	<1	<1	<1	<1	<1
a-Chlordane	1	µg/L	<1	<1	<1	<1	<1
a-Endosulphan	1	µg/L	<1	<1	<1	<1	<1
Aldrin	1	µg/L	<1	<1	<1	<1	<1
b-BHC	2	µg/L	<2	<2	<2	<2	<2
b-Endosulphan	1	µg/L	<1	<1	<1	<1	<1
d-BHC	1	µg/L	<1	<1	<1	<1	<1
DDD	1	µg/L	<1	<1	<1	<1	<1
DDE	1	µg/L	<1	<1	<1	<1	<1

Customer Sample ID			GW4	GW9	GW7	GW2	GW1
Amdel Sample Number			989683	989684	989685	989686	989687
Date Sampled			08/05/2008	08/05/2008	08/05/2008	06/05/2008	06/05/2008
SVOC							
Test/Reference	PQL	Unit					
DDT	1	µg/L	<1	<1	<1	<1	<1
Dieldrin	1	µg/L	<1	<1	<1	<1	<1
Endosulfan sulfate	1	µg/L	<1	<1	<1	<1	<1
Endrin	1	µg/L	<1	<1	<1	<1	<1
Endrin Aldehyde	2	µg/L	<2	<2	<2	<2	<2
g-BHC Lindane	1	µg/L	<1	<1	<1	<1	<1
g-Chlordane	1	µg/L	<1	<1	<1	<1	<1
Heptachlor	1	µg/L	<1	<1	<1	<1	<1
Heptachlor epoxide	1	µg/L	<1	<1	<1	<1	<1
Hexachlorobenzene (HCB)	1	µg/L	<1	<1	<1	<1	<1
Methoxychlor	2	µg/L	<2	<2	<2	<2	<2
Oxychlordane	1	µg/L	<1	<1	<1	<1	<1
2,4,5,6-tetrachloro-m-xylene-SURROG ATE	1	%	10	81	88	77	74
2100 PAH in Water by GC							
Acenaphthene	1	µg/L	<1	<1	<1	<1	<1
Acenaphthylene	1	µg/L	<1	<1	<1	<1	<1
Anthracene	1	µg/L	<1	<1	<1	<1	<1
Benz(a)anthracene	1	µg/L	<1	<1	<1	<1	<1
Benzo(a)pyrene	1	µg/L	<1	<1	<1	<1	<1
Benzo(b)&(k)fluoranthene	2	µg/L	<2	-	<2	<2	<2
Benzo(ghi)perylene	1	µg/L	<1	<1	<1	<1	<1
Dibenz(ah)anthracene	1	µg/L	<1	<1	<1	<1	<1
Chrysene	1	µg/L	<1	<1	<1	<1	<1
Naphthalene	1	µg/L	<1	<1	<1	<1	<1
Fluoranthene	1	µg/L	<1	<1	<1	<1	<1
Fluorene	1	µg/L	<1	<1	<1	<1	<1
Indeno(123-cd)pyrene	1	µg/L	<1	<1	<1	<1	<1
Phenanthrene	1	µg/L	<1	<1	<1	<1	<1
Pyrene	1	µg/L	<1	<1	<1	<1	<1
Sum of PAHs	1	µg/L	<1	-	<1	<1	<1
2-Fluorobiphenyl - Surrogate	-	%	80	81	83	74	73
Anthracene-D10 - Surrogate	-	%	88	87	91	81	76
p-Terphenyl-D14 - Surrogate	-	%	92	91	96	85	84
2600 PCBs in Water by GCMS							
Aroclor 1016	1	µg/L	-	<1	-	-	<1
Aroclor 1221	1	µg/L	-	<1	-	-	<1
Aroclor 1232 and 1242 as total	2	µg/L	-	<2	-	-	<2
Aroclor 1248 and 1254 as total	2	µg/L	-	<2	-	-	<2
Aroclor 1260	1	µg/L	-	<1	-	-	<1
Total Polychlorinated biphenyls	1	µg/L	-	<1	-	-	<1
Decachlorobiphenyl - PCB surrogate	1	%	-	84	-	-	80
2800 Individual Phenols in Water by GC							
2,3,4,6-Tetrachlorophenol	10	µg/L	-	<10	-	-	<10
2,3,4-Trichlorophenol	10	µg/L	-	<10	-	-	<10
2,3,5,6-Tetrachlorophenol	10	µg/L	-	<10	-	-	<10
2,3,5-Trichlorophenol	10	µg/L	-	<10	-	-	<10
2,3,6-Trichlorophenol	10	µg/L	-	<10	-	-	<10
2,3-Dichlorophenol	20	µg/L	-	<20	-	-	<20
2,4&2,5-Dichlorophenol	40	µg/L	-	<40	-	-	<40

Customer Sample ID			GW4	GW9	GW7	GW2	GW1
Amdel Sample Number			989683	989684	989685	989686	989687
Date Sampled			08/05/2008	08/05/2008	08/05/2008	06/05/2008	06/05/2008
SVOC							
Test/Reference	PQL	Unit					
2,4,6-Trichlorophenol	10	µg/L	-	<10	-	-	<10
2,6-Dichlorophenol	10	µg/L	-	<10	-	-	<10
2-Chlorophenol	10	µg/L	-	<10	-	-	<10
2-Methylphenol	10	µg/L	-	<10	-	-	<10
3,4-Dichlorophenol	20	µg/L	-	<20	-	-	<20
3,5-Dichlorophenol	20	µg/L	-	<20	-	-	<20
3-Chlorophenol & 4-Chlorophenol	10	µg/L	-	<10	-	-	<10
3-Methylphenol & 4-Methylphenol	10	µg/L	-	<10	-	-	<10
4-Chloro-3-methylphenol	10	µg/L	-	<10	-	-	<10
Pentachlorophenol	30	µg/L	-	<30	-	-	<30
Phenol	10	µg/L	-	<10	-	-	<10
2,4,6-Tribromophenol-Surrogate	-	%	-	81	-	-	50
2000 TPH (C10 - C36) in Water by GC							
C10-C14 Fraction	40	µg/L	-	<40	-	-	<40
C15-C28 Fraction	100	µg/L	-	<100	-	-	<100
C29-C36 Fraction	100	µg/L	-	<100	-	-	<100
Metals							
Test/Reference	PQL	Unit					
3100 Dissolved Metals in Water By ICP/MS							
Antimony	1	µg/L	-	<1	-	-	<1
Arsenic	5	µg/L	<5	<5	<5	<5	<5
Barium	5	µg/L	-	43	-	-	24
Beryllium	5	µg/L	-	<5	-	-	<5
Boron	5	µg/L	-	1900	-	-	2600
Cadmium	2	µg/L	<2	<2	<2	<2	<2
Chromium	5	µg/L	14	-	11	16	-
Cobalt	5	µg/L	-	<5	-	-	<5
Copper	5	µg/L	15	<5	<5	<5	<5
Lead	5	µg/L	<5	<5	<5	<5	<5
Manganese	5	µg/L	-	230	-	-	<5
Molybdenum	5	µg/L	-	5.1	-	-	41
Nickel	5	µg/L	7.0	<5	<5	13	<5
Selenium	5	µg/L	-	24	-	-	13
Silver	5	µg/L	-	<5	-	-	<5
Tin	5	µg/L	-	<5	-	-	<5
Vanadium	5	µg/L	-	9.3	-	-	20
Zinc	5	µg/L	5.1	5.4	<5	16	<5
3400 Dissolved Mercury in Water by FIMS							
Mercury	0.1	µg/L	-	<0.1	-	-	<0.1
Inorganics							
Test/Reference	PQL	Unit					
4230 Total Hexavalent Chromium in Water							
Chromium (VI)	0.02	mg/L	-	<0.02	-	-	<0.02
4270 Total Cyanide in Water Colourmetric							
Total Cyanide	0.005	mg/L	-	<0.005	-	-	<0.005
4000 pH in Water							
pH	0.1	pH	-	7.4	7.9	-	-
4110 Dissolved Solids in Water							
Total Dissolved Solids	5	mg/L	-	7700	1300	-	-
4300 Anions in Water by IC							

Customer Sample ID		GW4	GW9	GW7	GW2	GW1
Amdel Sample Number		989683	989684	989685	989686	989687
Date Sampled		08/05/2008	08/05/2008	08/05/2008	06/05/2008	06/05/2008
Inorganics						
Test/Reference	PQL	Unit				
Fluoride	0.5	mg/L	-	1.3	-	2.6

Customer Sample ID		GW3	QC1	QC2
Amdel Sample Number		989688	989689	989690
Date Sampled		06/05/2008	06/05/2008	06/05/2008
SVOC				
Test/Reference	PQL	Unit		

2300 OC Pesticides in Water by GC-ECD

Test/Reference	PQL	Unit	GW3	QC1	QC2
a-BHC	1	µg/L	<10	<10	<1
a-Chlordane	1	µg/L	<10	<10	<1
a-Endosulphan	1	µg/L	<10	<10	<1
Aldrin	1	µg/L	<10	<10	<1
b-BHC	2	µg/L	<20	<20	<2
b-Endosulphan	1	µg/L	<10	<10	<1
d-BHC	1	µg/L	<10	<10	<1
DDD	1	µg/L	<10	<10	<1
DDE	1	µg/L	<10	<10	<1
DDT	1	µg/L	<10	<10	<1
Dieldrin	1	µg/L	<10	<10	<1
Endosulfan sulfate	1	µg/L	<10	<10	<1
Endrin	1	µg/L	<10	<10	<1
Endrin Aldehyde	2	µg/L	<20	<20	<2
g-BHC Lindane	1	µg/L	<10	<10	<1
g-Chlordane	1	µg/L	<10	<10	<1
Heptachlor	1	µg/L	<10	<10	<1
Heptachlor epoxide	1	µg/L	<10	<10	<1
Hexachlorobenzene (HCB)	1	µg/L	<10	<10	<1
Methoxychlor	2	µg/L	<20	<20	<2
Oxychlordane	1	µg/L	<10	<10	<1
2,4,5,6-tetrachloro-m-xylene-SURROG ATE	1	%	95	77	9

2100 PAH in Water by GC

Test/Reference	PQL	Unit	GW3	QC1	QC2
Acenaphthene	1	µg/L	<1	<1	<1
Acenaphthylene	1	µg/L	<1	<1	<1
Anthracene	1	µg/L	<1	<1	<1
Benz(a)anthracene	1	µg/L	<1	<1	<1
Benzo(a)pyrene	1	µg/L	<1	<1	<1
Benzo(b)&(k)fluoranthene	2	µg/L	<2	<2	<2
Benzo(ghi)perylene	1	µg/L	<1	<1	<1
Dibenz(ah)anthracene	1	µg/L	<1	<1	<1
Chrysene	1	µg/L	<1	<1	<1
Naphthalene	1	µg/L	<1	<1	<1
Fluoranthene	1	µg/L	<1	<1	<1
Fluorene	1	µg/L	<1	<1	<1
Indeno(123-cd)pyrene	1	µg/L	<1	<1	<1
Phenanthrene	1	µg/L	<1	<1	<1
Pyrene	1	µg/L	<1	<1	<1
Sum of PAHs	1	µg/L	<1	<1	<1

Customer Sample ID	GW3	QC1	QC2
Amdel Sample Number	989688	989689	989690
Date Sampled	06/05/2008	06/05/2008	06/05/2008

SVOC			
Test/Reference	PQL	Unit	
2-Fluorobiphenyl - Surrogate	-	%	74 70 8
Anthracene-D10 - Surrogate	-	%	75 75 10
p-Terphenyl-D14 - Surrogate	-	%	83 77 10

Metals			
Test/Reference	PQL	Unit	
3100 Dissolved Metals in Water By ICP/MS			
Arsenic	5	µg/L	<5 <5 <5
Cadmium	2	µg/L	<2 <2 <2
Chromium	5	µg/L	16 15 13
Copper	5	µg/L	17 19 21
Lead	5	µg/L	<5 <5 <5
Nickel	5	µg/L	6.4 6.6 6.9
Zinc	5	µg/L	7.5 8.0 9.5

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.

Description	Extracted	Analysed
1100 MAH(BTEX & C6-C9) in Water P&T	15/05/2008	16/05/2008
1300 VHCs in Water by P&T	13/05/2008	16/05/2008
2000 TPH (C10 - C36) in Water by GC	14/05/2008	15/05/2008
2100 PAH in Water by GC	14/05/2008	16/05/2008
2300 OC Pesticides in Water by GC-ECD	14/05/2008	16/05/2008
2600 PCBs in Water by GCMS	14/05/2008	16/05/2008
2800 Individual Phenols in Water by GC	14/05/2008	16/05/2008
3100 Dissolved Metals in Water By ICP/MS	13/05/2008	16/05/2008
3400 Dissolved Mercury in Water by FIMS	13/05/2008	13/05/2008
4000 pH in Water		16/05/2008
4110 Dissolved Solids in Water		15/05/2008
4230 Total Hexavalent Chromium in Water	13/05/2008	13/05/2008
4270 Total Cyanide in Water Colourmetric	12/05/2008	16/05/2008
4300 Anions in Water by IC	12/05/2008	14/05/2008

Test Description

4000 pH in Water

Ideally pH should be determined in the field, therefore this test will not be measured for compliance to Holding Times

Amdel Internal Quality Control Review

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. Amdel QC Acceptance/Rejection criteria are available on request.
3. Proficiency trial results are available on request.
4. Actual PQLs are matrix dependant. Quotes PQLs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spike or surrogate recoveries.
6. Test samples duplicated or spiked, are for this job only and are identified in the following QC report.
7. SVOC analyses on waters are performed on homogenized, unfiltered sample, unless noted otherwise.
8. When individual results are qualified in the body of a report, refer to the qualifier descriptions that follow.

Holding Times

Please refer to 'Sampling and Preservation Chart for Soils & Waters' for holding times. (Form LM-FOR-ADM-020)

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgement.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitability qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT an RPD

Quality Control Results

Laboratory: **EN_METALS**

Sample, Test, Result Reference	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Codes
993754 [Method Blank]						
3400 Dissolved Mercury in Water by FIMS						
Mercury	µg/L	<0.1		< 0.1	T	
994264 [Method Blank]						
3100 Dissolved Metals in Water By ICP/MS						
Antimony	µg/L	<1		< 1	T	
Arsenic	µg/L	<5		< 5	T	
Barium	µg/L	<5		< 5	T	
Beryllium	µg/L	<5		< 5	T	
Boron	µg/L	<5		< 5	T	
Cadmium	µg/L	<2		< 2	T	
Chromium	µg/L	<5		< 5	T	
Cobalt	µg/L	<5		< 5	T	
Copper	µg/L	<5		< 5	T	
Lead	µg/L	<5		< 5	T	
Manganese	µg/L	<5		< 5	T	
Molybdenum	µg/L	<5		< 5	T	
Nickel	µg/L	<5		< 5	T	
Selenium	µg/L	<5		< 5	T	
Tin	µg/L	<5		< 5	T	
Vanadium	µg/L	<5		< 5	T	
Zinc	µg/L	<5		< 5	T	
993755 [Laboratory Control Sample]						
3400 Dissolved Mercury in Water by FIMS						
Mercury	µg/L	9.8	Expected Value	Percent Recovery		
			10.0	98	80-120 %	T

Laboratory: **EN_METALS**

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
994265 [Laboratory Control Sample]							
3100 Dissolved Metals in Water By ICP/MS			Expected Value	Percent Recovery			
Antimony	µg/L	97	100.0	97	80-120 %	T	
Arsenic	µg/L	110	100.0	106	80-120 %	T	
Barium	µg/L	99	100.0	99	80-120 %	T	
Beryllium	µg/L	110	100.0	106	80-120 %	T	
Boron	µg/L	120	100.0	117	80-120 %	T	
Cadmium	µg/L	100	100.0	102	80-120 %	T	
Chromium	µg/L	99	100.0	99	80-120 %	T	
Cobalt	µg/L	100	100.0	100	80-120 %	T	
Copper	µg/L	100	100.0	105	80-120 %	T	
Lead	µg/L	100	100.0	102	80-120 %	T	
Manganese	µg/L	99	100.0	99	80-120 %	T	
Molybdenum	µg/L	120	100.0	115	80-120 %	T	
Nickel	µg/L	100	100.0	102	80-120 %	T	
Selenium	µg/L	110	100.0	106	80-120 %	T	
Tin	µg/L	100	100.0	102	80-120 %	T	
Vanadium	µg/L	100	100.0	100	80-120 %	T	
Zinc	µg/L	110	100.0	106	80-120 %	T	
993172 [Duplicate of 989678]							
3100 Dissolved Metals in Water By ICP/MS			Result 2	RPD			
Arsenic	µg/L	<5	<5	<1	0-10 %	T	
Cadmium	µg/L	<2	<2	<1	0-10 %	T	
Lead	µg/L	<5	<5	<1	0-10 %	T	
Nickel	µg/L	<5	<5	<1	0-10 %	T	
993173 [Duplicate of 989679]							
3100 Dissolved Metals in Water By ICP/MS			Result 2	RPD			
Antimony	µg/L	<1	1.4	<1	0-10 %	T	
Arsenic	µg/L	<5	<5	<1	0-10 %	T	
Barium	µg/L	46	46	1	0-10 %	T	
Beryllium	µg/L	<5	<5	<1	0-10 %	T	
Boron	µg/L	7300	7000	4	0-10 %	T	
Cadmium	µg/L	<2	<2	<1	0-10 %	T	
Cobalt	µg/L	<5	<5	<1	0-10 %	T	
Copper	µg/L	7.9	7.2	10	0-10 %	T	
Lead	µg/L	<5	<5	<1	0-10 %	T	
Manganese	µg/L	400	400	1	0-10 %	T	
Molybdenum	µg/L	16	15	6	0-10 %	T	
Nickel	µg/L	<5	<5	<1	0-10 %	T	
Selenium	µg/L	68	62	8	0-10 %	T	
Silver	µg/L	<5	<5	<1	0-10 %	T	
Tin	µg/L	<5	<5	<1	0-10 %	T	
Vanadium	µg/L	16	16	5	0-10 %	T	
Zinc	µg/L	<5	<5	<1	0-10 %	T	
993184 [Spike of 989681]							
3100 Dissolved Metals in Water By ICP/MS			Spike Value	Percent Recovery			
Cadmium	µg/L	93	100.0	93	80-120 %	T	
Chromium	µg/L	110	100.0	97	80-120 %	T	
Copper	µg/L	97	100.0	92	80-120 %	T	
Lead	µg/L	95	100.0	95	80-120 %	T	
Nickel	µg/L	93	100.0	89	80-120 %	T	
Zinc	µg/L	110	100.0	89	80-120 %	T	

Laboratory: **EN_SVOC**

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
993292 [Method Blank]							
2000 TPH (C10 - C36) in Water by GC							
C10-C14 Fraction	µg/L	<40			< 40	T	
C15-C28 Fraction	µg/L	<100			< 100	T	
C29-C36 Fraction	µg/L	<100			< 100	T	

Laboratory: EN_SVOC

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
994692 [Method Blank]							
2100 PAH in Water by GC							
Acenaphthene	µg/L	<1			< 1	T	
Acenaphthylene	µg/L	<1			< 1	T	
Anthracene	µg/L	<1			< 1	T	
Benz(a)anthracene	µg/L	<1			< 1	T	
Benzo(a)pyrene	µg/L	<1			< 1	T	
Benzo(b)&(k)fluoranthene	µg/L	<2			< 2	T	
Benzo(ghi)perylene	µg/L	<1			< 1	T	
Chrysene	µg/L	<1			< 1	T	
Dibenz(ah)anthracene	µg/L	<1			< 1	T	
Fluoranthene	µg/L	<1			< 1	T	
Fluorene	µg/L	<1			< 1	T	
Indeno(123-cd)pyrene	µg/L	<1			< 1	T	
Naphthalene	µg/L	<1			< 1	T	
Phenanthrene	µg/L	<1			< 1	T	
Pyrene	µg/L	<1			< 1	T	
Sum of PAHs	µg/L	<1			< 1	T	
2-Fluorobiphenyl - Surrogate	%	88			70-130 %	T	
Anthracene-D10 - Surrogate	%	95			70-130 %	T	
p-Terphenyl-D14 - Surrogate	%	100			70-130 %	T	
2300 OC Pesticides in Water by GC-ECD							
a-BHC	µg/L	<1			< 1	T	
a-Chlordane	µg/L	<1			< 1	T	
a-Endosulphan	µg/L	<1			< 1	T	
Aldrin	µg/L	<1			< 1	T	
b-BHC	µg/L	<2			< 2	T	
b-Endosulphan	µg/L	<1			< 1	T	
d-BHC	µg/L	<1			< 1	T	
DDD	µg/L	<1			< 1	T	
DDE	µg/L	<1			< 1	T	
DDT	µg/L	<1			< 1	T	
Dieldrin	µg/L	<1			< 1	T	
Endosulfan sulfate	µg/L	<1			< 1	T	
Endrin	µg/L	<1			< 1	T	
Endrin Aldehyde	µg/L	<2			< 2	T	
g-BHC Lindane	µg/L	<1			< 1	T	
g-Chlordane	µg/L	<1			< 1	T	
Heptachlor	µg/L	<1			< 1	T	
Heptachlor epoxide	µg/L	<1			< 1	T	
Hexachlorobenzene (HCB)	µg/L	<1			< 1	T	
Methoxychlor	µg/L	<2			< 2	T	
Oxychlordane	µg/L	<1			< 1	T	
2,4,5,6-tetrachloro-m-xylene-SURROGATE	%	89			70-130 %	T	
993293 [Laboratory Control Sample]							
2000 TPH (C10 - C36) in Water by GC							
C10-C14 Fraction	µg/L	210	Expected Value	Percent Recovery	70-130 %	T	
C15-C28 Fraction	µg/L	229	200.0	114	70-130 %	T	
C29-C36 Fraction	µg/L	227	200.0	114	70-130 %	T	

Laboratory: EN_SVOC

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
994693 [Laboratory Control Sample]							
2100 PAH in Water by GC			Expected Value	Percent Recovery			
Acenaphthene	µg/L	4.5	4.0	113	70-130 %	T	
Acenaphthylene	µg/L	4.7	4.0	116	70-130 %	T	
Anthracene	µg/L	4.6	4.0	116	70-130 %	T	
Benz(a)anthracene	µg/L	4.9	4.0	122	70-130 %	T	
Benzo(a)pyrene	µg/L	4.9	4.0	121	70-130 %	T	
Benzo(b)&(k)fluoranthene	µg/L	9.7	8.0	122	70-130 %	T	
Benzo(ghi)perylene	µg/L	4.8	4.0	121	70-130 %	T	
Chrysene	µg/L	4.9	4.0	123	70-130 %	T	
Dibenz(ah)anthracene	µg/L	4.9	4.0	121	70-130 %	T	
Fluoranthene	µg/L	5.0	4.0	124	70-130 %	T	
Fluorene	µg/L	4.7	4.0	119	70-130 %	T	
Indeno(123-cd)pyrene	µg/L	4.9	4.0	123	70-130 %	T	
Naphthalene	µg/L	4.6	4.0	116	70-130 %	T	
Phenanthrene	µg/L	4.9	4.0	123	70-130 %	T	
Pyrene	µg/L	4.8	4.0	119	70-130 %	T	
Sum of PAHs	µg/L	77	64.0	120	70-130 %	T	
2-Fluorobiphenyl - Surrogate	%	96			70-130 %	T	
Anthracene-D10 - Surrogate	%	99			70-130 %	T	
p-Terphenyl-D14 - Surrogate	%	105			70-130 %	T	
2300 OC Pesticides in Water by GC-ECD			Expected Value	Percent Recovery			
a-BHC	µg/L	4.5	4.0	111	70-130 %	T	
a-Chlordane	µg/L	4.6	4.0	115	70-130 %	T	
a-Endosulphan	µg/L	4.7	4.0	118	70-130 %	T	
Aldrin	µg/L	4.6	4.0	116	70-130 %	T	
b-BHC	µg/L	4.4	4.0	110	70-130 %	T	
b-Endosulphan	µg/L	4.7	4.0	118	70-130 %	T	
d-BHC	µg/L	4.8	4.0	119	70-130 %	T	
DDD	µg/L	4.5	4.0	112	70-130 %	T	
DDE	µg/L	4.5	4.0	113	70-130 %	T	
DDT	µg/L	5.0	4.0	124	70-130 %	T	
Dieldrin	µg/L	4.5	4.0	112	70-130 %	T	
Endosulfan sulfate	µg/L	4.5	4.0	113	70-130 %	T	
Endrin	µg/L	4.8	4.0	120	70-130 %	T	
Endrin Aldehyde	µg/L	4.3	4.0	108	70-130 %	T	
g-BHC Lindane	µg/L	4.6	4.0	114	70-130 %	T	
g-Chlordane	µg/L	4.4	4.0	110	70-130 %	T	
Heptachlor	µg/L	4.2	4.0	105	70-130 %	T	
Heptachlor epoxide	µg/L	4.1	4.0	102	70-130 %	T	
Methoxychlor	µg/L	4.7	4.0	118	70-130 %	T	
2,4,5,6-tetrachloro-m-xylene-SURROGATE	%	96			70-130 %	T	

Laboratory: EN_SVOC

Sample, Test, Result Reference	Units	Result 1	Result 2	RPD	Acceptance Limits	Pass Limits	Qualifying Codes
993175 [Duplicate of 989678]							
2300 OC Pesticides in Water by GC-ECD			Result 2	RPD			
a-BHC	µg/L	<1	<1	<1	0-20 %	T	
a-Chlordane	µg/L	<1	<1	<1	0-20 %	T	
a-Endosulphan	µg/L	<1	<1	<1	0-20 %	T	
Aldrin	µg/L	<1	<1	<1	0-20 %	T	
b-BHC	µg/L	<2	<2	<1	0-20 %	T	
b-Endosulphan	µg/L	<1	<1	<1	0-20 %	T	
d-BHC	µg/L	<1	<1	<1	0-20 %	T	
DDD	µg/L	<1	<1	<1	0-20 %	T	
DDE	µg/L	<1	<1	<1	0-20 %	T	
DDT	µg/L	<1	<1	<1	0-20 %	T	
Dieldrin	µg/L	<1	<1	<1	0-20 %	T	
Endosulfan sulfate	µg/L	<1	<1	<1	0-20 %	T	
Endrin	µg/L	<1	<1	<1	0-20 %	T	
Endrin Aldehyde	µg/L	<2	<2	<1	0-20 %	T	
g-BHC Lindane	µg/L	<1	<1	<1	0-20 %	T	
g-Chlordane	µg/L	<1	<1	<1	0-20 %	T	
Heptachlor	µg/L	<1	<1	<1	0-20 %	T	
Heptachlor epoxide	µg/L	<1	<1	<1	0-20 %	T	
Hexachlorobenzene (HCB)	µg/L	<1	<1	<1	0-20 %	T	
Methoxychlor	µg/L	<2	<2	<1	0-20 %	T	
Oxychlordane	µg/L	<1	<1	<1	0-20 %	T	
2,4,5,6-tetrachloro-m-xylene-SURROGATE	%	90			70-130 %	T	
993177 [Duplicate of 989679]							
2300 OC Pesticides in Water by GC-ECD			Result 2	RPD			
a-BHC	µg/L	<1	<1	<1	0-20 %	T	
a-Chlordane	µg/L	<1	<1	<1	0-20 %	T	
a-Endosulphan	µg/L	<1	<1	<1	0-20 %	T	
Aldrin	µg/L	<1	<1	<1	0-20 %	T	
b-BHC	µg/L	<2	<2	<1	0-20 %	T	
b-Endosulphan	µg/L	<1	<1	<1	0-20 %	T	
d-BHC	µg/L	<1	<1	<1	0-20 %	T	
DDD	µg/L	<1	<1	<1	0-20 %	T	
DDE	µg/L	<1	<1	<1	0-20 %	T	
DDT	µg/L	<1	<1	<1	0-20 %	T	
Dieldrin	µg/L	<1	<1	<1	0-20 %	T	
Endosulfan sulfate	µg/L	<1	<1	<1	0-20 %	T	
Endrin	µg/L	<1	<1	<1	0-20 %	T	
Endrin Aldehyde	µg/L	<2	<2	<1	0-20 %	T	
g-BHC Lindane	µg/L	<1	<1	<1	0-20 %	T	
g-Chlordane	µg/L	<1	<1	<1	0-20 %	T	
Heptachlor	µg/L	<1	<1	<1	0-20 %	T	
Heptachlor epoxide	µg/L	<1	<1	<1	0-20 %	T	
Hexachlorobenzene (HCB)	µg/L	<1	<1	<1	0-20 %	T	
Methoxychlor	µg/L	<2	<2	<1	0-20 %	T	
Oxychlordane	µg/L	<1	<1	<1	0-20 %	T	
2,4,5,6-tetrachloro-m-xylene-SURROGATE	%	91			70-130 %	T	

Laboratory: EN_SVOC

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
993179 [Duplicate of 989678]							
2100 PAH in Water by GC			Result 2	RPD			
Acenaphthene	µg/L	<1	<1	<1	0-20 %	T	
Acenaphthylene	µg/L	<1	<1	<1	0-20 %	T	
Anthracene	µg/L	<1	<1	<1	0-20 %	T	
Benz(a)anthracene	µg/L	<1	<1	<1	0-20 %	T	
Benzo(a)pyrene	µg/L	<1	<1	<1	0-20 %	T	
Benzo(b)&(k)fluoranthene	µg/L	<2	<2	<1	0-20 %	T	
Benzo(ghi)perylene	µg/L	<1	<1	<1	0-20 %	T	
Chrysene	µg/L	<1	<1	<1	0-20 %	T	
Dibenz(ah)anthracene	µg/L	<1	<1	<1	0-20 %	T	
Fluoranthene	µg/L	<1	<1	<1	0-20 %	T	
Fluorene	µg/L	<1	<1	<1	0-20 %	T	
Indeno(123-cd)pyrene	µg/L	<1	<1	<1	0-20 %	T	
Naphthalene	µg/L	<1	<1	<1	0-20 %	T	
Phenanthrene	µg/L	<1	<1	<1	0-20 %	T	
Pyrene	µg/L	<1	<1	<1	0-20 %	T	
Sum of PAHs	µg/L	<1	<1	N/A	N/A	N/A	
2-Fluorobiphenyl - Surrogate	%	87			70-130 %	T	
Anthracene-D10 - Surrogate	%	99			70-130 %	T	
p-Terphenyl-D14 - Surrogate	%	90			70-130 %	T	
993181 [Duplicate of 989679]							
2100 PAH in Water by GC			Result 2	RPD			
Acenaphthene	µg/L	<1	<1	<1	0-20 %	T	
Acenaphthylene	µg/L	<1	<1	<1	0-20 %	T	
Anthracene	µg/L	<1	<1	<1	0-20 %	T	
Benz(a)anthracene	µg/L	<1	<1	<1	0-20 %	T	
Benzo(a)pyrene	µg/L	<1	<1	<1	0-20 %	T	
Benzo(b)&(k)fluoranthene	µg/L	<2	<2	<1	0-20 %	T	
Benzo(ghi)perylene	µg/L	<1	<1	<1	0-20 %	T	
Chrysene	µg/L	<1	<1	<1	0-20 %	T	
Dibenz(ah)anthracene	µg/L	<1	<1	<1	0-20 %	T	
Fluoranthene	µg/L	<1	<1	<1	0-20 %	T	
Fluorene	µg/L	<1	<1	<1	0-20 %	T	
Indeno(123-cd)pyrene	µg/L	<1	<1	<1	0-20 %	T	
Naphthalene	µg/L	<1	<1	<1	0-20 %	T	
Phenanthrene	µg/L	<1	<1	<1	0-20 %	T	
Pyrene	µg/L	<1	<1	<1	0-20 %	T	
Sum of PAHs	µg/L	<1	<1	N/A	N/A	N/A	
2-Fluorobiphenyl - Surrogate	%	86			70-130 %	T	
Anthracene-D10 - Surrogate	%	100			70-130 %	T	
p-Terphenyl-D14 - Surrogate	%	90			70-130 %	T	

Laboratory: **EN_SVOC**

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
993185 [Spike of 989681]							
2300 OC Pesticides in Water by GC-ECD			Spike Value	Percent Recovery			
a-BHC	µg/L	3.5	4.0	87	70-130 %	T	
a-Chlordane	µg/L	3.6	4.0	90	70-130 %	T	
a-Endosulphan	µg/L	3.9	4.0	97	70-130 %	T	
Aldrin	µg/L	3.3	4.0	82	70-130 %	T	
b-BHC	µg/L	3.7	4.0	93	70-130 %	T	
b-Endosulphan	µg/L	3.6	4.0	90	70-130 %	T	
d-BHC	µg/L	3.7	4.0	93	70-130 %	T	
DDD	µg/L	3.5	4.0	87	70-130 %	T	
DDE	µg/L	3.6	4.0	90	70-130 %	T	
DDT	µg/L	3.5	4.0	88	70-130 %	T	
Dieldrin	µg/L	3.6	4.0	91	70-130 %	T	
Endosulfan sulfate	µg/L	3.2	4.0	79	70-130 %	T	
Endrin	µg/L	3.6	4.0	90	70-130 %	T	
Endrin Aldehyde	µg/L	3.4	4.0	84	70-130 %	T	
g-BHC Lindane	µg/L	3.5	4.0	88	70-130 %	T	
g-Chlordane	µg/L	3.5	4.0	88	70-130 %	T	
Heptachlor	µg/L	2.7	N/A	N/A	N/A	N/A	
Heptachlor epoxide	µg/L	3.3	4.0	82	70-130 %	T	
Hexachlorobenzene (HCB)	µg/L	3.6	N/A	N/A	N/A	N/A	
Methoxychlor	µg/L	3.3	4.0	81	70-130 %	T	
Oxychlordane	µg/L	<1	N/A	N/A	N/A	N/A	
2,4,5,6-tetrachloro-m-xylene-SURROGATE	%	84			70-130 %	T	

Laboratory: **EN_VOC**

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
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Laboratory: EN_VOC

Sample, Test, Result Reference	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Codes
994209 [Method Blank]						
1300 VOCs in Water by P&T						
1,1,1,2-Tetrachloroethane	µg/L	<5.0		< 5	T	
1,1,1-Trichloroethane	µg/L	<5.0		< 5	T	
1,1,2,2-Tetrachloroethane	µg/L	<5.0		< 5	T	
1,1,2-Trichloroethane	µg/L	<5.0		< 5	T	
1,1-Dichloroethane	µg/L	<30.0		< 30	T	
1,1-Dichloroethene	µg/L	<5.0		< 5	T	
1,1-Dichloropropylene	µg/L	<5.0		< 5	T	
1,2,3-Trichloropropane	µg/L	<5.0		< 5	T	
1,2,4-Trimethylbenzene	µg/L	<5.0		< 5	T	
1,2-Dibromoethane	µg/L	<5.0		< 5	T	
1,2-Dichlorobenzene	µg/L	<5.0		< 5	T	
1,2-Dichloroethane	µg/L	<5.0		< 5	T	
1,2-Dichloropropane	µg/L	<5.0		< 5	T	
1,3,5-Trimethylbenzene	µg/L	<5.0		< 5	T	
1,3-Dichlorobenzene	µg/L	<5.0		< 5	T	
1,3-Dichloropropane	µg/L	<5.0		< 5	T	
1,4-Dichlorobenzene	µg/L	<5.0		< 5	T	
2,2-Dichloropropane	µg/L	<30.0		< 30	T	
2-butanone	µg/L	<50.0		< 50	T	
2-Chlorotoluene	µg/L	<5.0		< 5	T	
4-Chlorotoluene	µg/L	<5.0		< 5	T	
4-methyl-2-pentanone	µg/L	<50.0		< 50	T	
Benzene	µg/L	<0.5		< 0.5	T	
Bromobenzene	µg/L	<5.0		< 5	T	
Bromochloromethane	µg/L	<5.0		< 5	T	
Bromodichloromethane	µg/L	<5.0		< 5	T	
Bromoform	µg/L	<5.0		< 5	T	
Bromomethane	µg/L	<5.0		< 5	T	
Carbon Tetrachloride	µg/L	<5.0		< 5	T	
Chlorobenzene	µg/L	<5.0		< 5	T	
Chloroethane	µg/L	<5.0		< 5	T	
Chloroform	µg/L	<10.0		< 10	T	
Chloromethane	µg/L	<5.0		< 5	T	
cis-1,2-Dichloroethene	µg/L	<5.0		< 5	T	
cis-1,3-Dichloropropene	µg/L	<5.0		< 5	T	
Dibromochloromethane	µg/L	<5.0		< 5	T	
Dibromomethane	µg/L	<5.0		< 5	T	
Dichlorodifluoromethane	µg/L	<5.0		< 5	T	
Ethylbenzene	µg/L	<1.0		< 1	T	
Isopropylbenzene	µg/L	<5.0		< 5	T	
Meta- & Para- Xylene	µg/L	<2.0		< 2	T	
Methylene Chloride	µg/L	<10.0		< 10	T	
n-Butylbenzene	µg/L	<5.0		< 5	T	
n-Propylbenzene	µg/L	<5.0		< 5	T	
Ortho-Xylene	µg/L	<1.0		< 1	T	
Pentachloroethane	µg/L	<5.0		< 5	T	
p-Isopropyltoluene	µg/L	<5.0		< 5	T	
sec-Butylbenzene	µg/L	<5.0		< 5	T	
Styrene	µg/L	<5.0		< 5	T	
tert-Butylbenzene	µg/L	<5.0		< 5	T	
Tetrachloroethene	µg/L	<5.0		< 5	T	
Toluene	µg/L	<1.0		< 1	T	
Total Xylenes	µg/L	<3.0		< 3	T	
trans-1,2-Dichloroethene	µg/L	<5.0		< 5	T	
trans-1,3-Dichloropropene	µg/L	<5.0		< 5	T	
Trichloroethene	µg/L	<5.0		< 5	T	
Trichlorofluoromethane	µg/L	<5.0		< 5	T	
Vinyl chloride	µg/L	<5.0		< 5	T	
4-Bromofluorobenzene - Surrogate	%	71		70-130 %	T	

Laboratory: EN_VOC

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
994209 [Method Blank]							
1300 VOCs in Water by P&T							
Pentafluorobenzene-Surrogate	%	111			70-130 %	T	
Toluene-D8 - Surrogate	%	91			70-130 %	T	
998059 [Method Blank]							
1100 MAH(BTEX & C6-C9) in Water P&T							
Benzene	µg/L	<0.5			< 0.5	T	
C6-C9 Fraction	µg/L	<20.0			< 20	T	
Ethylbenzene	µg/L	<1.0			< 1	T	
Meta- & Para- Xylene	µg/L	<2.0			< 2	T	
Ortho-Xylene	µg/L	<1.0			< 1	T	
Toluene	µg/L	<1.0			< 1	T	
Total Xylenes	µg/L	<3.0			< 3	T	
4-Bromofluorobenzene - Surrogate	%	92			70-130 %	T	

Laboratory: EN_VOC

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
994211 [Laboratory Control Sample]							
1300 VOCs in Water by P&T			Expected Value	Percent Recovery			
1,1,1,2-Tetrachloroethane	µg/L	<5.0	N/A	N/A	N/A	N/A	
1,1,1-Trichloroethane	µg/L	21	25.0	84	70-130 %	T	
1,1,2,2-Tetrachloroethane	µg/L	15	N/A	N/A	N/A	N/A	
1,1,2-Trichloroethane	µg/L	19	25.0	74	70-130 %	T	
1,1-Dichloroethane	µg/L	<30.0	25.0	86	70-130 %	T	
1,1-Dichloroethene	µg/L	17	N/A	N/A	N/A	N/A	
1,1-Dichloropropylene	µg/L	<5.0	N/A	N/A	N/A	N/A	
1,2,3-Trichlorobenzene	µg/L	<5.0	N/A	N/A	N/A	N/A	
1,2,3-Trichloropropane	µg/L	<5.0	N/A	N/A	N/A	N/A	
1,2,4-Trichlorobenzene	µg/L	<5.0	N/A	N/A	N/A	N/A	
1,2,4-Trimethylbenzene	µg/L	<5.0	N/A	N/A	N/A	N/A	
1,2-Dibromo-3-chloropropane	µg/L	<5.0	N/A	N/A	N/A	N/A	
1,2-Dibromoethane	µg/L	<5.0	N/A	N/A	N/A	N/A	
1,2-Dichlorobenzene	µg/L	19	25.0	76	70-130 %	T	
1,2-Dichloroethane	µg/L	21	25.0	84	70-130 %	T	
1,2-Dichloropropane	µg/L	19	25.0	77	70-130 %	T	
1,3,5-Trimethylbenzene	µg/L	<5.0	N/A	N/A	N/A	N/A	
1,3-Dichlorobenzene	µg/L	21	25.0	84	70-130 %	T	
1,3-Dichloropropane	µg/L	<5.0	N/A	N/A	N/A	N/A	
1,4-Dichlorobenzene	µg/L	22	25.0	87	70-130 %	T	
2,2-Dichloropropane	µg/L	<30.0	N/A	N/A	N/A	N/A	
2-butanone	µg/L	<50.0	N/A	N/A	N/A	N/A	
2-Chlorotoluene	µg/L	<5.0	N/A	N/A	N/A	N/A	
4-Chlorotoluene	µg/L	<5.0	N/A	N/A	N/A	N/A	
4-methyl-2-pentanone	µg/L	<50.0	N/A	N/A	N/A	N/A	
Benzene	µg/L	20	25.0	80	70-130 %	T	
Bromobenzene	µg/L	<5.0	N/A	N/A	N/A	N/A	
Bromochloromethane	µg/L	<5.0	N/A	N/A	N/A	N/A	
Bromodichloromethane	µg/L	21	25.0	82	70-130 %	T	
Bromoform	µg/L	19	25.0	76	70-130 %	T	
Bromomethane	µg/L	<5.0	N/A	N/A	N/A	N/A	
Carbon Tetrachloride	µg/L	20	25.0	78	70-130 %	T	
Chlorobenzene	µg/L	19	25.0	75	70-130 %	T	
Chloroethane	µg/L	<5.0	N/A	N/A	N/A	N/A	
Chloroform	µg/L	21	25.0	83	70-130 %	T	
Chloromethane	µg/L	<5.0	N/A	N/A	N/A	N/A	
cis-1,2-Dichloroethene	µg/L	<5.0	N/A	N/A	N/A	N/A	
cis-1,3-Dichloropropene	µg/L	19	25.0	76	70-130 %	T	
Dibromochloromethane	µg/L	18	25.0	73	70-130 %	T	
Dibromomethane	µg/L	<5.0	N/A	N/A	N/A	N/A	
Dichlorodifluoromethane	µg/L	<5.0	N/A	N/A	N/A	N/A	
Ethylbenzene	µg/L	20	25.0	78	70-130 %	T	
Hexachlorobutadiene	µg/L	<5.0	N/A	N/A	N/A	N/A	
Hexachloroethane	µg/L	<5.0	N/A	N/A	N/A	N/A	
Isopropylbenzene	µg/L	<5.0	N/A	N/A	N/A	N/A	
Meta- & Para- Xylene	µg/L	<2.0	N/A	N/A	N/A	N/A	
Methylene Chloride	µg/L	16	N/A	N/A	N/A	N/A	
Naphthalene	µg/L	<5.0	N/A	N/A	N/A	N/A	
n-Butylbenzene	µg/L	<5.0	N/A	N/A	N/A	N/A	
n-Propylbenzene	µg/L	<5.0	N/A	N/A	N/A	N/A	
Ortho-Xylene	µg/L	<1.0	N/A	N/A	N/A	N/A	
Pentachloroethane	µg/L	<5.0	N/A	N/A	N/A	N/A	
p-Isopropyltoluene	µg/L	<5.0	N/A	N/A	N/A	N/A	
sec-Butylbenzene	µg/L	<5.0	N/A	N/A	N/A	N/A	
Styrene	µg/L	<5.0	N/A	N/A	N/A	N/A	
tert-Butylbenzene	µg/L	<5.0	N/A	N/A	N/A	N/A	
Tetrachloroethene	µg/L	18	25.0	73	70-130 %	T	
Toluene	µg/L	20	25.0	80	70-130 %	T	
Total Xylenes	µg/L	<3.0	N/A	N/A	N/A	N/A	

Laboratory: **EN_VOC**

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
994211 [Laboratory Control Sample]							
1300 VOCs in Water by P&T			Expected Value	Percent Recovery			
trans-1,2-Dichloroethene	µg/L	20	25.0	80	70-130 %	T	
trans-1,3-Dichloropropene	µg/L	18	25.0	73	70-130 %	T	
Trichloroethene	µg/L	20	25.0	80	70-130 %	T	
Trichlorofluoromethane	µg/L	<5.0	N/A	N/A	N/A	N/A	
Vinyl chloride	µg/L	<5.0	N/A	N/A	N/A	N/A	
4-Bromofluorobenzene - Surrogate	%	79			70-130 %	T	
Pentafluorobenzene-Surrogate	%	102			70-130 %	T	
Toluene-D8 - Surrogate	%	95			70-130 %	T	

998060 [Laboratory Control Sample]							
1100 MAH(BTEX & C6-C9) in Water P&T			Expected Value	Percent Recovery			
Benzene	µg/L	10	10.0	103	70-130 %	T	
C6-C9 Fraction	µg/L	120	140.0	82	70-130 %	T	
Ethylbenzene	µg/L	9.6	10.0	96	70-130 %	T	
Meta- & Para- Xylene	µg/L	19	20.0	95	70-130 %	T	
Ortho-Xylene	µg/L	9.2	10.0	92	70-130 %	T	
Toluene	µg/L	10	10.0	100	70-130 %	T	
Total Xylenes	µg/L	28	N/A	N/A	N/A	N/A	
4-Bromofluorobenzene - Surrogate	%	108			70-130 %	T	

Laboratory: **EN_WATERS**

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
990563 [Method Blank]							
4270 Total Cyanide in Water Colourmetric							
Total Cyanide	mg/L	<0.005			< 0.005	T	
991357 [Method Blank]							
4110 Dissolved Solids in Water							
Total Dissolved Solids	mg/L	<5			< 5	T	
991559 [Method Blank]							
4300 Anions in Water by IC							
Bromide	mg/L	<0.5			< 0.5	T	
Chloride	mg/L	<0.5			< 0.5	T	
Fluoride	mg/L	<0.5			< 0.5	T	
Nitrate	mg/L	<0.5			< 0.5	T	
Nitrite	mg/L	<0.5			< 0.5	T	
Orthophosphate as P	mg/L	<0.5			< 0.5	T	
Sulphate	mg/L	<0.5			< 0.5	T	
995917 [Method Blank]							
4110 Dissolved Solids in Water							
Total Dissolved Solids	mg/L	<5			< 5	T	
990566 [Laboratory Control Sample]							
4270 Total Cyanide in Water Colourmetric			Expected Value	Percent Recovery			
Total Cyanide	mg/L	0.11	0.1	105	75-125 %	T	
991263 [Laboratory Control Sample]							
4000 pH in Water			Expected Value	Percent Recovery			
pH	pH	7.4	7.4	100	95-105 %	T	
991269 [Laboratory Control Sample]							
4000 pH in Water			Expected Value	Percent Recovery			
pH	pH	7.4	7.4	100	95-105 %	T	
991358 [Laboratory Control Sample]							
4110 Dissolved Solids in Water			Expected Value	Percent Recovery			
Total Dissolved Solids	mg/L	1000	1000.0	105	90-110 %	T	

Laboratory: **EN_WATERS**

Sample, Test, Result Reference	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Codes
991563 [Laboratory Control Sample]						
4300 Anions in Water by IC			Expected Value	Percent Recovery		
Bromide	mg/L	95	100.0	95	80-120 %	T
Chloride	mg/L	98	100.0	98	80-120 %	T
Fluoride	mg/L	93	100.0	93	80-120 %	T
Nitrate	mg/L	100	100.0	103	80-120 %	T
Nitrite	mg/L	93	100.0	93	80-120 %	T
Orthophosphate as P	mg/L	91	100.0	91	80-120 %	T
Sulphate	mg/L	94	100.0	94	80-120 %	T
994930 [Laboratory Control Sample]						
4000 pH in Water			Expected Value	Percent Recovery		
pH	pH	7.4	N/A	N/A	N/A	N/A
995918 [Laboratory Control Sample]						
4110 Dissolved Solids in Water			Expected Value	Percent Recovery		
Total Dissolved Solids	mg/L	1000	1000.0	100	90-110 %	T
993182 [Duplicate of 989678]						
4000 pH in Water			Result 2	RPD		
pH	pH	7.6	7.6	0.0	0-0.2 pH	T
993183 [Duplicate of 989678]						
4110 Dissolved Solids in Water			Result 2	RPD		
Total Dissolved Solids	mg/L	570	550	4	0-10 %	T

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Samples correctly preserved	Yes
Organic samples had Teflon liners	N/A
Samples received with Zero Headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code Description

Q10 The Surrogate recovery is outside of the recommended acceptance criteria. Insufficient sample remains to perform re-analysis.

Authorised By

Ruth Callander	Client Services Officer	
Alex Petridis	Senior Analyst - SVOC	Accreditation Number: 1645
Mark Herbstreit	Senior Analyst - Metals	Accreditation Number: 1645
Helen Lei	Senior Analyst - Waters	Accreditation Number: 1645
Khoa Pham	Analyst - VOC	Accreditation Number: 1645

Laboratory Manager

Anthony Crane Operations Manager



Amended Report: To replace Report 302202. A transcription error had occurred in the OCP results for Sample QC3. These were corrected.

- Indicates Not Requested * Indicates NATA accreditation does not cover the performance of this service

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The samples were not collected by Amdel staff.



Certificate of Analysis

CONNELL WAGNER (SA) PTY LTD
55 Grenfell St
ADELAIDE SA 5000

Attention: Matt Eygenraamm

Project 08ENME0012531
Client Reference 31495
Buckland Park
Received Date 16/05/2008 10:00:00 AM

Customer Sample ID		GW5	GW8	GW12	GW10	GW15
Amdel Sample Number		1001368	1001369	1001370	1001371	1001372
Date Sampled		15/05/2008	15/05/2008	15/05/2008	15/05/2008	15/05/2008
VOC						
Test/Reference	PQL	Unit				
1300 VHCs in Water by P&T						
1,1,1,2-Tetrachloroethane	5	µg/L	-	<5.0	-	-
1,1,1-Trichloroethane	5	µg/L	-	<5.0	-	-
1,1,2,2-Tetrachloroethane	5	µg/L	-	<5.0	-	-
1,1,2-Trichloroethane	5	µg/L	-	<5.0	-	-
1,1-Dichloroethane	30	µg/L	-	<30.0	-	-
1,1-Dichloroethene	5	µg/L	-	<5.0	-	-
1,2,3-Trichlorobenzene	5	µg/L	-	<5.0	-	-
1,2,4-Trichlorobenzene	5	µg/L	-	<5.0	-	-
1,2-Dichlorobenzene	5	µg/L	-	<5.0	-	-
1,2-Dichloropropane	5	µg/L	-	<5.0	-	-
1,2-Dichloroethane	5	µg/L	-	<5.0	-	-
1,3-Dichlorobenzene	5	µg/L	-	<5.0	-	-
1,3-Dichloropropane	5	µg/L	-	<5.0	-	-
1,4-Dichlorobenzene	5	µg/L	-	<5.0	-	-
2-Chlorotoluene	5	µg/L	-	<5.0	-	-
4-Chlorotoluene	5	µg/L	-	<5.0	-	-
Bromochloromethane	5	µg/L	-	<5.0	-	-
Bromodichloromethane	5	µg/L	-	<5.0	-	-
Bromoform	5	µg/L	-	<5.0	-	-
Carbon Tetrachloride	5	µg/L	-	<5.0	-	-
Chlorobenzene	5	µg/L	-	<5.0	-	-
Chloroethane	5	µg/L	-	<5.0	-	-
Chloroform	10	µg/L	-	<10.0	-	-
cis-1,2-Dichloroethene	5	µg/L	-	<5.0	-	-
cis-1,3-Dichloropropene	5	µg/L	-	<5.0	-	-
Dibromomethane	5	µg/L	-	<5.0	-	-
Dibromochloromethane	5	µg/L	-	<5.0	-	-
Hexachlorobutadiene	5	µg/L	-	<5.0	-	-
Hexachloroethane	5	µg/L	-	<5.0	-	-
Methylene Chloride	10	µg/L	-	<10.0	-	-
Pentachloroethane	5	µg/L	-	<5.0	-	-
Tetrachloroethene	5	µg/L	-	<5.0	-	-
trans-1,2-Dichloroethene	5	µg/L	-	<5.0	-	-
trans-1,3-Dichloropropene	5	µg/L	-	<5.0	-	-
Trichloroethene	5	µg/L	-	<5.0	-	-
Trichlorofluoromethane	5	µg/L	-	<5.0	-	-
Vinyl chloride	5	µg/L	-	<5.0	-	-

Customer Sample ID	GW5	GW8	GW12	GW10	GW15
Amdel Sample Number	1001368	1001369	1001370	1001371	1001372
Date Sampled	15/05/2008	15/05/2008	15/05/2008	15/05/2008	15/05/2008

VOC						
Test/Reference	PQL	Unit				
Pentafluorobenzene-Surrogate	1	%	-	103	-	-
Toluene-D8 - Surrogate	1	%	-	89	-	-
4-Bromofluorobenzene - Surrogate	1	%	-	84	-	-
1100 MAH(BTEX & C6-C9) in Water P&T						
Benzene	0.5	µg/L	-	<0.5	-	-
Cumene	1	µg/L	-	<1	-	-
Ethylbenzene	1	µg/L	-	<1	-	-
Meta- & Para- Xylene	2	µg/L	-	<2	-	-
Ortho-Xylene	1	µg/L	-	<1	-	-
Styrene	1	µg/L	-	<1	-	-
Toluene	1	µg/L	-	<1	-	-
Total Xylenes	3	µg/L	-	<3	-	-
C6-C9 Fraction	20	µg/L	-	<20	-	-
4-Bromofluorobenzene - Surrogate	-	%	-	90	-	-

SVOC						
Test/Reference	PQL	Unit				
2300 OC Pesticides in Water by GC-ECD						
a-BHC	1	µg/L	<1	<1	<1	<1
a-Chlordane	1	µg/L	<1	<1	<1	<1
a-Endosulphan	1	µg/L	<1	<1	<1	<1
Aldrin	1	µg/L	<1	<1	<1	<1
b-BHC	2	µg/L	<2	<2	<2	<2
b-Endosulphan	1	µg/L	<1	<1	<1	<1
d-BHC	1	µg/L	<1	<1	<1	<1
DDD	1	µg/L	<1	<1	<1	<1
DDE	1	µg/L	<1	<1	<1	<1
DDT	1	µg/L	<1	<1	<1	<1
Dieldrin	1	µg/L	<1	<1	<1	<1
Endosulfan sulfate	1	µg/L	<1	<1	<1	<1
Endrin	1	µg/L	<1	<1	<1	<1
Endrin Aldehyde	2	µg/L	<2	<2	<2	<2
g-BHC Lindane	1	µg/L	<1	<1	<1	<1
g-Chlordane	1	µg/L	<1	<1	<1	<1
Heptachlor	1	µg/L	<1	<1	<1	<1
Heptachlor epoxide	1	µg/L	<1	<1	<1	<1
Hexachlorobenzene (HCB)	1	µg/L	<1	<1	<1	<1
Methoxychlor	2	µg/L	<2	<2	<2	<2
Oxychlordane	1	µg/L	<1	<1	<1	<1
2,4,5,6-tetrachloro-m-xylene-SURROG ATE	1	%	84	125	84	77
2100 PAH in Water by GC						
Acenaphthene	1	µg/L	<1	<1	<1	<1
Acenaphthylene	1	µg/L	<1	<1	<1	<1
Anthracene	1	µg/L	<1	<1	<1	<1
Benz(a)anthracene	1	µg/L	<1	<1	<1	<1
Benzo(a)pyrene	1	µg/L	<1	<1	<1	<1
Benzo(b)&(k)fluoranthene	2	µg/L	<2	<2	<2	<2
Benzo(ghi)perylene	1	µg/L	<1	<1	<1	<1
Dibenz(ah)anthracene	1	µg/L	<1	<1	<1	<1
Chrysene	1	µg/L	<1	<1	<1	<1

Customer Sample ID			GW5	GW8	GW12	GW10	GW15
Amdel Sample Number			1001368	1001369	1001370	1001371	1001372
Date Sampled			15/05/2008	15/05/2008	15/05/2008	15/05/2008	15/05/2008
SVOC							
Test/Reference	PQL	Unit					
Naphthalene	1	µg/L	<1	<1	<1	<1	<1
Fluoranthene	1	µg/L	<1	<1	<1	<1	<1
Fluorene	1	µg/L	<1	<1	<1	<1	<1
Indeno(123-cd)pyrene	1	µg/L	<1	<1	<1	<1	<1
Phenanthrene	1	µg/L	<1	<1	<1	<1	<1
Pyrene	1	µg/L	<1	<1	<1	<1	<1
Sum of PAHs	1	µg/L	<1	<1	<1	<1	<1
2-Fluorobiphenyl - Surrogate	-	%	85	76	83	74	82
Anthracene-D10 - Surrogate	-	%	96	82	94	85	80
p-Terphenyl-D14 - Surrogate	-	%	86	81	83	74	74
2600 PCBs in Water by GCMS							
Aroclor 1016	1	µg/L	-	<1	-	-	-
Aroclor 1221	1	µg/L	-	<1	-	-	-
Aroclor 1232 and 1242 as total	2	µg/L	-	<2	-	-	-
Aroclor 1248 and 1254 as total	2	µg/L	-	<2	-	-	-
Aroclor 1260	1	µg/L	-	<1	-	-	-
Total Polychlorinated biphenyls	1	µg/L	-	<1	-	-	-
Decachlorobiphenyl - PCB surrogate	1	%	-	73	-	-	-
2800 Individual Phenols in Water by GC							
2,3,4,6-Tetrachlorophenol	10	µg/L	-	<10	-	-	-
2,3,4-Trichlorophenol	10	µg/L	-	<10	-	-	-
2,3,5,6-Tetrachlorophenol	10	µg/L	-	<10	-	-	-
2,3,5-Trichlorophenol	10	µg/L	-	<10	-	-	-
2,3,6-Trichlorophenol	10	µg/L	-	<10	-	-	-
2,3-Dichlorophenol	20	µg/L	-	<20	-	-	-
2,4&2,5-Dichlorophenol	40	µg/L	-	<40	-	-	-
2,4,6-Trichlorophenol	10	µg/L	-	<10	-	-	-
2,6-Dichlorophenol	10	µg/L	-	<10	-	-	-
2-Chlorophenol	10	µg/L	-	<10	-	-	-
2-Methylphenol	10	µg/L	-	<10	-	-	-
3,4-Dichlorophenol	20	µg/L	-	<20	-	-	-
3,5-Dichlorophenol	20	µg/L	-	<20	-	-	-
3-Chlorophenol & 4-Chlorophenol	10	µg/L	-	<10	-	-	-
3-Methylphenol & 4-Methylphenol	10	µg/L	-	<10	-	-	-
4-Chloro-3-methylphenol	10	µg/L	-	<10	-	-	-
Pentachlorophenol	30	µg/L	-	<30	-	-	-
Phenol	10	µg/L	-	<10	-	-	-
2,4,6-Tribromophenol-Surrogate	-	%	-	76	-	-	-
2000 TPH (C10 - C36) in Water by GC							
C10-C14 Fraction	40	µg/L	-	<40	-	-	-
C15-C28 Fraction	100	µg/L	-	<100	-	-	-
C29-C36 Fraction	100	µg/L	-	<100	-	-	-
Metals							
Test/Reference	PQL	Unit					
3100 Dissolved Metals in Water By ICP/MS							
Antimony	1	µg/L	-	<1	-	-	-
Arsenic	5	µg/L	<5	<5	<5	<5	<5
Barium	5	µg/L	-	66	-	-	-
Beryllium	5	µg/L	-	<5	-	-	-
Boron	5	µg/L	-	2900	-	-	-

Customer Sample ID			GW5	GW8	GW12	GW10	GW15
Amdel Sample Number			1001368	1001369	1001370	1001371	1001372
Date Sampled			15/05/2008	15/05/2008	15/05/2008	15/05/2008	15/05/2008
Metals							
Test/Reference	PQL	Unit					
Cadmium	2	µg/L	<2	<2	<2	<2	<2
Chromium	5	µg/L	19	-	20	12	17
Cobalt	5	µg/L	-	<5	-	-	-
Copper	5	µg/L	8.4	<5	5.4	<5	9.7
Lead	5	µg/L	<5	<5	<5	<5	<5
Manganese	5	µg/L	-	26	-	-	-
Molybdenum	5	µg/L	-	18	-	-	-
Nickel	5	µg/L	17	<5	8.2	<5	9.4
Selenium	5	µg/L	-	65	-	-	-
Silver	5	µg/L	-	<5	-	-	-
Tin	5	µg/L	-	<5	-	-	-
Vanadium	5	µg/L	-	11	-	-	-
Zinc	5	µg/L	7.7	<5	6.2	<5	<5
3400 Dissolved Mercury in Water by FIMS							
Mercury	0.1	µg/L	-	<0.1	-	-	-
Inorganics							
Test/Reference	PQL	Unit					
4230 Total Hexavalent Chromium in Water							
Chromium (VI)	0.02	mg/L	-	<0.02	-	-	-
4270 Total Cyanide in Water Colourmetric							
Total Cyanide	0.005	mg/L	-	<0.005	-	-	-
4000 pH in Water							
pH	0.1	pH	-	7.7	7.0	7.6	8.0
4110 Dissolved Solids in Water							
Total Dissolved Solids	5	mg/L	-	680	5600	5900	2300
4300 Anions in Water by IC							
Fluoride	0.5	mg/L	-	2.4	-	-	-

Customer Sample ID			QC4	QC6
Amdel Sample Number			1001373	1001374
Date Sampled			15/05/2008	15/05/2008
SVOC				
Test/Reference	PQL	Unit		
2300 OC Pesticides in Water by GC-ECD				
a-BHC	1	µg/L	<1	<1
a-Chlordane	1	µg/L	<1	<1
a-Endosulphan	1	µg/L	<1	<1
Aldrin	1	µg/L	<1	<1
b-BHC	2	µg/L	<2	<2
b-Endosulphan	1	µg/L	<1	<1
d-BHC	1	µg/L	<1	<1
DDD	1	µg/L	<1	<1
DDE	1	µg/L	<1	<1
DDT	1	µg/L	<1	<1
Dieldrin	1	µg/L	<1	<1
Endosulfan sulfate	1	µg/L	<1	<1
Endrin	1	µg/L	<1	<1
Endrin Aldehyde	2	µg/L	<2	<2

Customer Sample ID	QC4	QC6
Amdel Sample Number	1001373	1001374
Date Sampled	15/05/2008	15/05/2008

SVOC				
Test/Reference	PQL	Unit		
g-BHC Lindane	1	µg/L	<1	<1
g-Chlordane	1	µg/L	<1	<1
Heptachlor	1	µg/L	<1	<1
Heptachlor epoxide	1	µg/L	<1	<1
Hexachlorobenzene (HCB)	1	µg/L	<1	<1
Methoxychlor	2	µg/L	<2	<2
Oxychlordane	1	µg/L	<1	<1
2,4,5,6-tetrachloro-m-xylene-SURROG ATE	1	%	75	82

2100 PAH in Water by GC				
Test/Reference	PQL	Unit		
Acenaphthene	1	µg/L	<1	-
Acenaphthylene	1	µg/L	<1	-
Anthracene	1	µg/L	<1	-
Benz(a)anthracene	1	µg/L	<1	-
Benzo(a)pyrene	1	µg/L	<1	-
Benzo(b)&(k)fluoranthene	2	µg/L	<2	-
Benzo(ghi)perylene	1	µg/L	<1	-
Dibenz(ah)anthracene	1	µg/L	<1	-
Chrysene	1	µg/L	<1	-
Naphthalene	1	µg/L	<1	-
Fluoranthene	1	µg/L	<1	-
Fluorene	1	µg/L	<1	-
Indeno(123-cd)pyrene	1	µg/L	<1	-
Phenanthrene	1	µg/L	<1	-
Pyrene	1	µg/L	<1	-
Sum of PAHs	1	µg/L	<1	-
2-Fluorobiphenyl - Surrogate	-	%	82	-
Anthracene-D10 - Surrogate	-	%	82	-
p-Terphenyl-D14 - Surrogate	-	%	75	-

Metals				
Test/Reference	PQL	Unit		
3100 Dissolved Metals in Water By ICP/MS				
Arsenic	5	µg/L	<5	<5
Cadmium	2	µg/L	<2	<2
Chromium	5	µg/L	18	<5
Copper	5	µg/L	9.3	52
Lead	5	µg/L	<5	<5
Nickel	5	µg/L	9.2	<5
Zinc	5	µg/L	<5	<5

Inorganics				
Test/Reference	PQL	Unit		
4000 pH in Water				
pH	0.1	pH	8.0	-
4110 Dissolved Solids in Water				
Total Dissolved Solids	5	mg/L	5400	-

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.

Description	Extracted	Analysed
1100 MAH(BTEX & C6-C9) in Water P&T		26/05/2008
1300 VHCs in Water by P&T	20/05/2008	23/05/2008
2000 TPH (C10 - C36) in Water by GC	20/05/2008	21/05/2008
2100 PAH in Water by GC	20/05/2008	23/05/2008
2300 OC Pesticides in Water by GC-ECD	20/05/2008	21/05/2008
2600 PCBs in Water by GCMS	20/05/2008	23/05/2008
2800 Individual Phenols in Water by GC	20/05/2008	21/05/2008
3100 Dissolved Metals in Water By ICP/MS	20/05/2008	21/05/2008
3400 Dissolved Mercury in Water by FIMS	20/05/2008	21/05/2008
4000 pH in Water		20/05/2008
4110 Dissolved Solids in Water		21/05/2008
4230 Total Hexavalent Chromium in Water	22/05/2008	22/05/2008
4270 Total Cyanide in Water Colourmetric	19/05/2008	20/05/2008
4300 Anions in Water by IC	19/05/2008	21/05/2008

Test Description

4000 pH in Water

Ideally pH should be determined in the field, therefore this test will not be measured for compliance to Holding Times

Amdel Internal Quality Control Review

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. Amdel QC Acceptance/Rejection criteria are available on request.
3. Proficiency trial results are available on request.
4. Actual PQLs are matrix dependant. Quotes PQLs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spike or surrogate recoveries.
6. Test samples duplicated or spiked, are for this job only and are identified in the following QC report.
7. SVOC analyses on waters are performed on homogenized, unfiltered sample, unless noted otherwise.
8. When individual results are qualified in the body of a report, refer to the qualifier descriptions that follow.

Holding Times

Please refer to 'Sampling and Preservation Chart for Soils & Waters' for holding times. (Form LM-FOR-ADM-020)

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Acknowledgement.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitability qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT an RPD

Quality Control Results

Laboratory: **EN_METALS**

Sample, Test, Result Reference	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Codes
1005677 [Method Blank]						
3100 Dissolved Metals in Water By ICP/MS						
Antimony	µg/L	<1		< 1	T	
Arsenic	µg/L	<5		< 5	T	
Barium	µg/L	<5		< 5	T	
Beryllium	µg/L	<5		< 5	T	
Boron	µg/L	<5		< 5	T	
Cadmium	µg/L	<2		< 2	T	
Chromium	µg/L	<5		< 5	T	
Cobalt	µg/L	<5		< 5	T	
Copper	µg/L	<5		< 5	T	
Lead	µg/L	<5		< 5	T	
Manganese	µg/L	<5		< 5	T	
Molybdenum	µg/L	<5		< 5	T	
Nickel	µg/L	<5		< 5	T	
Selenium	µg/L	<5		< 5	T	
Tin	µg/L	<5		< 5	T	
Vanadium	µg/L	<5		< 5	T	
Zinc	µg/L	<5		< 5	T	
1007309 [Method Blank]						
3400 Dissolved Mercury in Water by FIMS						
Mercury	µg/L	<0.1		< 0.1	T	
1007359 [Method Blank]						
3400 Dissolved Mercury in Water by FIMS						
Mercury	µg/L	<0.1		< 0.1	T	

Laboratory: EN_METALS

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
1005678 [Laboratory Control Sample]							
3100 Dissolved Metals in Water By ICP/MS			Expected Value	Percent Recovery			
Antimony	µg/L	100	100.0	103	80-120 %	T	
Arsenic	µg/L	98	100.0	98	80-120 %	T	
Barium	µg/L	110	100.0	107	80-120 %	T	
Beryllium	µg/L	88	100.0	88	80-120 %	T	
Boron	µg/L	90	100.0	90	80-120 %	T	
Cadmium	µg/L	100	100.0	104	80-120 %	T	
Chromium	µg/L	98	100.0	98	80-120 %	T	
Cobalt	µg/L	93	100.0	93	80-120 %	T	
Copper	µg/L	98	100.0	98	80-120 %	T	
Lead	µg/L	110	100.0	105	80-120 %	T	
Manganese	µg/L	92	100.0	92	80-120 %	T	
Molybdenum	µg/L	110	100.0	112	80-120 %	T	
Nickel	µg/L	94	100.0	94	80-120 %	T	
Selenium	µg/L	100	100.0	101	80-120 %	T	
Tin	µg/L	100	100.0	102	80-120 %	T	
Vanadium	µg/L	89	100.0	89	80-120 %	T	
Zinc	µg/L	98	100.0	98	80-120 %	T	
1007360 [Laboratory Control Sample]							
3400 Dissolved Mercury in Water by FIMS			Expected Value	Percent Recovery			
Mercury	µg/L	10.0	10.0	100	80-120 %	T	
1003317 [Duplicate of 1001369]							
3100 Dissolved Metals in Water By ICP/MS			Result 2	RPD			
Antimony	µg/L	<1	<1	<1	0-10 %	T	
Arsenic	µg/L	<5	<5	<1	0-10 %	T	
Barium	µg/L	65	66	2	0-10 %	T	
Beryllium	µg/L	<5	<5	<1	0-10 %	T	
Boron	µg/L	2900	2900	1	0-10 %	T	
Cadmium	µg/L	<2	<2	<1	0-10 %	T	
Cobalt	µg/L	<5	<5	<1	0-10 %	T	
Copper	µg/L	<5	<5	<1	0-10 %	T	
Lead	µg/L	<5	<5	<1	0-10 %	T	
Manganese	µg/L	26	26	2	0-10 %	T	
Molybdenum	µg/L	20	18	10	0-10 %	T	
Nickel	µg/L	<5	<5	<1	0-10 %	T	
Selenium	µg/L	66	65	1	0-10 %	T	
Silver	µg/L	<5	<5	<1	0-10 %	T	
Tin	µg/L	<5	<5	<1	0-10 %	T	
Vanadium	µg/L	11	11	<1	0-10 %	T	
Zinc	µg/L	<5	<5	<1	0-10 %	T	
1003322 [Spike of 1001368]							
3100 Dissolved Metals in Water By ICP/MS			Spike Value	Percent Recovery			
Cadmium	µg/L	100	100.0	100	80-120 %	T	
Chromium	µg/L	120	100.0	97	80-120 %	T	
Copper	µg/L	98	100.0	90	80-120 %	T	
Lead	µg/L	110	100.0	106	80-120 %	T	
Nickel	µg/L	100	100.0	87	80-120 %	T	
Zinc	µg/L	99	100.0	92	80-120 %	T	

Laboratory: EN_SVOC

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
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Laboratory: EN_SVOC

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
1003400 [Method Blank]							
2100 PAH in Water by GC							
Acenaphthene	µg/L	<1			< 1	T	
Acenaphthylene	µg/L	<1			< 1	T	
Anthracene	µg/L	<1			< 1	T	
Benz(a)anthracene	µg/L	<1			< 1	T	
Benzo(a)pyrene	µg/L	<1			< 1	T	
Benzo(b)&(k)fluoranthene	µg/L	<2			< 2	T	
Benzo(ghi)perylene	µg/L	<1			< 1	T	
Chrysene	µg/L	<1			< 1	T	
Dibenz(ah)anthracene	µg/L	<1			< 1	T	
Fluoranthene	µg/L	<1			< 1	T	
Fluorene	µg/L	<1			< 1	T	
Indeno(123-cd)pyrene	µg/L	<1			< 1	T	
Naphthalene	µg/L	<1			< 1	T	
Phenanthrene	µg/L	<1			< 1	T	
Pyrene	µg/L	<1			< 1	T	
Sum of PAHs	µg/L	<1			< 1	T	
2-Fluorobiphenyl - Surrogate	%	76			70-130 %	T	
Anthracene-D10 - Surrogate	%	90			70-130 %	T	
p-Terphenyl-D14 - Surrogate	%	91			70-130 %	T	
2600 PCBs in Water by GCMS							
Aroclor 1016	µg/L	<1			< 1	T	
Aroclor 1221	µg/L	<1			< 1	T	
Aroclor 1232 and 1242 as total	µg/L	<2			< 2	T	
Aroclor 1248 and 1254 as total	µg/L	<2			< 2	T	
Aroclor 1260	µg/L	<1			< 1	T	
Total Polychlorinated biphenyls	µg/L	<1			< 1	T	
Decachlorobiphenyl - PCB surrogate	%	80			70-130 %	T	
1003975 [Method Blank]							
2000 TPH (C10 - C36) in Water by GC							
C10-C14 Fraction	µg/L	<40			< 40	T	
C15-C28 Fraction	µg/L	<100			< 100	T	
C29-C36 Fraction	µg/L	<100			< 100	T	
1003976 [Laboratory Control Sample]							
2000 TPH (C10 - C36) in Water by GC							
C10-C14 Fraction	µg/L	150	Expected Value	200.0	Percent Recovery	75	70-130 %
C15-C28 Fraction	µg/L	184	200.0	92	70-130 %	T	
C29-C36 Fraction	µg/L	185	200.0	92	70-130 %	T	

Laboratory: EN_SVOC

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
1003978 [Laboratory Control Sample]							
2100 PAH in Water by GC			Expected Value	Percent Recovery			
Acenaphthene	µg/L	3.7	4.0	93	70-130 %	T	
Acenaphthylene	µg/L	3.5	4.0	87	70-130 %	T	
Anthracene	µg/L	3.8	4.0	94	70-130 %	T	
Benz(a)anthracene	µg/L	3.4	4.0	85	70-130 %	T	
Benzo(a)pyrene	µg/L	3.4	4.0	84	70-130 %	T	
Benzo(b)&(k)fluoranthene	µg/L	6.7	8.0	84	70-130 %	T	
Benzo(ghi)perylene	µg/L	3.4	4.0	84	70-130 %	T	
Chrysene	µg/L	3.3	4.0	83	70-130 %	T	
Dibenz(ah)anthracene	µg/L	3.2	4.0	81	70-130 %	T	
Fluoranthene	µg/L	3.5	4.0	87	70-130 %	T	
Fluorene	µg/L	3.7	4.0	93	70-130 %	T	
Indeno(123-cd)pyrene	µg/L	3.4	4.0	84	70-130 %	T	
Naphthalene	µg/L	3.6	4.0	90	70-130 %	T	
Phenanthrene	µg/L	3.8	4.0	94	70-130 %	T	
Pyrene	µg/L	3.4	4.0	86	70-130 %	T	
Sum of PAHs	µg/L	56	64.0	87	70-130 %	T	
2-Fluorobiphenyl - Surrogate	%	91			70-130 %	T	
Anthracene-D10 - Surrogate	%	105			70-130 %	T	
p-Terphenyl-D14 - Surrogate	%	97			70-130 %	T	
2300 OC Pesticides in Water by GC-ECD			Expected Value	Percent Recovery			
a-BHC	µg/L	4.3	4.0	108	70-130 %	T	
a-Chlordane	µg/L	4.2	4.0	106	70-130 %	T	
a-Endosulphan	µg/L	3.9	4.0	97	70-130 %	T	
Aldrin	µg/L	4.3	4.0	107	70-130 %	T	
b-BHC	µg/L	4.5	4.0	113	70-130 %	T	
b-Endosulphan	µg/L	4.2	4.0	104	70-130 %	T	
d-BHC	µg/L	4.5	4.0	111	70-130 %	T	
DDD	µg/L	4.0	4.0	100	70-130 %	T	
DDE	µg/L	4.0	4.0	100	70-130 %	T	
DDT	µg/L	4.4	4.0	109	70-130 %	T	
Dieldrin	µg/L	4.0	4.0	100	70-130 %	T	
Endosulfan sulfate	µg/L	5.0	4.0	125	70-130 %	T	
Endrin	µg/L	4.2	4.0	106	70-130 %	T	
Endrin Aldehyde	µg/L	3.9	4.0	98	70-130 %	T	
g-BHC Lindane	µg/L	4.4	4.0	109	70-130 %	T	
g-Chlordane	µg/L	4.2	4.0	106	70-130 %	T	
Heptachlor	µg/L	4.2	4.0	104	70-130 %	T	
Heptachlor epoxide	µg/L	3.8	4.0	95	70-130 %	T	
Methoxychlor	µg/L	4.2	4.0	106	70-130 %	T	
2,4,5,6-tetrachloro-m-xylene-SURROGATE	%	93			70-130 %	T	

Laboratory: EN_SVOC

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
1003318 [Duplicate of 1001369]							
2300 OC Pesticides in Water by GC-ECD			Result 2	RPD			
a-BHC	µg/L	<1	<1	<1	0-20 %	T	
a-Chlordane	µg/L	<1	<1	<1	0-20 %	T	
a-Endosulphan	µg/L	<1	<1	<1	0-20 %	T	
Aldrin	µg/L	<1	<1	<1	0-20 %	T	
b-BHC	µg/L	<2	<2	<1	0-20 %	T	
b-Endosulphan	µg/L	<1	<1	<1	0-20 %	T	
d-BHC	µg/L	<1	<1	<1	0-20 %	T	
DDD	µg/L	<1	<1	<1	0-20 %	T	
DDE	µg/L	<1	<1	<1	0-20 %	T	
DDT	µg/L	<1	<1	<1	0-20 %	T	
Dieldrin	µg/L	<1	<1	<1	0-20 %	T	
Endosulfan sulfate	µg/L	<1	<1	<1	0-20 %	T	
Endrin	µg/L	<1	<1	<1	0-20 %	T	
Endrin Aldehyde	µg/L	<2	<2	<1	0-20 %	T	
g-BHC Lindane	µg/L	<1	<1	<1	0-20 %	T	
g-Chlordane	µg/L	<1	<1	<1	0-20 %	T	
Heptachlor	µg/L	<1	<1	<1	0-20 %	T	
Heptachlor epoxide	µg/L	<1	<1	<1	0-20 %	T	
Hexachlorobenzene (HCB)	µg/L	<1	<1	<1	0-20 %	T	
Methoxychlor	µg/L	<2	<2	<1	0-20 %	T	
Oxychlordane	µg/L	<1	<1	<1	0-20 %	T	
2,4,5,6-tetrachloro-m-xylene-SURROGATE	%	70			70-130 %	T	
1003319 [Duplicate of 1001369]							
2100 PAH in Water by GC			Result 2	RPD			
Acenaphthene	µg/L	<1	<1	<1	0-20 %	T	
Acenaphthylene	µg/L	<1	<1	<1	0-20 %	T	
Anthracene	µg/L	<1	<1	<1	0-20 %	T	
Benz(a)anthracene	µg/L	<1	<1	<1	0-20 %	T	
Benzo(a)pyrene	µg/L	<1	<1	<1	0-20 %	T	
Benzo(b)&(k)fluoranthene	µg/L	<2	<2	N/A	N/A	N/A	
Benzo(ghi)perylene	µg/L	<1	<1	<1	0-20 %	T	
Chrysene	µg/L	<1	<1	<1	0-20 %	T	
Dibenz(ah)anthracene	µg/L	<1	<1	<1	0-20 %	T	
Fluoranthene	µg/L	<1	<1	<1	0-20 %	T	
Fluorene	µg/L	<1	<1	<1	0-20 %	T	
Indeno(123-cd)pyrene	µg/L	<1	<1	<1	0-20 %	T	
Naphthalene	µg/L	<1	<1	<1	0-20 %	T	
Phenanthrene	µg/L	<1	<1	<1	0-20 %	T	
Pyrene	µg/L	<1	<1	<1	0-20 %	T	
Sum of PAHs	µg/L	<1	<1	N/A	N/A	N/A	
Anthracene-D10 - Surrogate	%	79			70-130 %	T	
p-Terphenyl-D14 - Surrogate	%	72			70-130 %	T	

Laboratory: EN_SVOC

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
1003323 [Spike of 1001368]							
2300 OC Pesticides in Water by GC-ECD			Spike Value	Percent Recovery			
a-BHC	µg/L	3.8	4.0	95	70-130 %	T	
a-Chlordane	µg/L	3.9	4.0	99	70-130 %	T	
a-Endosulphan	µg/L	3.6	4.0	90	70-130 %	T	
Aldrin	µg/L	3.5	4.0	86	70-130 %	T	
b-BHC	µg/L	3.8	4.0	94	70-130 %	T	
b-Endosulphan	µg/L	3.6	4.0	89	70-130 %	T	
d-BHC	µg/L	3.9	4.0	97	70-130 %	T	
DDD	µg/L	3.4	4.0	86	70-130 %	T	
DDE	µg/L	3.5	4.0	88	70-130 %	T	
DDT	µg/L	3.5	4.0	87	70-130 %	T	
Dieldrin	µg/L	3.4	4.0	86	70-130 %	T	
Endosulfan sulfate	µg/L	2.9	4.0	73	70-130 %	T	
Endrin	µg/L	4.1	4.0	102	70-130 %	T	
Endrin Aldehyde	µg/L	3.2	4.0	81	70-130 %	T	
g-BHC Lindane	µg/L	3.8	4.0	95	70-130 %	T	
g-Chlordane	µg/L	3.7	4.0	93	70-130 %	T	
Heptachlor	µg/L	2.7	N/A	N/A	N/A	N/A	
Heptachlor epoxide	µg/L	3.3	4.0	82	70-130 %	T	
Hexachlorobenzene (HCB)	µg/L	3.9	N/A	N/A	N/A	N/A	
Methoxychlor	µg/L	3.4	4.0	84	70-130 %	T	
Oxychlordane	µg/L	<1	N/A	N/A	N/A	N/A	
2,4,5,6-tetrachloro-m-xylene-SURROGATE	%	74			70-130 %	T	

Laboratory: EN_VOC

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
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Laboratory: EN_VOC

Sample, Test, Result Reference	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Codes
1006090 [Method Blank]						
1300 VOCs in Water by P&T						
1,1,1,2-Tetrachloroethane	µg/L	<5.0		< 5	T	
1,1,1-Trichloroethane	µg/L	<5.0		< 5	T	
1,1,2,2-Tetrachloroethane	µg/L	<5.0		< 5	T	
1,1,2-Trichloroethane	µg/L	<5.0		< 5	T	
1,1-Dichloroethane	µg/L	<30.0		< 30	T	
1,1-Dichloroethene	µg/L	<5.0		< 5	T	
1,1-Dichloropropylene	µg/L	<5.0		< 5	T	
1,2,3-Trichlorobenzene	µg/L	<5.0		< 5	T	
1,2,3-Trichloropropane	µg/L	<5.0		< 5	T	
1,2,4-Trichlorobenzene	µg/L	<5.0		< 5	T	
1,2,4-Trimethylbenzene	µg/L	<5.0		< 5	T	
1,2-Dibromo-3-chloropropane	µg/L	<5.0		< 5	T	
1,2-Dibromoethane	µg/L	<5.0		< 5	T	
1,2-Dichlorobenzene	µg/L	<5.0		< 5	T	
1,2-Dichloroethane	µg/L	<5.0		< 5	T	
1,2-Dichloropropane	µg/L	<5.0		< 5	T	
1,3,5-Trimethylbenzene	µg/L	<5.0		< 5	T	
1,3-Dichlorobenzene	µg/L	<5.0		< 5	T	
1,3-Dichloropropane	µg/L	<5.0		< 5	T	
1,4-Dichlorobenzene	µg/L	<5.0		< 5	T	
2,2-Dichloropropane	µg/L	<30.0		< 30	T	
2-butanone	µg/L	<50.0		< 50	T	
2-Chlorotoluene	µg/L	<5.0		< 5	T	
4-Chlorotoluene	µg/L	<5.0		< 5	T	
4-methyl-2-pentanone	µg/L	<50.0		< 50	T	
Benzene	µg/L	<0.5		< 0.5	T	
Bromobenzene	µg/L	<5.0		< 5	T	
Bromochloromethane	µg/L	<5.0		< 5	T	
Bromodichloromethane	µg/L	<5.0		< 5	T	
Bromoform	µg/L	<5.0		< 5	T	
Bromomethane	µg/L	<5.0		< 5	T	
Carbon Tetrachloride	µg/L	<5.0		< 5	T	
Chlorobenzene	µg/L	<5.0		< 5	T	
Chloroethane	µg/L	<5.0		< 5	T	
Chloroform	µg/L	<10.0		< 10	T	
Chloromethane	µg/L	<5.0		< 5	T	
cis-1,2-Dichloroethene	µg/L	<5.0		< 5	T	
cis-1,3-Dichloropropene	µg/L	<5.0		< 5	T	
Dibromochloromethane	µg/L	<5.0		< 5	T	
Dibromomethane	µg/L	<5.0		< 5	T	
Dichlorodifluoromethane	µg/L	<5.0		< 5	T	
Ethylbenzene	µg/L	<1.0		< 1	T	
Hexachlorobutadiene	µg/L	<5.0		< 5	T	
Hexachloroethane	µg/L	<5.0		< 5	T	
Isopropylbenzene	µg/L	<5.0		< 5	T	
Meta- & Para- Xylene	µg/L	<2.0		< 2	T	
Methylene Chloride	µg/L	<10.0		< 10	T	
Naphthalene	µg/L	<5.0		< 5	T	
n-Butylbenzene	µg/L	<5.0		< 5	T	
n-Propylbenzene	µg/L	<5.0		< 5	T	
Ortho-Xylene	µg/L	<1.0		< 1	T	
Pentachloroethane	µg/L	<5.0		< 5	T	
p-Isopropyltoluene	µg/L	<5.0		< 5	T	
sec-Butylbenzene	µg/L	<5.0		< 5	T	
Styrene	µg/L	<5.0		< 5	T	
tert-Butylbenzene	µg/L	<5.0		< 5	T	
Tetrachloroethene	µg/L	<5.0		< 5	T	
Toluene	µg/L	<1.0		< 1	T	
Total Xylenes	µg/L	<3.0		< 3	T	

Laboratory: EN_VOC

Sample, Test, Result Reference	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Codes
1006090 [Method Blank]						
1300 VOCs in Water by P&T						
trans-1,2-Dichloroethene	µg/L	<5.0		< 5	T	
trans-1,3-Dichloropropene	µg/L	<5.0		< 5	T	
Trichloroethene	µg/L	<5.0		< 5	T	
Trichlorofluoromethane	µg/L	<5.0		< 5	T	
Vinyl chloride	µg/L	<5.0		< 5	T	
4-Bromofluorobenzene - Surrogate	%	88		70-130 %	T	
Pentafluorobenzene-Surrogate	%	109		70-130 %	T	
Toluene-D8 - Surrogate	%	91		70-130 %	T	
1011215 [Method Blank]						
1100 MAH(BTEX & C6-C9) in Water P&T						
Benzene	µg/L	<0.5		< 0.5	T	
C6-C9 Fraction	µg/L	<20.0		< 20	T	
Ethylbenzene	µg/L	<1.0		< 1	T	
Meta- & Para- Xylene	µg/L	<2.0		< 2	T	
Ortho-Xylene	µg/L	<1.0		< 1	T	
Toluene	µg/L	<1.0		< 1	T	
Total Xylenes	µg/L	<3.0		< 3	T	
4-Bromofluorobenzene - Surrogate	%	103		70-130 %	T	

Laboratory: EN_VOC

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
1006092 [Laboratory Control Sample]							
1300 VOCs in Water by P&T			Expected Value	Percent Recovery			
1,1,1,2-Tetrachloroethane	µg/L	<5.0	N/A	N/A	N/A	N/A	
1,1,1-Trichloroethane	µg/L	24	25.0	97	70-130 %	T	
1,1,2,2-Tetrachloroethane	µg/L	24	25.0	94	70-130 %	T	
1,1,2-Trichloroethane	µg/L	23	25.0	94	70-130 %	T	
1,1-Dichloroethane	µg/L	<30.0	25.0	95	70-130 %	T	
1,1-Dichloroethene	µg/L	21	25.0	86	70-130 %	T	
1,1-Dichloropropylene	µg/L	<5.0	N/A	N/A	N/A	N/A	
1,2,3-Trichlorobenzene	µg/L	<5.0	N/A	N/A	N/A	N/A	
1,2,3-Trichloropropane	µg/L	<5.0	N/A	N/A	N/A	N/A	
1,2,4-Trichlorobenzene	µg/L	<5.0	N/A	N/A	N/A	N/A	
1,2,4-Trimethylbenzene	µg/L	<5.0	N/A	N/A	N/A	N/A	
1,2-Dibromo-3-chloropropane	µg/L	<5.0	N/A	N/A	N/A	N/A	
1,2-Dibromoethane	µg/L	<5.0	N/A	N/A	N/A	N/A	
1,2-Dichlorobenzene	µg/L	22	25.0	90	70-130 %	T	
1,2-Dichloroethane	µg/L	23	25.0	92	70-130 %	T	
1,2-Dichloropropane	µg/L	22	25.0	87	70-130 %	T	
1,3,5-Trimethylbenzene	µg/L	<5.0	N/A	N/A	N/A	N/A	
1,3-Dichlorobenzene	µg/L	24	25.0	97	70-130 %	T	
1,3-Dichloropropane	µg/L	<5.0	N/A	N/A	N/A	N/A	
1,4-Dichlorobenzene	µg/L	24	25.0	97	70-130 %	T	
2,2-Dichloropropane	µg/L	<30.0	N/A	N/A	N/A	N/A	
2-butanone	µg/L	<50.0	N/A	N/A	N/A	N/A	
2-Chlorotoluene	µg/L	<5.0	N/A	N/A	N/A	N/A	
4-Chlorotoluene	µg/L	<5.0	N/A	N/A	N/A	N/A	
4-methyl-2-pentanone	µg/L	<50.0	N/A	N/A	N/A	N/A	
Benzene	µg/L	23	25.0	93	70-130 %	T	
Bromobenzene	µg/L	<5.0	N/A	N/A	N/A	N/A	
Bromochloromethane	µg/L	<5.0	N/A	N/A	N/A	N/A	
Bromodichloromethane	µg/L	24	25.0	96	70-130 %	T	
Bromoform	µg/L	22	25.0	90	70-130 %	T	
Bromomethane	µg/L	<5.0	N/A	N/A	N/A	N/A	
Carbon Tetrachloride	µg/L	25	25.0	99	70-130 %	T	
Chlorobenzene	µg/L	22	25.0	88	70-130 %	T	
Chloroethane	µg/L	<5.0	N/A	N/A	N/A	N/A	
Chloroform	µg/L	25	25.0	101	70-130 %	T	
Chloromethane	µg/L	<5.0	N/A	N/A	N/A	N/A	
cis-1,2-Dichloroethene	µg/L	<5.0	N/A	N/A	N/A	N/A	
cis-1,3-Dichloropropene	µg/L	19	25.0	78	70-130 %	T	
Dibromochloromethane	µg/L	24	25.0	95	70-130 %	T	
Dibromomethane	µg/L	<5.0	N/A	N/A	N/A	N/A	
Dichlorodifluoromethane	µg/L	<5.0	N/A	N/A	N/A	N/A	
Ethylbenzene	µg/L	21	25.0	83	70-130 %	T	
Hexachlorobutadiene	µg/L	<5.0	N/A	N/A	N/A	N/A	
Hexachloroethane	µg/L	<5.0	N/A	N/A	N/A	N/A	
Isopropylbenzene	µg/L	<5.0	N/A	N/A	N/A	N/A	
Meta- & Para- Xylene	µg/L	<2.0	N/A	N/A	N/A	N/A	
Methylene Chloride	µg/L	22	25.0	88	70-130 %	T	
Naphthalene	µg/L	<5.0	N/A	N/A	N/A	N/A	
n-Butylbenzene	µg/L	<5.0	N/A	N/A	N/A	N/A	
n-Propylbenzene	µg/L	<5.0	N/A	N/A	N/A	N/A	
Ortho-Xylene	µg/L	<1.0	N/A	N/A	N/A	N/A	
Pentachloroethane	µg/L	<5.0	N/A	N/A	N/A	N/A	
p-Isopropyltoluene	µg/L	<5.0	N/A	N/A	N/A	N/A	
sec-Butylbenzene	µg/L	<5.0	N/A	N/A	N/A	N/A	
Styrene	µg/L	<5.0	N/A	N/A	N/A	N/A	
tert-Butylbenzene	µg/L	<5.0	N/A	N/A	N/A	N/A	
Tetrachloroethene	µg/L	22	25.0	89	70-130 %	T	
Toluene	µg/L	22	25.0	89	70-130 %	T	
Total Xylenes	µg/L	<3.0	N/A	N/A	N/A	N/A	

Laboratory: EN_VOC

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
1006092 [Laboratory Control Sample]							
1300 VOCs in Water by P&T			Expected Value	Percent Recovery			
trans-1,2-Dichloroethene	µg/L	21	25.0	83	70-130 %	T	
trans-1,3-Dichloropropene	µg/L	20	25.0	79	70-130 %	T	
Trichloroethene	µg/L	24	25.0	96	70-130 %	T	
Trichlorofluoromethane	µg/L	<5.0	N/A	N/A	N/A	N/A	
Vinyl chloride	µg/L	<5.0	N/A	N/A	N/A	N/A	
4-Bromofluorobenzene - Surrogate	%	90			70-130 %	T	
Pentafluorobenzene-Surrogate	%	96			70-130 %	T	
Toluene-D8 - Surrogate	%	96			70-130 %	T	
1011217 [Laboratory Control Sample]							
1100 MAH(BTEX & C6-C9) in Water P&T			Expected Value	Percent Recovery			
Benzene	µg/L	9.1	10.0	91	70-130 %	T	
C6-C9 Fraction	µg/L	120	140.0	86	70-130 %	T	
Ethylbenzene	µg/L	9.6	10.0	96	70-130 %	T	
Meta- & Para- Xylene	µg/L	20	20.0	98	70-130 %	T	
Ortho-Xylene	µg/L	9.7	10.0	97	70-130 %	T	
Toluene	µg/L	9.8	10.0	98	70-130 %	T	
Total Xylenes	µg/L	29	N/A	N/A	N/A	N/A	
4-Bromofluorobenzene - Surrogate	%	113			70-130 %	T	

Laboratory: EN_WATERS

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
1001676 [Method Blank]							
4270 Total Cyanide in Water Colourmetric							
Total Cyanide	mg/L	<0.005			< 0.005	T	
1001712 [Method Blank]							
4300 Anions in Water by IC							
Bromide	mg/L	<0.5			< 0.5	T	
Chloride	mg/L	<0.5			< 0.5	T	
Fluoride	mg/L	<0.5			< 0.5	T	
Nitrate	mg/L	<0.5			< 0.5	T	
Nitrite	mg/L	<0.5			< 0.5	T	
Orthophosphate as P	mg/L	<0.5			< 0.5	T	
Sulphate	mg/L	<0.5			< 0.5	T	
1002219 [Method Blank]							
4110 Dissolved Solids in Water							
Total Dissolved Solids	mg/L	<5			< 5	T	
1007610 [Method Blank]							
4110 Dissolved Solids in Water							
Total Dissolved Solids	mg/L	<5			< 5	T	
1008524 [Method Blank]							
4230 Dissolved Hexavalent Chromium, mg/L							
Chromium (VI)	mg/L	<0.02			< 0.02	T	
1001679 [Laboratory Control Sample]							
4270 Total Cyanide in Water Colourmetric			Expected Value	Percent Recovery			
Total Cyanide	mg/L	0.09	0.1	92	75-125 %	T	
1001714 [Laboratory Control Sample]							
4300 Anions in Water by IC			Expected Value	Percent Recovery			
Bromide	mg/L	95	100.0	95	80-120 %	T	
Chloride	mg/L	95	100.0	95	80-120 %	T	
Fluoride	mg/L	94	100.0	94	80-120 %	T	
Nitrate	mg/L	100	100.0	105	80-120 %	T	
Nitrite	mg/L	89	100.0	89	80-120 %	T	
Orthophosphate as P	mg/L	89	100.0	89	80-120 %	T	
Sulphate	mg/L	100	100.0	102	80-120 %	T	
1002091 [Laboratory Control Sample]							
4000 pH in Water			Expected Value	Percent Recovery			
pH	pH	7.4	N/A	N/A	N/A	N/A	

Laboratory: **EN_WATERS**

Sample, Test, Result Reference	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Codes
1002220 [Laboratory Control Sample]							
4110 Dissolved Solids in Water			Expected Value	Percent Recovery			
Total Dissolved Solids	mg/L	1000	1000.0	101	90-110 %	T	
1004171 [Laboratory Control Sample]							
4000 pH in Water			Expected Value	Percent Recovery			
pH	pH	7.4	N/A	N/A	N/A	N/A	
1007611 [Laboratory Control Sample]							
4110 Dissolved Solids in Water			Expected Value	Percent Recovery			
Total Dissolved Solids	mg/L	960	1000.0	96	90-110 %	T	
1008525 [Laboratory Control Sample]							
4230 Dissolved Hexavalent Chromium, mg/L			Expected Value	Percent Recovery			
Chromium (VI)	mg/L	0.21	0.2	104	85-115 %	T	
1003320 [Duplicate of 1001369]							
4000 pH in Water			Result 2	RPD			
pH	pH	7.7	7.7	0.0	0-0.2 pH	T	
1003321 [Duplicate of 1001369]							
4110 Dissolved Solids in Water			Result 2	RPD			
Total Dissolved Solids	mg/L	710	680	4	0-10 %	T	

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Samples correctly preserved	Yes
Organic samples had Teflon liners	Yes
Samples received with Zero Headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Authorised By

Ruth Callander	Client Services Officer	
Alex Petridis	Senior Analyst - SVOC	Accreditation Number: 1645
Barry Blythman	Senior Analyst - VOC	Accreditation Number: 1645
Mark Herbstreit	Senior Analyst - Metals	Accreditation Number: 1645
Helen Lei	Senior Analyst - Waters	Accreditation Number: 1645
Khoa Pham	Analyst - VOC	Accreditation Number: 1645

Laboratory Manager

Anthony Crane Operations Manager



Final Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

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The samples were not collected by Amdel staff.

Appendix I

Chain of Custody Forms - Groundwater

Appendix I

Environmental Analysis Request – Chain Of Custody (COC)

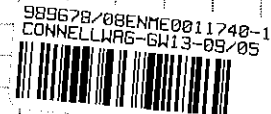
Company: Connell Wagner
Address: 55 Grenfell St, Adelaide, SA
Contact: Matt Cygenraam
Telephone: 82379754 Mob 0431479917
Email: cygenraamm@conwag.com

Project Name: Buckland Park COC Number#: _____
Project Number: 31495 #The COC number will act as a purchase order number if not supplied
Quote Reference: _____ Purchase Order No: _____
Send Results to: _____ Via: Mail: Fax: Email:
Results Required by*: 24 hrs 48 hrs 5 Day Other
* Note: TAT of less than 5 days must be pre-arranged with the laboratory and surcharges may apply.

SAMPLE DESCRIPTION

ANALYSIS REQUIRED

Lab ID	Sample ID	Date & Time Sampled	Soil / Water Other	Comments#	COMPOSITE	TPH - C6-C9	TPH - C10-C36	MAHS	BTEX	PAHS	PCBs	OCs	OPs	Total Phenolics	Speciated Phenols	Metals - Std 17	Metals - Specify**	Mercury	EPA Screen (Vic only)
	GN13	7/5/08	W							X						X	X	X	X
	GN14	7/5/08	W							X						X	X	X	X
	GN3	7/5/08	W							X						X	X	X	X
	GN6	7/5/08	W							X						X	X	X	X
	GN11	8/5/08	W							X						X	X	X	X
	GN4	8/5/08	W							X						X	X	X	X
	GN9	8/5/08	W							X						X	X	X	X
	GN7	8/5/08	W							X						X	X	X	X
# Please Provide Field PID Readings where possible					Totals:														



** METALS (Please circle): Ag, Al, As, B, Ba, Be, Bi, Cd, Co, Cr, Cu, Mn, Mo, Ni, Pb, Sb, Se, Sn, Tl, V, Zn

Chain of Custody

Special Requirements (eg. OHS issues etc.)

Sample Receipt Advice (Lab Use Only)

Relinquished by: MJ Date/Time: 8/5/08
Received by: _____ Date/Time: _____
Relinquished by: _____ Date/Time: _____
Received by: Labmark Date/Time: 9/5 9am
Relinquished by: _____ Date/Time: _____
Received by: _____ Date/Time: _____

- All Samples Received in Good Condition
- All Documentation in Proper Order
- Samples Received with an Attempt to Chill
- Samples Received Within Holding Times

Average sample temp on receipt: (°C) _____
For enquires please quote Ref. No. _____

Environmental Analysis Request - Chain Of Custody (COC)

Company: Cornell Wagner
 Address: 55 Grenfell St Adelaide, SA
 Contact: Matt Eygenraam
 Telephone: 82377754 Mob 0431479917
 Email: eygenraamm@cornwag.com

Project Name: Buckland Park COC Number#: _____
 Project Number: 31495 #The COC number will act as a purchase order number if not supplied
 Quote Reference: _____ Purchase Order No: _____
 Send Results to: _____ Via: Mail: Fax: Email:
 Results Required by*: 24 hrs 48 hrs 5 Day Other
 * Note: TAT of less than 5 days must be pre-arranged with the laboratory and surcharges may apply.

SAMPLE DESCRIPTION

ANALYSIS REQUIRED

Lab ID	Sample ID	Date & Time Sampled	Soil / Water Other	Comments#	ANALYSIS REQUIRED																				
					COMPOSITE	TPH - C6-C9	TPH - C10-C36	MAHs	BTEX	PAHs	PCBs	OCs	OPs	Total Phenolics	Speciated Phenols	Metals - Std 17	Metals - Specify **	Mercury	EPA Screen (Vic only)						
	GN2	6/5/08	W																						
	GN1	6/5/08	W																						
	GN3	6/5/08	W																						
	QC1	6/5/08	W																						
	QC2	07/5/08	W	Send to MGT						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Please Provide Field PID Readings where possible

** METALS (Please circle): Ag, Al, As, B, Ba, Be, Bi, Cd, Co, Cr, Cu, Mn, Mo, Ni, Pb, Sb, Se, Sn, Tl, V, Zn

Chain of Custody
 Relinquished by: Matt Eygenraam Date/Time: 7/5/08
 Received by: _____ Date/Time: _____
 Relinquished by: _____ Date/Time: _____
 Received by: _____ Date/Time: _____
 Relinquished by: _____ Date/Time: _____
 Received by: _____ Date/Time: _____

Special Requirements (eg. OHS issues etc.) _____

Sample Receipt Advice (Lab Use Only)
 All Samples Received in Good Condition
 All Documentation in Proper Order
 Samples Received with an Attempt to Chill
 Samples Received Within Holding Times

Average sample temp on receipt: (°C) _____
 For enquires please quote Ref. No. _____

MELBOURNE

BRISBANE

NEWCASTLE

Ph: (03) 9538 2277 Fax: (03) 9538 2278
1868 Dandenong Road Clayton VIC 3168
E: enviro_melbourne@amdel.com

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E: enviro_brisbane@amdel.com

Ph: (02) 4902 4800 Fax: (02) 4902 4891
99 Mitchell Road Cardiff NSW 2285
E: enviro_sydney@amdel.com



Call: 1300 552 389

Environmental Analysis Request – Chain Of Custody (COC)

Company: Connell Wagner
Address: 55 Grenfell St, Adelaide, SA
Contact: Matt Eygenraam
phone: 82379754 ^{Mob} 0431479917
Email: eygenraamm@conwag.com

Project Name: Buckland Park COC Number#: 1 - 2 eskys
Project Number: 31495 #The COC number will act as a purchase order number if not supplied
Quote Reference: _____ Purchase Order No: _____
Send Results to: _____ Via: Mail: Fax: Email:
Results Required by*: 24 hrs 48 hrs 5 Day Other
* Note: TAT of less than 5 days must be pre-arranged with the laboratory and surcharges may apply.

SAMPLE DESCRIPTION

ANALYSIS REQUIRED

Lab ID	Sample ID	Date & Time Sampled	Soil / Water Other	Comments#	COMPOSITE	TPH - C6-C9	TPH - C10-C36	MAHS	BTEX	PAHS	PCBS	OCs	OPs	Total Phenolics	Speciated Phenols	Metals - Std 17	Metals - Specify **	Mercury	EPA Screen (Vic only)	OCP	PH	TDS
	GW5	15/5/08	W							X						X			X	X	X	
	GW8	15/5/08	W							X						X			X	X	X	
	GW12	15/5/08	W							X						X			X	X	X	
	GW10	15/5/08	W							X						X			X	X	X	
	GW15	15/5/08	W							X						X			X	X	X	
	QCA	15/5/08	W							X						X			X	X	X	
	QCS	15/5/08	W	Send to MGT						X						X			X	X	X	
	QCB	15/5/08	W							X						X			X	X	X	



** METALS (Please circle): Ag, Al, As, Ba, Be, Bi, Cd, Co, Cu, Mn, Mo, Ni, Pb, Sb, Se, Sn, Ti, V, Zn

Chain of Custody

Special Requirements (eg. OHS issues etc.)

Sample Receipt Advice (Lab Use Only)

Relinquished by: M. J. [Signature] Date/Time: 16/5/08
Received by: [Signature] Date/Time: 16/5 10:00
Relinquished by: _____ Date/Time: _____
Received by: _____ Date/Time: _____
Relinquished by: _____ Date/Time: _____
Received by: _____ Date/Time: _____

- All Samples Received in Good Condition
- All Documentation in Proper Order
- Samples Received with an Attempt to Chill
- Samples Received Within Holding Times

Average sample temp on receipt: (°C) _____
For enquires please quote Ref. No. _____

Appendix J

Quality Control Analysis – Groundwater

Appendix J

RPD calculations for Inter lab quality control samples

Analyte	Units	Inter lab QC			Inter lab QC		
		QC1	GW3	RPD%	QC4	GW15	RPD%
2300 OC Pesticides in Water by GC-ECD							
a-BHC	µg/L	<10	<10	-	<1	<1	-
a-Chlordane	µg/L	<10	<10	-	<1	<1	-
a-Endosulphan	µg/L	<10	<10	-	<1	<1	-
Aldrin	µg/L	<10	<10	-	<1	<1	-
b-BHC	µg/L	<20	<20	-	<2	<2	-
b-Endosulphan	µg/L	<10	<10	-	<1	<1	-
d-BHC	µg/L	<10	<10	-	<1	<1	-
DDD	µg/L	<10	<10	-	<1	<1	-
DDE	µg/L	<10	<10	-	<1	<1	-
DDT	µg/L	<10	<10	-	<1	<1	-
Dieldrin	µg/L	<10	<10	-	<1	<1	-
Endosulfan sulfate	µg/L	<10	<10	-	<1	<1	-
Endrin	µg/L	<10	<10	-	<1	<1	-
Endrin Aldehyde	µg/L	<20	<20	-	<2	<2	-
g-BHC Lindane	µg/L	<10	<10	-	<1	<1	-
g-Chlordane	µg/L	<10	<10	-	<1	<1	-
Heptachlor	µg/L	<10	<10	-	<1	<1	-
Heptachlor epoxide	µg/L	<10	<10	-	<1	<1	-
Hexachlorobenzene (HCB)	µg/L	<10	<10	-	<1	<1	-
Methoxychlor	µg/L	<20	<20	-	<2	<2	-
Oxychlordane	µg/L	<10	<10	-	<1	<1	-
2100 PAH in Water by GC							
Acenaphthene	µg/L	<1	<1	-	<1	<1	-
Acenaphthylene	µg/L	<1	<1	-	<1	<1	-
Anthracene	µg/L	<1	<1	-	<1	<1	-
Benz(a)anthracene	µg/L	<1	<1	-	<1	<1	-
Benzo(a)pyrene	µg/L	<1	<1	-	<1	<1	-
Benzo(b)&(k)fluoranthene	µg/L	<2	<2	-	<2	<2	-
Benzo(ghi)perylene	µg/L	<1	<1	-	<1	<1	-
Dibenz(ah)anthracene	µg/L	<1	<1	-	<1	<1	-
Chrysene	µg/L	<1	<1	-	<1	<1	-
Naphthalene	µg/L	<1	<1	-	<1	<1	-
Fluoranthene	µg/L	<1	<1	-	<1	<1	-
Fluorene	µg/L	<1	<1	-	<1	<1	-
Indeno(123-cd)pyrene	µg/L	<1	<1	-	<1	<1	-
Phenanthrene	µg/L	<1	<1	-	<1	<1	-
Pyrene	µg/L	<1	<1	-	<1	<1	-
Sum of PAHs	µg/L	<1	<1	-	<1	<1	-
3100 Dissolved Metals in Water By ICP/MS							
Arsenic	µg/L	<5	<5	-	<5	<5	-
Cadmium	µg/L	<2	<2	-	<2	<2	-
Chromium	µg/L	15	16	-	18	17	5.7
Copper	µg/L	19	17	11.1	9.3	9.7	4.2
Lead	µg/L	<5	<5	-	<5	<5	-
Nickel	µg/L	6.6	6.4	3.1	9.2	9.4	2.2
Zinc	µg/L	8	7.5	6.5	<5	<5	-
pH	pH	-	-	-	8	8	0
Total Dissolved Solids	mg/L	-	-	-	5400	2300	80.5

Notes - Denotes not analysed
 RPD over 50%

RPD calculations for Intra lab quality control samples

Analyte	Units	Intra lab QC		
		QC5	GW15	RDP%
2300 OC Pesticides in Water by GC-ECD				
a-BHC	µg/L	< 0.1	<1	-
a-Chlordane (µg/L)	µg/L	< 1	<1	-
a-Endosulphan (µg/L)	µg/L	< 0.1	<1	-
Aldrin (µg/L)	µg/L	< 0.1	<1	-
b-BHC (µg/L)	µg/L	< 0.1	<2	-
b-Endosulphan (µg/L)	µg/L	< 0.1	<1	-
d-BHC (µg/L)	µg/L	< 0.1	<1	-
DDD (µg/L)	µg/L	< 0.1	<1	-
DDE (µg/L)	µg/L	< 0.1	<1	-
DDT (µg/L)	µg/L	< 0.1	<1	-
Dieldrin (µg/L)	µg/L	< 0.1	<1	-
Endosulfan sulfate (µg/L)	µg/L	< 0.1	<1	-
Endrin (µg/L)	µg/L	< 0.1	<1	-
Endrin Aldehyde (µg/L)	µg/L	< 0.1	<2	-
g-BHC Lindane (µg/L)	µg/L	< 0.1	<1	-
g-Chlordane (µg/L)	µg/L	< 0.1	<1	-
Heptachlor (µg/L)	µg/L	< 0.1	<1	-
Heptachlor epoxide (µg/L)	µg/L	< 0.1	<1	-
Hexachlorobenzene (HCB) (µg/L)	µg/L	< 0.1	<1	-
Methoxychlor (µg/L)	µg/L	< 0.1	<2	-
Oxychlordane (µg/L)	µg/L	< 0.1	<1	-
2100 PAH in Water by GC				
Acenaphthene (µg/L)	µg/L	<1	<1	-
Acenaphthylene (µg/L)	µg/L	<1	<1	-
Anthracene (µg/L)	µg/L	<1	<1	-
Benz(a)anthracene (µg/L)	µg/L	<1	<1	-
Benzo(a)pyrene (µg/L)	µg/L	<1	<1	-
Benzo(b)&(k)fluoranthene (µg/L)	µg/L	<1	<2	-
Benzo(ghi)perylene (µg/L)	µg/L	<1	<1	-
Dibenz(ah)anthracene (µg/L)	µg/L	<1	<1	-
Chrysene (µg/L)	µg/L	<1	<1	-
Naphthalene (µg/L)	µg/L	<1	<1	-
Fluoranthene (µg/L)	µg/L	<1	<1	-
Fluorene (µg/L)	µg/L	<1	<1	-
Indeno(123-cd)pyrene (µg/L)	µg/L	<1	<1	-
Phenanthrene (µg/L)	µg/L	<1	<1	-
Pyrene (µg/L)	µg/L	<1	<1	-
Sum of PAHs (µg/L)	µg/L	<1	<1	-
3100 Dissolved Metals in Water By ICP/MS				
Arsenic (µg/L)	µg/L	3	<5	-
Cadmium (µg/L)	µg/L	< 0.2	<2	-
Chromium (µg/L)	µg/L	3	17	140
Copper (µg/L)	µg/L	6	9.7	47.1
Lead (µg/L)	µg/L	< 1	<5	-
Nickel (µg/L)	µg/L	9	9.4	4.3
Zinc (µg/L)	µg/L	2	<5	-
pH	pH	7.9	8	1.3
Total Dissolved Solids	mg/L	4600	2300	66.7

Notes

- Denotes not analysed

RPD over 50%

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**Site History Investigation
Buckland Park Proposal
Walker Corporation / DayCorp**

3 November 2008
Reference 31495
Revision 4

Document Control



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Appendix A

Historical Aerial Photographs

Appendix B

High Contamination Risk Maps

Appendix C

Detailed Aerial Photography

Appendix D

Certificates of Title

Appendix E

Section 7 Enquiry

Limitations of this Report

The discussions within this report are limited to information available for the activities associated with the nominated scope of works only. This report does not detail or define the full extent or otherwise of contamination on the property lot under investigation, but rather has been prepared to generally indicate whether contamination may be present within the investigation area. Should further information become available regarding the conditions at the site, including previously unknown likely sources of contamination, Connell Wagner reserves the right to review the report in the context of the additional information.

This report has been prepared for the use of the client and in part is based on information provided by them. Connell Wagner takes no responsibility and disclaims all liability whatsoever for any loss or damage that the client may suffer as a result of using or relying on any such information or recommendations contained in this report, except to the extent where Connell Wagner expressly indicates in this report that it has verified the information to its satisfaction.

It should be noted that this report does not provide a complete assessment of the environmental status of the site and it is limited to the scope defined herein.

Abbreviations

ANZECC	Australian and New Zealand Environment and Conservation Council
AS	Australian Standard
CT	Certificate of Title
Connell Wagner	Connell Wagner Pty Ltd
DWLBC	Department of Water, Land and Biodiversity Conservation
ESA	Environmental Site Assessment
GW	Groundwater Well
ha	Hectares
ID	Identification
NATA	National Association of Testing Authorities
NEPC	National Environmental Protection Council
NEPM	National Environmental Protection Measure
QA	Quality Assurance
QC	Quality Control
SHI	Site History Investigation
SB	Soil Bore
SA EPA	South Australian Environment Protection Authority
SKM	Sinclair Knight Merz Pty Ltd
SOP	Standard Operating Procedure
SWL	Standing Water Level
TD	Total Depth
VIC EPA	Environment Protection Authority Victoria

1. Executive Summary

Joint Venture partners Walker Corporation and DayCorp have commissioned Connell Wagner to prepare a site history investigation (SHI) as part of the Environmental Impact Statement (EIS) for a proposal at Buckland Park. The site has an area of approximately 1,308 hectares and is located 32 kilometers from the Adelaide CBD. The site has been used for agricultural purposes for many decades. It is currently undeveloped, as illustrated in the site plan.

For the purpose of this report the site has been split into seven sectors being:

- North Sector East (approx. 390ha) – bounded by the Gawler River to the north, Tippets Bridge Road to the west, Legoe Road to the south and the site boundary to the east .
- North Sector West (approx. 240ha) – bounded by the Gawler River to the north, Tippets Bridge Road to the east, Legoe Road to the south and the site boundary to the west boundary
- Central Sector (approx. 100ha) – bounded by Tippets Bridge Road to the east, Legoe Road to the north, Beagle Hole Road to the west and Park Road to the south.
- South Sector West (approx. 260ha) – bounded by Park Road to the north, Penrice salt fields to the west, Tippets Bridge Road to the east and the site boundary to the south.
- South Sector East (approx. 50ha) – bounded by Tippets Bridge Road to the west, Legoe Road to the north, Park Road and Thompson Road to the south, Port Wakefield Road and Brooks Road to the east
- South Sector (approx. 200ha) – bounded by Brooks Road to the east, Thompson Road to the South and Legoe Road to the North. Borders the Central Sector and South Sector West, to the west.
- East Sector (approx. 90ha) – bounded by Port Wakefield Road to the East, Buckland Road to the West, and the site boundary to the South and North.

In compiling the site history investigation, reference has been made to the following sources:

- Information gathered through site inspection
- Anecdotal information
- Interviews with site land owners
- South Australia Land Titles Office
- South Australia Department of Environment and Heritage: Mapland

This report has been prepared with the intention of identifying activities that have, or may reasonably be inferred to have, been carried out, on or near the site and that had potential to cause site contamination. The scope of the investigation was necessarily limited by the information sourced at the time of the investigation.

The site history investigation suggests that the primary use of the site has been for grazing and therefore there is a low potential risk of contamination. Cropping of this land for barley has occurred rotationally over time, with a correspondingly low to moderate risk of contamination. In both cases, any contamination would be broad and diffuse over a large portion of the site decreasing associated risks.

Some localised contamination may have occurred in the Central Sector due to market gardening activities, however this has only occurred in the last ten years hence the risk of contamination is moderate, due to the more benign nature of chemicals likely to be in use.

Land reshaping was noted to have occurred in the Thompson Creek area on the eastern boundary of North Sector West. This land reshaping may have required fill to be imported but is more likely to have consisted of grading of the existing landform.

Very localised contamination may have occurred in the tractor maintenance compound at the northern end of Buckland Road in North Sector East, however the risk of contamination is not considered to be high.

The site history investigation suggests that a significant proportion of the land within and surrounding South Sector East, East Sector, and the top portion of South Sector (predominantly north of Park Road) has been in use for market gardening since the 1950s, with a proportionally moderate to high risk. The balance of the site has been in use for grazing and broad acre cropping. In any case, these activities (due to extent and chemical application methods) would result in contamination diffused over a large portion of the site. Localised soil (and potentially groundwater) contamination may have occurred in association with a drainage line along Park Road in the South Sector.

These conclusions are provided to guide the preliminary site contamination assessment prepared by Connell Wager.

2. Site Information Summary

Property Street Address	Buckland Park, SA
Current Title References	CT 5868/766 CT 5868/767 CT 5868/768 CT 5868/769 CT 5868/770 CT 5868/771 CT 5868/772 CT 5868/773 CT 5868/774 CT 5868/775 CT 5868/776 CT 5868/777 CT 5868/778 CT 5868/779 CT 5868/780 CT 5868/781 CT 5868/782 CT 5868/783 CT 5868/784 CT 5868/785 CT 5875/910 CT 5399/96 CT 5399/95 CT 5424/348 CT 5228/167 CT 5763/970 CT 5755/199 CT 5303/891 CT 5916/60 CT 5916/61 CT 5251/815 CT 5251/814 CT 5251/813 CT 5759/187 CT 5916/62 CT 5916/59 CT 5144/148 CT 5144/147 CT 5916/63 CT 5883/980 CT 5883/979 CT 5883/978 CT 5883/977 CT 5864/500 CT 5864/501 CT 5864/499 CT 5909/379CT 5760/605 CT 5447/579 CT 5447/581CT 5447/585 CT 5909/380
Property Description	Agricultural
Local Government Authority	City of Playford
Existing Land Use	Rural
Proposed Land Use	Major Development: Residential, commercial, infrastructure, recreational
Land Area	1308 ha

3. Introduction

Joint Venture partners Walker Corporation and DayCorp have commissioned Connell Wagner to prepare a site history investigation (SHI) as part of the Environmental Impact Statement (EIS) for a proposal at Buckland Park. The site has an area of approximately 1,308 hectares and is located 32 kilometers from the Adelaide CBD. The site has been used for agricultural purposes for many decades. It is currently undeveloped, as illustrated in the site plan. This is displayed in Figure 3-1.

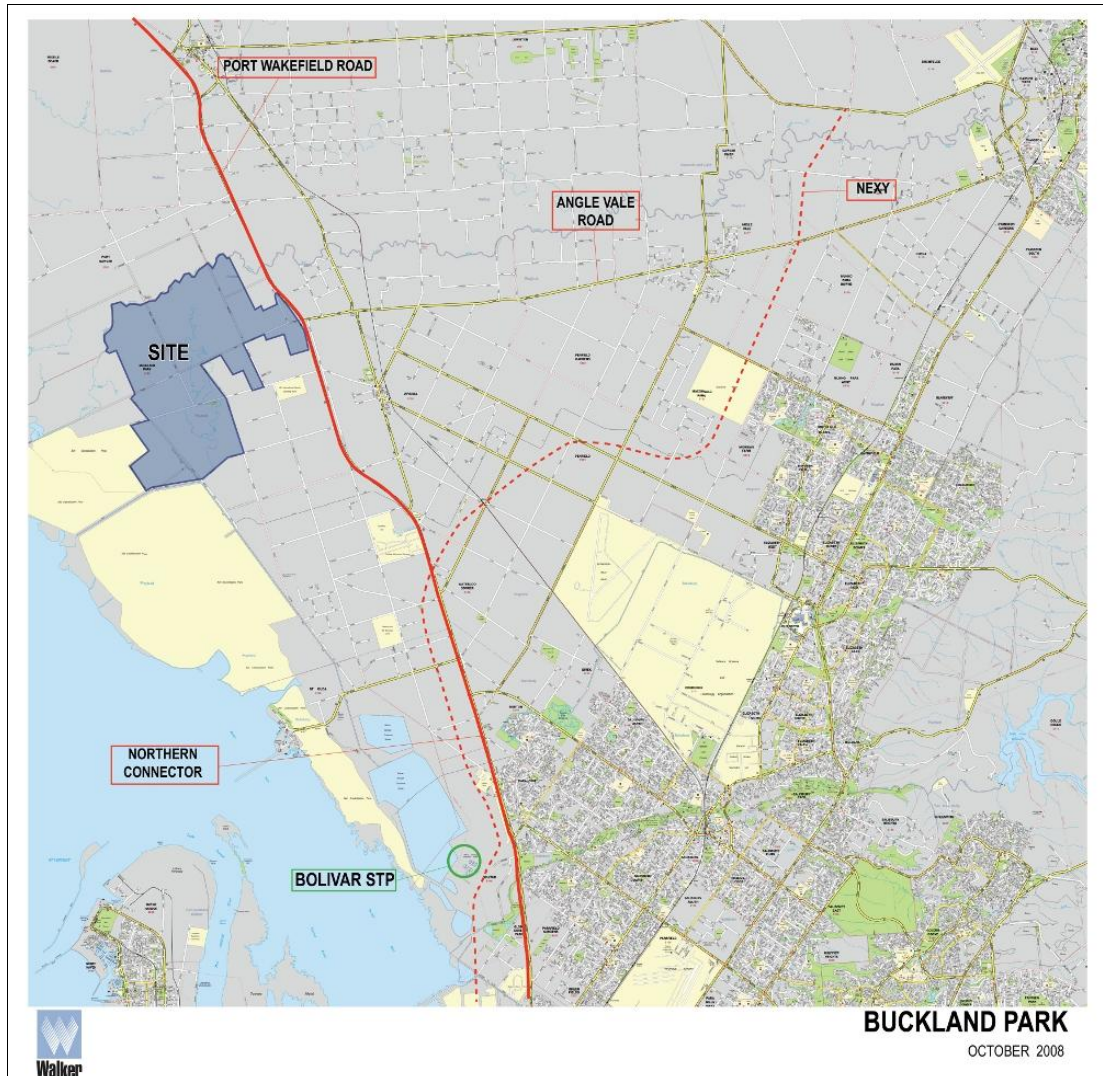


Figure 3-1: Locality Plan

3.1 The Proposal

The proposal comprises:

- Up to 12,000 residential allotments
- Schools
- Community facilities
- Recreational facilities
- A district centre
- Local shopping precincts
- Open space

- Stormwater management facilities

For the purpose of this report the site has been split into seven sectors being:

- North Sector East (approx. 390ha) – bounded by the Gawler River to the north, Tippets Bridge Road to the west, Legoe Road to the south and the site boundary to the east .
- North Sector West (approx. 240ha) – bounded by the Gawler River to the north, Tippets Bridge Road to the east, Legoe Road to the south and the site boundary to the west boundary
- Central Sector (approx. 100ha) – bounded by Tippets Bridge Road to the east, Legoe Road to the north, Beagle Hole Road to the west and Park Road to the south.
- South Sector West (approx. 260ha) – bounded by Park Road to the north, Penrice salt fields to the west, Tippets Bridge Road to the east and the site boundary to the south.
- South Sector East (approx. 50ha) –bounded by Tippets Bridge Road to the west, Legoe Road to the north, Park Road and Thompson Road to the south, Port Wakefield Road and Brooks Road to the east
- South Sector (approx. 200ha) – bounded by Brooks Road to the east, Thompson Road to the South and Legoe Road to the North. Borders the Central Sector and South Sector West, to the west.
- East Sector (approx. 90ha) – bounded by Port Wakefield Road to the East, Buckland Road to the West, and the site boundary to the South and North.

These sectors are illustrated in Figure 3-2.

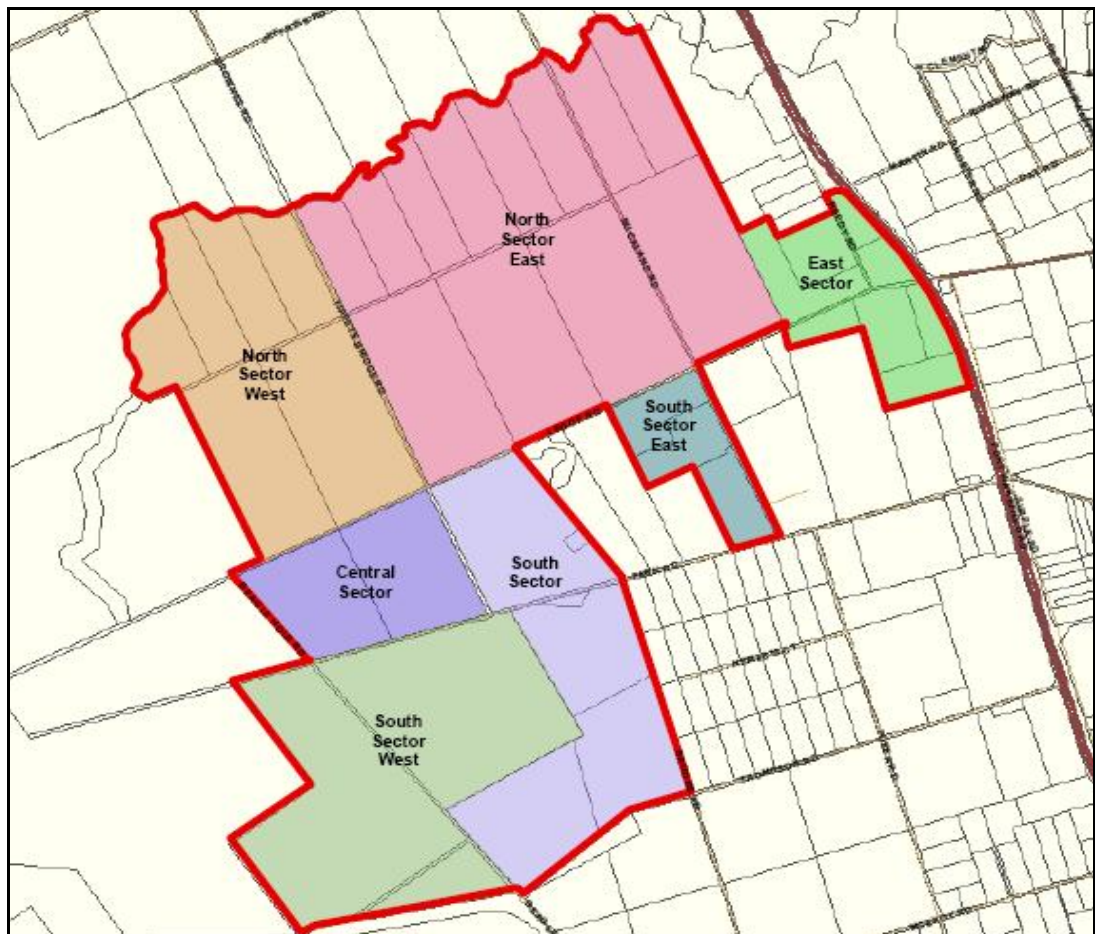


Figure 3-2: Site Sector Map

In compiling the site history investigation, reference has been made to the following sources:

- Information gathered through site inspection

- Anecdotal information
- South Australia Land Titles Office
- Interviews with site land owners
- South Australia Department of Environment and Heritage: Mapland

This report has been prepared with the intention of identifying activities that have, or may reasonably be inferred to have, been carried out, on or near the site and that had potential to cause site contamination. This report has been prepared in line with *Advisory Notice, Planning: 20* that was issued in 2001 to assist in the interpretation of the *Development Act 1993* as well as the New Zealand Risk Based Screening System for Contaminated Land Management, 2004. The scope of the investigation was necessarily limited by the information sourced at the time of the investigation.

4. Site Information

4.1 Site Inspection

Connell Wagner undertook a site inspection on 13 December 2007. Photographs taken during this site inspection are included below in Figure 4-2 to Figure 4-11.

The site lies within the City of Playford Council area and is bounded by the Gawler River to the north, Port Wakefield Road to the east, and private allotments to the west, east, and south. Figure 4-1 illustrates the site.

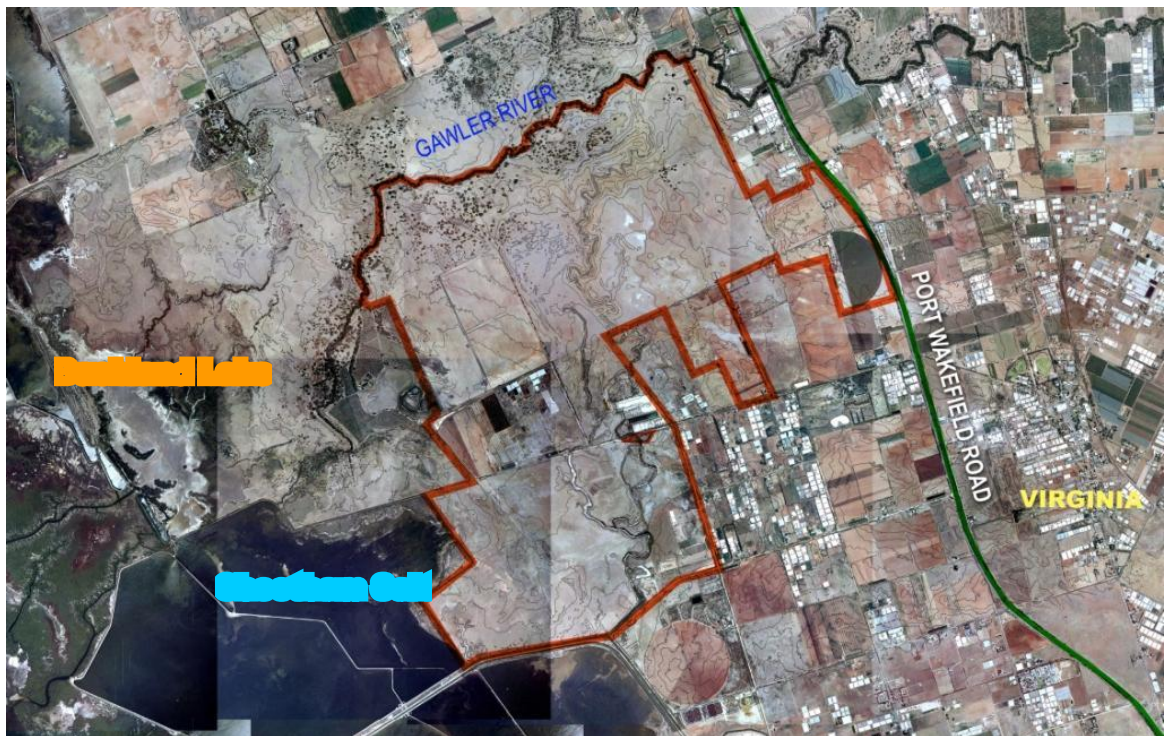


Figure 4-1: Site Plan

It was noted during the inspection of the site that the majority of land use within North Sector West, North Sector East and South Sector West is grazing use (cattle), and is covered by dry grass. Some areas were cropped with barley for feed purposes.

No significant infrastructure was noted, with all former infrastructure associated with grazing located north of the Gawler River, where the original Buckland Park homestead is located. No homesteads or other significant structures were noted on the site.

Cattle holding yards were noted immediately west of the Buckland Road entrance in North Sector West. No associated chemical dip was present.

A shipping container located within a fenced compound on the northern end of Buckland Road in North Sector West (adjoining Gawler River) was used to store vehicle maintenance equipment and small quantities of oil (Figure 4-2, Figure 4-4, Figure 4-6, Figure 4-7, and Figure 4-8). Vehicles (tractors) were stored in this area and some oil staining was noted on the ground (Figure 4-7). A functional production water bore feeding a concrete tank (for animal watering) was noted to in this compound. A septic tank was also noted in this area.

A shearing shed and associated cattle holding yards were noted immediately west of Tippetts Bridge Road (Figure 4-11). No associated chemical dip was present.

The Central Sector of land was noted to be in agricultural use with large portions of it being farmed for potatoes. The north-east corner of this sector was occupied by glass-houses. A dam reportedly used to store treated Bolivar water for the Virginia pipeline and associated pump house were located on the southern portion of this land parcel.

Olive groves were noted off site to the west of North Sector West. A small off-site area in this location was noted to be used for storage of chemical drums (Figure 4-8). No notable features were observed south of Park Road within South Sector or South Sector West. This land is used for grazing.

The majority of land between Tippetts Bridge Road, Legoe Road and Park Road, including South Sector East and the top portion of South Sector, was or has been recently used for agriculture. Large, mostly disused glass houses are located along Park Road, some within the South Sector and others off site adjacent the South Sector. A drainage line was noted along Park Road where potentially transporting water from agricultural activities up-gradient of the subject site.

Indications of potential contamination or of potentially contaminating activities noted while on site include:

- Pesticide application in cropped and glass house areas (the barley cropping activities are not considered to pose a significant risk); and
- Localised potential contamination in the vehicle maintenance compound.

The following photographs were taken during the site inspection on 13th December 2007:

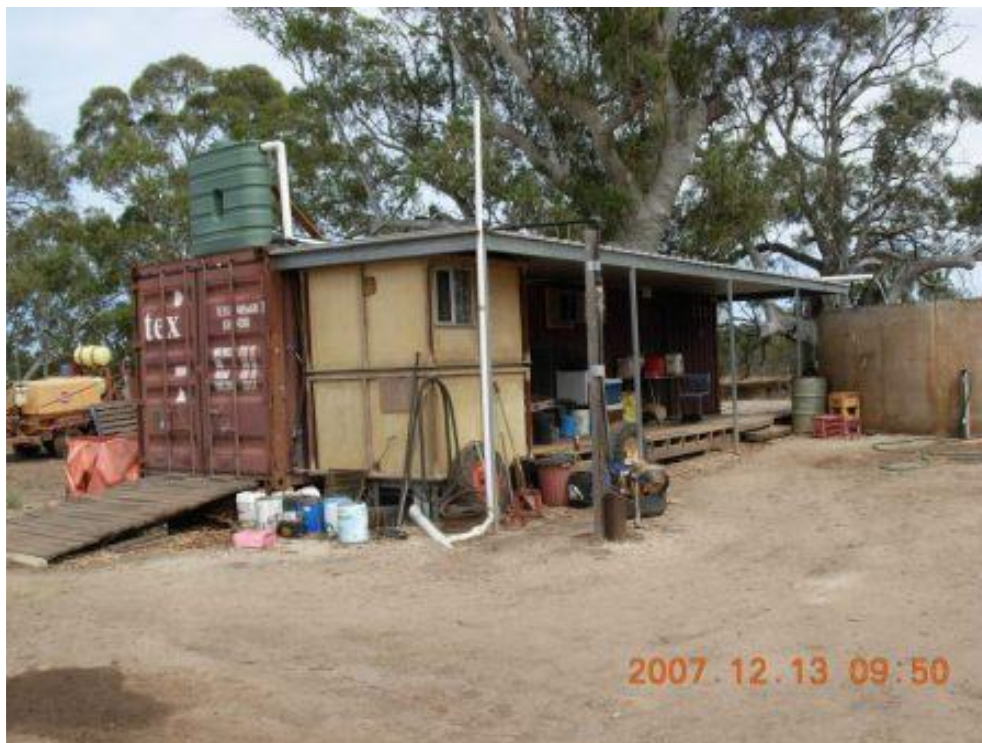


Figure 4-2: Southern view of the shipping container located within the North Sector East



Figure 4-3: View of the north-east corner of the fenced compound within the North Sector East



Figure 4-4: View south of the fenced compound within the North Sector East



Figure 4-5: View east along Gawler River from the fenced compound within the North Sector East



Figure 4-6: View west along Gawler River from the fenced compound within the North Sector East



Figure 4-7: East view of the fenced compound within the North Sector East



Figure 4-8: South-west view of the west boundary of North Sector West, adjacent to an olive grove



Figure 4-9: North-east view along Gawler River on the north boundary of North Sector West



Figure 4-10: Failed irrigation system south of Gawler River, mid-way along the northern boundary of North Sector East



Figure 4-11: Small shearing shed and cattle yards immediately west of Tippets Bridge Road

5. Site History

5.1 Historical Aerial Photography

Historical aerial photographs were obtained from Mapland for the years 1949, 1959, 1969, 1979, 1989, 1999, and 2005 and are attached in Appendix A. These photographs were reviewed with the purpose of identifying historical land uses of the site.

Table 5-1 details observations that were noted during review of these historical aerial photographs. Land uses identified during the review that were considered to pose a potential medium to high contamination risk are presented in Figures 1 and 2 in Appendix B.

Table 5-3 also provides detailed description on the land uses identified as high risk (detailed photographs and location map are presented in Appendix C). Degrees of risk are based on the New Zealand Risk Based Screening System for Contaminated Land Management, 2004, and general knowledge of potential contamination issues on agricultural land and market gardens. Risk rankings are as follows:

<i>High</i>	Contaminants from activity have a high potential to cause harm to receptors including ecosystems and humans
<i>Moderate</i>	Contaminants from activity have a moderate potential to cause harm to receptors including ecosystems and humans
<i>Low</i>	Contaminants from activity have a low potential to cause harm to receptors including ecosystems and humans

The following paragraphs provide a brief overview of land uses observed for the proposed site.

Review of the aerial photographs indicated that North Sector West, North Sector East, South Sector, South Sector West and Central Sector were primarily used for grazing from 1949 to 2005. Additional land uses recorded throughout this period included broad scale cropping, market garden cropping and glasshouse construction. Possible fill importation to an eroded creek bed (Thompson Creek) in North Sector West between 1949 and 1959 may also have occurred.

Potential broad scale cropping was observed in Central Sector in 1959 (Photos 9220 and 9228) and appeared to continue until at least 1969 (Photos 689 and 832). This area was reverted back to grazing between 1969 and 1979 (Photo 16). Also during the 1969-1979 time period, broad scale cropping may have been introduced in South Sector and South Sector West (Photo 16). This appeared to develop into circular cropping between 1979 and 1989. Possible broad scale cropping was also established in the northern end of the site during the 1979-1989 time period (Photo 130, 143 and 144).

This is consistent with a site interview (detailed in section 5.3) that Connell Wagner undertook with land owners Stan and John Gerovasilis on 13 December 2007, which identified that broad scale cropping of barley for cattle feed purposes has occurred in North Sector West, North Sector East, South Sector, South Sector West and Central Sector in the past. This broad scale cropping was not apparent in the 1999 photographs, with the exception of along the east border of North Sector East (Photo 258).

Cropping appears to have been reintroduced in Central Sector between 1989 and 1999. This time the cropping appeared to be in a market garden style and also potentially included the construction of glasshouses (Photo 458). Market gardening in Central Sector appeared to continue through to 2005 (Photo 128). Potential broad scale cropping was observed in North Sector West in 2005 (Photo 115), as was circular cropping within South Sector and South Sector West (Photo 128).

Aerial photographs for historical land uses in and around South Sector East, East Sector and top portions of South Sector indicated that the land has been used for a combination of grazing, broad

scale cropping, market garden cropping, glasshouse construction and shed construction. Possible broad scale cropping was initially observed in 1949 at the southern end of South Sector (Photo 6). This land use was also observed in 1959 (Photos 9228 and 2036). Possible market cropping was initially observed in 1959 off site, directly south of East Sector (Photo 2036). Market cropping in this area increased to include activity within the East Sector along with and also the construction of shed groups and glasshouses in 1969 (Photos 664 and 667). Market cropping in and around East Sector was also observed in 1979, 1989, 1999 and 2005 (Photos 14, 16, 130, 113 and 128). Groups of sheds were also observed in 1989 (Photos 130, 143 and 144), 1999 (Photo 258) and 2005 (Photos 113 and 128).

Possible broad scale cropping was observed in South Sector in 1979 (Photo 16). This increased to circular cropping in 1989 and also expanded to include the mid section of the site (Photo 130). Circular cropping off site, south of the South Sector was also observed in 1999 and 2005 (Photos 458 and 128). Aside from the specific land use descriptions identified above areas, South Sector East, East Sector and top portions of South Sector have been used for grazing purposes.

A detailed description of potentially contaminating activities can be found in Table 5-4.

Table 5-1: Review of the historical aerial photographs for the proposed Buckland Park site

Photo	Scale	Date	Year	Sector Comments
4	1:15800	19 January	1949	Image not zoomed in enough to clearly see the landscape.
6	1:15800	19 January	1949	Grazing land in South Sector and South Sector West
				Grazing land in Central Sector
				Possible broad scale cropping in the south of South Sector
49	1:15800	19 January	1949	Grazing land in North Sector East
				Eroded creek bed perpendicular to the Gawler River in North Sector East
				Grazing land in and around East Sector
51	1:15800	19 January	1949	Grazing land in the North Sector West
9218	1:16000	3 January	1959	Grazing land in the South West Sector
9220	1:16000	3 January	1959	Grazing land in North Sector West
				Potential cropping in Central Sector
9222	1:16000	3 January	1959	Grazing land in North Sector West
9224	1:16000	3 January	1959	Grazing land in North Sector East
9226	1:16000	3 January	1959	Grazing land in North Sector East
				Eroded creek bed perpendicular to the Gawler River in North Sector East (creek bed is less eroded than the 1949 photo)
				Grazing land in and around East Sector and South Sector East
9228	1:16000	3 January	1959	Potential cropping in Central Sector
				Potential broad scale cropping in and around South Sector
				Grazing land in South Sector West
2036	1:56000	10 March	1959	Potential cropping in Central Sector
				Potential broad scale cropping South Sector
				Grazing land in South Sector West
				Grazing land in and around East Sector and South Sector East
				Potential broad scale cropping in and around South Sector East
				Grazing land in north portion of South Sector
662	1:15800	9 January	1969	Cropping in the south of East Sector
				Grazing land East Sector
				Shed group west of the intersection of Port Wakefield Road and Park Road.

Photo	Scale	Date	Year	Sector Comments
				Shed group south of the intersection of Legoe Road and Buckland Road.
664	1:15800	9 January	1969	Grazing land in North Sector East
				Potential cropping and glasshouses in East Sector
				Shed group adjacent to glasshouses in East Sector
				Potential cropping south of East Sector
				Shed group west of the intersection of Reedy Road and Legoe Road
				Shed group south of the intersection of Legoe Road and Buckland Road
687	1:15800	9 January	1969	Grazing land in North Sector East with slightly eroded creek bed.
				Potential cropping and glass houses in East Sector
689	1:15800	9 January	1969	Potential cropping in Central Sector
				Grazing land in South Sector West and South Sector
				Grazing land in and around South Sector East
691	1:15800	9 January	1969	Grazing land in bottom of North Sector East
				Grazing land in South Sector
830	1:14000	9 January	1969	Grazing land in South West Sector
832	1:14000	9 January	1969	Grazing land in North Sector West
				Grazing land in South Sector West
				Potential cropping in Central Sector
				Grazing land in top portion of South Sector
834	1:14000	9 January	1969	Grazing land in North Sector West
89	1:16000	19 March	1979	Grazing land in North Sector West
14	1:16000	19 January	1979	Grazing land in North Sector East
				Potential cropping in and around East Sector
				Shed group south of the intersection of Legoe Road and Buckland Road
				Shed group on Legoe Road
16	1:16000	19 January	1979	Grazing land in South Sector West
				Grazing/broad-scale cropping in South Sector West.
				Grazing land in Central Sector
				Grazing land in and around South Sector East and top portion of South Sector
				Potential cropping in and around East Sector
				Grazing/broad-scale cropping in South Sector
				Shed group south of the intersection of Legoe Road and Buckland Road.
130	1:20000	28 September	1989	Circular cropping in South Sector West
				Circular cropping in South Sector
				Potential cropping (possibly smaller market gardens) in and around East Sector
				Grazing land in top portion of South Sector
				Grazing land in Central Sector
				Grazing land in North Sector East
				Potential broad-scale cropping (possibly barley) in North Sector West
				Shed group on Legoe Road
				Shed group south of the intersection of Legoe Road and

Photo	Scale	Date	Year	Sector Comments
				Buckland Road
				Shed groups north and south of the intersection of Reedy Road and Legoe Road
143	1:20000	28 September	1989	Potential broad-scale cropping (possibly barley) in North Sector East
				Grazing land in North Sector East
				Shed group south of the intersection of Legoe Road and Buckland Road
144	1:20000	28 September	1989	Potential broad-scale cropping (possibly barley) in North Sector East
				Grazing land in North Sector East
				Potential cropping in and around East Sector
				Shed groups north and south of the intersection of Reedy Road and Legoe Road
				Small shed group near intersection of Reedy Road and Reedy Road
				Shed group on Legoe Road
				Shed group south of the intersection of Buckland Road and Legoe Road
				Shed group west of intersection of Port Wakefield Road and Park Road
				Possible shed group and dam outside East Sector
				Possible cropping (possible market gardens) in East Sector
256	1:20000	20 September	1999	Grazing land in North Sector West
258	1:20000	20 September	1999	Grazing land in North Sector East
				Possible broad-scale cropping (possibly barley) along east border of North Sector East
				Possible cropping (possible market gardens) in and around East Sector
				Grazing land west of East Sector
				Shed groups north and south of the intersection of Reedy Road and Legoe Road
				Shed group on Legoe Road
				Small shed group near intersection of Reedy Road and Reedy Road
				Two shed groups and a dam south of the intersection of Buckland Road and Legoe Road
				Possible tank group and dam outside East Sector
458	1:20000	6 October	1999	Grazing land in North Sector East
				Possible cropping (possible market gardens), glasshouses and 2 dams in Central Sector
				Grazing land in South Sector West
				Possible glass houses and dam west of East Sector
				Circular cropping in South Sector
				Grazing land in East Sector
				Possible cropping (possible market gardens) in and around East Sector
113	1:20000	24 January	2005	Grazing land in North Sector East
				Possible small shed in North Sector East on the Gawler River

Photo	Scale	Date	Year	Sector Comments
				Possible cropping (possible market gardens) in and around East Sector
				Grazing land west of East Sector
				Small shed group near the intersection of Reedy Road and Reedy Road
				Shed groups north and south of the intersection of Reedy Road and Legoe Road
				Possible dam also south of the intersection of Reedy Road and Legoe Road
				Shed group on Legoe Road
				Two shed groups and a dam south of the intersection of Legoe Road and Buckland Road
				Small shed group outside East Sector near Port Wakefield Road
115	1:20000	24 January	2005	Grazing land in North Sector West
				Possible broad-scale cropping in North Sector West
128	1:20000	24 January	2005	Possible circular cropping in South Sector West
				Grazing land in South Sector West
				Possible cropping (possible market gardens?) in Central Sector
				Possible glass houses and 2 dams in Central Sector
				Grazing land in North Sector East
				Possible circular cropping in the south of South Sector
				Possible glass houses and dam in the top portion of South Sector
				Possible cropping (possible market gardens) in and around East Sector
				Shed group north and south of the intersection of Reedy Road and Legoe Road
				Possible dam also south of the intersection of Reedy Road and Legoe Road
				Shed group on Legoe Road
				Two shed groups and a dam south of the intersection of Legoe Road and Buckland Road
				Large shed group south of East Sector near intersection of Port Wakefield Road and Park Road
				Possible glasshouse groups or dams in and around East Sector
				Small shed group near the intersection of Buckland Road and Park Road
				Possible glasshouse group or dam on Park Road near the intersection with Buckland Road

Table 5-2: Detailed description of high risk land uses identified in historical aerial photographs of site

Image	High Risk Land Use	Location	Description	Age of Infrastructure
A	Glasshouse groups, Sheds and intensive cropping	Central Sector	7 glasshouse groups (~3300m ² , 1600m ² , 1800m ² , 3500m ² , 3800m ² , 3500m ² and 1600m ²) 5 Sheds (~60m ² , 150m ² , 100m ² , 60m ² and 50m ²) Intensive cropping (~21500m ²)	1999-2005

Image	High Risk Land Use	Location	Description	Age of Infrastructure
B	Dams and shed	Central Sector	2 dams (~4000m ² and 3000m ²) Shed (~200m ²)	1999-2005
C	Glasshouses, sheds and dam	Top portion of South Sector	3 glasshouse groups (~21000m ² , 21000m ² and 21000m ²) 2 sheds (~500m ² and 700m ²) Dam (~14500m ²)	1999-2005
D	Glasshouse groups, intensive cropping and a dam	Between South Sector and South Sector East	4 glasshouse groups (~6400m ² , 3800m ² , 3400m ² and 4600m ²) 3 intensive cropping gardens (~6500m ² , 5800m ² and 3500m ²) Dam (~340m ²)	2005
E	Shed	Between South Sector and South Sector East	Single shed (~130m ²)	2005
F	House	North of the intersection of Park Road and Buckland Road in South Sector East	House and gardens (~2000m ²)	2005
G	Nursery	North of intersection of Park Road and Port Wakefield Road south outside of East Sector	Intensive farming area including glasshouse groups and open planting trays (~36700m ²) 2 shed groups (~1200m ² and 180m ²) 2 houses and gardens (~5500m ² and 6500m ²)	Initial shed group in 1969 although the nursery existed from 1989-2005
H	Sheds, tanks and dams	North of the intersection of Park Road and Port Wakefield Road south outside of East Sector	Shed group (~120m ²) 3 Tanks (~10m, 10m and 6m in diameter) 2 Dams (~2000m ² and 2000m ²)	1999-2005
I	Houses, shed groups, tank, orchard and dam	South of intersection of Legoe Road and Reedy Road outside East Sector	2 Houses with small tanks (~350m ² and 350m ²) 3 Sheds (~650m ² , 140m ² and 150m ²) Tank (~10m diameter) Orchard (~3000m ²) Dam (~1500m ²)	1969-2005
J	House and shed group	North of intersection of Legoe Road and Reedy Road in East Sector	House (~490m ²) 7 sheds (~75m ² , 80m ² , 70m ² , 65m ² , 45m ² , 40m ² and 55m ²)	1989-2005
K	Glasshouse group, Shed groups and intensive cropping	Near intersection of Reedy Road and Martin Road in East	6 Sheds (~250m ² , 30m ² , 60m ² , 25m ² , 40m ² and 35m ²) Glasshouse group (~5500m ²) Intensive cropping area (~700m ²)	1969-2005 (the glasshouse group only existed in the 1969 aerial

Image	High Risk Land Use	Location	Description	Age of Infrastructure
		Sector		photograph)
L	Shed groups	On Legoe Road in outside of East Sector	4 shed groups (~320m ² , 250m ² , 25m ² and 20m ²) and 10 shed groups (~10m ² each)	1969-2005
M	House, sheds and orchard	South of intersection of Buckland Road and Legoe Road outside of South Sector East	House (~950m ²) 4 Sheds (~750m ² , 45m ² , 40m ² and 20m ²) Orchard- possibly olive trees (~42000m ²)	1969-2005
N	Shed and dam	South of intersection of Buckland Road and Legoe Road outside of South Sector East	Shed (~220m ²) Dam (~3500m ²)	1999-2005
O	Shed and dam	On Park Road, east of the intersection with Buckland Road outside of South Sector East	Shed (~50m ²) Dam (~7500m ²)	2005
P	Possible Acid Sulphate Soils	Thompson Creek south of Park Road	~120000m ²	
Q	Market gardening	Mid section of Central Sector	Market gardening (~905,000m ²)	1999-2005
R	Market gardening	East Sector	Market gardens (~575,500m ²)	1969-2005
S	Market gardening	East Sector	Market gardens (~1,630,000m ²)	1989-2005
T	Market gardens	South Sector East	Market gardens (~180,000m ²)	1999-2005
U	Market gardens	South Sector East	Market gardens (~115,000m ²)	2005
V	Camp Area	North Sector East	Shed, tank and area filled with tractors etc. (~1400m ²)	2005

5.2 Ownership search – Certificate of Title Summary

A Certificate of Title search was undertaken to identify previous owners of allotments within the site. The current owners and leasers appear to be businesses and / or business owners.

Certificate of Title history indicated the majority of land within the 1,308 ha site has been used for grazing since the late 1800's and early 1900's, the earliest title, a farm dated 1871. Common occupants of previous titles include farmers, graziers and pastoralists. Exceptions to these occupations are included within Table 5-3. Previous Certificates of Title can be found in Appendix D.

Table 5-3: Certificates of Title for the site, other than farmers, graziers and pastoralists

Name/Occupation/Organisation	Previous CTs	Year	Affected CTs
Nacho Nacev, market gardener	2099/148 2003/185 2005/76 2657/15 3050/44	1948	5424/348
Jordan Evanoff, market gardener	2099/148 2099/147 2005/76	1948	5424/348
Stephan Ivanov, market gardener	2099/148 2099/147 2005/76	1948	5424/348
Thotcho Ganeff, Market gardener	2577/161	1958	5424/348
Guiseppe Trimboli, Domenica Trimboli, market gardener	3357/43 3357/46	1965	5916/60 5916/59 5916/63
Domenic Trimboli, market gardener	3489/165 3567/57	1978	5916/60
Palo Musolino, market gardener	3485/41 3570/13 3570/14	1967 1968	5916/61 5251/813 5251/814 5759/187
Van Quan Tean, market gardner	2741/119 2741/118	1987	5424/348
Lea Van Liem, market gardener	2657/14	1989	5424/348
Geza Debreceni, builder	3849/104	1972	5477/581
Charles Gross, Chemist	563/3	1892	5864/500 5864/501 5864/499
Frederick and Alfred Cane, butchers	1547/29	1929	5755/199 et al

5.3 Anecdotal / Site Inspection Information

Connell Wagner undertook interviews with current site owners (of North Sector West, North Sector East, Central Sector and South Sector West) Stan and John Gerovasilis on 13 December 2007. Additional Sectors could not be accessed or discussed during this inspection however general observation over site boundaries was undertaken. Stan and John indicated that the majority of land in these sectors is used for grazing of cattle. They have agisted cattle on the site for the last 30 years and confirmed that the land had been in use for this purpose since initial colonisation of the land.

The proposed site had been part of a larger (20,000ha) property extending north of the Gawler River and all infrastructure associated with the grazing use (such as chemical dips, landfills, fuel storage) had been located north of the river.

The cattle holding yards noted immediately west of the Buckland Road entrance in the south of the site were built 5 years ago and the shearing shed and associated cattle holding yards noted immediately west of Tippetts Bridge Road were built 1 year ago. No associated chemical dips were present.

The shipping container located within the fenced compound on the northern end of Buckland Road (adjoining Gawler River) was built 4 years ago.

The parcel of land bounded by Legoe Road to the north, Beagle Hole Road to the west and Park Road to the south was not actually in the ownership of the Gerovasilis family at this time.

5.4 Section 7 Searches

5.4.1 EPA Section 7 Enquiry

A Section 7 Enquiry was formally requested from the EPA. Information gathered from the Section 7 Enquiry included:

- The EPA are aware of non active licence for activities of:
 - Chemical Storage and Warehouse Facilities and;
 - Chemical Works on land parcel CT 5875/910
- The former Waste Management Commission under the repealed *Waste Management Act 1987* have record of waste (within the meaning of that Act) being deposited on the land parcel CT 5447/585 between 1 January 1983 and 30 April 1995, details of which are on the public register

The information gathered from the Section 7 Enquiry does not present any major concern for the site. Given the agricultural nature of the site it is not unusual to find details of chemical storage and waste licences.

Section 7 Documents are included in Appendix E.

5.4.2 City of Playford Section 7 Enquiry

A Section 7 Enquiry was formally requested from the Playford City Council and no results were found in regards to potential contamination issues.

Section 7 Documents are included in Appendix E.

5.5 Summary of Site History – Potentially Contaminating Activities

5.5.1 Discussion

Potentially contaminating activities identified in the site history investigation are summarised along with their significance in Table 5-4. Degrees of significance are based on general knowledge of potential contamination issues on agricultural land and market gardens and are defined as follows:

<i>High</i>	Contaminants from activity have a high potential to cause harm to receptors including ecosystems and humans
<i>Moderate</i>	Contaminants from activity have a moderate potential to cause harm to receptors including ecosystems and humans
<i>Low</i>	Contaminants from activity have a low potential to cause harm to receptors including ecosystems and humans

This preliminary site contamination investigation was conducted based on general knowledge of potential contamination issues on agricultural land and market gardens and the requirement to assess potential significant risks associated with the proposal. It is intended only to identify potential constraints to the uses proposed in the Masterplan, and to identify additional investigations required should the proposal be approved and proceed

Table 5-4: Summary of potentially contaminating activities

Potentially contaminating activity	Potential contaminants	Likely locations	Persistence / mobility in soils, toxicity	Chemical analytes	Likely significance
Market gardens - glasshouses, sheds, importation of fill and possible minor landfill	Application of herbicides, pesticides, insecticides and/or fertilisers, metals	Central Sector and north of Park Road on South Sector East	Variable persistence and mobility in soils. Generally low toxicity to humans.	Glyphosate, triazines and arsenic, organochlorine and organophosphate pesticides, metals	<i>Moderate to high</i> . Localised. Minor significance in soils if modern organic herbicides have been used. However, if arsenic-based herbicides or chlorinated organics were used historically the risk profile may be higher.
Importation of fill – unknown source(s)	Bitumen, oil, metals, arsenic, pesticides, acid/caustic substances	Over whole site (unlikely), potentially at Thompson Creek area Northern Sector West	Various levels of mobility, persistence and toxicity.	Hydrocarbons (PAH ¹ and TPH ²), arsenic and heavy metals, pH, pesticides	<i>Low</i> . Only of major significance should levels in soil prove to be elevated. Extent likely to be localised. Grading (reshaping of natural) likely to have occurred rather than importation.
Broad scale farming (barley for feed)	Pesticide/herbicide Application	Whole site at different times, not extensive duration at any particular location (rotational)	Various levels of mobility, persistence and toxicity.	Glyphosate, triazines and arsenic, organochlorine and organophosphate pesticides	<i>Low</i> . Minor potential contamination particularly if modern organic herbicides or no pesticides and herbicides have been used.
Grazing	Pesticide/herbicide Application	Whole site at different times, not extensive duration at any particular location (rotational)	Various levels of mobility, persistence and toxicity.	Glyphosate, triazines and arsenic, organochlorine and organophosphate pesticides	<i>Low</i> . Minor potential contamination particularly if modern organic herbicides or no pesticides and herbicides have been used.
Vehicle service compound	Petroleum Hydrocarbons, metals	North Sector West - Northern end of Buckland Road	Medium to high persistence and low mobility in soil.	TPH ² , PAH ¹ , metals	<i>Low to moderate</i> . Small area (approximately 400 square metres)
Drainage line, Park Road	Contaminated agricultural wastewater Herbicides, pesticides, nutrients, metals	South Sector East, southern boundary	Various levels of mobility, persistence and toxicity.	organochlorine and organophosphate pesticides, metals, nutrients	<i>Low to moderate</i> . Localised, dilute contaminants.
Olive groves close to western boundary (off-site)	Pesticide/herbicide Application	North Sector West – western boundary	Various levels of mobility, persistence and toxicity.	Glyphosate, triazines and arsenic, organochlorine and organophosphate pesticides	<i>Low</i> . Localised potential impact. Minor potential contamination particularly as modern organic chemicals or no pesticides and herbicides have been used.

¹ Polycyclic Aromatic Hydrocarbons

² Total petroleum hydrocarbons.

A summary of the potential contamination risks to the site sectors is outlined in Table 5-5 and displayed in Figure 5-1. These risk rankings are based on the New Zealand Risk Based Screening System for Contaminated Land Management, 2004.

Table 5-5- Site Sector Risk Summary

Sector	Comments	Potential contamination risk
North Sector West	Primary use for grazing, rotational use for barley cropping. Any contamination from both activities would be broad and diffuse over a large portion of these site sectors. Land reshaping has occurred in the Thompson Creek area on the eastern boundary of the sector. Fill may have been imported here, but it is more likely to have consisted of grading of the existing landform.	Low to moderate
North Sector East	Primary use for grazing, rotational use for barley cropping. Any contamination from both activities would be broad and diffuse over a large portion of these site sectors. Very localised contamination may have occurred in the tractor maintenance compound at the northern end of Buckland Road with the risk of contamination likely to be low	Low to moderate
South Sector West	Primary use for grazing, rotational use for barley cropping. Any contamination from both activities would be broad and diffuse over a large portion of these site sectors	Low to moderate
Central Sector	Some localised contamination may have occurred due to market gardening activities. This has only occurred in this sector for the last ten years and the risk of contamination is moderate, due to the more benign nature of chemicals likely to be in use. Soil within the drainage ditch noted along Park Road may have been contaminated by chemicals in waste-water discharged from agricultural activities outside and within the site.	Moderate
South Sector East	A significant proportion of the land within and surrounding this sector has been used for market gardening since the 1950s. The balance of the sector has been used for grazing and broad acre cropping.	Moderate to high
South Sector	A significant proportion of the land within and surrounding the top portion of this sector (predominantly north of Park Road) has been used for market gardening since the 1950s. Soil within the drainage ditch noted along Park Road may have been contaminated by chemicals in waste-water discharged from agricultural activities outside and within the site. The balance of the sector has been used for grazing and broad acre cropping.	Moderate to high
East Sector	A significant proportion of the land within and surrounding this sector has been used for market gardening since the 1950s. The balance of the sector has been used for grazing and broad acre cropping.	Moderate to high

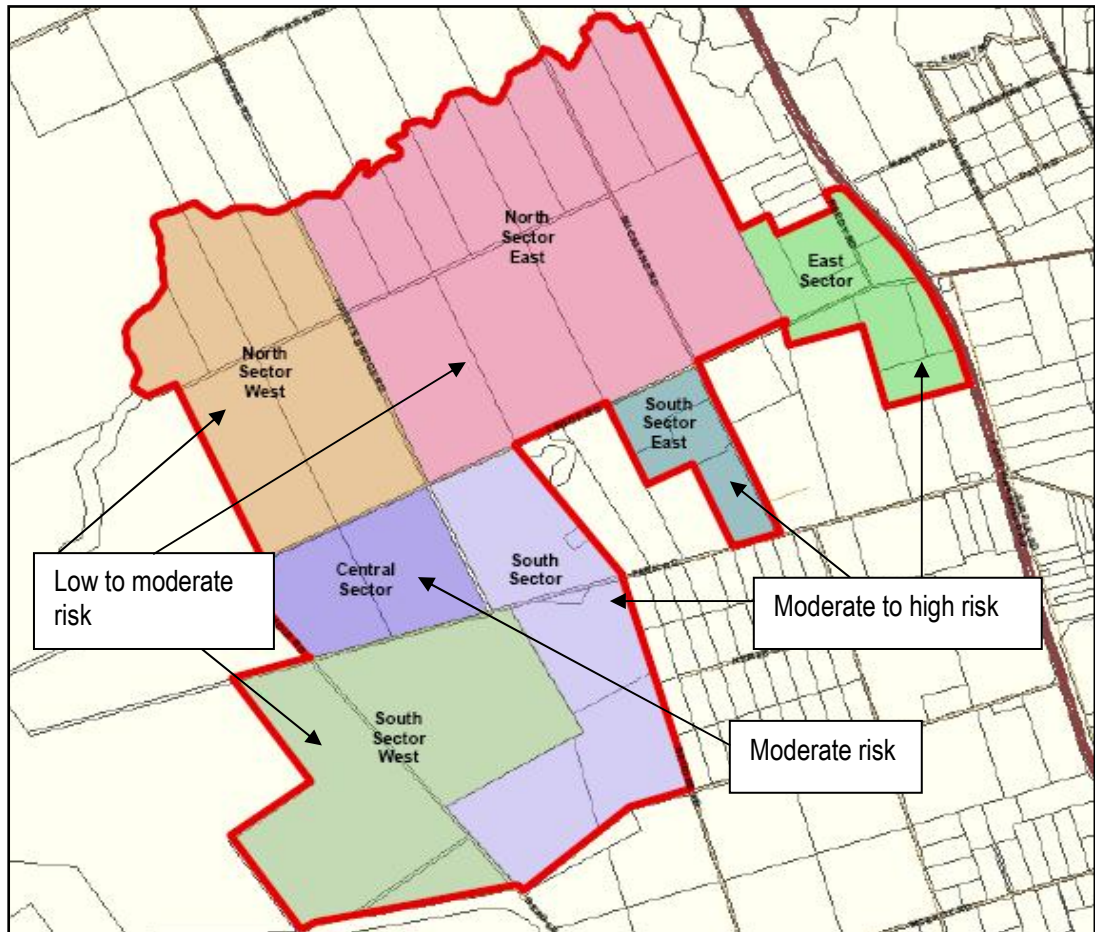


Figure 5-1: Contamination Risk Sector Map

It was also noted during the investigation:

- Potential contamination “hot spots” (point sources) associated with agricultural and grazing activities including landfills and sheep and cattle dips, were not identified during the site history investigation.
- Soil within the storage dam for the Virginia pipeline treated wastewater (from the Bolivar Sewage treatment plant) may have been contaminated by chemicals within the wastewater however this is unlikely.

The site history investigation suggests that the primary use of the site has been for grazing and broad acre cropping (barley for stock feed) rotating over the majority of the site at different times. In both cases, any contamination would be broad and diffuse over a large portion of the site reducing associated contamination risks. The most significant risk areas are in the South Sector East, East Sector, and the top portion of the South Sector (predominantly north of Park Road) where a significant proportion of the land within and surrounding these sectors has been used for market gardening since the 1950s.

6. Conclusions

The site history investigation suggests that the primary use of the site has been for grazing and therefore there is a low potential risk of contamination. Cropping of this land for barley has occurred rotationally over time, with a correspondingly low to moderate risk of contamination. In both cases, any contamination would be broad and diffuse over a large portion of the site reducing associated risks.

Some localised contamination may have occurred in the Central Sector due to market gardening activities, however this has only occurred in the last ten years hence the risk of contamination is moderate, due to the more benign nature of chemicals likely to be in use.

Land reshaping was noted to have occurred in the Thompson Creek area on the eastern boundary of North Sector West. This land reshaping may have required fill importation but is more likely to have consisted of grading of the existing landform.

Very localised contamination may have occurred in the tractor maintenance compound at the northern end of Buckland Road in North Sector East, however the risk of contamination is not considered to be high.

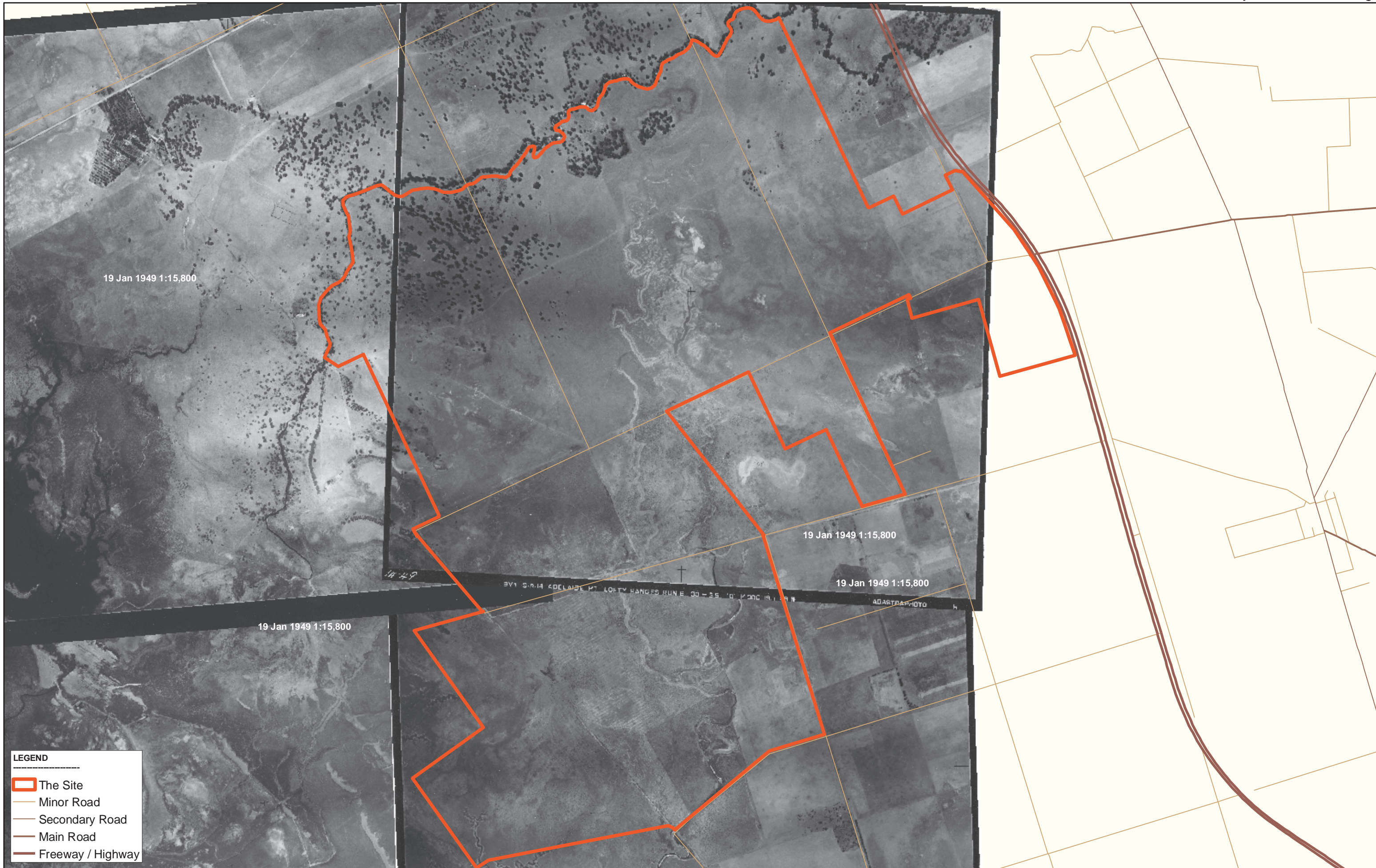
The site history investigation suggests that a significant proportion of the land within and surrounding South Sector East, East Sector, and the top portion of South Sector (predominantly north of Park Road) has been in use for market gardening since the 1950s, with a proportionally moderate to high risk. The balance of the site has been in use for grazing and broad acre cropping. In any case, these activities (due to extent and chemical application methods) would result in contamination diffused over a large portion of the site. Localised soil (and potentially groundwater) contamination may have occurred in association with a drainage line along Park Road in the South Sector.

These conclusions are provided to guide the preliminary site contamination assessment prepared by Connell Wager.






Appendix A

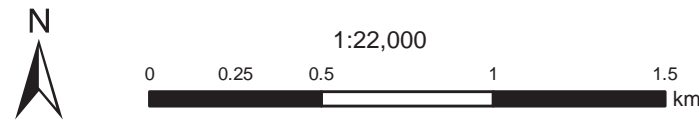
Historical Aerial Photographs

Appendix A



LEGEND

-  The Site
-  Minor Road
-  Secondary Road
-  Main Road
-  Freeway / Highway



Produced By Connell Wagner
Data Sources Transport SA
Projection Transverse Mercator
Datum Geocentric Datum of Australia 1994
Complied 23/10/08

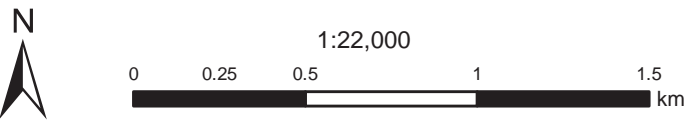
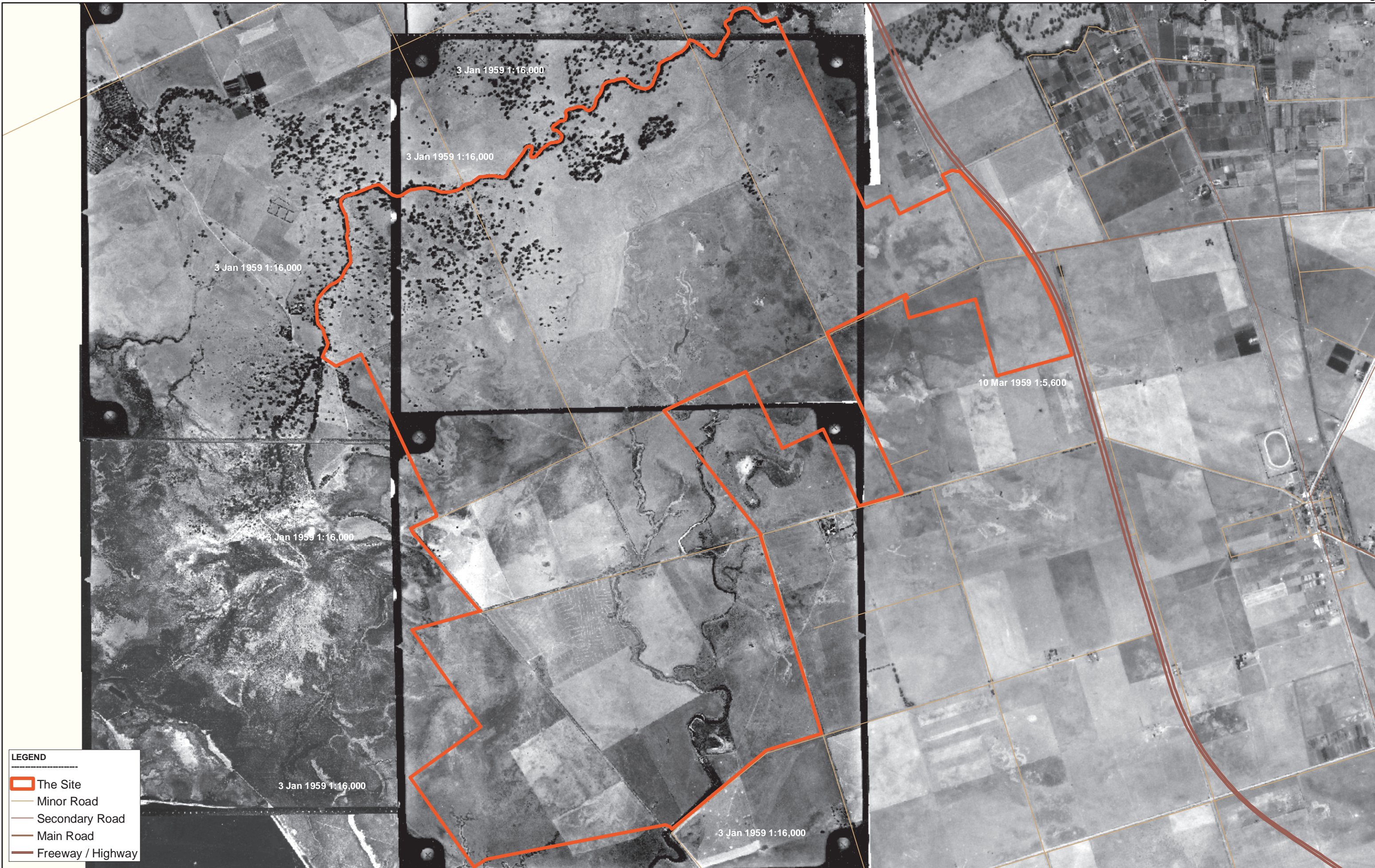
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 Data Sources
 Projection
 Datum
 Complied

Connell Wagner
 Transport SA
 Transverse Mercator
 Geocentric Datum of Australia 1994
 23/10/08

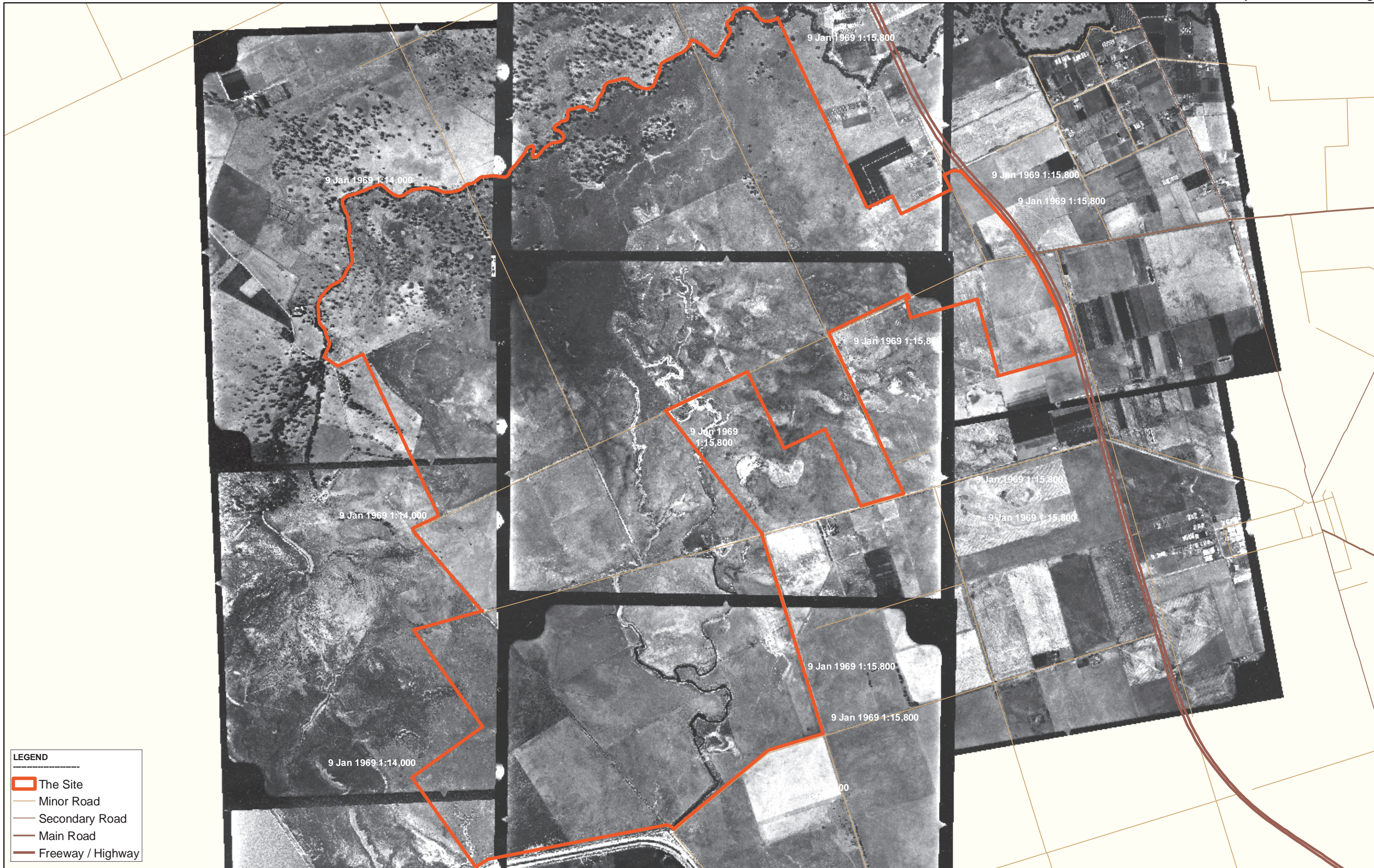
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LEGEND

- The Site
- Minor Road
- Secondary Road
- Main Road
- Freeway / Highway

N

1:22,000

0 0.25 0.5 1 1.5 km

Produced By
Data Sources
Projection
Datum
Complied

Connell Wagner
Transport SA
Transverse Mercator
Geocentric Datum of Australia 1994
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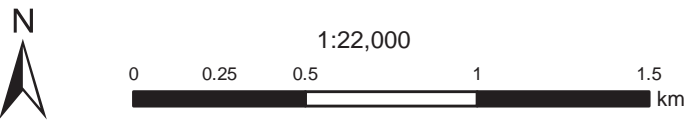
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Prior to undertaking any in ground excavation, testing on construction activity the contractor shall verify the location of all services within the subject area using service authority data and onsite support and appropriate location techniques.



LEGEND

- The Site
- Minor Road
- Secondary Road
- Main Road
- Freeway / Highway



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LEGEND

- The Site
- Minor Road
- Secondary Road
- Main Road
- Freeway / Highway

N

1:22,000

0 0.25 0.5 1 1.5 km

Produced By Connell Wagner
Data Sources Transport SA
Projection Transverse Mercator
Datum Geocentric Datum of Australia 1994
Complied 23/10/08

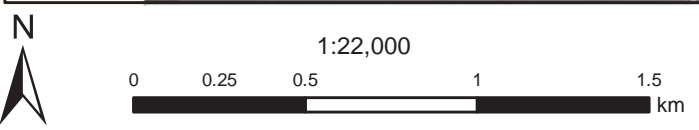
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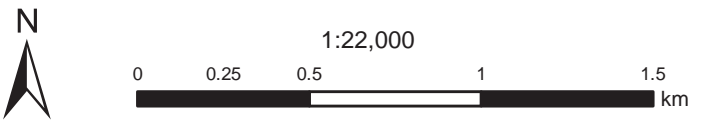
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24 Jan 2005 1:20,000

24 Jan 2005 1:20,000

LEGEND

- The Site
- Minor Road
- Secondary Road
- Main Road
- Freeway / Highway



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Projection Transverse Mercator
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Complied 23/10/08

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Appendix B

High Contamination Risk Maps

Appendix B



LEGEND

- Water Course
- The Site
- Minor Road
- Secondary Road
- Main Road
- Freeway / Highway

Historical landuses

- Dams & Shed 1999-2005
- Glasshouse 1969
- Glasshouse 1999-2005
- Market Garden 1969-2005
- Market Garden 1989-2005
- Market Garden 1999-2005
- Market Garden 2005
- Nursery 1889-2005
- Shed group 2005

Historical landuses

- Dams
- Shed 2005
- Shed group 1969
- Shed group 1969-2005
- Shed group 1989-2005
- Shed group 1999-2005
- Shed group 2005
- Tank group 1999-2005

N

1:22,000

0 0.25 0.5 1 1.5 km

Produced By Connell Wagner
Data Sources Transport SA
Projection Transverse Mercator
Datum Geocentric Datum of Australia 1994
Complied 16/10/08

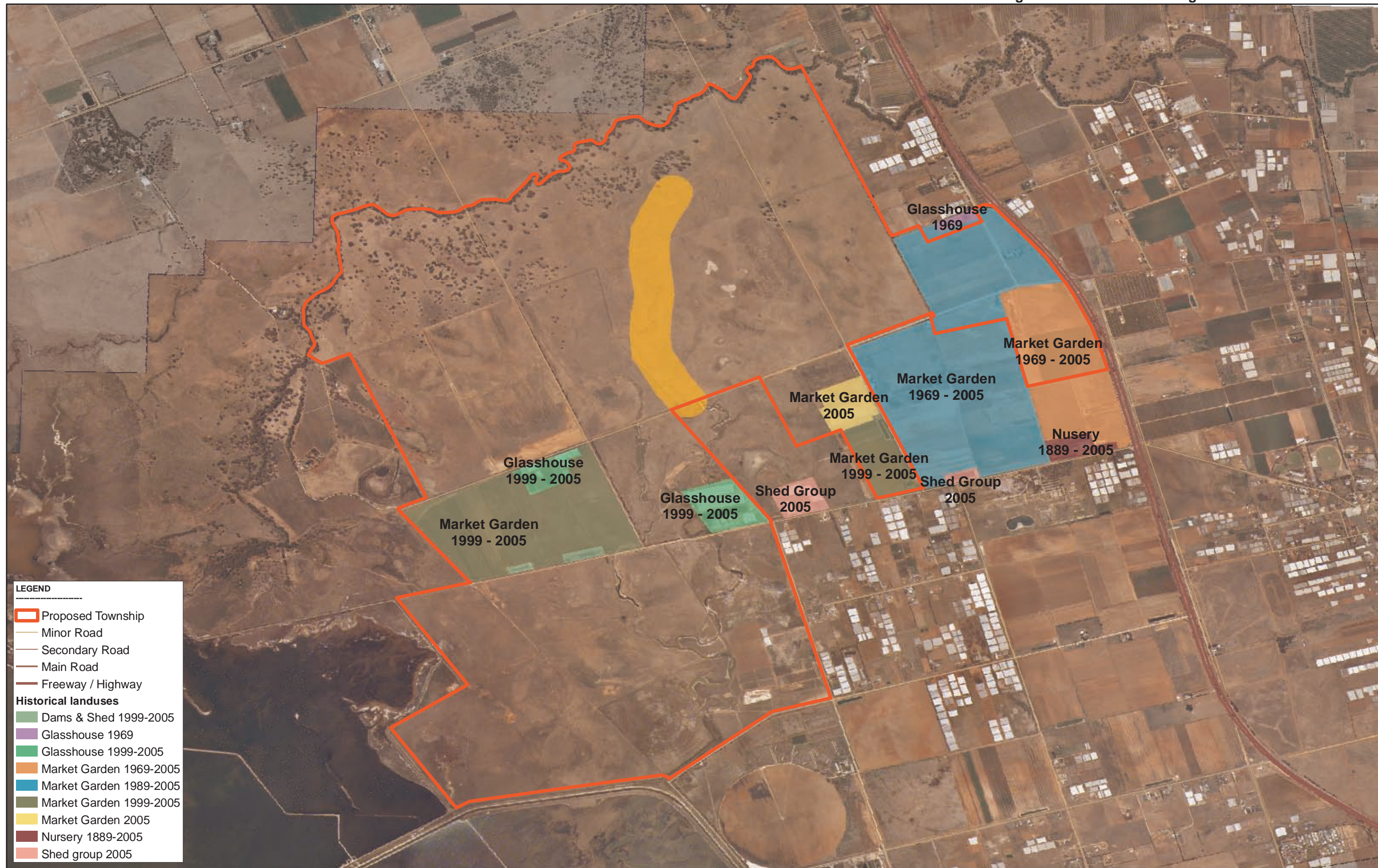
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LEGEND

- Proposed Township
- Minor Road
- Secondary Road
- Main Road
- Freeway / Highway

Historical landuses

- Dams & Shed 1999-2005
- Glasshouse 1969
- Glasshouse 1999-2005
- Market Garden 1969-2005
- Market Garden 1989-2005
- Market Garden 1999-2005
- Market Garden 2005
- Nursery 1889-2005
- Shed group 2005



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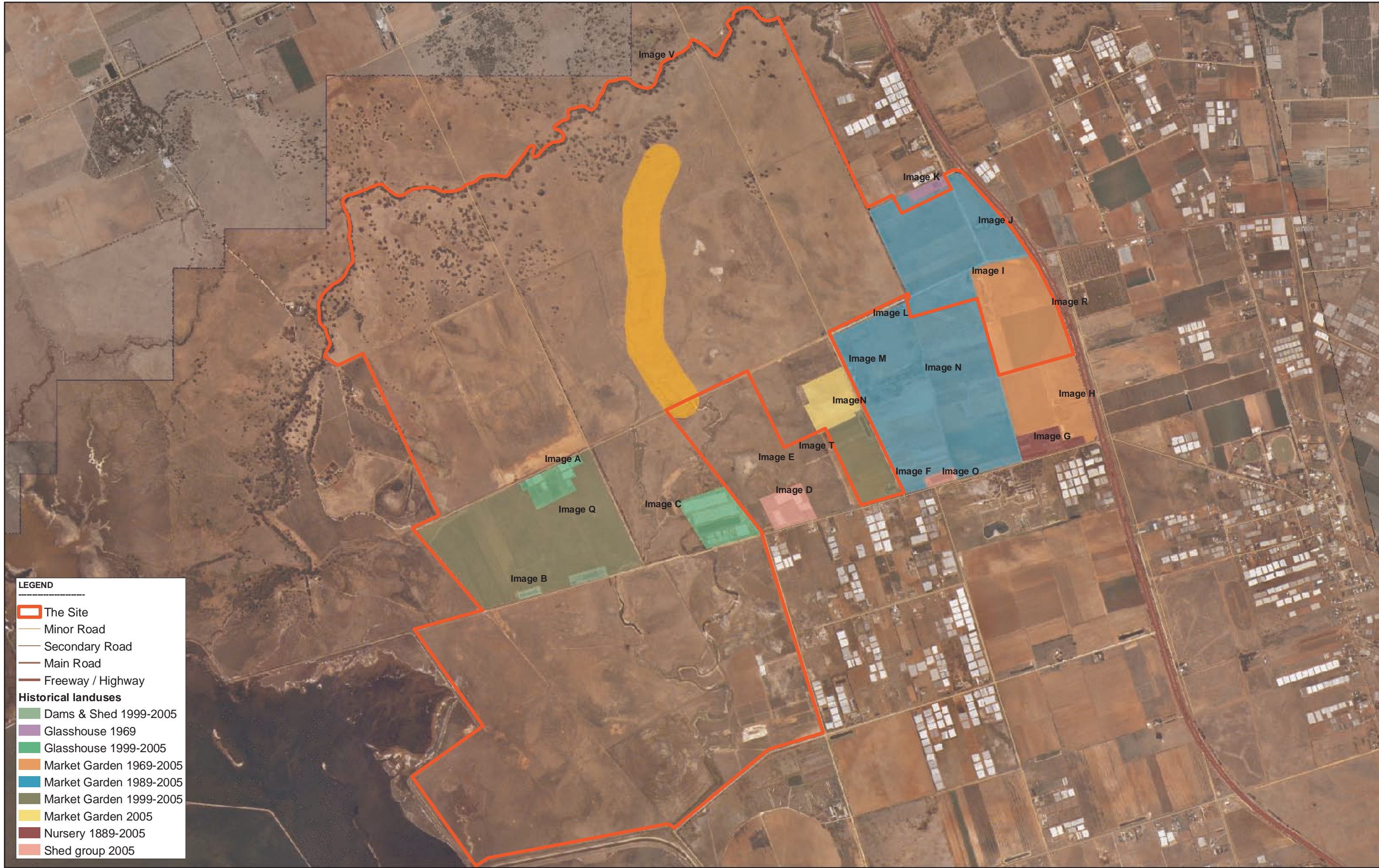
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Appendix C

Detailed Aerial Photography

Appendix C



LEGEND

- The Site
- Minor Road
- Secondary Road
- Main Road
- Freeway / Highway

Historical landuses

- Dams & Shed 1999-2005
- Glasshouse 1969
- Glasshouse 1999-2005
- Market Garden 1969-2005
- Market Garden 1989-2005
- Market Garden 1999-2005
- Market Garden 2005
- Nursery 1889-2005
- Shed group 2005

N

1:22,000

0 0.25 0.5 1 1.5 km

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Data Sources Transport SA
Projection Transverse Mercator
Datum Geocentric Datum of Australia 1994
Complied 16/10/08

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LEGEND

Proposed Township

— Large Boundary

— Proposed Township

— Sandy



Project title: To erect 1000 sqm
DA to be made: DA 11
Project address: 1000 sqm site
DA user: Council of the City of Brisbane 4000 1000 1000
DA number: 1000 1000 1000

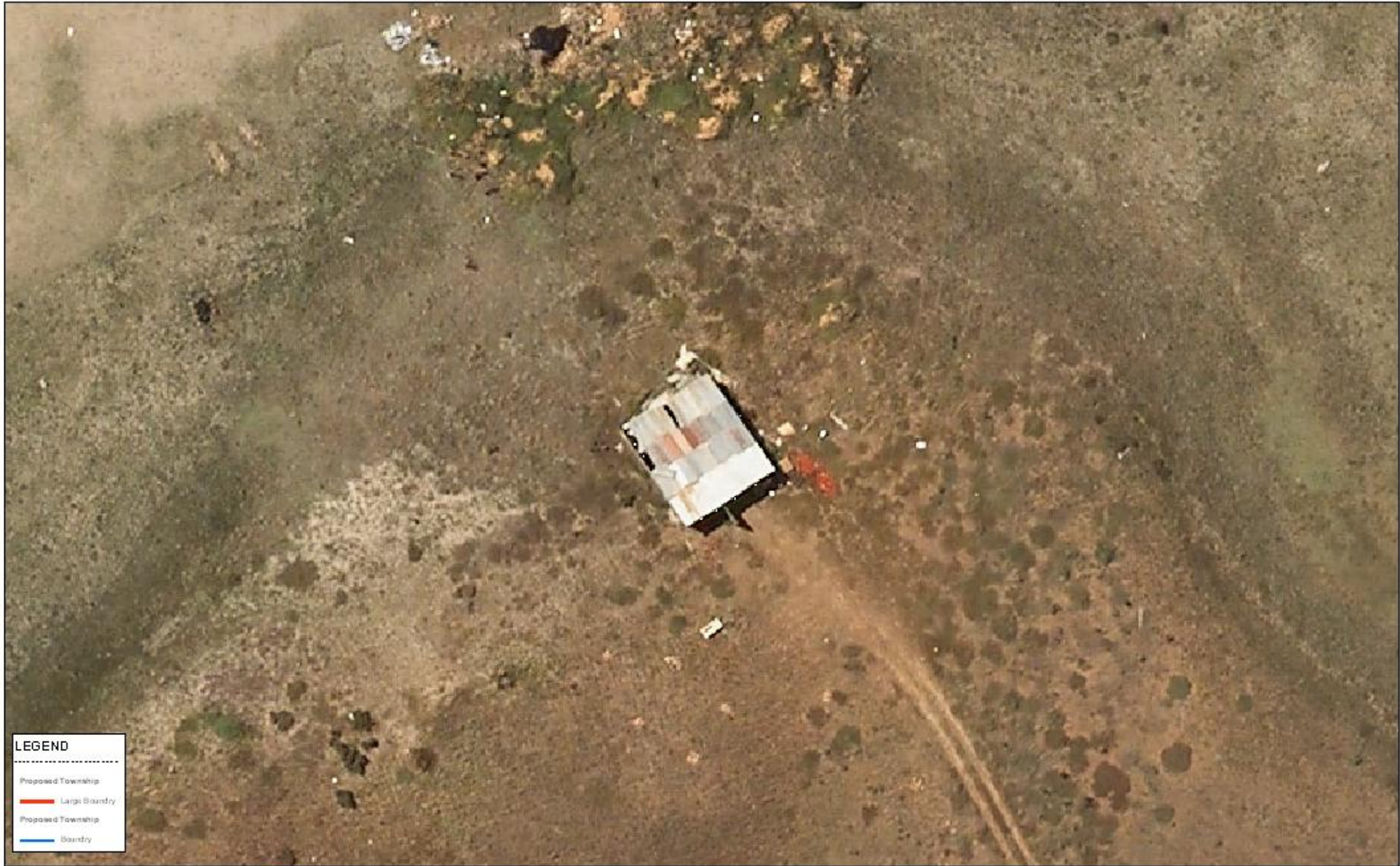
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DA to be made: DA 11
Project address: 1000 sqm site
DA user: Council of the City of Brisbane 4000 1000 1000
DA number: 1000 1000 1000

Project title: To erect 1000 sqm
DA to be made: DA 11
Project address: 1000 sqm site
DA user: Council of the City of Brisbane 4000 1000 1000
DA number: 1000 1000 1000

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DA to be made: DA 11
Project address: 1000 sqm site
DA user: Council of the City of Brisbane 4000 1000 1000
DA number: 1000 1000 1000

Project title: To erect 1000 sqm
DA to be made: DA 11
Project address: 1000 sqm site
DA user: Council of the City of Brisbane 4000 1000 1000
DA number: 1000 1000 1000

Project title: To erect 1000 sqm
DA to be made: DA 11
Project address: 1000 sqm site
DA user: Council of the City of Brisbane 4000 1000 1000
DA number: 1000 1000 1000



North Arrow N

Scale 0 100 200

Proposed Township -----

Proposed Township Large Boundary

Proposed Township Boundary

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- Projection:** UTM, Zone 50S, Datum: WGS 84.
- Scale:** 1:50,000.
- Author:** Cornell Wagner.
- Date:** 2010.

Map Information This map was created using the following information:

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- Projection:** UTM, Zone 50S, Datum: WGS 84.
- Scale:** 1:50,000.
- Author:** Cornell Wagner.
- Date:** 2010.

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- Projection:** UTM, Zone 50S, Datum: WGS 84.
- Scale:** 1:50,000.
- Author:** Cornell Wagner.
- Date:** 2010.



LEGEND

Proposed Township

Large Boundary

Proposed Township

Boundary



Project and Site Information

Project Name: [Illegible]

Site Location: [Illegible]

Proposed Township: [Illegible]

Large Boundary: [Illegible]

Proposed Township: [Illegible]

Boundary: [Illegible]

Map Scale: 1 inch = 100 feet

Map Date: [Illegible]

Map Author: [Illegible]

Map Title: [Illegible]

Map Description: [Illegible]

Map Notes: [Illegible]



LEGEND

- Proposed Township
- Large Boundary
- Proposed Township
- Boundary



Project title: 2024-2025 Strategic Plan
Client: City of Buckland Park
Project location: 10000 E. 10th Avenue, Buckland Park, CO 80101
Scale: 1:10000
Map projection: NAD 83 UTM Zone 18N
Map data: Aerial imagery from 2024, processed by Cornell Wagner & Associates, Inc.
Map date: 10/20/2024
Map author: Cornell Wagner & Associates, Inc.
Map contact: 10000 E. 10th Avenue, Buckland Park, CO 80101
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LEGEND

Proposed Township

— Large Boundary

Proposed Township

— Boundary



Project No. 10-0001-1000
Date: 10/10/2010
Scale: 1:5000
Author: [Name]
Reviewer: [Name]
Date: 10/10/2010

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LEGEND

Proposed Township

Large Bandy

Proposed Township

Bandy

N

1:10,000

Proposed: 10/01/2018
Date of Issue: 10/01/2018
Proposed: 10/01/2018
Date of Issue: 10/01/2018

10/01/2018
10/01/2018
10/01/2018
10/01/2018

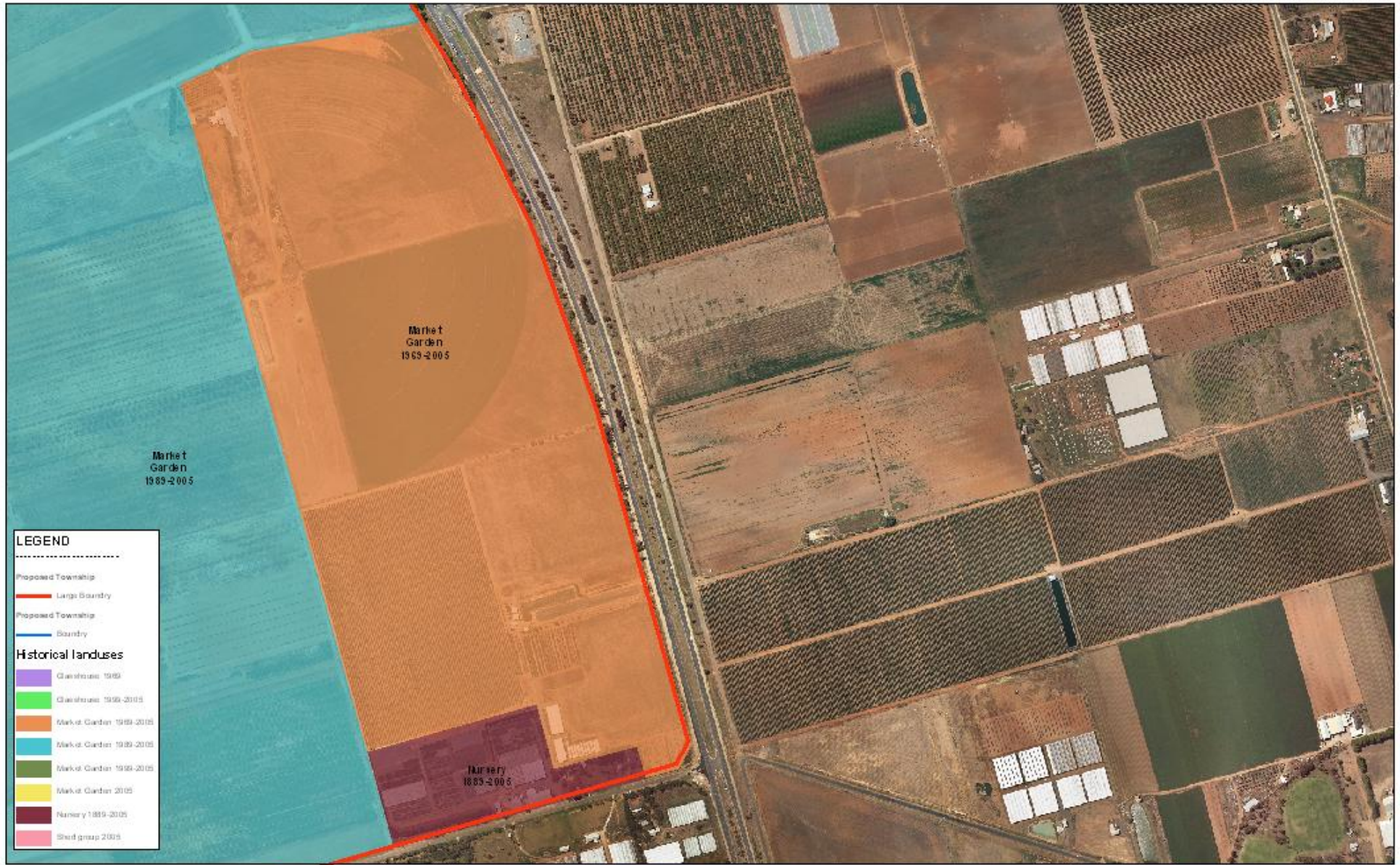
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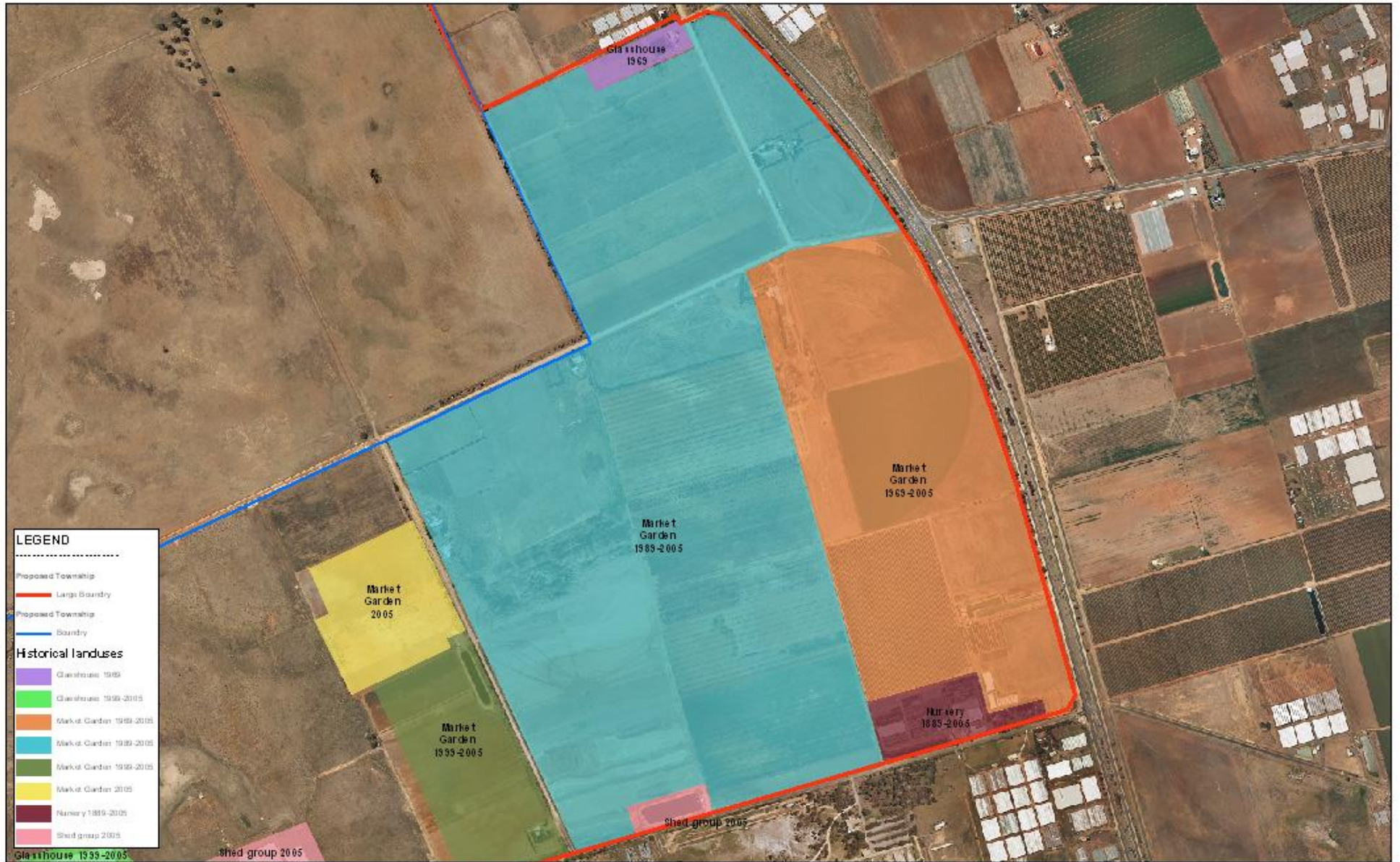
Project title: ...
Client: ...
Date: ...

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LEGEND

Proposed Township
Large Boundary
Proposed Township
Boundary

Historical landuses

- Glasshouse 1963
- Glasshouse 1963-2005
- Market Garden 1963-2005
- Market Garden 1963-2005
- Market Garden 1963-2005
- Market Garden 1963-2005
- Market Garden 2005
- Nursery 1885-2005
- Shed group 2005



LEGEND

Proposed Township

- Large Boundry
- Boundry

Historical landuses

- Greenhouse 1989
- Greenhouse 1989-2005
- Market Garden 1989-2005
- Market Garden 1989-2005
- Market Garden 1989-2005
- Market Garden 1999-2005
- Market Garden 2005
- Nursery 1889-2005
- Shed group 2005



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LEGEND

Proposed Township
— Large Bandy
 Proposed Township
— Bandy



Project title: The name of the project.
Client: The name of the client.
Location: The location of the project.
Date: The date of the project.
Scale: The scale of the project.
Author: The name of the author.
Version: The version of the project.
Keywords: The keywords of the project.
Abstract: A short summary of the project.
Introduction: The introduction of the project.
Methodology: The methodology of the project.
Results: The results of the project.
Conclusion: The conclusion of the project.
References: The references of the project.
Appendices: The appendices of the project.
Index: The index of the project.
Map: The map of the project.

Appendix D

Certificates of Title

Appendix D

South Australia.

(CERTIFICATE OF TITLE.)



Register Book,
Vol. 2099 Folio 148

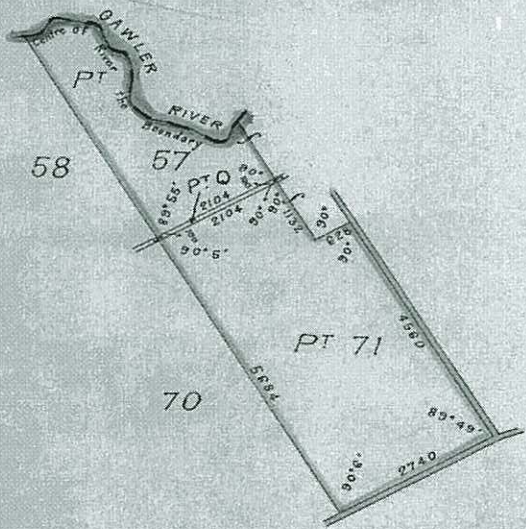
Balance Certificate of Title from Vol. 2005 Folio 76

NACHO EVANOV NACHEF of Marion Road Marion STEFAN NACHEV IVANOV and JORDAN EVANOFF both of Virginia all Market Gardeners are the proprietors of an estate in fee simple AS TENANTS IN COMMON in the shares following that is to say the said Nacho Evanov Nachef IN TWO UNDIVIDED FOURTH PARTS and the said Stefan Nachev Ivanov and Jordan Evanoff EACH IN ONE UNDIVIDED FOURTH PART subject nevertheless to such encumbrances liens and interests as are notified by memorial underwritten or endorsed hereon in THAT PIECE of land being PORTION OF BLOCK G containing two acres and seventeen perches or thereabouts PORTION OF BLOCK 71 containing one hundred and forty eight acres two roods and five perches or thereabouts and PORTION OF BLOCK 57 of the subdivision of Section 49 and other land situated in the HUNDREDS OF PORT ADELAIDE AND PORT GAWLER COUNTIES OF ADELAIDE AND GAWLER laid out as BUCKLAND PARK and more particularly delineated and bounded as appears in the plan in the margin hereof and therein colored green WHICH said Blocks are bounded as appears in the plan deposited in the Lands Titles Registration Office No. 1671 WHICH said Section is delineated in the public maps of the said Hundreds deposited in the Land Office at Adelaide

In witness whereof I have hereunto signed my name and affixed my seal this *first* day of *September* 1950

Signed the *1st* day of *September* 1950, in the presence of *Elb. Huispel*

[Signature]
Registrar-General. 



Mortgage No. 1524345 from Nacho Evanov Nachev Stefan Nachev Ivanov and Jordan Evanoff to Bank of New South Wales Produced for registration the 6 day of January 1948 at noon

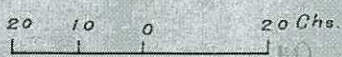
[Signature] Reg. Genl.

Power of Attorney No. 1581850
[Signature] Reg. Genl.

DISCHARGE OF THE WITHIN MORTGAGE
No. 1524345
BY ENDORSEMENT THEREON
PRODUCED FOR REGISTRATION THE *23* DAY OF
March 1954 AT *2.30 pm*
[Signature]
DEP. REG. GENL.

PA No. 1666279
T. 200571 T. 200572

TRANSFER No. 2114671 FROM *Nacho Evanov Wachel Stefan Nachev Ivanov and Jordan Evanoff to the said Stefan Nachev Ivanov and Jordan Evanoff*
OF THE WITHIN *Port Adelaide* as Tenants in Common
PRODUCED *19/3/1954* AT *11.5 am*
[Signature] DEP. REG. GENL.
CANCELLED AS REGARDS ABOVE LAND AND NEW C.T. ISSUED
VOL 2657 FOL 14
[Signature] REG. GENL.



OVER

TRANSFER No. 21146721 FROM *Wachs Erwin*
Wachef Stefan *Wacher Erwin* and
Godan Erwin to the said
Wachs Erwin to the said *Wachef of the balance*
OF THE WITHIN Land AT 115cm.
PRODUCED 19/3/1959
Erwin DEP. REG. GEN.
CANCELED AS REGARDS ABOVE LAND AND NEW C.T. ISSUED
VOL. 2657 FOL. 15
W. Erwin REG. GEN.

South Australia.

(CERTIFICATE OF TITLE)



Register Book,

Vol. 2003 Folio 185

Pursuant to Memorandum of Transfer No.1540275 Registered on Vol.876 Folio 83 and Balance Certificate of Title from Vol.1529 Folio 192

G. & E. A. BROOKS LIMITED whose registered office is situated at Brookman Buildings Grenfell Street Adelaide is the proprietor of an estate in fee simple

subject nevertheless to such encumbrances liens and interests as are notified by memorial underwritten or endorsed hereon in THOSE PIECES of land being the BLOCKS 29.30.31.32.38.39.40.44.58.58A.59.59A.60.60A.61.61A.62.62A.63.63A.64.65.66.67.68.69.70.74.75.76.77.78.Q.R and S PORTIONS OF BLOCK 79 containing together three hundred and thirty seven acres and ten perches or thereabouts PORTION OF BLOCK 80 containing two hundred and seventy five acres two roods and three perches or thereabouts PORTIONS OF BLOCK 82 containing together two hundred and seventy acres three roods and five perches or thereabouts and PORTION OF BLOCK 47 of the subdivision of Section 49 and other land situated in the HUNDREDS OF PORT ADELAIDE AND PORT GAWLER COUNTIES OF ADELAIDE AND GAWLER laid out as BUCKLAND PARK WHICH said portions of Blocks 47.79.80 and 82 are more particularly delineated and bounded as appears in the plan in the margin hereof and therein colored green WHICH said Blocks are bounded as appears in the plan deposited in the Lands Titles Registration Office No.1671

Dep 406 Genl 2/8-40

Except portion of the within land taken for New Road

Which said Sections are delineated in the public maps of the said Hundreds deposited in the Land Office at Adelaide.

In witness whereof I have hereunto signed my name and affixed my seal this seventh day of December 1948

Signed the 7th day of December 1948, in the presence of J. W. Davis

Registrar-General seal and signature

Mortgage No.754702 from George Brooks to The Savings Bank of South Australia of the within land except Blocks Q.R and S Produced for registration the 2 day of July 1920 at 12.30 p.m. (Including other land) Reg.Genl.

Mortgage No.1395256 from G. & E.A.Brooks Limited to The Savings Bank of South Australia of the within land except Blocks Q.R and S Produced for registration the 15 day of September 1945 at 2.30 p.m. (Including other land) Reg.Genl.

Mortgage No.1395257 from G. & E.A.Brooks Limited to Ada Jane Rundle Hilda Elsie Davey May Victoria Smith and Eliza Emma Thomson AS TENANTS IN COMMON of the within land except Blocks Q.R and S Produced for registration the 16 day of September 1945 at 2.30 p.m. (Including other land) Reg.Genl.

The within Mortgage No.1395256 is discharged from the sum of 21500 as appears by Memorandum No.1521295 Produced for registration the 18 day of December 1947 at 11.45 a.m. Reg.Genl.

O V E R

The within Mortgage No. 754702 is discharged from the sum of £1800 as appears by Memorandum No. 1530429 Produced for registration the 10 day of March 1948 at 2.35 p.m.

[Signature]
Reg. Genl.

The within Mortgage No. 1395256 is discharged from the sum of £6300 as appears by Memorandum No. 1530429 Produced for registration the 10 day of March 1948 at 2.35 p.m.

[Signature]
Reg. Genl.

The within Mortgage No. 1395257 is discharged from the sum of £8000 as appears by Memorandum No. 1530430 Produced for registration the 10 day of March 1948 at 2.35 p.m.

[Signature]
Reg. Genl.

154027a

Transfer of 1540276 from G. E. S. A. Brooks Limited to Nachev Ivanov Nachev of two undivided fourth parts and 1/2 Stefan Nachev Ivanov and Jordan Ivanoff each in one undivided fourth part in portion of the within Blk. D. Produced for registration the 18 day of June 1948 at 2.45 p.m.

[Signature]
Dep. Reg. Genl.

CANCELLED AS REGARDS LAND N TRANSFER
No. 1540276 AND NEW CERTIFICATE
OF TITLE ISSUED VOL. 2005 FOLIO 76.
[Signature]
DEP. REG. GENL.

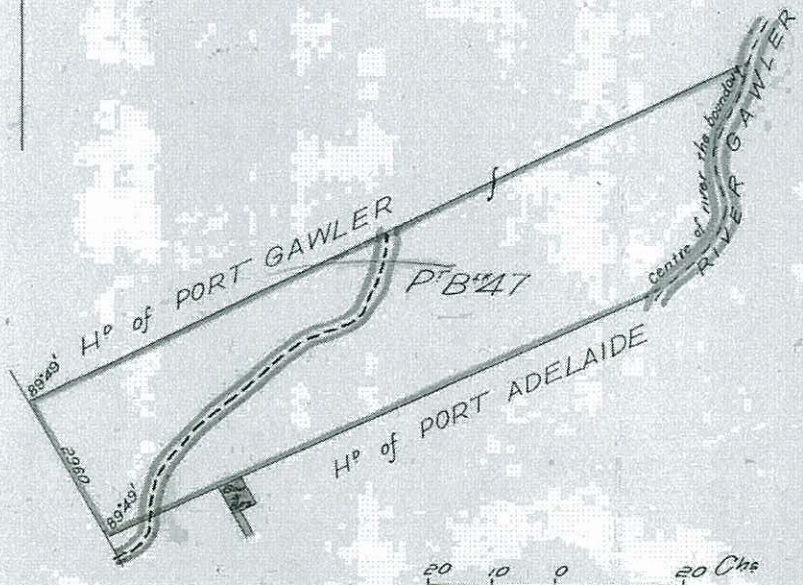
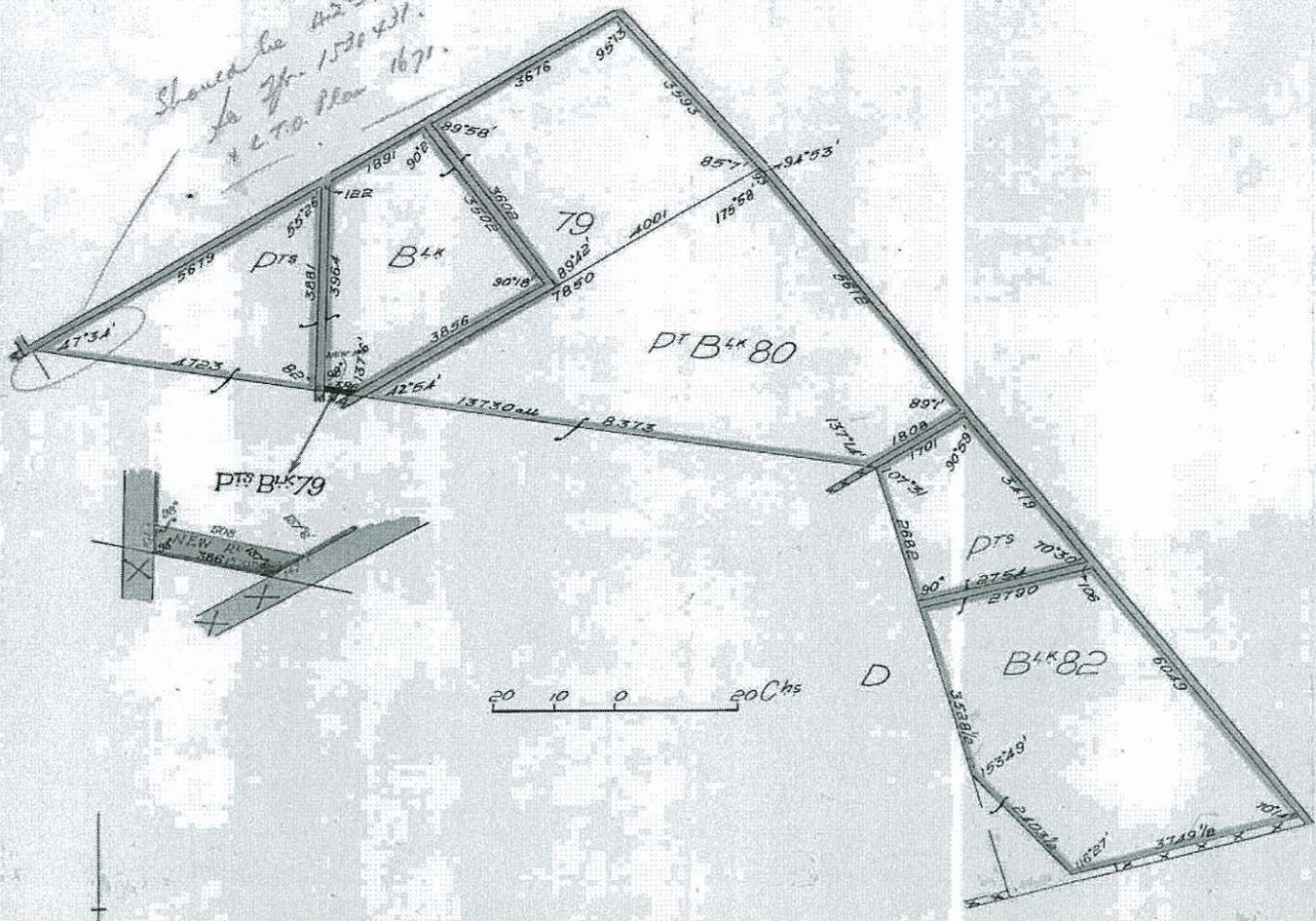
Portion of the within Parto Block 79 has been taken for a New Road Vide confirmation of Road Order in Gazette of 7th April 1949 (Tracing N 3585)

[Signature]
Dep. Reg. Genl.

158301 TA 1574601

CANCELLED
AND Balance
CERTIFICATE OF TITLE ISSUED
VIDE Keter 1705/1949
VOL. 2037 FOL. 117
[Signature]
DEP. REG. GENL.

Shoaled to 42' 34"
 to 37' 15" 431.
 + L.T.O. Plan 1671.



South Australia.

(CERTIFICATE OF TITLE.)



Register Book,

Vol. 2005 Folio 76

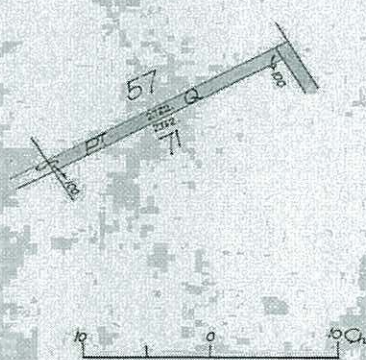
Pursuant to Memoranda of Transfer Nos. 1523295 and 1540276 Registered on Vol. 1529 Folio 192 and Vol. 2003 Folio 185

NACHO EVANOV NACHEF STEFAN NACHEV IVANOV and JORDAN EVANOFF all of Marion Road Marion Market Gardeners are the proprietors of an estate in fee simple AS TENANTS IN COMMON in the shares following that is to say the said Nacho Evanov Nachev in TWO UNDIVIDED FOURTH PARTS and the said Stefan Nachev Ivanov and Jordan Evasnoff EACH IN ONE UNDIVIDED FOURTH PART subject nevertheless to such encumbrances liens and interests as are notified by memorial underwritten or endorsed hereon in THAT PIECE of land being the BLOCKS 57 and 71 and PORTION OF BLOCK Q of the subdivision of Section 49 and other land situated in the HUNDREDS OF PORT ADELAIDE AND PORT GAWLER COUNTIES OF ADELAIDE AND GAWLER laid out as BUCKLAND PARK WHICH said portion of Block Q contains two acres two roods and thirty seven perches or thereabouts and is more particularly delineated and bounded as appears in the plan in the margin hereof and therein colored green WHICH said Blocks are bounded as appears in the plan deposited in the Lands Titles Registration Office No. 1671 WHICH said Sections are delineated in the public maps of the said Hundreds deposited in the Land Office at Adelaide

In witness whereof I have hereunto signed my name and affixed my seal this twentieth day of December 1948

Signed the 20th day of December 1948, in the presence of J. W. Davis

Registrar-General seal and signature



MORTGAGE No. 1524345 FROM Nacho Evanov Nachev, Stefan Nachev Ivanov and Jordan Evanoff to Bank of New South Wales PRODUCED FOR REGISTRATION THE 6 DAY OF January 1948 AT NEWCASTLE

Portion of Blocks 57 and 71 and Block Q THE WITHIN LAND IS DISCHARGED FROM THE WITHIN MORTGAGE NO. 1524345 AS APPEARS BY MEMORANDUM NO. 1630626 PRODUCED FOR REGISTRATION THE 11 DAY OF July 1950 AT Adelaide

TRANSFER No. 1630627 FROM
Nacho Branco Nacho Stefaw Nacho Ivanov
and Jordan Branco to Jholcho Ganoff
PARTION OF
OF THE WITHIN Block 57.71 and R Block 9
PRODUCED FOR REGISTRATION THE 11 DAY OF
July 1950. AT 11.40am
DEP. REG. GENL.

CANCELLED AS REGARDS LAND IN TRANSFER
No. 1630627 AND NEW CERTIFICATE
OF TITLE ISSUED VOL. 2099 FOLIO 147
DEP. REG. GENL.

CANCELLED

AND new
CERTIFICATE OF TITLE ISSUED
VIDE
VOL. 2099 FOL. 148
DEP. REG. GENL.

South Australia.

(CERTIFICATE OF TITLE.)



Register Book,

Vol. 2657 Folio 15

Pursuant to Memorandum of Transfer No.2114672 Registered on Vol.2099 Folio 148

NACHO EVANOV NACHEF of Marion Road Marion Gardener

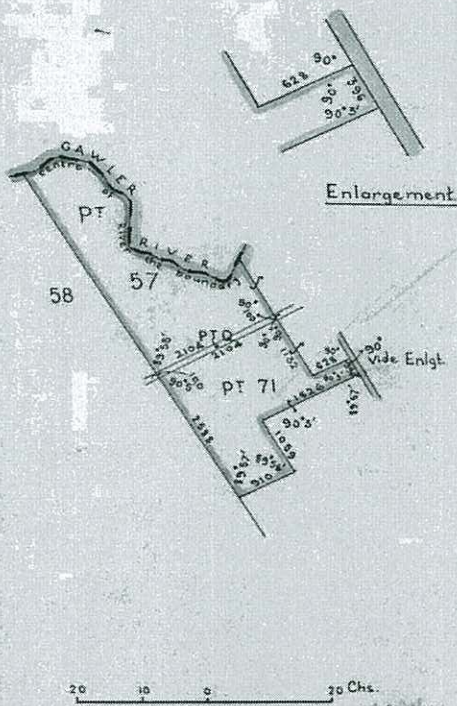
is the proprietor of an estate in fee simple subject nevertheless to such encumbrances liens and interests as are notified by memorial underwritten or endorsed hereon THAT PIECE of land being PORTION OF BLOCK Q containing two acres and seventeen perches or thereabouts PORTION OF BLOCK 71 containing forty four acres one rood and seven perches or thereabouts and PORTION OF BLOCK 57 of the subdivision of Section 49 and other land situated in the HUNDREDS OF PORT ADELAIDE AND PORT GAWLER COUNTIES OF ADELAIDE AND GAWLER laid out as BUCKLAND PARK and more particularly delineated and bounded as appears in the plan in the margin hereof and therein colored green WHICH said Blocks are bounded as appears in the plan deposited in the Lands Titles Registration Office No.1671

Which said Section is delineated in the public maps of the said Hundreds deposited in the Land Office at Adelaide.

In witness whereof I have hereunto signed my name and affixed my seal this *Second* day of *April* 1959

Signed the *2nd* day of *April* 1959, in the presence of *L. N. Stocking.*

[Signature]
Registrar-General.



TRANSFER No. 2114672 FROM
Nacho Evanov Nachef
to *Nicholas Nachef Evanoff* of Marion Road
Marion Gardener in one undivided moiety
OF THE WITHIN LAND. PRODUCED 19/3/1959 AT 11.50am
J. E. Russell DEP. REG. GEN.

TRANSFER No. 2295024
to *Senka Georgeff*
of *Portion*
OF THE WITHIN *pt. block 71*
PRODUCED 19/7/1961 AT 1.45pm.
[Signature] DEP. REG. GEN.
CANCELLED AS REGARDS ABOVE LAND AND NEW C.T. ISSUED
VOL 3050 FOL 43
[Signature] DEP. REG. GEN.

CANCELLED
AND *Balance* CERTIFICATE OF TITLE
ISSUED *Vide* VOL. 3050 FOL. 44
[Signature] DEP. REG. GEN.

From Farmers' Co-operative Executors and Trustees Limited

TRANSFER No. 279805 to Neda Nachef of 14 Everley Road Marion
widow of one undivided eighth part Nicholas Nachef Evans of
14 Everley Road Marion gardeners of two undivided eighth
parts and Senka Georgeff of 163 Turtles Hill Road Fulham
Married Woman of one undivided eighth part in
OF THE WITHIN LAND. PRODUCED 11.2.1967 AT 3.5 pm

H. J. Johnson DEP. REG. GEN.

of one undivided eighth part

APPLICATION No. 669055 IN THE WITHIN land
IS TRANSMITTED TO Nicholas Nachef Evans of 11 Everley
Road Marion 5043 Taxi Operator and Senka Georgeff of
10 Thelma Avenue Fulham Gardens 5024 Married Woman
AS THE ADMINISTRATORS OF Neda Nachef
WHO DIED 21.2.1958 INTESTATE VIDE LETTERS OF
ADMINISTRATION DATED 12.8.1958
PRODUCED 24.2.1959 AT 11.20



CANCELLED
CONVERTED TO A COMPUTERISED TITLE



South Australia.

(CERTIFICATE OF TITLE.)



Register Book,
Vol. 2099 Folio 147

Pursuant to Memorandum of Transfer No. 1630627 Registered on Vol. 2005 Folio 76

THOTOHO GANEFF of Virginia Market Gardener

is the proprietor of an estate in fee simple
subject nevertheless to such encumbrances liens and interests as are notified by memorial underwritten or endorsed hereon in
THAT PIECE of land being PORTION OF BLOCK Q containing two roods and twenty perches or thereabouts
PORTION OF BLOCK 71 containing seven acres and seventeen perches or thereabouts and PORTION OF BLOCK 57
of the subdivision of Section 49 and other land situated in the HUNDREDS OF PORT ADELAIDE and PORT
GAWLER COUNTIES OF ADELAIDE AND GAWLER laid out as BUCKLAND PARK and more particularly delineated
and bounded as appears in the plan in the margin hereof and therein colored green WHICH said Blocks
are bounded as appears in the plan deposited in the Lands Titles Registration Office No. 1671

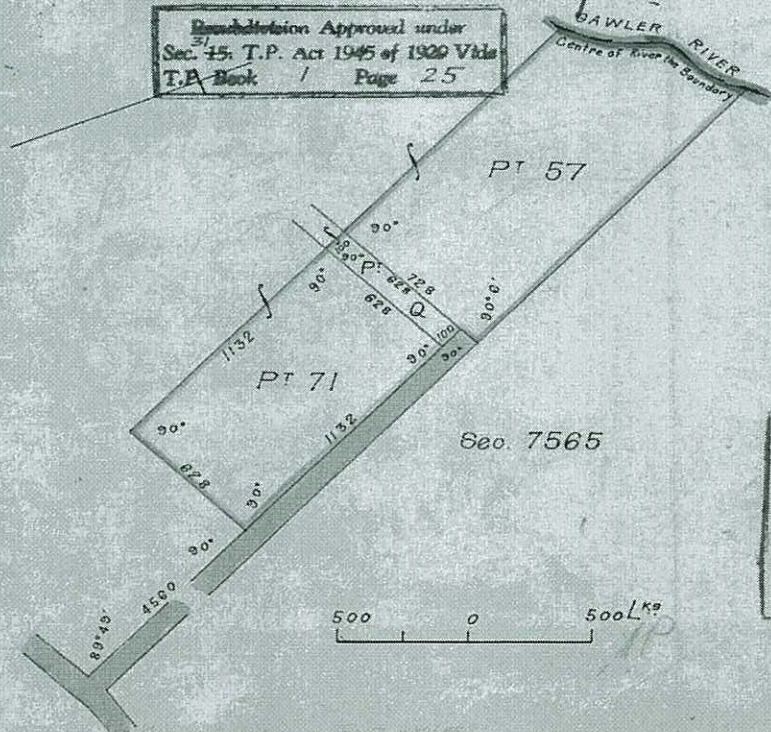
Which said Section is delineated in the public maps of the said Hundreds deposited in the Land
Office at Adelaide.

In witness whereof I have hereunto signed my name and affixed my seal this *first* day of *September* 1950

Signed the *1st* day of *September*
1950, in the presence of *Albert Kinspel*

[Signature]
Registrar-General.


Subdivision Approved under
Sec. 15, T.P. Act 1945 of 1920 Vide
T.A. Book 1 Page 25



MORTGAGE No. 1630628
Shotcho Ganeff to
Augustus Filsell
PRODUCED FOR REGISTRATION THE *11* DAY OF
July 1950 AT *11:40 am*
[Signature]
DEP. REG. GENL.

DISCHARGE OF THE WITHIN MORTGAGE
No. *1630628*
BY ENDORSEMENT THEREON
PRODUCED FOR REGISTRATION THE *17* DAY OF
March 1953 AT *11:55 am*
[Signature]
DEP. REG. GENL.

MORTGAGE No. 1770983 FROM
Jholcho Ganoff
TO THE NATIONAL BANK OF AUSTRALASIA LIMITED
PRODUCED FOR REGISTRATION THE 17 DAY OF
March 1953 AT 11.25am
J. E. Crosswell DEP. REG. GENL.

Part Block 711
THE WITHIN LAND IS DISCHARGED FROM MORTGAGE
No. 1770983 VIDE No. 2049657 PRODUCED 19/3/1958 AT 11.00am
Bennett DEP. REG. GEN.

P/A No. 1841015A *103* *DRG*

TRANSFER No. 2049657 FROM *Jholcho Ganoff*
to *Stefan Georgeff Boitcheff*
Part Block 711
OF THE WITHIN *Part Block 711*
PRODUCED 19/3/1958 AT 11.10am
Bennett DEP. REG. GEN.
CANCELLED AS REGARDS ABOVE LAND AND NEW C.T. ISSUED
VOL. 2577 FOL. 160
Wheeler DEP. REG. GEN.

CANCELLED
AND *Balance*
ISSUED VIDE *Wheeler* DEP. REG. GEN.
CERTIFICATE OF TITLE
VOL. 2577 FOL. 161.

South Australia.

(CERTIFICATE OF TITLE.)



Register Book,

Vol. 2577 Folio 161

Balance Certificate of Title from Vol.2099 Folio 447

THOTCHO GANEFF of Virginia Market Gardener

is the proprietor of an estate in fee simple subject nevertheless to such encumbrances liens and interests as are notified by memorial underwritten or endorsed hereon in THAT PIECE of land being PORTION OF BLOCK Q containing two roods and twenty perches or thereabouts PORTION OF BLOCK 71 containing three acres one rood and thirty nine perches or thereabouts and PORTION OF BLOCK 57 of the subdivision of Section 49 and other land situated in the HUNDREDS OF PORT ADELAIDE AND PORT GAWLER COUNTIES OF ADELAIDE AND GAWLER laid out as BUCKLAND PARK and more particularly delineated and bounded as appears in the plan in the margin hereof and therein colored green WHICH said Blocks are bounded as appears in the plan deposited in the Lands Titles Registration Office No.1671

Which said Section is delineated in the public maps of the said Hundreds deposited in the Land Office at Adelaide.

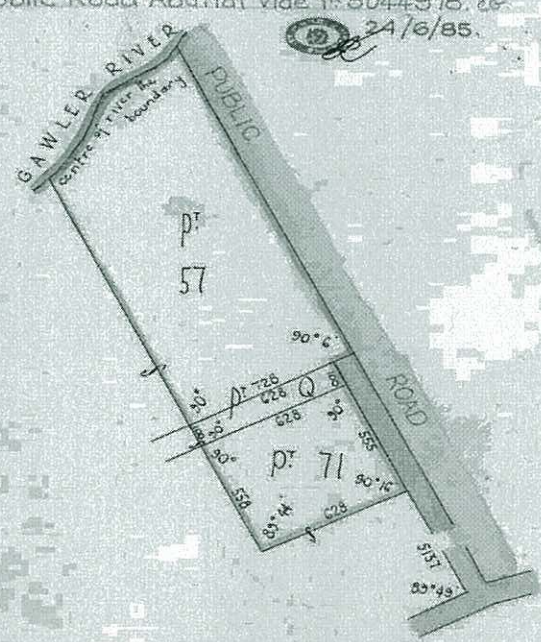
In witness whereof I have hereunto signed my name and affixed my seal this third day of April 1958

Signed the 3rd day of April 1958, in the presence of P. Koehne

Registrar-General. [Signature] REGISTRAR-GENERAL SOUTH AUSTRALIA

The within land abuts a road which has been proclaimed a Controlled-Access Road. Access to this road is permitted only at such places as are approved for that purpose by the Commissioner of Highways. PLAN 59

Public Road Abuttal Vide TR.5044978, et 24/6/85.



500 0 500 Lks

Mortgage No.1770983 from Thotcho Ganeff to The National Bank of Australasia Limited Produced for registration the 17 day of March 1953 at 10.25 a.m.

Power of Attorney No.1841015A Reg.Genl.

DISCHARGE OF MORTGAGE No. 1770983 BY ENDORSEMENT THEREON. PRODUCED 6/12/1961 AT 11.25am. LKD Anderson DEP. REG. GEN.

MORTGAGE No. 232 2335 TO THE ENGLISH SCOTTISH AND AUSTRALIAN BANK LIMITED PRODUCED 6/12/1961 AT 11.25am. LKD Anderson DEP. REG. GEN.

THE WITHIN LAND IS DISCHARGED FROM MORTGAGE No. 232 2335 BY ENDORSEMENT THEREON PRODUCED 24.12.65 AT 10.45am. J. HUGHES DEP. REG. GEN.

M2989032

MORTGAGE No. 2989032
TO COMMONWEALTH TRADING BANK OF AUSTRALIA
PRODUCED 26.3.1969 AT 10:35 am

L. J. Booth Acting DEP. REG. GEN.

~~22999032 / 3381682 / 3381683~~
~~17281684~~

P/A No. 217747 *August 1972* DRG

THE WITHIN LAND IS DISCHARGED FROM MORTGAGE
No. 2989032 BY ENDORSEMENT THEREON
PRODUCED 9.11.1972 AT 11:50 am

August 1972 DEP. REG. GEN.

APPLICATION No. 3381682 THE WITHIN LAND
IS TRANSMITTED TO *Maria Thatchera Ganett of Port Wakefield*
Road Virginia Widow and James Corry Mellar of 73
Pine Street Adelaide Solicitor
AS THE EXECUTORS NAMED IN THE WILL DATED 5.12.1968
OF *Thatchera Ganett* WHO DIED 3.9.1970
VIDE PROBATE DATED 3.2.1971 PRODUCED 9.11.1972 AT 11:50 am

August 1972 DEP. REG. GEN.

TRANSFER No. 3381683 To *Trevor John Morgan of Box*
52 Cockatoo Valley 5351 and Michael Robert
Charles Tidswell of 68 Rosalie Terrace Paraheld
Gardens 5107 both Aiters and turners
as tenants in common
OF THE WITHIN LAND PRODUCED 9.11.1972 AT 11:50 AM

August 1972 DEP. REG. GEN.

MORTGAGE No. 3381684

TO THE NATIONAL BANK OF AUSTRALASIA LIMITED
PRODUCED 9.11.1972 AT 11:50 am

August 1972 DEP. REG. GEN.

~~6036723 / 6036734 / 6036725~~
p/n 5360509

THE WITHIN LAND IS DISCHARGED FROM MORTGAGE
No. 3381684 VIDE 6036733
PRODUCED 20.6.1985 AT 11:25



TRANSFER No. 6036734 To
the within named *Trevor John Morgan* care of
Post Office Box 218 Virginia 5120 Primary Producer
and to *Catherine Mary Morgan* his wife
OF THE WITHIN LAND. PRODUCED 20.6.1985 at 11:25



MORTGAGE No. 6036725 TO
NATIONAL AUSTRALIA BANK LIMITED
PRODUCED 20.6.1985 at 11:25



CANCELLED
CONVERTED TO A CANCELLED TITLE



South Australia

(CERTIFICATE OF TITLE)



Register Book, Vol. 3357 Folio 43

Pursuant to Memorandum of Transfer No. 2636971 Registered on Vol. 1538 Folio 104 and Vol. 3263 Folio 133

GUISEPPE TRIMBOLI of Box 21 Virginia Market Gardener and DOMENICA TRIMBOLI his wife

are the proprietors of an estate in fee simple

subject nevertheless to such encumbrances liens and interests as are notified by memorial underwritten or endorsed hereon in THAT PIECE of land situated in the HUNDRED OF PORT ADELAIDE COUNTY OF ADELAIDE being the SECTION 7560 containing seventy five acres one rood and twenty perches or therabouts and PORTION OF SECTION 7556 containing twelve acres two roods and thirty five perches or thereabouts and more particularly delineated and bounded as appears in the plan in the margin hereof and therein colored green

Which said Sections are delineated in the public map of the said Hundred deposited in the Land Office at Adelaide.

In witness whereof I have hereunto signed my name and affixed my seal this 7th day of October 1965

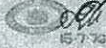
Signed the 7th day of October 1965, in the presence of J.W. Tunney

Handwritten signature of Registrar-General

Registrar-General



LEGOE & SUPPLE RPS vide DM 3604/65



Dep. Reg. Gen.



M. 2636972

MORTGAGE No. 2636972 To Donald Cornelius McKay, Esie Campbell, Reginald Frank Rogers and Leslie Herbert Hamillie Shepley PRODUCED 16.6.1965 AT 2.50 pm J. Hughes. DEP. REG. GEN.

D 2636972 30/7/66

DISCHARGE OF MORTGAGE No. 2636972 BY ENDORSEMENT THEREON. PRODUCED 20.7.1966 AT 11am B. Gordon. DEP. REG. GEN.

212997963

MORTGAGE No. 2997963 TO
Margaret Philomena Gaughwin and
Beryl Irene Stacey *Co-tenants in common*
PRODUCED 24.4.1969 AT 1.45 PM.
D. J. Randall pro DEP. REG. GEN.

1/16

MORTGAGE No. 7026521 TO
THE MINISTER OF AGRICULTURE
PRODUCED 10.12.1990 AT 11:10

THE WITHIN LAND IS DISCHARGED FROM MORTGAGE
No. 3947809 VIDE 7849777
PRODUCED 23.12.1994 AT 9:30

CANCELLED
CONVERTED TO A COMPUTERISED TITLE

DISCHARGE OF MORTGAGE No. 2997963 BY
ENDORSEMENT THEREON PRODUCED 10.7.1989 AT 11:35
August DEP. REG. GEN.

29/1/82

TRANSFER No. 3914822 TO
Domenico Nicola Trimboli of Virginia 5120
Market Gardener
OF THE WITHIN LAND. PRODUCED 12.7.1976 at 12:30 pm.

143947809

MORTGAGE No. 3947809
TO COMMONWEALTH SAVINGS BANK
OF AUSTRALIA
PRODUCED 23.9.1976 AT 2.40 pm

~~6014114 6014115 6014116~~

MORTGAGE No. 6014114 TO
COMMONWEALTH TRADING BANK OF
AUSTRALIA
PRODUCED 9.5.1985 AT 11:10

MORTGAGE No. 6014115 TO
COMMONWEALTH TRADING BANK OF
AUSTRALIA
PRODUCED 9.5.1985 AT 11:10

MORTGAGE No. 6014116 TO
COMMONWEALTH DEVELOPMENT BANK
OF AUSTRALIA
PRODUCED 9.5.1985 AT 11:10

~~DM 6056624~~ *in 6056626*

PA-6037310

THE WITHIN LAND IS DISCHARGED FROM MORTGAGE
No. 6014114 VIDE 6056626
PRODUCED AT 10:50
26.7.1985

MORTGAGE No. 6056626 TO
COMMONWEALTH BANK OF AUSTRALIA
PRODUCED 26.7.1985 at 10:50

South Australia

(CERTIFICATE OF TITLE)



Register Book,

Vol. 3357 Folio 46

Pursuant to Memorandum of Transfer No. 2645783 Registered on Vol. 3263 Folio 133

GUISEPPE TRIMBOLI of Box 21 Virginia Market Gardener and DOMENICA TRIMBOLI his wife

are the proprietors of an estate in fee simple subject nevertheless to such encumbrances liens and interests as are notified by memorial underwritten or endorsed hereon in THAT piece of land situate in the HUNDRED of PORT ADELAIDE COUNTY of ADELAIDE being PORTION OF SECTION 7556 containing eighty nine acres or thereabouts and more particularly delineated and bounded as appears in the plan in the margin hereof and therein colored green

Which said Section is delineated in the public map of the said Hundred deposited in the Land Office at Adelaide.

In witness whereof I have hereunto signed my name and affixed my seal this 7th day of October 1965

Signed the 7th day of October 1965, in the presence of

J.W. Lunny

R. Collins

Registrar-General



M. 7045784

MORTGAGE No. 2645794 To

Frank Agostino

PRODUCED 16.7.1965 AT 2.55 pm

J. Hughes

DEP. REG. GEN.

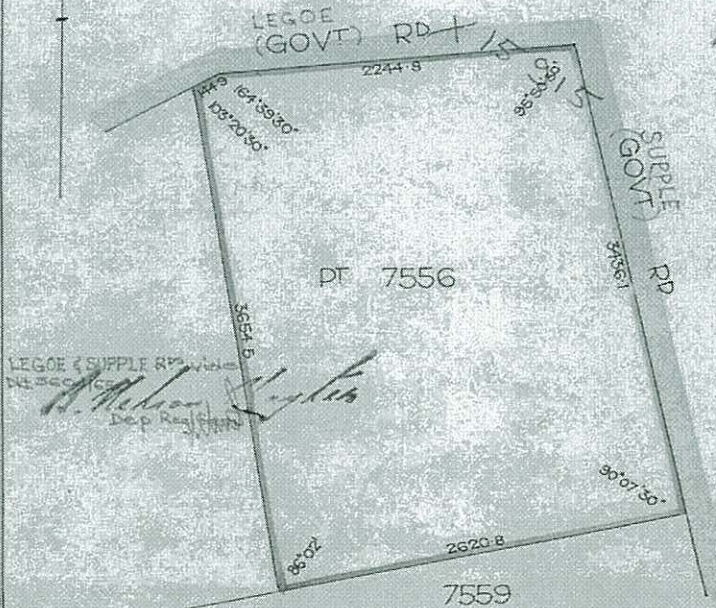
REGISTRAR-GENERAL'S CAVEAT No. 35-29909

Portion of
OVER THE WITHIN LAND
ENTERED 17.10.1973 AT 10 am

J. Hughes

Dep. Reg. Genl.

3 New CIST ISSUED W/DG Dkt 4726/73



CANCELLED

AND 2 New & Balance CERTIFICATE OF TITLE
ISSUED VIDE ^{270.DH} 4726/73 VOL. 4009 FOL. 293-295 incl
J. H. [unclear] DEP. REG. GEN.

Vide Survey X15915

South Australia

(CERTIFICATE OF TITLE)



Register Book,
Vol. 3567 Folio 57

Balance Certificate of Title from Vol. 3489 Folio 165

PATRICK JAMES SHEEDY and BRIAN JOSEPH SHEEDY both of Virginia 5120 Farmers

are the proprietors of an estate in fee simple AS TENANTS IN COMMON subject nevertheless to such encumbrances liens and interests as are notified by memorial underwritten or endorsed hereon in THAT SECTION of land containing sixty three acres or thereabouts situated in the HUNDRED OF PORT ADELAIDE COUNTY OF ADELAIDE NOD.169 and bounded as appears in the plan in the margin hereof

Which said Section is delineated in the public map of the said Hundred deposited in the Land Office at Adelaide.

In witness whereof I have hereunto signed my name and affixed my seal this 1st day of July 1968

Signed the 1st day of July 1968, in the presence of *R. Muller*

R. Collins

Registrar-General



J 4197127 M 4197128

TRANSFER No. 4197127 To
Domenic Nicola Trimboli of Legoe Road
Virginia 5120 Market Gardener and
Maria Trimboli his wife
OF THE WITHIN LAND. PRODUCED 9.5.1978 at
11am.

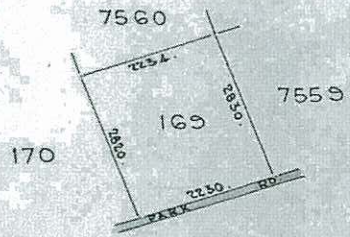
MORTGAGE No. 4197128 TO Patrick James Sheedy
and Brian Joseph Sheedy As Tenants in
Common
PRODUCED 9.5.1978 AT 11am.
INCLUDING OTHER LAND

344247803

DISCHARGE OF MORTGAGE No. 4197128
VIDE No. 4247803 PRODUCED 16-8-1978 AT
10-45 am

A 4963218

MORTGAGE No. 4963218 TO
THE MINISTER OF AGRICULTURE
PRODUCED 16.11.1982 AT 1pm



OVER

DISCHARGE OF MORTGAGE 4768218
VIDE 7026522 PRODUCED 10-12-1990 AT 11:10



THE WITHIN NAME DOMENIC NICOLA
TRIMBOLI IS ALTERED TO
DOMENICO NICOLA TRIMBOLI

VIDE APPLICATION No. 7026523
PRODUCED 10-12-1990 AT 11:10



MORTGAGE No. 7026524 TO
THE MINISTER OF AGRICULTURE
PRODUCED 10-12-1990 AT 11:10



CANCELLED
CONVERTED TO A COMPUTERISED TITLE



South Australia (CERTIFICATE OF TITLE)



Register Book,
Vol. 3485 Folio 41

Pursuant to Memorandum of Transfer No. 2809742 Registered on Vol. 114 Folio 204

D. & P. MUSOLINO PTY. LTD. of 270 Wright Street Adelaide

is the proprietor of an estate in fee simple
subject nevertheless to such encumbrances liens and interests as are notified by memorial underwritten or endorsed hereon in
THAT piece of land situate in the HUNDRED of PORT ADELAIDE COUNTY of ADELAIDE
being PORTION OF SECTION 7559 containing forty acres or thereabouts and more particularly delineated
and bounded as appears in the plan in the margin hereof and therein colored green

Which said Section is delineated in the public map of the said Hundred deposited in the Land Office at Adelaide.

In witness whereof I have hereunto signed my name and affixed my seal this 27th day of April 1967

Signed the 28th day of April
1967, in the presence of *N. Spear*

R. Collins

Registrar-General



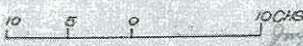
Resubdivision approved
under the Planning and
Development Act 1966-67
Vide Dkt. 93 of 1968

M 2809743

MORTGAGE No. 2809743 to
Patrick James Shedy and Brian Joseph Shedy as tenants in common
PRODUCED 3.4.1967 AT 3.20 p.m.
Balance of DEP. REG. GEN.

of THE WITHIN LAND ("C") IN DOCKET No.
4 93 OF 1968 has BEEN VESTED FOR ROAD
IN THE D.C. of Munno Para VIDE SEC. 48
OF THE PLANNING AND DEVELOPMENT ACT 1966-1967.

H. Nelson Hayler DEP. REG. GENL.



~~402914340 72014381 42924552~~

ORR

Portion of

THE WITHIN LAND IS DISCHARGED FROM MORTGAGE
No. 2809743 VIDE No. 2924381 PRODUCED 26.6.19 68 AT 2.30 p.m.
g. B. Steer DEP. REG. GEN.

TRANSFER No. 2924381 to Paolo
by Tomaso Musolino and
Yeresa Card Musolino of part
OF THE WITHIN LAND PRODUCED 26.6.19 68 AT 2.30 p.m.
g. B. Steer DEP. REG. GEN.
CANCELLED AS REGARDS ABOVE LAND AND NEW C.T. ISSUED
VOL. 3570 FOL. 13
H. Nelson Hayter DEP. REG. GEN.

3- ~~to~~ regards portions of the within land
AND New CANCELLED CERTIFICATE OF TITLE
ISSUED ~~1968~~ VOL. 3570 FOL. 14
H. Nelson Hayter DEP. REG. GEN.

South Australia

(CERTIFICATE OF TITLE)



Register Book, Vol. 3570 Folio 14

New Certificate of Title for portion of the Land in Vol.3485 Folio 41

D. & P. MUSOLINO PTY. LTD. of 270 Wright Street Adelaide 5000

is the proprietor of an estate in fee simple subject nevertheless to such encumbrances liens and interests as are notified by memorial underwritten or endorsed hereon in THAT PIECE of land containing thirty nine acres and two roods or thereabouts situated in the HUNDRED OF PORT ADELAIDE COUNTY OF ADELAIDE being PORTION OF SECTION 7559 more particularly delineated and bounded as appears in the plan in the margin hereof and therein colored green

Which said Section is delineated in the public map of the said Hundred deposited in the Land Office at Adelaide.

In witness whereof I have hereunto signed my name and affixed my seal this 15th day of July 1968

Signed the 15th day of July 1968, in the presence of P. Almon

Signature of Registrar-General

Registrar-General



PARK SUPPLE REG vide DX 360425 R. Mahon Douglas Dep. Reg. Gen.

Mortgage No. 2809743 to Patrick James Sheedy and Brian Joseph Sheedy AS TENANTS IN COMMON Produced 3.4.1967 at 3.20 p.m.

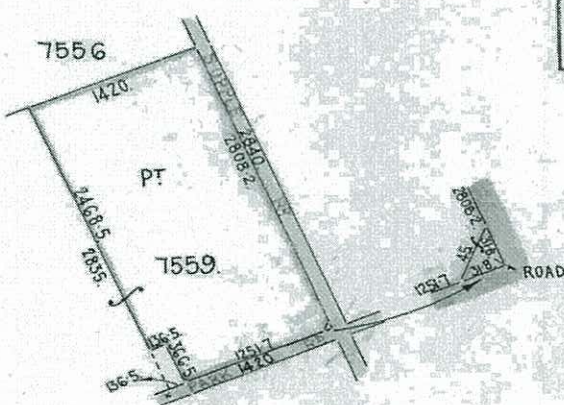
Signature of Registrar-General

Reg. Genl.

DISCHARGE OF MORTGAGE No. 2809743 BY ENDORSEMENT THEREON. PRODUCED 1.8.1973 AT 11.20am

REGISTRAR-GENERAL'S CAVEAT No. 3519038 OVER THE WITHIN LAND ENTERED 20.9.1973 AT 2.30pm R. Gordon Dep. Reg. Genl.

Caveat No. 3519038 withdrawn this 14th day June 1974 H. G. G. Dep. Reg. Genl.



10 5 0 p Chns.

ACQUISITION No. 3606796
WHEREBY portion of.

THE WITHIN LAND IS VESTED IN
Commissioner of Highways
PRODUCED 17.4: 1974 at. 2.20 PM.
Logbock
DEP. REG. GEN.

CANCELLED AS REGARDS LAND IN
ACQUISITION NO. 3606796 AND NEW
CERTIFICATE OF TITLE ISSUED VOL. 4018
FOLIO 853 R London
DEP. REG. GEN.
Sub. C.T. det. front.

RG
9-10-1980 RE 4541405

CANCELLED
AND Balance CERTIFICATE OF TITLE
ISSUED VIDE 4541405 VOL 4168 FOL 566



South Australia

(CERTIFICATE OF TITLE)



Register Book, Vol. 3570 Folio 13

Pursuant to Memorandum of Transfer No. 2924381 Registered on Vol. 3485 Folio 41

PAOLO TOMASO MUSOLINO of Parks Road Virginia 5120 Market Gardener and TERESA MUSOLINO his wife

are the proprietors of an estate in fee simple subject nevertheless to such encumbrances liens and interests as are notified by memorial underwritten or endorsed hereon in THAT piece of land situate in the HUNDRED OF PORT ADELAIDE COUNTY of ADELAIDE being PORTION OF SECTION 7559 more particularly delineated and bounded as appears in the plan in the margin hereof and therein coloured green

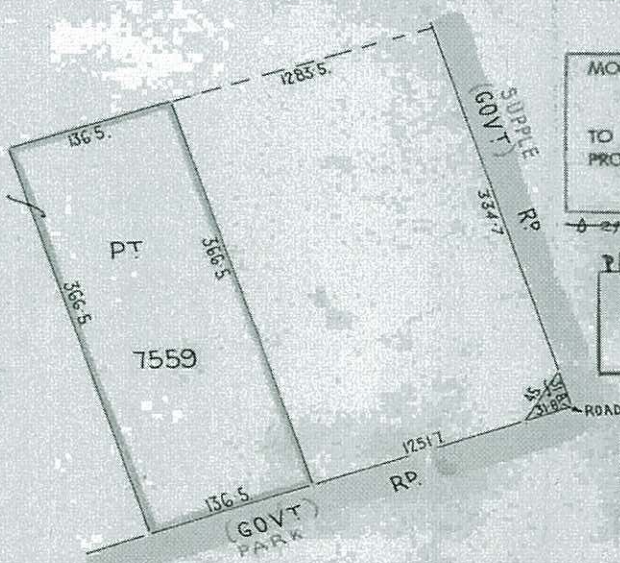
Which said Section is delineated in the public map of the said Hundred deposited in the Land Office at Adelaide.

In witness whereof I have hereunto signed my name and affixed my seal this 15th day of July 1968

Signed the 15th day of July 1968, in the presence of PABUL SUPPLE R... DKT 2204/65 H. McKeon Dep. Reg. Gen.

R. Collins

Registrar-General M. 2924382



Scale: 100 50 0 100 Lks.

MORTGAGE No. 2924382 TO AUSTRALIA AND NEW ZEALAND BANK LIMITED. PRODUCED 26.6.1968 AT 2.30pm K. Condon DEP. REG. GEN.

PLA 31354634 & 3142538 WITHIN LAND IS DISCHARGED FROM MORTGAGE No. 2924382 BY ENDORSEMENT THEREON PRODUCED 24/9/1974 AT 11.40am. B. McKeon DEP. REG. GEN.

MORTGAGE No. 5311987 TO Esanda Limited PRODUCED 3.10.1987 at 11.50am.

MORTGAGE No. 5342115 TO AUSTRALIA AND NEW ZEALAND BANKING GROUP LIMITED PRODUCED 23.11.1984 AT 11am.

DM 620605

P/A 4542461

THE WITHIN LAND IS DISCHARGED FROM MORTGAGE
No. 5311987 VIDE 620605
PRODUCED 27.6.1986 AT 11:05



DM 6265131

P/A 4523763

THE WITHIN LAND IS DISCHARGED FROM MORTGAGE
No. 5342115 VIDE 6265131
PRODUCED 23.10.1984 AT 10:00



TRANSFER No. 6554135 TO
Malcolm Lewis Nominees Pty. Ltd. and
Hartley Lewis Nominees Pty. Ltd. both of
111 Ledger Road Beverley 5009
OF THE WITHIN LAND, PRODUCED 24.6.1988 AT 14:10
as Tenants In Common



MORTGAGE No. 6591474 TO
NATIONAL AUSTRALIA BANK LIMITED
PRODUCED 26.8.1988 at 12:20
INCLUDING OTHER LAND



MORTGAGE No. 7488675 TO
NATIONAL AUSTRALIA BANK LIMITED
PRODUCED 23.4.1993 AT 10:45



CANCELLED AS REGARDS
~~PORTION BALANCE OF~~
THE WITHIN LAND AND
NEW COMPUTERISED TITLE(S) ISSUED



South Australia

(CERTIFICATE OF TITLE)



Register Book,

Vol. 2741 Folio 118

Pursuant to Memorandum of Transfer No.2183956 Registered on Vol.2657 Folio 14

JORDAN EVANOFF of Virginia Market Gardener

is the proprietor of an estate in fee simple subject nevertheless to such encumbrances liens and interests as are notified by memorial underwritten or endorsed hereon in THAT PIECE of land being PORTION OF BLOCK 71 containing forty two acres and nineteen perches or thereabouts of the subdivision of Section 49 and other land situated in the HUNDREDS OF PORT ADELAIDE and PORT GAWLER COUNTIES OF ADELAIDE and GAWLER laid out as BUCKLAND PARK and more particularly delineated and bounded as appears in the plan in the margin hereof and therein colored green WHICH said Block is bounded as appears in the plan deposited in the Lands Titles Registration Office No.1671

Which said Section is delineated in the public map of the said Hundred deposited in the Land Office at Adelaide.

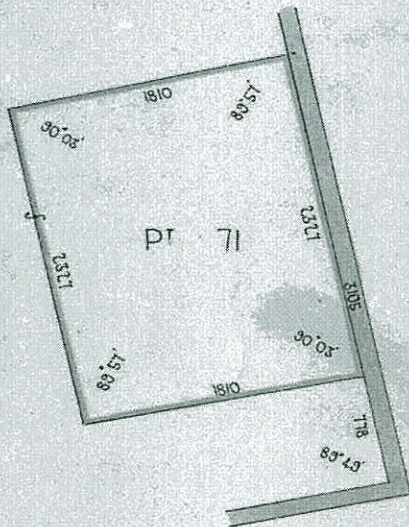
In witness whereof I have hereunto signed my name and affixed my seal this twenty-second day of March 19 60

Signed the 22 day of March 19 60, in the presence of J. Hildyard

Registrar-General.



Resubdivision approved under the Planning and Development Act 1966-67 Vide Dkt. 1153 of 1971



TRANSFER No. 3765158 to Hristo Nicolau Kanev and Betty Kanev of portion OF THE WITHIN Land PRODUCED 9.7.1975 AT 3 pm CANCELLED AS REGARDS ABOVE LAND AND NEW C.T. ISSUED VOL 4047 FOL 265

CANCELLED AND Balance CERTIFICATE OF TITLE ISSUED VIDE VOL 4047 FOL 265



South Australia

(CERTIFICATE OF TITLE)



Register Book,

Vol. 2741 Folio 119

Pursuant to Memorandum of Transfer No. 2183957 Registered on Vol. 2657 Folio 14

STEPAN NACHEF IVANOV of Virginia Market Gardener

is the proprietor of an estate in fee simple

subject nevertheless to such encumbrances liens and interests as are notified by memorial underwritten or endorsed hereon in THAT PIECE of land being PORTION OF BLOCK 71 containing sixty two acres and nineteen perches or thereabouts of the subdivision of Section 49 and other land situated in the HUNDREDS OF PORT ADELAIDE AND PORT GAWLER COUNTIES OF ADELAIDE AND GAWLER laid out as BUCKLAND PARK and more particularly delineated and bounded as appears in the plan in the margin hereof and therein colored green WHICH said Block is bounded as appears in the plan deposited in the Lands Titles Registration Office No. 1671

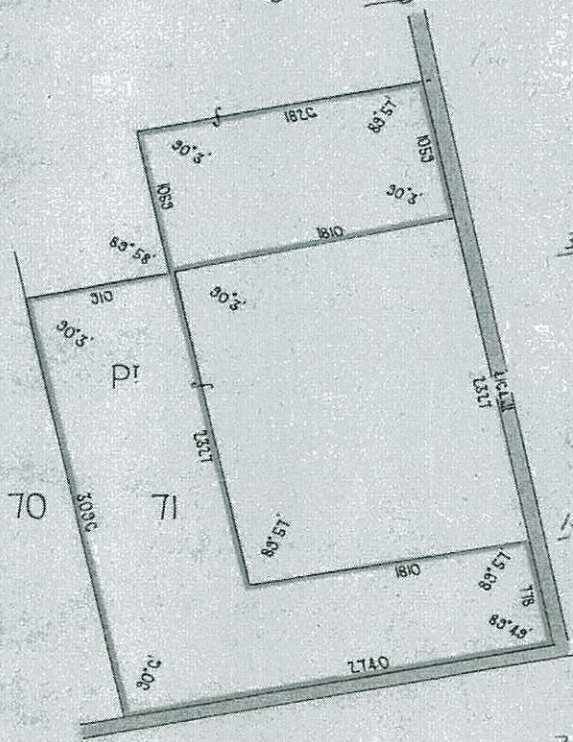
Which said Section is delineated in the public map of the said Hundred deposited in the Land Office at Adelaide.

In witness whereof I have hereunto signed my name and affixed my seal this twenty second day of March 1960

Signed the 22 day of March 1960, in the presence of J. Hildyard

[Signature]
Registrar-General.

Resubdivision approved under the Planning and Development Act 1966-67 Vide Dkt. 1185 of 1968



BALANCE
Portion of THE WITHIN LAND 'D' IN DOCKET No. 1185 OF 1968 HAS BEEN VESTED FOR ROAD IN THE DISTRICT COUNCIL OF MUNNO PARA VIDE SEC. 48 OF THE PLANNING AND DEVELOPMENT ACT 1966-1967.

[Signature] DEP. REG. GENL

TRANSFER No. 2997959 to Frieto Nikolov Kanar and Belts Kanar of portion PRODUCED 24/1/66 1.45 pr Adms DEP. REG. GEN. CANCELLED AS REGARDS ABOVE LAND AND NEW C.T. ISSUED VOL 3630 FOL 191 *[Signature]* DEP. REG. GEN.

as regards portion of the within land AND New CANCELLED CERTIFICATE OF TITLE ISSUED VIDE VOL 3630 FOL 192. *[Signature]* DEP. REG. GEN.

South Australia.

(CERTIFICATE OF TITLE.)



Register Book,

Vol. 2657 Folio 14

Pursuant to Memorandum of Transfer No.2114671 Registered on Vol.2099 Folio 148

STEFAN NACHEF IVANOV and JORDAN EVANOFF both of Virginia Market Gardeners

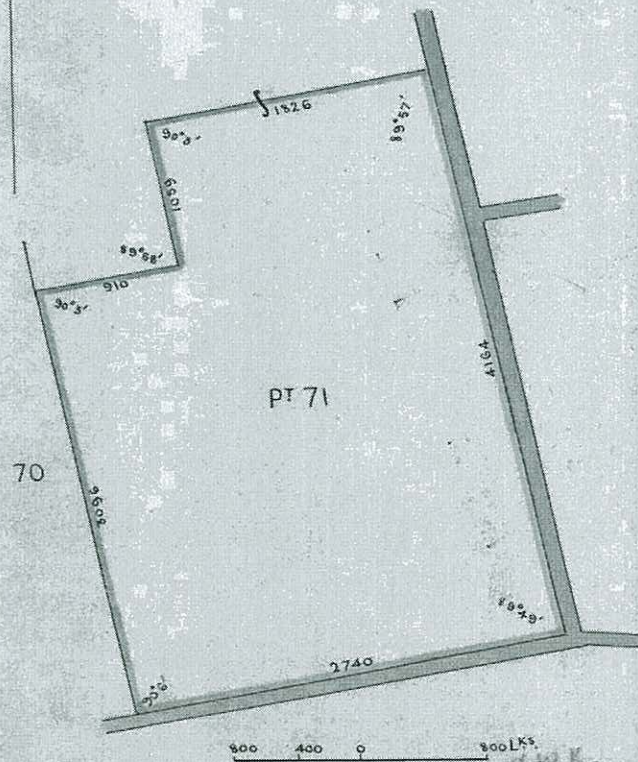
are the proprietors of an estate in fee simple AS TENANTS IN COMMON subject nevertheless to such encumbrances liens and interests as are notified by memorial underwritten or endorsed hereon in THAT PIECE of land being PORTION OF BLOCK 71 containing one hundred and four acres and thirty eight perches or thereabouts of the subdivision of Section 49 and other land situated in the HUNDREDS OF PORT ADELAIDE AND PORT GAWLER COUNTIES OF ADELAIDE AND GAWLER laid out as BUCKLAND PARK and more particularly delineated and bounded as appears in the plan in the margin hereof and therein colored green WHICH said Block is bounded as appears in the plan deposited in the Lands Titles Registration Office No.1671

Which said Section is delineated in the public maps of the said Hundreds deposited in the Land Office at Adelaide.

In witness whereof I have hereunto signed my name and affixed my seal this Second day of April 1959

Signed the 2nd day of April 1959, in the presence of H. C. Hocking.

Registrar-General seal and signature



TRANSFER No. 2183956 FROM Stefan Nachef Ivanov and Jordan Evanoff to the said Jordan Evanoff of portion OF THE WITHIN land of portion PRODUCED 22/2/1960 AT 12.30 pm Ed. Nairn DEP. REG. GEN. CANCELLED AS REGARDS ABOVE LAND AND NEW C.T. ISSUED VOL. 2741 FOL. 118

TRANSFER No. 2183957 FROM Stefan Nachef Ivanov and Jordan Evanoff to the said Stefan Nachef Ivanov of the balance OF THE WITHIN land PRODUCED 22/2/1960 AT 12.30 pm Ed. Nairn DEP. REG. GEN. CANCELLED AS REGARDS ABOVE LAND AND NEW C.T. ISSUED VOL. 2741 FOL. 119

Appendix E

Section 7 Enquiry

Appendix E

Please see accompanying detail in Table 5-3

8 May 2008

SEARCH NO: 14178

Connell Wagner (SA) Pty Ltd
55 Grenfell Street
ADELAIDE SA 5000

FAXED

CITY OF

Playford



City of Playford
Civic Centre
10 Playford Boulevard
ELIZABETH
Mailing Address :
12 Bishopstone Road
DAVOREN PARK SA 5113
Ph 8256 0333 Fax 8256 0578

ALLOTMENT: LOT 65 DP 1671 HD OF PORT ADELAIDE
PROPERTY ADDRESS: LOT 65 LEGOE ROAD, BUCKLAND PARK SA
5120
TITLE: CT-5868/772
VALUATION NO: 2900371893
ASSESSMENT NO: 112939
OWNER: VOSPOROS PTY LTD

In response to your enquiry, I supply the following information:

PARTICULARS OF COUNCIL RATES & OTHER LAWFUL CHARGES

Current rates declared on 26 June 2007

Current rates	\$1,065.95	LAST DAY TO PAY 03/09/07
Rebate/Remissions	\$0.00	
Current fines	\$0.00	
Arrears	\$0.00	
Legal Fees	\$0.00	
Property related debts	\$0.00	
NRM Levy	\$24.65	
Payments/Adjustment	\$-818.60	
TOTAL OUTSTANDING	\$272.00	

OTHER MATTERS

Legal action taken NO

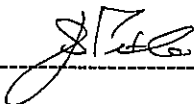
Notice issued under the Local Government Act 1999 YES RATES

Easement, Right of Way, Restricted covenant, Lien or caveat in which council has an interest REFER TO TITLE

Pensioner Concession NO

Please note: The above information is supplied for the purposes of Section 7 of the Land & Business (Sale and Conveyancing) Act 1994 and relates only to matters in which council has an interest.

For Chief Executive Officer



Lot 65 Legoe Road
BUCKLAND PARK SA 5120

Current zoning: Horticulture West HW

Local Heritage Listing / Registered item under the Development Act NO

Heritage Listing / Registered item under the SA Heritage Act NO

Subject to a Development Consent / Conditions which continue to apply NO

Plan Amendment Report submitted to Minister SEE ATTACHED SUMMARY

Has Minister prepared PAR for public consultation NO

Development Act / Public & Environmental Health Act Notices NO

There are obligations to maintain a Septic Tank System SEE BELOW IF APPLICABLE
Proclamations / Agreements SEE CERTIFICATE OF TITLE
Flood Plain Area

Please note: Where Section 34 of the Building Work Contractors Act 1995 requires that building indemnity insurance be taken out in respect of certain types of domestic building work commenced after 1st May 1987, intending purchasers of this property should contact the Council's Building Section for information on whether an insurance policy exists in respect of any building erected on this land.

You should contact the S A Housing Trust, Riverside Centre, North Tce, Adelaide 5000 for information regarding Housing Improvement Act 1940 notices.

You should contact the Adelaide & Mount Lofty Ranges Natural Resource Management, 205 Greenhill Road, Eastwood 5063 for information regarding the Animal and Plant Control Act 1986. Ph. 8273 9100

For Chief Executive Officer



PLEASE TAKE NOTE: Various areas within the Council are at risk of flooding. The Council is not required by Section 7 of the *Land and Business (Sale and Conveyancing) Act 1994* to provide information in relation to whether this property is within a flood risk area or the possible extent of any flood risk as part of this Statement. Nevertheless, the Council can inform you that it has received a report by the Department for Transport, Energy & Infrastructure containing new hydrological data for the Gawler River Flood Plain area which may result in the boundaries of the flood risk area being amended. Flood mapping and modelling has been undertaken using this new hydrological data. The Floodplain Mapping Report is available at the following website:

<http://fredpedler.com/public/content/default.asp?xcid=399>

Development Applications

Nil

DEVELOPMENT PLAN AMENDMENTS SUMMARY

Pursuant to Section 24 of the Development Act 1993, several investigations are being undertaken in respect to amending Development Plan policies (e.g. land use zones) that may affect areas within the City of Playford.

As of a change to the Development Act gazetted on the 27th September 2007 all new amendments to the Development Plan will be implemented under a new Development Plan Amendment (DPA) process. However existing amendments to the Development Plan initiated before this time will be finalised under the Plan Amendment Report (PAR) process.

Investigations which have reached the stage of an agreed 'Statement of Intent' associated with either the PAR or DPA process include:

Townships and Environs PAR

A Townships and Environs PAR Statement of Intent has been agreed between Council and the Minister for Planning and Urban Development, and is currently being investigated and drafted. It affects the Townships of Virginia, Angle Vale and One Tree Hill and includes the following considerations:

- Policies to guide the future growth of townships and promote the enhancement of their identity and character;
- The role of townships;
- Retail activity in nearby horticultural areas;
- How horticultural retail impacts on existing centres and value adding to horticultural production;
- Encourage the appropriate development of cellar door sales, restaurants and wineries;
- Tourist accommodation;
- Appropriate transport;
- Design and appearance enhancement to facilitate identity and character;
- Ecologically sensitive design;
- Arts and culture;
- Infrastructure provision; and
- Sustainable growth to facilitate regeneration of surrounding areas.

Minor amendments to the Angle Vale township are being considered to address anomalies, with no additional land for housing being included.

Munno Para District Centre PAR

A Munno Para District Centre PAR has been prepared by Council and has undertaken public consultation from 25th January 2006 to 27th March 2006. A revised PAR, as a result of consultation, has been approved by Council and is now with the Minister for Urban Development and Planning for consideration.

The PAR impacts on the following development issues:

- The relationship of Munno Para District Centre and Smithfield Township within the hierarchy of all centres within the City of Playford;
- How the Development Plan can assist in developing Munno Para District Centre and Smithfield Township complementary to the rezoned and redeveloped Elizabeth Regional Centre;
- Design and land use policies to promote appropriate activities and facilitate complementary opportunities;
- Integration of centres with transport infrastructure, especially the Smithfield Train Station and other public transport facilities;
- Appropriate shopping, community facilities and mixed land uses and development to meet the needs of the community and the District Centre role;
- Ecologically sustainable design;
- Arts and cultural expression to reflect community values;
- The possibility for higher density housing in proximity to the centre;
- Infrastructure provision, including storm water and bandwidth;
- Open space/landscaping, pedestrian links, car parking and signage to improve function, identity and character;

- development of public assets; and
- The relationship of Munno Para District Centre and Smithfield Township to Main North Road and Anderson Walk.

Munno Para Environs Plan Amendment Report

A PAR is currently being finalised for the area surrounding the Munno Para District Centre and will be available for public consultation in the near future.

The Study Area includes the land around the District Centre Zone, which totals 232 hectares, bounded by:

- Curtis Road to the north;
- Main North to the east;
- the southern boundary of the vacant Commonwealth Defence land; and
- Coventry Road to the west.

The study area does not include the Munno Para District Centre Zone.

The PAR will include considerations on the following issues:

- Integration of the locality with transport infrastructure, especially the Smithfield Train Station and other public transport facilities;
- Appropriate land uses and development to meet the needs of the community and the District Centre role based on appropriate performance criteria;
- Ecologically sustainable design;
- Arts and cultural expression to reflect community values;
- Infrastructure provision, including storm water;
- Open space/landscaping, pedestrian links and signage to improve function, identity and character;
- Site contamination and noise impact considerations; and
- Development of public assets.

A new Structure Plan will be introduced to optimise opportunities presented by recent and potential development. Particular elements of the draft structure plan will include:

- Increased medium density residential development opportunities in the immediate locality;
- Improving connections and relationships to Smithfield Township and Train Station;
- Reinforcing a desired future character for Anderson Walk and the Smithfield township;
- Improving land use mix, function and amenity around the District Centre through the inclusion of performance criteria;
- Improvement of transportation movement (especially heavy vehicles), including gateway identification and appropriate buffers; and
- Incorporating and defining the Smith Creek open space network.

Better Development Plan Development Plan Amendment

The City of Playford proposes to review and amend the policies of the City of Playford Development Plan in order to adopt the policy modules, structure and format for Development Plans promoted by Planning SA as part of the Better Development Plans (BDP) project.

In adopting the BDP approach, council will ensure the resulting Development Plan will suitably implement the State Planning Strategy, as well as carry clearly defined local policy directions.

Council expects that the overall understanding of its Development Plan will be improved by adopting the new BDP form and structure. This will represent an improvement on the current Development Plan, making it easier to navigate and comprehend by addressing the clarity and readability issues that have developed over time with the current plan.

The investigations will ensure:

- the DPA identifies how all included Desired Character Statements have been derived from the existing text or Objectives/Principles of Development Control of the current Development Plan.

- the DPA identifies the existing policy that forms the basis of all included 'local addition' Objectives/Principles of Development Control.
- the policy referred to as 'local additions' does not undertake or encompass new policy directions.
- all appropriate BDP modules covering the range of issues and land uses pertinent to the council area are taken up and included as the policy core of the new Development Plan.
- the DPA identifies all locally relevant Ministerial policy not directly addressed by the BDP module policy and demonstrates its continued inclusion in the new BDP Development Plan.

Neighbourhood Centres Development Plan Amendment

The 2003 City of Playford Development Plan Review identified Centres as a high development policy priority. It included recommendations identifying the need to consider:

- **How the Development Plan can assist in redevelopment, including design and land use issues to promote complementary facilities;**
- The role and hierarchy of centres;
- Integration with transport infrastructure, especially public transport;
- Shopping and community facilities;
- Higher density housing adjacent centres;
- Design and appearance enhancement including landscaping and maintenance of properties, to facilitate identity and character;
- Ecologically sustainable design;
- Arts and culture;
- Infrastructure provision; and
- Sustainable growth to facilitate regeneration of surrounding areas.

The primary aim of the Neighbourhood Activity Centres DPA is to review the appropriateness of the nominated centres and identify opportunities for improvement and rationalisation. This process includes investigating the potential for the accommodation of mixed use development which is considered one way of reversing the decline in viability and vibrancy of the centres.

A Neighbourhood Activity Centres DPA Statement of Intent has been prepared and is currently with the Minister for Planning and Urban Development for his consideration.

The following Neighbourhood Centres will be the focus of the DPA:

- **Elizabeth Park**
- **Elizabeth Grove**
- **Elizabeth Downs**
- **Elizabeth South**
- **Craigmore (Yorketown Road)**
- **Elizabeth Vale**
- **Elizabeth East**
- **Elizabeth North**

Andrews Farm Local Centre was also reviewed as part of the project, considering an immediate need to support development in the area.

Investigations into the neighbourhood centres in the process of preparing the DPA are underway and will be considered by Council in the second half of 2008.

If you have any queries regarding any of the above Plan Amendment Reports, please contact Stephen Yarwood, Principal Policy Planner on 8256 0345 (direct).

8 May 2008

SEARCH NO: 14179

Connell Wagner (SA) Pty Ltd
55 Grenfell Street
ADELAIDE SA 5000



City of Playford
Civic Centre
10 Playford Boulevard
ELIZABETH
Mailing Address :
12 Bishopstone Road
DAVOREN PARK SA 5113
Ph 8256 0333 Fax 8256 0578

ALLOTMENT: LOT 1-4 FP 40207 HD OF PORT ADELAIDE
PROPERTY ADDRESS: LOT 1-4 BEAGLE HOLE ROAD, BUCKLAND
PARK SA 5120
TITLE: CT-5875/910
VALUATION NO: 290037105*
ASSESSMENT NO: 10089
OWNER: VOSPOROS PTY LTD

In response to your enquiry, I supply the following information:

PARTICULARS OF COUNCIL RATES & OTHER LAWFUL CHARGES

Current rates declared on 26 June 2007

Current rates	\$1,797.70	LAST DAY TO PAY 03/09/07
Rebate/Remissions	\$0.00	
Current fines	\$0.00	
Arrears	\$0.00	
Legal Fees	\$0.00	
Property related debts	\$0.00	
NRM Levy	\$54.90	
Payments/Adjustment	\$-1389.60	
TOTAL OUTSTANDING	\$463.00	

OTHER MATTERS

Legal action taken	NO
Notice issued under the Local Government Act 1999	YES RATES
Easement, Right of Way, Restricted covenant, Lien or caveat in which council has an interest	REFER TO TITLE
Pensioner Concession	NO

Please note: The above information is supplied for the purposes of Section 7 of the Land & Business (Sale and Conveyancing) Act 1994 and relates only to matters in which council has an interest.

For Chief Executive Officer

Lot 1-4 Beagle Hole Road
BUCKLAND PARK SA 5120

Current zoning: Horticulture West HW

Local Heritage Listing / Registered item under the Development Act NO

Heritage Listing / Registered item under the SA Heritage Act NO

Subject to a Development Consent / Conditions which continue to apply YES
See Attached Document

Plan Amendment Report submitted to Minister SEE ATTACHED SUMMARY

Has Minister prepared PAR for public consultation NO

Development Act / Public & Environmental Health Act Notices NO

There are obligations to maintain a Septic Tank System SEE BELOW IF APPLICABLE
Proclamations / Agreements SEE CERTIFICATE OF TITLE

Please note: Where Section 34 of the Building Work Contractors Act 1995 requires that building indemnity insurance be taken out in respect of certain types of domestic building work commenced after 1st May 1987, intending purchasers of this property should contact the Council's Building Section for information on whether an insurance policy exists in respect of any building erected on this land.

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You should contact the Adelaide & Mount Lofty Ranges Natural Resource Management, 205 Greenhill Road, Eastwood 5063 for information regarding the Animal and Plant Control Act 1986. Ph. 8273 9100

For Chief Executive Officer



PLEASE TAKE NOTE: Various areas within the Council are at risk of flooding. The Council is not required by Section 7 of the *Land and Business (Sale and Conveyancing) Act 1994* to provide information in relation to whether this property is within a flood risk area or the possible extent of any flood risk as part of this Statement. Nevertheless, the Council can inform you that it has received a report by the Department for Transport, Energy & Infrastructure containing new hydrological data for the Gawler River Flood Plain area which may result in the boundaries of the flood risk area being amended. Flood mapping and modelling has been undertaken using this new hydrological data.

The Floodplain Mapping Report is available at the following website:

<http://fredpedler.com/public/content/default.asp?xcid=399>

Development Applications

292/D-25/1996 Land Division (2 into 2) for purpose of rural living

Date of Decision : 24-Oct-1996 Authority : Council

No Continuing Condition(s)

292/261/1997 IMPLEMENT SHED

Date of Decision : 14-Apr-1997 Authority : Council

Continuing Condition(s)

1. The building shall not be used for commercial or industrial purposes.
2. The building shall not be used for human habitation.

292/140/1998 IMPLEMENT SHED

Date of Decision : 31-Mar-1998 Authority : Council

No Continuing Condition(s)

292/D-130/1998 COMMERCIAL LAND DIVISION (2 INTO 2)

Date of Decision : 28-Apr-1999 Authority : Council

No Continuing Condition(s)

292/257/2002 GREENHOUSE AND SHED WITH OFFICES AND TOILETS.

Date of Decision : 14-May-2002 Authority : Council

Continuing Condition(s)

1. **DISABLED TOILET** The passageway leading to the door of the disabled persons' toilet must be increased in size to 1350mm by moving the partition wall towards the irrigation and fertilisation shed. Grad rails and other fittings on the entrance door and in the compartment must be provided to comply with AS1428. It should be noted that if the entrance door swings inwards, it must be removable from the outside in an emergency, alternatively this door may be a sliding door.
2. Floor grades, linings, tiling and waterproofing of the toilet areas shall comply with the requirements of the Building Code of Australia ie: Minister's Specification F1.7
3. The office floor must be designed by an engineer. A copy of the engineer's report showing slab thickness, reinforcement, edge thickening and waterproofing must be provided to the Council before commencement of that work.
4. Details showing the size and design of framework to support all internal wall and ceiling linings must be provided to the Council prior to the commencement of work.
5. Portable fire extinguishers suitable for the type of materials being stored in the shed and office shall be provided near the exits to comply with Part E of the Building Code of Australia.
6. If the framework of the office is timber, the building must be protected against attack by termites in accordance with AS3660.
7. All existing conditions of approval placed on Development Application 292/1255/99 are binding and ongoing.

AW/17/2002 Aerobic Wastewater Treatment System

Date of Decision : 22-May-2002 Authority : Council

No Continuing Condition(s)

Septic/Aerobic Conditions:

Where it is not practical to terminate the top of the septic tank at surface level it will be necessary to provide access shafts fitted with access covers and an inspection opening finishing at surface level.

The shafts shall be effectively sealed to prevent the ingress or egress of water or gas.

The access cover shall be fixed with non ferrous child proof fixings and shall be gas and water tight and removable for maintenance.

All under floor plumbing shall be inspected prior to back fill by the independent technical expert. A copy of the certificate of inspection shall be provided to Council prior to operation of plumbing.

The aerobic waste water system shall be inspected prior to back fill of the system by the independent technical expert. A copy of the certificate of inspection shall be provided to Council prior to operation of the system.

Effluent disposal area and aerobic waste water treatment systems shall not be located under or next to vehicular traffic areas.

The septic tank should be pumped out every 4 years to remove sludge. This must be carried out by a licensed waste disposal contractor.

DEVELOPMENT PLAN AMENDMENTS SUMMARY

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As of a change to the Development Act gazetted on the 27th September 2007 all new amendments to the Development Plan will be implemented under a new Development Plan Amendment (DPA) process. However existing amendments to the Development Plan initiated before this time will be finalised under the Plan Amendment Report (PAR) process.

Investigations which have reached the stage of an agreed 'Statement of Intent' associated with either the PAR or DPA process include:

Townships and Environs PAR

A Townships and Environs PAR Statement of Intent has been agreed between Council and the Minister for Planning and Urban Development, and is currently being investigated and drafted. It affects the Townships of Virginia, Angle Vale and One Tree Hill and includes the following considerations:

- Policies to guide the future growth of townships and promote the enhancement of their identity and character;
- The role of townships;
- Retail activity in nearby horticultural areas;
- How horticultural retail impacts on existing centres and value adding to horticultural production;
- Encourage the appropriate development of cellar door sales, restaurants and wineries;
- Tourist accommodation;
- Appropriate transport;
- Design and appearance enhancement to facilitate identity and character;
- Ecologically sensitive design;
- Arts and culture;
- Infrastructure provision; and
- Sustainable growth to facilitate regeneration of surrounding areas.

Minor amendments to the Angle Vale township are being considered to address anomalies, with no additional land for housing being included.

Munno Para District Centre PAR

A Munno Para District Centre PAR has been prepared by Council and has undertaken public consultation from 25th January 2006 to 27th March 2006. A revised PAR, as a result of consultation, has been approved by Council and is now with the Minister for Urban Development and Planning for consideration.

The PAR impacts on the following development issues:

- The relationship of Munno Para District Centre and Smithfield Township within the hierarchy of all centres within the City of Playford;
- How the Development Plan can assist in developing Munno Para District Centre and Smithfield Township complementary to the rezoned and redeveloped Elizabeth Regional Centre;
- Design and land use policies to promote appropriate activities and facilitate complementary opportunities;
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- Infrastructure provision, including storm water and bandwidth;
- Open space/landscaping, pedestrian links, car parking and signage to improve function, identity and character;

- development of public assets; and
- The relationship of Munno Para District Centre and Smithfield Township to Main North Road and Anderson Walk.

Munno Para Environs Plan Amendment Report

A PAR is currently being finalised for the area surrounding the Munno Para District Centre and will be available for public consultation in the near future.

The Study Area includes the land around the District Centre Zone, which totals 232 hectares, bounded by:

- Curtis Road to the north;
- Main North to the east;
- the southern boundary of the vacant Commonwealth Defence land; and
- Coventry Road to the west.

The study area does not include the Munno Para District Centre Zone.

The PAR will include considerations on the following issues:

- Integration of the locality with transport infrastructure, especially the Smithfield Train Station and other public transport facilities;
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- Infrastructure provision, including storm water;
- Open space/landscaping, pedestrian links and signage to improve function, identity and character;
- Site contamination and noise impact considerations; and
- Development of public assets.

A new Structure Plan will be introduced to optimise opportunities presented by recent and potential development. Particular elements of the draft structure plan will include:

- Increased medium density residential development opportunities in the immediate locality;
- Improving connections and relationships to Smithfield Township and Train Station;
- Reinforcing a desired future character for Anderson Walk and the Smithfield township;
- Improving land use mix, function and amenity around the District Centre through the inclusion of performance criteria;
- Improvement of transportation movement (especially heavy vehicles), including gateway identification and appropriate buffers; and
- Incorporating and defining the Smith Creek open space network.

Better Development Plan Development Plan Amendment

The City of Playford proposes to review and amend the policies of the City of Playford Development Plan in order to adopt the policy modules, structure and format for Development Plans promoted by Planning SA as part of the Better Development Plans (BDP) project.

In adopting the BDP approach, council will ensure the resulting Development Plan will suitably implement the State Planning Strategy, as well as carry clearly defined local policy directions.

Council expects that the overall understanding of its Development Plan will be improved by adopting the new BDP form and structure. This will represent an improvement on the current Development Plan, making it easier to navigate and comprehend by addressing the clarity and readability issues that have developed over time with the current plan.

The investigations will ensure:

- the DPA identifies how all included Desired Character Statements have been derived from the existing text or Objectives/Principles of Development Control of the current Development Plan.

- the DPA identifies the existing policy that forms the basis of all included 'local addition' Objectives/Principles of Development Control.
- the policy referred to as 'local additions' does not undertake or encompass new policy directions.
- all appropriate BDP modules covering the range of issues and land uses pertinent to the council area are taken up and included as the policy core of the new Development Plan.
- the DPA identifies all locally relevant Ministerial policy not directly addressed by the BDP module policy and demonstrates its continued inclusion in the new BDP Development Plan.

Neighbourhood Centres Development Plan Amendment

The 2003 City of Playford Development Plan Review identified Centres as a high development policy priority. It included recommendations identifying the need to consider:

- **How the Development Plan can assist in redevelopment, including design and land use issues to promote complementary facilities;**
- The role and hierarchy of centres;
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- Shopping and community facilities;
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- Design and appearance enhancement including landscaping and maintenance of properties, to facilitate identity and character;
- Ecologically sustainable design;
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- Infrastructure provision; and
- Sustainable growth to facilitate regeneration of surrounding areas.

The primary aim of the Neighbourhood Activity Centres DPA is to review the appropriateness of the nominated centres and identify opportunities for improvement and rationalisation. This process includes investigating the potential for the accommodation of mixed use development which is considered one way of reversing the decline in viability and vibrancy of the centres.

A Neighbourhood Activity Centres DPA Statement of Intent has been prepared and is currently with the Minister for Planning and Urban Development for his consideration.

The following Neighbourhood Centres will be the focus of the DPA:

- **Elizabeth Park**
- **Elizabeth Grove**
- **Elizabeth Downs**
- **Elizabeth South**
- **Craigmore (Yorketown Road)**
- **Elizabeth Vale**
- **Elizabeth East**
- **Elizabeth North**

Andrews Farm Local Centre was also reviewed as part of the project, considering an immediate need to support development in the area.

Investigations into the neighbourhood centres in the process of preparing the DPA are underway and will be considered by Council in the second half of 2008.

If you have any queries regarding any of the above Plan Amendment Reports, please contact Stephen Yarwood, Principal Policy Planner on 8256 0345 (direct).

8 May 2008

SEARCH NO: 14180

Connell Wagner (SA) Pty Ltd
55 Grenfell Street
ADELAIDE SA 5000



City of Playford
Civic Centre
10 Playford Boulevard
ELIZABETH
Mailing Address :
12 Bishopstone Road
DAVOREN PARK SA 5113
Ph 8256 0333 Fax 8256 0578

ALLOTMENT: LOT 5 SEC 7509 FP 40170 HD OF PORT
PROPERTY ADDRESS: ADELAIDE
LOT 5 LEGOE ROAD, BUCKLAND PARK SA
5120
TITLE: CT-5424/348
VALUATION NO: 2900383501
ASSESSMENT NO: 10090
OWNER: MRS B KANEV

In response to your enquiry, I supply the following information:

PARTICULARS OF COUNCIL RATES & OTHER LAWFUL CHARGES

Current rates declared on 26 June 2007

Current rates	\$969.65	LAST DAY TO PAY 03/09/07
Rebate/Remissions	\$0.00	
Current fines	\$0.00	
Arrears	\$0.00	
Legal Fees	\$0.00	
Property related debts	\$0.00	
NRM Levy	\$20.65	
Payments/Adjustment	\$-743.30	
TOTAL OUTSTANDING	\$247.00	

OTHER MATTERS

Legal action taken NO

Notice issued under the Local Government Act 1999 YES RATES

Easement, Right of Way, Restricted covenant, Lien
or caveat in which council has an interest REFER TO TITLE

Pensioner Concession NO

Please note: The above information is supplied for the purposes of Section 7 of the Land & Business (Sale and Conveyancing) Act 1994 and relates only to matters in which council has an interest.

For Chief Executive Officer

A handwritten signature in black ink, appearing to be 'J. K. Kanev', is written over a horizontal dashed line.

Lot 5 Legoe Road
BUCKLAND PARK SA 5120

Current zoning: Horticulture West HW

Local Heritage Listing / Registered item under the Development Act NO

Heritage Listing / Registered item under the SA Heritage Act NO

Subject to a Development Consent / Conditions which continue to apply NO

Plan Amendment Report submitted to Minister SEE ATTACHED
SUMMARY

Has Minister prepared PAR for public consultation NO

Development Act / Public & Environmental Health Act Notices NO

There are obligations to maintain a Septic Tank System SEE BELOW IF
APPLICABLE
Proclamations / Agreements SEE CERTIFICATE
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8 May 2008

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ALLOTMENT: LOT 4 SEC 7509 FP 40170 HD OF PORT
ADELAIDE, LOT 4 SEC 7520 FP 40170 HD OF
PORT ADELAIDE
PROPERTY ADDRESS: LOT 4 REEDY ROAD, BUCKLAND PARK SA
5120
TITLE: CT-5228/167
VALUATION NO: 2900384002
ASSESSMENT NO: 10618
OWNER: TRIMCO NOMINEES PTY LTD

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Current rates	\$921.50	LAST DAY TO PAY 03/09/07
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NRM Levy	\$18.70	
Payments/Adjustment	\$-705.20	
TOTAL OUTSTANDING	\$235.00	

OTHER MATTERS

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Pensioner Concession NO

Please note: The above information is supplied for the purposes of Section 7 of the Land & Business (Sale and Conveyancing) Act 1994 and relates only to matters in which council has an interest.

For Chief Executive Officer

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Lot 4 Reedy Road
BUCKLAND PARK SA 5120

Current zoning: Horticulture West HW

Local Heritage Listing / Registered item under the Development Act NO

Heritage Listing / Registered item under the SA Heritage Act NO

Subject to a Development Consent / Conditions which continue to apply NO

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If you have any queries regarding any of the above Plan Amendment Reports, please contact Stephen Yarwood, Principal Policy Planner on 8256 0345 (direct).

8 May 2008

SEARCH NO: 14182

Connell Wagner (SA) Pty Ltd
55 Grenfell Street
ADELAIDE SA 5000



City of Playford
Civic Centre
10 Playford Boulevard
ELIZABETH
Mailing Address :
12 Bishopstone Road
DAVOREN PARK SA 5113
Ph 8256 0333 Fax 8256 0578

ALLOTMENT: LOT 133 SEC 7551 FP 162482 HD OF PORT
ADELAIDE
PROPERTY ADDRESS: LOT 133 REEDY ROAD, BUCKLAND PARK
SA 5120
TITLE: CT-5763/970
VALUATION NO: 2900380001
ASSESSMENT NO: 10617
OWNER: MR G BERGLIAVAZ AND MRS M
BERGLIAVAZ

In response to your enquiry, I supply the following information:

PARTICULARS OF COUNCIL RATES & OTHER LAWFUL CHARGES

Current rates declared on 26 June 2007

Current rates	\$842.55	LAST DAY TO PAY 03/09/07
Rebate/Remissions	\$0.00	
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Legal Fees	\$0.00	
Property related debts	\$0.00	
NRM Levy	\$15.40	
Payments/Adjustment	\$-857.95	
TOTAL OUTSTANDING	\$0.00	

OTHER MATTERS

Legal action taken	NO
Notice issued under the Local Government Act 1999	YES RATES
Easement, Right of Way, Restricted covenant, Lien or caveat in which council has an interest	REFER TO TITLE
Pensioner Concession	NO

Please note: The above information is supplied for the purposes of Section 7 of the Land & Business (Sale and Conveyancing) Act 1994 and relates only to matters in which council has an interest.

For Chief Executive Officer

Lot 133 Reedy Road
BUCKLAND PARK SA 5120

Current zoning: Horticulture West HW

Local Heritage Listing / Registered item under the Development Act NO

Heritage Listing / Registered item under the SA Heritage Act NO

Subject to a Development Consent / Conditions which continue to apply NO

Plan Amendment Report submitted to Minister SEE ATTACHED SUMMARY

Has Minister prepared PAR for public consultation NO

Development Act / Public & Environmental Health Act Notices NO

There are obligations to maintain a Septic Tank System SEE BELOW IF APPLICABLE
Proclamations / Agreements SEE CERTIFICATE OF TITLE
Flood Plain Area

Please note: Where Section 34 of the Building Work Contractors Act 1995 requires that building indemnity insurance be taken out in respect of certain types of domestic building work commenced after 1st May 1987, intending purchasers of this property should contact the Council's Building Section for information on whether an insurance policy exists in respect of any building erected on this land.

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For Chief Executive Officer



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The Floodplain Mapping Report is available at the following website:

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Development Applications

Nil

DEVELOPMENT PLAN AMENDMENTS SUMMARY

Pursuant to Section 24 of the Development Act 1993, several investigations are being undertaken in respect to amending Development Plan policies (e.g. land use zones) that may affect areas within the City of Playford.

As of a change to the Development Act gazetted on the 27th September 2007 all new amendments to the Development Plan will be implemented under a new Development Plan Amendment (DPA) process. However existing amendments to the Development Plan initiated before this time will be finalised under the Plan Amendment Report (PAR) process.

Investigations which have reached the stage of an agreed 'Statement of Intent' associated with either the PAR or DPA process include:

Townships and Environs PAR

A Townships and Environs PAR Statement of Intent has been agreed between Council and the Minister for Planning and Urban Development, and is currently being investigated and drafted. It affects the Townships of Virginia, Angle Vale and One Tree Hill and includes the following considerations:

- Policies to guide the future growth of townships and promote the enhancement of their identity and character;
- The role of townships;
- Retail activity in nearby horticultural areas;
- How horticultural retail impacts on existing centres and value adding to horticultural production;
- Encourage the appropriate development of cellar door sales, restaurants and wineries;
- Tourist accommodation;
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- Design and appearance enhancement to facilitate identity and character;
- Ecologically sensitive design;
- Arts and culture;
- Infrastructure provision; and
- Sustainable growth to facilitate regeneration of surrounding areas.

Minor amendments to the Angle Vale township are being considered to address anomalies, with no additional land for housing being included.

Munno Para District Centre PAR

A Munno Para District Centre PAR has been prepared by Council and has undertaken public consultation from 25th January 2006 to 27th March 2006. A revised PAR, as a result of consultation, has been approved by Council and is now with the Minister for Urban Development and Planning for consideration.

The PAR impacts on the following development issues:

- The relationship of Munno Para District Centre and Smithfield Township within the hierarchy of all centres within the City of Playford;
- How the Development Plan can assist in developing Munno Para District Centre and Smithfield Township complementary to the rezoned and redeveloped Elizabeth Regional Centre;
- Design and land use policies to promote appropriate activities and facilitate complementary opportunities;
- Integration of centres with transport infrastructure, especially the Smithfield Train Station and other public transport facilities;
- Appropriate shopping, community facilities and mixed land uses and development to meet the needs of the community and the District Centre role;
- Ecologically sustainable design;
- Arts and cultural expression to reflect community values;
- The possibility for higher density housing in proximity to the centre;
- Infrastructure provision, including storm water and bandwidth;
- Open space/landscaping, pedestrian links, car parking and signage to improve function, identity and character;

- development of public assets; and
- The relationship of Munno Para District Centre and Smithfield Township to Main North Road and Anderson Walk.

Munno Para Environs Plan Amendment Report

A PAR is currently being finalised for the area surrounding the Munno Para District Centre and will be available for public consultation in the near future.

The Study Area includes the land around the District Centre Zone, which totals 232 hectares, bounded by:

- Curtis Road to the north;
- Main North to the east;
- the southern boundary of the vacant Commonwealth Defence land; and
- Coventry Road to the west.

The study area does not include the Munno Para District Centre Zone.

The PAR will include considerations on the following issues:

- Integration of the locality with transport infrastructure, especially the Smithfield Train Station and other public transport facilities;
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8 May 2008

SEARCH NO: 14192



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 ELIZABETH
Mailing Address :
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 Ph 8256 0333 Fax 8256 0578

ALLOTMENT: LOT 101 SEC 170 DP 36246 HD OF PORT
PROPERTY ADDRESS: ADELAIDE
 LOT 101 LEGOE ROAD, BUCKLAND PARK
 SA 5120
TITLE: CT-5144/148
VALUATION NO: 2900381258
ASSESSMENT NO: 10082
OWNER: MRS S B MERCORELLA

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PARTICULARS OF COUNCIL RATES & OTHER LAWFUL CHARGES

Current rates declared on 26 June 2007

Current rates	\$988.90	LAST DAY TO PAY 03/09/07
Rebate/Remissions	\$-190.00	
Current fines	\$9.80	
Arrears	\$0.00	
Legal Fees	\$0.00	
Property related debts	\$0.00	
NRM Levy	\$21.45	
Payments/Adjustment	\$-625.15	
TOTAL OUTSTANDING	\$205.00	

OTHER MATTERS

Legal action taken NO

Notice issued under the Local Government Act 1999 YES RATES

Easement, Right of Way, Restricted covenant, Lien or caveat in which council has an interest REFER TO TITLE

Pensioner Concession YES

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For Chief Executive Officer

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Lot 101 Legoe Road
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Current zoning: Horticulture West HW

Local Heritage Listing / Registered item under the Development Act NO

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Plan Amendment Report submitted to Minister SEE ATTACHED SUMMARY

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Development Act / Public & Environmental Health Act Notices NO

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Development Applications

292/60/1992 Land Division realignment of boundry (2 into 2) exist dwelling and improvement on each

Date of Decision : 17-Nov-1992 Authority : Council
No Continuing Condition(s)

292/746/1993 Stables and Hayshed

Date of Decision : 04-Aug-1993 Authority : Council
No Continuing Condition(s)

292/1343/2006 Dependent Accommodation

Date of Decision : 18-Dec-2006 Authority : Council
Continuing Condition(s)

1. Except where minor amendments may be required by other relevant Acts, or by conditions imposed by this application, the development shall be established in strict accordance with the details and plans submitted in this development application.

ST/80/2006 Septic Tank System

Date of Decision : 15-Dec-2006 Authority : Council
Continuing Condition(s)

Septic/Aerobic Conditions:

The septic tank system within the 100 year Gawler River Flood Plain shall be installed with the top of the tank at the same height as the top of the finished floor level of the house (this will meet the requirement to be at least 300mm above the ADH level of the 1:100 year ARI flood of the Gawler River)

The floor waste gullies and the inspection openings shall be installed such that they are also located at the same height as the top of the finished floor level of the house.

All internal flood waste gully trap risers be fitted with grate valves to prevent overflow in the event of flooding.

The external flood gully overflow point should be at least 50mm below the lowest floor waste gully trap situated within the building.

The shafts shall be effectively sealed to prevent the ingress or egress of water or gas.

The access cover shall be fixed with non ferrous child proof fixings and shall be gas and water tight and removable for maintenance.

The raised inspection opening to the soakage trench shall be 100mm above finished ground level.

Trenches should be operated 1 at a time in rotation for between 6 and 12 months to allow the soil to recover. This will require a manually operated diversion valve to allow flow diversion.

The 2.5 m wide strips between the trenches should be closely planted with water seeking native shrubs or tree varieties such as melaleuca or callistemon species. Specific advice should be obtained from a nursery.

Trenches be backfilled with loose friable soil to surface level.

All under floor plumbing shall be inspected prior to back fill by the independent technical expert. A copy of the certificate of inspection shall be provided to Council prior to operation of plumbing.

The septic tank system including soakage trench shall be inspected prior to back fill of the system by the independent technical expert. A copy of the certificate of inspection shall be provided to Council prior to operation of the system.

Soakage trenches and septic tank shall not be located under or next to vehicular traffic areas.

The septic tank should be pumped out every 4 years to remove sludge. This must be carried out by a licensed waste disposal contractor.

CERTIFICATE OF INSURANCE DETAILS

CERTIFICATE NO.:	3333/2003
IN FAVOUR OF:	S B Mercorella
IN RESPECT OF:	Dwelling
AT:	Lot 170 Legoe Road Virginia
TO BE CARRIED OUT BY:	Construction Services Australia
BUILDER'S LICENCE NO.:	G 8969
DATE:	09-Oct-2006
TYPE OF COVER:	Statutory
INSURER:	HIA Insurance Services Pty Ltd

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8 May 2008

SEARCH NO: 14193

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ADELAIDE SA 5000



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Civic Centre
10 Playford Boulevard
ELIZABETH
Mailing Address :
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Ph 8256 0333 Fax 8256 0578

ALLOTMENT: LOT 100 SEC 170 DP 36246 HD OF PORT
ADELAIDE
PROPERTY ADDRESS: LOT 100 LEGOE ROAD, BUCKLAND PARK
SA 5120
TITLE: CT-5144/147
VALUATION NO: 2900381506
ASSESSMENT NO: 10081
OWNER: MR L SEMAK

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For Chief Executive Officer

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Lot 100 Legoe Road
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Current zoning: Horticulture West HW

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For Chief Executive Officer



PLEASE TAKE NOTE: Various areas within the Council are at risk of flooding. The Council is not required by Section 7 of the *Land and Business (Sale and Conveyancing) Act 1994* to provide information in relation to whether this property is within a flood risk area or the possible extent of any flood risk as part of this Statement. Nevertheless, the Council can inform you that it has received a report by the Department for Transport, Energy & Infrastructure containing new hydrological data for the Gawler River Flood Plain area which may result in the boundaries of the flood risk area being amended. Flood mapping and modelling has been undertaken using this new hydrological data. The Floodplain Mapping Report is available at the following website:

<http://fredpedler.com/public/content/default.asp?xcid=399>

Development Applications

**292/60/1992 Land Division re-arrangement of boundry (2 into 2) exist dwelling
and improvement on each**

Date of Decision : 17-Nov-1992 Authority : Council
No Continuing Condition(s)

292/565/1999 Verandah

Date of Decision : 20-May-1999 Authority : Council
Continuing Condition(s)

1. The verandah shall not be enclosed without the prior written consent of Council.

292/1300/2003 Dwelling Addition

Date of Decision : 10-May-2004 Authority : Council
Continuing Condition(s)

1. Detail of timber trusses to be submitted to the Council and receive consent prior to the trusses being erected (B1.3 of BCA).
2. The builder shall at all times provide and maintain a waste receptacle to the reasonable satisfaction of Council on the site in which and at all times all builders waste shall be contained for the duration of the dwelling's construction and such receptacle shall be emptied as required and removed upon completion to licensed waste disposal depot.
3. The dwelling extension shall not be separately let or occupied by a separate household.
4. The site is to be kept in an orderly condition to the satisfaction of Council.
5. All external surfaces to be of colours & materials to match the existing dwelling.

DEVELOPMENT PLAN AMENDMENTS SUMMARY

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Investigations which have reached the stage of an agreed 'Statement of Intent' associated with either the PAR or DPA process include:

Townships and Environs PAR

A Townships and Environs PAR Statement of Intent has been agreed between Council and the Minister for Planning and Urban Development, and is currently being investigated and drafted. It affects the Townships of Virginia, Angle Vale and One Tree Hill and includes the following considerations:

- Policies to guide the future growth of townships and promote the enhancement of their identity and character;
- The role of townships;
- Retail activity in nearby horticultural areas;
- How horticultural retail impacts on existing centres and value adding to horticultural production;
- Encourage the appropriate development of cellar door sales, restaurants and wineries;
- Tourist accommodation;
- Appropriate transport;
- Design and appearance enhancement to facilitate identity and character;
- Ecologically sensitive design;
- Arts and culture;
- Infrastructure provision; and
- Sustainable growth to facilitate regeneration of surrounding areas.

Minor amendments to the Angle Vale township are being considered to address anomalies, with no additional land for housing being included.

Munno Para District Centre PAR

A Munno Para District Centre PAR has been prepared by Council and has undertaken public consultation from 25th January 2006 to 27th March 2006. A revised PAR, as a result of consultation, has been approved by Council and is now with the Minister for Urban Development and Planning for consideration.

The PAR impacts on the following development issues:

- The relationship of Munno Para District Centre and Smithfield Township within the hierarchy of all centres within the City of Playford;
- How the Development Plan can assist in developing Munno Para District Centre and Smithfield Township complementary to the rezoned and redeveloped Elizabeth Regional Centre;
- Design and land use policies to promote appropriate activities and facilitate complementary opportunities;
- Integration of centres with transport infrastructure, especially the Smithfield Train Station and other public transport facilities;
- Appropriate shopping, community facilities and mixed land uses and development to meet the needs of the community and the District Centre role;
- Ecologically sustainable design;
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- The possibility for higher density housing in proximity to the centre;
- Infrastructure provision, including storm water and bandwidth;
- Open space/landscaping, pedestrian links, car parking and signage to improve function, identity and character;

- development of public assets; and
- The relationship of Munno Para District Centre and Smithfield Township to Main North Road and Anderson Walk.

Munno Para Environs Plan Amendment Report

A PAR is currently being finalised for the area surrounding the Munno Para District Centre and will be available for public consultation in the near future.

The Study Area includes the land around the District Centre Zone, which totals 232 hectares, bounded by:

- Curtis Road to the north;
- Main North to the east;
- the southern boundary of the vacant Commonwealth Defence land; and
- Coventry Road to the west.

The study area does not include the Munno Para District Centre Zone.

The PAR will include considerations on the following issues:

- Integration of the locality with transport infrastructure, especially the Smithfield Train Station and other public transport facilities;
- Appropriate land uses and development to meet the needs of the community and the District Centre role based on appropriate performance criteria;
- Ecologically sustainable design;
- Arts and cultural expression to reflect community values;
- Infrastructure provision, including storm water;
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- Site contamination and noise impact considerations; and
- Development of public assets.

A new Structure Plan will be introduced to optimise opportunities presented by recent and potential development. Particular elements of the draft structure plan will include:

- Increased medium density residential development opportunities in the immediate locality;
- Improving connections and relationships to Smithfield Township and Train Station;
- Reinforcing a desired future character for Anderson Walk and the Smithfield township;
- Improving land use mix, function and amenity around the District Centre through the inclusion of performance criteria;
- Improvement of transportation movement (especially heavy vehicles), including gateway identification and appropriate buffers; and
- Incorporating and defining the Smith Creek open space network.

Better Development Plan Development Plan Amendment

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The investigations will ensure:

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- the DPA identifies the existing policy that forms the basis of all included 'local addition' Objectives/Principles of Development Control.
- the policy referred to as 'local additions' does not undertake or encompass new policy directions.
- all appropriate BDP modules covering the range of issues and land uses pertinent to the council area are taken up and included as the policy core of the new Development Plan.
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Neighbourhood Centres Development Plan Amendment

The 2003 City of Playford Development Plan Review identified Centres as a high development policy priority. It included recommendations identifying the need to consider:

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- The role and hierarchy of centres;
- Integration with transport infrastructure, especially public transport;
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- Higher density housing adjacent centres;
- Design and appearance enhancement including landscaping and maintenance of properties, to facilitate identity and character;
- Ecologically sustainable design;
- Arts and culture;
- Infrastructure provision; and
- Sustainable growth to facilitate regeneration of surrounding areas.

The primary aim of the Neighbourhood Activity Centres DPA is to review the appropriateness of the nominated centres and identify opportunities for improvement and rationalisation. This process includes investigating the potential for the accommodation of mixed use development which is considered one way of reversing the decline in viability and vibrancy of the centres.

A Neighbourhood Activity Centres DPA Statement of Intent has been prepared and is currently with the Minister for Planning and Urban Development for his consideration.

The following Neighbourhood Centres will be the focus of the DPA:

- **Elizabeth Park**
- **Elizabeth Grove**
- **Elizabeth Downs**
- **Elizabeth South**
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- **Elizabeth East**
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Andrews Farm Local Centre was also reviewed as part of the project, considering an immediate need to support development in the area.

Investigations into the neighbourhood centres in the process of preparing the DPA are underway and will be considered by Council in the second half of 2008.

If you have any queries regarding any of the above Plan Amendment Reports, please contact Stephen Yarwood, Principal Policy Planner on 8256 0345 (direct).

8 May 2008

SEARCH NO: 14194

Connell Wagner (SA) Pty Ltd
55 Grenfell Street
ADELAIDE SA 5000



City of Playford
Civic Centre
10 Playford Boulevard
ELIZABETH
Mailing Address :
12 Bishopstone Road
DAVOREN PARK SA 5113
Ph 8256 0333 Fax 8256 0578

ALLOTMENT: LOT 5 SEC PT 169 DP 63928 HD OF PORT
ADELAIDE
PROPERTY ADDRESS: LOT 5 LEGOE ROAD, BUCKLAND PARK SA
5120
TITLE: CT-5916/63
VALUATION NO: 290037404*
ASSESSMENT NO: 10002112
OWNER: V S RASCHELLA NOMINEES PTY LTD

In response to your enquiry, I supply the following information:

PARTICULARS OF COUNCIL RATES & OTHER LAWFUL CHARGES

Current rates declared on 26 June 2007

Current rates	\$1,431.85	LAST DAY TO PAY 03/09/07
Rebate/Remissions	\$0.00	
Current fines	\$0.00	
Arrears	\$0.00	
Legal Fees	\$0.00	
Property related debts	\$0.00	
NRM Levy	\$39.80	
Payments/Adjustment	\$-1104.65	
TOTAL OUTSTANDING	\$367.00	

OTHER MATTERS

Legal action taken	NO
Notice issued under the Local Government Act 1999	YES RATES
Easement, Right of Way, Restricted covenant, Lien or caveat in which council has an interest	REFER TO TITLE
Pensioner Concession	NO

Please note: The above information is supplied for the purposes of Section 7 of the Land & Business (Sale and Conveyancing) Act 1994 and relates only to matters in which council has an interest.

For Chief Executive Officer

Lot 5 Legoe Road
BUCKLAND PARK SA 5120

Current zoning: Horticulture West HW

Local Heritage Listing / Registered item under the Development Act NO

Heritage Listing / Registered item under the SA Heritage Act NO

Subject to a Development Consent / Conditions which continue to apply NO

Plan Amendment Report submitted to Minister SEE ATTACHED SUMMARY

Has Minister prepared PAR for public consultation NO

Development Act / Public & Environmental Health Act Notices NO

There are obligations to maintain a Septic Tank System SEE BELOW IF APPLICABLE

Proclamations / Agreements SEE CERTIFICATE OF TITLE

Please note: Where Section 34 of the Building Work Contractors Act 1995 requires that building indemnity insurance be taken out in respect of certain types of domestic building work commenced after 1st May 1987, intending purchasers of this property should contact the Council's Building Section for information on whether an insurance policy exists in respect of any building erected on this land.

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Development Applications

Nil

DEVELOPMENT PLAN AMENDMENTS SUMMARY

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8 May 2008

SEARCH NO: 14195

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ADELAIDE SA 5000



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ELIZABETH
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DAVOREN PARK SA 5113
Ph 8256 0333 Fax 8256 0578

ALLOTMENT: LOT 18 SEC 171 DP 60145 HD OF PORT
ADELAIDE
PROPERTY ADDRESS: LOT 18 PARK ROAD, BUCKLAND PARK SA
5120
TITLE: CT-5883/980
VALUATION NO: 2900373995
ASSESSMENT NO: 117461
OWNER: MR D P SERGI

In response to your enquiry, I supply the following information:

PARTICULARS OF COUNCIL RATES & OTHER LAWFUL CHARGES

Current rates declared on 26 June 2007

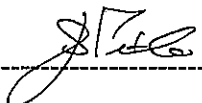
Current rates	\$1,431.85	LAST DAY TO PAY 03/09/07
Rebate/Remissions	\$0.00	
Current fines	\$0.00	
Arrears	\$0.00	
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NRM Levy	\$39.80	
Payments/Adjustment	\$-1471.65	
TOTAL OUTSTANDING	\$0.00	

OTHER MATTERS

Legal action taken	NO
Notice issued under the Local Government Act 1999	YES RATES
Easement, Right of Way, Restricted covenant, Lien or caveat in which council has an interest	REFER TO TITLE
Pensioner Concession	NO

Please note: The above information is supplied for the purposes of Section 7 of the Land & Business (Sale and Conveyancing) Act 1994 and relates only to matters in which council has an interest.

For Chief Executive Officer



Lot 18 Park Road
BUCKLAND PARK SA 5120

Current zoning: Horticulture West HW

Local Heritage Listing / Registered item under the Development Act NO

Heritage Listing / Registered item under the SA Heritage Act NO

Subject to a Development Consent / Conditions which continue to apply YES
See Attached Document

Plan Amendment Report submitted to Minister SEE ATTACHED SUMMARY

Has Minister prepared PAR for public consultation NO

Development Act / Public & Environmental Health Act Notices NO

There are obligations to maintain a Septic Tank System SEE BELOW IF APPLICABLE
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Development Applications

292/3/2002 DWELLING

Date of Decision : 01-Feb-2002 Authority : Council
Continuing Condition(s)

1. The builder shall at all times provide and maintain a waste receptacle to the reasonable satisfaction of Council on the site, in which and at all times all builder's waste shall be contained for the duration of the dwelling's construction and such receptacle shall be emptied as required and removed upon completion to a licensed waste disposal depot.
2. Operation of WC doors to comply with SA Housing Code Appendix G1.1.
3. Structural engineer's design and calculations for the T beams supporting brickwork over garage openings shall be submitted for Council approval.
4. Details of either a registered building work supervisor or private certifier supervising the building work shall be submitted to Council prior to commencement of building work.
5. Roof stormwater to be discharged a minimum of five (5) metres away from the building (SAHC C1.12.2)

292/1528/2003 GARAGE VERANDAH

Date of Decision : 08-Oct-2003 Authority : Council
Continuing Condition(s)

1. The verandah shall not be enclosed without the prior written consent of Council.
2. Roof stormwater to be connected to the street water-table or stormwater easement if available. (SAHC C1.12.2)
3. Copy of Building Indemnity Insurance Certificate / CITB Levy Form shall be submitted to Council prior to commencement of building work as per SA Housing Code 1.2.11.

DEVELOPMENT PLAN AMENDMENTS SUMMARY

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8 May 2008

SEARCH NO: 14196

Connell Wagner (SA) Pty Ltd
55 Grenfell Street
ADELAIDE SA 5000



City of Playford
Civic Centre
10 Playford Boulevard
ELIZABETH
Mailing Address :
12 Bishopstone Road
DAVOREN PARK SA 5113
Ph 8256 0333 Fax 8256 0578

ALLOTMENT: LOT 17 SEC 171 DP 60145 HD OF PORT
ADELAIDE
PROPERTY ADDRESS: LOT 17 PARK ROAD, BUCKLAND PARK SA
5120
TITLE: CT-5883/979
VALUATION NO: 2900373979
ASSESSMENT NO: 117460
OWNER: MR D P SERGI AND MR A MARANDO AND
MRS M MARANDO AND MR V MARANDO
AND MR L MARANDO AND OTHERS.

In response to your enquiry, I supply the following information:

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TOTAL OUTSTANDING	\$0.00	

OTHER MATTERS

Legal action taken NO
Notice issued under the Local Government Act 1999 YES RATES
Easement, Right of Way, Restricted covenant, Lien or caveat in which council has an interest REFER TO TITLE
Pensioner Concession NO

Please note: The above information is supplied for the purposes of Section 7 of the Land & Business (Sale and Conveyancing) Act 1994 and relates only to matters in which council has an interest.

For Chief Executive Officer

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Lot 17 Park Road
BUCKLAND PARK SA 5120

Current zoning: Horticulture West HW

Local Heritage Listing / Registered item under the Development Act NO

Heritage Listing / Registered item under the SA Heritage Act NO

Subject to a Development Consent / Conditions which continue to apply NO

Plan Amendment Report submitted to Minister SEE ATTACHED SUMMARY

Has Minister prepared PAR for public consultation NO

Development Act / Public & Environmental Health Act Notices NO

There are obligations to maintain a Septic Tank System SEE BELOW IF APPLICABLE
Proclamations / Agreements SEE CERTIFICATE OF TITLE

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Development Applications

Nil

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Munno Para District Centre PAR

A Munno Para District Centre PAR has been prepared by Council and has undertaken public consultation from 25th January 2006 to 27th March 2006. A revised PAR, as a result of consultation, has been approved by Council and is now with the Minister for Urban Development and Planning for consideration.

The PAR impacts on the following development issues:

- The relationship of Munno Para District Centre and Smithfield Township within the hierarchy of all centres within the City of Playford;
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- Design and land use policies to promote appropriate activities and facilitate complementary opportunities;
- Integration of centres with transport infrastructure, especially the Smithfield Train Station and other public transport facilities;
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- development of public assets; and
- The relationship of Munno Para District Centre and Smithfield Township to Main North Road and Anderson Walk.

Munno Para Environs Plan Amendment Report

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The Study Area includes the land around the District Centre Zone, which totals 232 hectares, bounded by:

- Curtis Road to the north;
- Main North to the east;
- the southern boundary of the vacant Commonwealth Defence land; and
- Coventry Road to the west.

The study area does not include the Munno Para District Centre Zone.

The PAR will include considerations on the following issues:

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- the policy referred to as 'local additions' does not undertake or encompass new policy directions.
- all appropriate BDP modules covering the range of issues and land uses pertinent to the council area are taken up and included as the policy core of the new Development Plan.
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OTHER MATTERS

Legal action taken NO

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Lot 2 Buckland Road
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Local Heritage Listing / Registered item under the Development Act NO

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ELIZABETH
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Ph 8256 0333 Fax 8256 0578

ALLOTMENT: LOT 3 SEC 7559 DP 41548 HD OF PORT
ADELAIDE, LOT 249 SEC 7559 FP 163217 HD
OF PORT ADELAIDE
PROPERTY ADDRESS: LOT 3 PARK ROAD, VIRGINIA SA 5120
TITLE: CT-5251/815, CT-5759/187
VALUATION NO: 2900375026
ASSESSMENT NO: 25197
OWNER: MALCOLM LEWIS NOMINEES PTY LTD AND
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OTHER MATTERS

Legal action taken NO

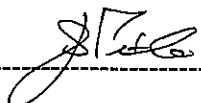
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For Chief Executive Officer



Lot 3 Park Road
VIRGINIA SA 5120

Current zoning: Horticulture West HW

Local Heritage Listing / Registered item under the Development Act NO

Heritage Listing / Registered item under the SA Heritage Act NO

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Development Applications

292/1161/2005

Carport

Date of Decision : 07-Jul-2005

Authority : Council

Continuing Condition(s)

1. Except where minor amendments may be required by other relevant Acts, or by conditions imposed by this application, the development shall be established in strict accordance with the details and plans submitted in this development application.
2. The carport shall not be enclosed without the prior written consent of Council.
3. All metal clad external surfaces are to be of a suitable factory colour-coated material and in natural colours to Council's satisfaction, or, the whole external surface of the proposed building shall be painted so as to be unobtrusive and minimise any visual intrusion within 28 days of construction.
4. Roof stormwater must be connected to the street water table, or stormwater easement if available in accordance with AS3550.3 (F1.1 of BCA).

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Better Development Plan Development Plan Amendment

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Neighbourhood Centres Development Plan Amendment

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A Neighbourhood Activity Centres DPA Statement of Intent has been prepared and is currently with the Minister for Planning and Urban Development for his consideration.

The following Neighbourhood Centres will be the focus of the DPA:

- **Elizabeth Park**
- **Elizabeth Grove**
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- **Elizabeth South**
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- **Elizabeth Vale**
- **Elizabeth East**
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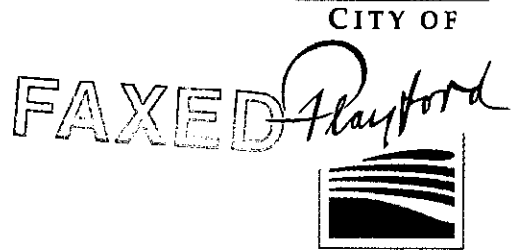
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8 May 2008

SEARCH NO: 14188

Connell Wagner (SA) Pty Ltd
55 Grenfell Street
ADELAIDE SA 5000



City of Playford
Civic Centre
10 Playford Boulevard
ELIZABETH
Mailing Address :
12 Bishopstone Road
DAVOREN PARK SA 5113
Ph 8256 0333 Fax 8256 0578

ALLOTMENT: LOT 2 SEC 7559 DP 41548 HD OF PORT
ADELAIDE
PROPERTY ADDRESS: LOT 2 PARK ROAD, VIRGINIA SA 5120
TITLE: CT-5251/814
VALUATION NO: 2900376758
ASSESSMENT NO: 26933
OWNER: MR H R LEWIS AND MRS R M LEWIS

In response to your enquiry, I supply the following information:

PARTICULARS OF COUNCIL RATES & OTHER LAWFUL CHARGES

Current rates declared on 26 June 2007

Current rates	\$992.45	LAST DAY TO PAY 03/09/07
Rebate/Remissions	\$0.00	
Current fines	\$5.15	
Arrears	\$0.00	
Legal Fees	\$0.00	
Property related debts	\$0.00	
NRM Levy	\$20.65	
Payments/Adjustment	\$-765.25	
TOTAL OUTSTANDING	\$253.00	

OTHER MATTERS

Legal action taken	NO
Notice issued under the Local Government Act 1999	YES RATES
Easement, Right of Way, Restricted covenant, Lien or caveat in which council has an interest	REFER TO TITLE
Pensioner Concession	NO

Please note: The above information is supplied for the purposes of Section 7 of the Land & Business (Sale and Conveyancing) Act 1994 and relates only to matters in which council has an interest.

For Chief Executive Officer

Lot 2 Park Road
VIRGINIA SA 5120

Current zoning: Horticulture West HW

Local Heritage Listing / Registered item under the Development Act NO

Heritage Listing / Registered item under the SA Heritage Act NO

Subject to a Development Consent / Conditions which continue to apply YES
See Attached Document

Plan Amendment Report submitted to Minister SEE ATTACHED SUMMARY

Has Minister prepared PAR for public consultation NO

Development Act / Public & Environmental Health Act Notices NO

There are obligations to maintain a Septic Tank System SEE BELOW IF APPLICABLE
Proclamations / Agreements SEE CERTIFICATE OF TITLE

Please note: Where Section 34 of the Building Work Contractors Act 1995 requires that building indemnity insurance be taken out in respect of certain types of domestic building work commenced after 1st May 1987, intending purchasers of this property should contact the Council's Building Section for information on whether an insurance policy exists in respect of any building erected on this land.

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For Chief Executive Officer



PLEASE TAKE NOTE: Various areas within the Council are at risk of flooding. The Council is not required by Section 7 of the *Land and Business (Sale and Conveyancing) Act 1994* to provide information in relation to whether this property is within a flood risk area or the possible extent of any flood risk as part of this Statement. Nevertheless, the Council can inform you that it has received a report by the Department for Transport, Energy & Infrastructure containing new hydrological data for the Gawler River Flood Plain area which may result in the boundaries of the flood risk area being amended. Flood mapping and modelling has been undertaken using this new hydrological data. The Floodplain Mapping Report is available at the following website:

<http://fredpedler.com/public/content/default.asp?xcid=399>

Development Applications

292/1058/2005 Garage

Date of Decision : 16-Sep-2005 Authority : Council

Continuing Condition(s)

1. Except where minor amendments may be required by other relevant Acts, or by conditions imposed by this application, the development shall be established in strict accordance with the details and plans submitted in this development application.
2. The building shall only be used for storage of vehicles and / or other domestic storage purposes. Any proposal to use the building for human habitation (ie rumpus room) or industrial or commercial purposes shall be first approved by Council.
3. No sound shall be emitted from any machinery, equipment or device or from any other source on the subject land which would contravene the Environment Protection Act 1993 and any relevant Environment Protection Policies thereunder and any legislation or policies subsequently passed or made in substitution thereof.
4. Roof stormwater to be discharged a minimum of five (5) metres away from the building. (SA Housing Code 12.2)

DEVELOPMENT PLAN AMENDMENTS SUMMARY

Pursuant to Section 24 of the Development Act 1993, several investigations are being undertaken in respect to amending Development Plan policies (e.g. land use zones) that may affect areas within the City of Playford.

As of a change to the Development Act gazetted on the 27th September 2007 all new amendments to the Development Plan will be implemented under a new Development Plan Amendment (DPA) process. However existing amendments to the Development Plan initiated before this time will be finalised under the Plan Amendment Report (PAR) process.

Investigations which have reached the stage of an agreed 'Statement of Intent' associated with either the PAR or DPA process include:

Townships and Environs PAR

A Townships and Environs PAR Statement of Intent has been agreed between Council and the Minister for Planning and Urban Development, and is currently being investigated and drafted. It affects the Townships of Virginia, Angle Vale and One Tree Hill and includes the following considerations:

- Policies to guide the future growth of townships and promote the enhancement of their identity and character;
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Minor amendments to the Angle Vale township are being considered to address anomalies, with no additional land for housing being included.

Munno Para District Centre PAR

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The PAR impacts on the following development issues:

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- Open space/landscaping, pedestrian links, car parking and signage to improve function, identity and character;

- development of public assets; and
- The relationship of Munno Para District Centre and Smithfield Township to Main North Road and Anderson Walk.

Munno Para Environs Plan Amendment Report

A PAR is currently being finalised for the area surrounding the Munno Para District Centre and will be available for public consultation in the near future.

The Study Area includes the land around the District Centre Zone, which totals 232 hectares, bounded by:

- Curtis Road to the north;
- Main North to the east;
- the southern boundary of the vacant Commonwealth Defence land; and
- Coventry Road to the west.

The study area does not include the Munno Para District Centre Zone.

The PAR will include considerations on the following issues:

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- **Elizabeth Park**
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8 May 2008

SEARCH NO: 14189



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PROPERTY ADDRESS: LOT 1 PARK ROAD, VIRGINIA SA 5120
TITLE: CT-5251/813
VALUATION NO: 2900376512
ASSESSMENT NO: 25196
OWNER: MALCOLM LEWIS NOMINEES PTY LTD AND
HARTLEY LEWIS NOMINEES PTY LTD

In response to your enquiry, I supply the following information:

PARTICULARS OF COUNCIL RATES & OTHER LAWFUL CHARGES

Current rates declared on 26 June 2007

Current rates	\$932.05	LAST DAY TO PAY 03/09/07
Rebate/Remissions	\$0.00	
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Legal Fees	\$0.00	
Property related debts	\$0.00	
NRM Levy	\$18.30	
Payments/Adjustment	\$-950.35	
TOTAL OUTSTANDING	\$0.00	

OTHER MATTERS

Legal action taken NO

Notice issued under the Local Government Act 1999 YES RATES

Easement, Right of Way, Restricted covenant, Lien or caveat in which council has an interest REFER TO TITLE

Pensioner Concession NO

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For Chief Executive Officer

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Lot 1 Park Road
VIRGINIA SA 5120

Current zoning: Horticulture West HW

Local Heritage Listing / Registered item under the Development Act NO

Heritage Listing / Registered item under the SA Heritage Act NO

Subject to a Development Consent / Conditions which continue to apply YES
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Plan Amendment Report submitted to Minister SEE ATTACHED SUMMARY

Has Minister prepared PAR for public consultation NO

Development Act / Public & Environmental Health Act Notices NO

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Flood Plain Area

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Development Applications

292/292/2003 GREENHOUSE SIGN

Date of Decision : 20-Nov-2003 Authority : Council

Continuing Condition(s)

1. The greenhouse must not be positioned closer than 3 metres to the site boundary.
2. All stormwater run-off from roofed areas, sheds and or other forms of impervious surfaces or structures shall be determined such that;
 - a) the total volume of run-off entering natural drainage lines and/or public stormwater system is not increased; and
 - b) the quality of run-off water entering natural drainage lines and/or public stormwater system is not reduced. This is achieved by
 - c) providing stormwater detention areas
 - d) separating clean and contaminated stormwater; and
 - e) incorporating stormwater storage and re-use systems.
3. The site is to be kept in an orderly condition to the satisfaction of Council.

DEVELOPMENT PLAN AMENDMENTS SUMMARY

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8 May 2008

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ADELAIDE SA 5000



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ELIZABETH
Mailing Address :
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DAVOREN PARK SA 5113
Ph 8256 0333 Fax 8256 0578

ALLOTMENT: LOT 4 SEC PT 169 DP 63928 HD OF PORT
ADELAIDE
PROPERTY ADDRESS: LOT 4 LEGOE ROAD, BUCKLAND PARK SA
5120
TITLE: CT-5916/62
VALUATION NO: 2900374541
ASSESSMENT NO: 10002113
OWNER: V S RASCHELLA NOMINEES PTY LTD

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Current fines	\$0.00	
Arrears	\$0.00	
Legal Fees	\$0.00	
Property related debts	\$0.00	
NRM Levy	\$59.70	
Payments/Adjustment	\$-1479.95	
TOTAL OUTSTANDING	\$493.00	

OTHER MATTERS

Legal action taken	NO
Notice issued under the Local Government Act 1999	YES RATES
Easement, Right of Way, Restricted covenant, Lien or caveat in which council has an interest	REFER TO TITLE
Pensioner Concession	NO

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For Chief Executive Officer

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Lot 4 Legoe Road
BUCKLAND PARK SA 5120

Current zoning: Horticulture West HW

Local Heritage Listing / Registered item under the Development Act NO

Heritage Listing / Registered item under the SA Heritage Act NO

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Plan Amendment Report submitted to Minister SEE ATTACHED SUMMARY

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Development Applications

Nil

DEVELOPMENT PLAN AMENDMENTS SUMMARY

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- Ecologically sustainable design;
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Munno Para Environs Plan Amendment Report

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The following Neighbourhood Centres will be the focus of the DPA:

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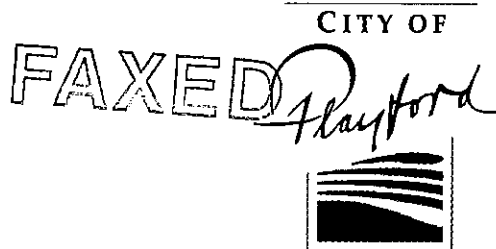
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8 May 2008

SEARCH NO: 14191

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55 Grenfell Street
ADELAIDE SA 5000



City of Playford
Civic Centre
10 Playford Boulevard
ELIZABETH
Mailing Address :
12 Bishopstone Road
DAVOREN PARK SA 5113
Ph 8256 0333 Fax 8256 0578

ALLOTMENT: LOT 1 SEC PT169 DP 63928 HD OF PORT
ADELAIDE
PROPERTY ADDRESS: LOT 1 LEGOE ROAD, BUCKLAND PARK SA
5120
TITLE: CT-5916/59
VALUATION NO: 2900377849
ASSESSMENT NO: 10002806
OWNER: MR D N TRIMBOLI AND MR D N TRIMBOLI
AND MRS M TRIMBOLI

In response to your enquiry, I supply the following information:

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Current rates declared on 26 June 2007

Current rates	\$883.00	LAST DAY TO PAY 03/09/07
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Legal Fees	\$0.00	
Property related debts	\$0.00	
NRM Levy	\$17.10	
Payments/Adjustment	\$-894.40	
TOTAL OUTSTANDING	\$225.00	

OTHER MATTERS

Legal action taken NO

Notice issued under the Local Government Act 1999 YES RATES

Easement, Right of Way, Restricted covenant, Lien or caveat in which council has an interest REFER TO TITLE

Pensioner Concession NO

Please note: The above information is supplied for the purposes of Section 7 of the Land & Business (Sale and Conveyancing) Act 1994 and relates only to matters in which council has an interest.

For Chief Executive Officer

Lot 1 Legoe Road
BUCKLAND PARK SA 5120

Current zoning: Horticulture West HW

Local Heritage Listing / Registered item under the Development Act NO

Heritage Listing / Registered item under the SA Heritage Act NO

Subject to a Development Consent / Conditions which continue to apply NO

Plan Amendment Report submitted to Minister SEE ATTACHED SUMMARY

Has Minister prepared PAR for public consultation NO

Development Act / Public & Environmental Health Act Notices NO

There are obligations to maintain a Septic Tank System SEE BELOW IF APPLICABLE

Proclamations / Agreements SEE CERTIFICATE OF TITLE

Please note: Where Section 34 of the Building Work Contractors Act 1995 requires that building indemnity insurance be taken out in respect of certain types of domestic building work commenced after 1st May 1987, intending purchasers of this property should contact the Council's Building Section for information on whether an insurance policy exists in respect of any building erected on this land.

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8 May 2008

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ALLOTMENT: LOT 134 SEC 7553 FP 162483 HD OF PORT
ADELAIDE, LOT 134 SEC 7551 FP 162483 HD
OF PORT ADELAIDE
PROPERTY ADDRESS: LOT 134 REEDY ROAD, BUCKLAND PARK
SA 5120
TITLE: CT-5755/199
VALUATION NO: 2900379000
ASSESSMENT NO: 10091
OWNER: MR M ALLOUCHE AND MR T SUKKAR AND
MR M O ALLOUCHE

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Current rates declared on 26 June 2007

Current rates	\$1,297.05	LAST DAY TO PAY 03/09/07
Rebate/Remissions	\$0.00	
Current fines	\$34.75	
Arrears	\$0.00	
Legal Fees	\$271.50	
Property related debts	\$0.00	
NRM Levy	\$34.20	
Payments/Adjustment	\$-335.25	
TOTAL OUTSTANDING	\$1302.25	

OTHER MATTERS

Legal action taken YES
Notice issued under the Local Government Act 1999 YES RATES
Easement, Right of Way, Restricted covenant, Lien or caveat in which council has an interest REFER TO TITLE
Pensioner Concession NO

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For Chief Executive Officer

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Lot 134 Reedy Road
BUCKLAND PARK SA 5120

Current zoning: Horticulture West HW

Local Heritage Listing / Registered item under the Development Act NO

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Development Applications

292/688/1991 Stables (6) Harness Shed and Shed
Date of Decision: 16-Jan-1992 Authority: Council
No Continuing Condition(s)

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TITLE: CT-5303/891
VALUATION NO: 2900378008
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For Chief Executive Officer

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Lot 267 Legoe Road
BUCKLAND PARK SA 5120

Current zoning: Horticulture West HW

Local Heritage Listing / Registered item under the Development Act NO

Heritage Listing / Registered item under the SA Heritage Act NO

Subject to a Development Consent / Conditions which continue to apply NO

Plan Amendment Report submitted to Minister SEE ATTACHED SUMMARY

Has Minister prepared PAR for public consultation NO

Development Act / Public & Environmental Health Act Notices NO

There are obligations to maintain a Septic Tank System SEE BELOW IF APPLICABLE
Proclamations / Agreements SEE CERTIFICATE OF TITLE
Flood Plain Area

Please note: Where Section 34 of the Building Work Contractors Act 1995 requires that building indemnity insurance be taken out in respect of certain types of domestic building work commenced after 1st May 1987, intending purchasers of this property should contact the Council's Building Section for information on whether an insurance policy exists in respect of any building erected on this land.

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For Chief Executive Officer



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Development Applications

Nil

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- Appropriate transport;
- Design and appearance enhancement to facilitate identity and character;
- Ecologically sensitive design;
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Munno Para District Centre PAR

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The PAR impacts on the following development issues:

- The relationship of Munno Para District Centre and Smithfield Township within the hierarchy of all centres within the City of Playford;
- How the Development Plan can assist in developing Munno Para District Centre and Smithfield Township complementary to the rezoned and redeveloped Elizabeth Regional Centre;
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- The relationship of Munno Para District Centre and Smithfield Township to Main North Road and Anderson Walk.

Munno Para Environs Plan Amendment Report

A PAR is currently being finalised for the area surrounding the Munno Para District Centre and will be available for public consultation in the near future.

The Study Area includes the land around the District Centre Zone, which totals 232 hectares, bounded by:

- Curtis Road to the north;
- Main North to the east;
- the southern boundary of the vacant Commonwealth Defence land; and
- Coventry Road to the west.

The study area does not include the Munno Para District Centre Zone.

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8 May 2008

SEARCH NO: 14185



Connell Wagner (SA) Pty Ltd
 55 Grenfell Street
 ADELAIDE SA 5000

City of Playford
 Civic Centre
 10 Playford Boulevard
 ELIZABETH
Mailing Address :
 12 Bishopstone Road
 DAVOREN PARK SA 5113
 Ph 8256 0333 Fax 8256 0578

ALLOTMENT: LOT 2 SEC PT 169 DP 63928 HD OF PORT
ADELAIDE
PROPERTY ADDRESS: LOT 2 LEGOE ROAD, BUCKLAND PARK SA
5120
TITLE: CT-5916/60
VALUATION NO: 2900377443
ASSESSMENT NO: 10002159
OWNER: MR D N TRIMBOLI AND MR D N TRIMBOLI
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Current rates declared on 26 June 2007

Current rates	\$1,547.35	LAST DAY TO PAY 03/09/07
Rebate/Remissions	\$0.00	
Current fines	\$15.90	
Arrears	\$396.30	
Legal Fees	\$0.00	
Property related debts	\$0.00	
NRM Levy	\$44.55	
Payments/Adjustment	\$-1607.05	
TOTAL OUTSTANDING	\$397.05	

OTHER MATTERS

Legal action taken NO

Notice issued under the Local Government Act 1999 YES RATES

Easement, Right of Way, Restricted covenant, Lien
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Pensioner Concession NO

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For Chief Executive Officer

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Development Applications

292/1949/2004 Garage

Date of Decision : 23-Nov-2004 Authority : Council

Continuing Condition(s)

1. Except where minor amendments may be required by other relevant Acts, or by conditions imposed by this application, the development shall be established in strict accordance with the details and plans submitted in this development application.
2. The building shall only be used for storage of vehicles and / or other domestic storage purposes. Any proposal to use the building for human habitation (ie rumpus room) or industrial or commercial purposes shall be first approved by Council.
3. Roof stormwater to be discharged a minimum of five (5) metres away from the building. (SA Housing Code 12.2)

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OWNER: MR D N TRIMBOLI AND MR D N TRIMBOLI
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NRM Levy	\$19.90	
Payments/Adjustment	\$-971.35	
TOTAL OUTSTANDING	\$242.00	

OTHER MATTERS

Legal action taken	NO
Notice issued under the Local Government Act 1999	YES RATES
Easement, Right of Way, Restricted covenant, Lien or caveat in which council has an interest	REFER TO TITLE
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8 May 2008

SEARCH NO: 14198

Connell Wagner (SA) Pty Ltd
55 Grenfell Street
ADELAIDE SA 5000



City of Playford
Civic Centre
10 Playford Boulevard
ELIZABETH
Mailing Address :
12 Bishopstone Road
DAVOREN PARK SA 5113
Ph 8256 0333 Fax 8256 0578

ALLOTMENT: LOT 1 SEC 171 DP 60145 HD OF PORT
ADELAIDE
PROPERTY ADDRESS: LOT 1 LEGOE ROAD, BUCKLAND PARK SA
5120
TITLE: CT-5883/977
VALUATION NO: 2900381805
ASSESSMENT NO: 117463
OWNER: MRS D AZZURRO AND MR F AZZURRO

In response to your enquiry, I supply the following information:

PARTICULARS OF COUNCIL RATES & OTHER LAWFUL CHARGES

Current rates declared on 26 June 2007

Current rates	\$921.50	LAST DAY TO PAY 03/09/07
Rebate/Remissions	\$0.00	
Current fines	\$0.00	
Arrears	\$0.00	
Legal Fees	\$0.00	
Property related debts	\$0.00	
NRM Levy	\$18.70	
Payments/Adjustment	\$-940.20	
TOTAL OUTSTANDING	\$0.00	

OTHER MATTERS

Legal action taken	NO
Notice issued under the Local Government Act 1999	YES RATES
Easement, Right of Way, Restricted covenant, Lien or caveat in which council has an interest	REFER TO TITLE
Pensioner Concession	NO

Please note: The above information is supplied for the purposes of Section 7 of the Land & Business (Sale and Conveyancing) Act 1994 and relates only to matters in which council has an interest.

For Chief Executive Officer

Lot 1 Legoe Road
BUCKLAND PARK SA 5120

Current zoning: Horticulture West HW

Local Heritage Listing / Registered item under the Development Act NO

Heritage Listing / Registered item under the SA Heritage Act NO

Subject to a Development Consent / Conditions which continue to apply NO

Plan Amendment Report submitted to Minister SEE ATTACHED SUMMARY

Has Minister prepared PAR for public consultation NO

Development Act / Public & Environmental Health Act Notices NO

There are obligations to maintain a Septic Tank System SEE BELOW IF APPLICABLE
Proclamations / Agreements SEE CERTIFICATE OF TITLE

Please note: Where Section 34 of the Building Work Contractors Act 1995 requires that building indemnity insurance be taken out in respect of certain types of domestic building work commenced after 1st May 1987, intending purchasers of this property should contact the Council's Building Section for information on whether an insurance policy exists in respect of any building erected on this land.

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For Chief Executive Officer



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Development Applications

Nil

DEVELOPMENT PLAN AMENDMENTS SUMMARY

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A Townships and Environs PAR Statement of Intent has been agreed between Council and the Minister for Planning and Urban Development, and is currently being investigated and drafted. It affects the Townships of Virginia, Angle Vale and One Tree Hill and includes the following considerations:

- Policies to guide the future growth of townships and promote the enhancement of their identity and character;
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- How horticultural retail impacts on existing centres and value adding to horticultural production;
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- Tourist accommodation;
- Appropriate transport;
- Design and appearance enhancement to facilitate identity and character;
- Ecologically sensitive design;
- Arts and culture;
- Infrastructure provision; and
- Sustainable growth to facilitate regeneration of surrounding areas.

Minor amendments to the Angle Vale township are being considered to address anomalies, with no additional land for housing being included.

Munno Para District Centre PAR

A Munno Para District Centre PAR has been prepared by Council and has undertaken public consultation from 25th January 2006 to 27th March 2006. A revised PAR, as a result of consultation, has been approved by Council and is now with the Minister for Urban Development and Planning for consideration.

The PAR impacts on the following development issues:

- The relationship of Munno Para District Centre and Smithfield Township within the hierarchy of all centres within the City of Playford;
- How the Development Plan can assist in developing Munno Para District Centre and Smithfield Township complementary to the rezoned and redeveloped Elizabeth Regional Centre;
- Design and land use policies to promote appropriate activities and facilitate complementary opportunities;
- Integration of centres with transport infrastructure, especially the Smithfield Train Station and other public transport facilities;
- Appropriate shopping, community facilities and mixed land uses and development to meet the needs of the community and the District Centre role;
- Ecologically sustainable design;
- Arts and cultural expression to reflect community values;
- The possibility for higher density housing in proximity to the centre;
- Infrastructure provision, including storm water and bandwidth;
- Open space/landscaping, pedestrian links, car parking and signage to improve function, identity and character;

- development of public assets; and
- The relationship of Munno Para District Centre and Smithfield Township to Main North Road and Anderson Walk.

Munno Para Environs Plan Amendment Report

A PAR is currently being finalised for the area surrounding the Munno Para District Centre and will be available for public consultation in the near future.

The Study Area includes the land around the District Centre Zone, which totals 232 hectares, bounded by:

- Curtis Road to the north;
- Main North to the east;
- the southern boundary of the vacant Commonwealth Defence land; and
- Coventry Road to the west.

The study area does not include the Munno Para District Centre Zone.

The PAR will include considerations on the following issues:

- Integration of the locality with transport infrastructure, especially the Smithfield Train Station and other public transport facilities;
- Appropriate land uses and development to meet the needs of the community and the District Centre role based on appropriate performance criteria;
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- Improving connections and relationships to Smithfield Township and Train Station;
- Reinforcing a desired future character for Anderson Walk and the Smithfield township;
- Improving land use mix, function and amenity around the District Centre through the inclusion of performance criteria;
- Improvement of transportation movement (especially heavy vehicles), including gateway identification and appropriate buffers; and
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The investigations will ensure:

- the DPA identifies how all included Desired Character Statements have been derived from the existing text or Objectives/Principles of Development Control of the current Development Plan.

- the DPA identifies the existing policy that forms the basis of all included 'local addition' Objectives/Principles of Development Control.
- the policy referred to as 'local additions' does not undertake or encompass new policy directions.
- all appropriate BDP modules covering the range of issues and land uses pertinent to the council area are taken up and included as the policy core of the new Development Plan.
- the DPA identifies all locally relevant Ministerial policy not directly addressed by the BDP module policy and demonstrates its continued inclusion in the new BDP Development Plan.

Neighbourhood Centres Development Plan Amendment

The 2003 City of Playford Development Plan Review identified Centres as a high development policy priority. It included recommendations identifying the need to consider:

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- The role and hierarchy of centres;
- Integration with transport infrastructure, especially public transport;
- Shopping and community facilities;
- Higher density housing adjacent centres;
- Design and appearance enhancement including landscaping and maintenance of properties, to facilitate identity and character;
- Ecologically sustainable design;
- Arts and culture;
- Infrastructure provision; and
- Sustainable growth to facilitate regeneration of surrounding areas.

The primary aim of the Neighbourhood Activity Centres DPA is to review the appropriateness of the nominated centres and identify opportunities for improvement and rationalisation. This process includes investigating the potential for the accommodation of mixed use development which is considered one way of reversing the decline in viability and vibrancy of the centres.

A Neighbourhood Activity Centres DPA Statement of Intent has been prepared and is currently with the Minister for Planning and Urban Development for his consideration.

The following Neighbourhood Centres will be the focus of the DPA:

- **Elizabeth Park**
- **Elizabeth Grove**
- **Elizabeth Downs**
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8 May 2008

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PROPERTY ADDRESS: LOT 5 LEGOE ROAD, BUCKLAND PARK SA
5120
TITLE: CT-5864/500
VALUATION NO: 2900373960
ASSESSMENT NO: 113809
OWNER: MR T CHAO AND MR M KONG AND MR E
CHAN AND MR C YAU AND MR C Y EANG
AND MR S CHAN

In response to your enquiry, I supply the following information:

PARTICULARS OF COUNCIL RATES & OTHER LAWFUL CHARGES

Current rates declared on 26 June 2007

Current rates	\$931.15	LAST DAY TO PAY 03/09/07
Rebate/Remissions	\$0.00	
Current fines	\$0.00	
Arrears	\$0.00	
Legal Fees	\$0.00	
Property related debts	\$0.00	
NRM Levy	\$19.10	
Payments/Adjustment	-\$950.25	
TOTAL OUTSTANDING	\$0.00	

OTHER MATTERS

Legal action taken NO

Notice issued under the Local Government Act 1999 YES RATES

Easement, Right of Way, Restricted covenant, Lien or caveat in which council has an interest REFER TO TITLE

Pensioner Concession NO

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For Chief Executive Officer

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Lot 5 Legoe Road
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Current zoning: Horticulture West HW

Local Heritage Listing / Registered item under the Development Act NO

Heritage Listing / Registered item under the SA Heritage Act NO

Subject to a Development Consent / Conditions which continue to apply YES
See Attached Document

Plan Amendment Report submitted to Minister SEE ATTACHED SUMMARY

Has Minister prepared PAR for public consultation NO

Development Act / Public & Environmental Health Act Notices NO

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Development Applications

292/1547/2006 Storage Shed

Date of Decision : 19-Oct-2006 Authority : Council

Continuing Condition(s)

1. Except where minor amendments may be required by other relevant Acts, or by conditions imposed by this application, the development shall be established in strict accordance with the details and plans submitted in this development application.
2. Roof stormwater is to be discharged a minimum of five (5) metres away from the building (F1.1 of BCA).
3. The finished floor level shall be a minimum of 5.55m AHD.

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8 May 2008

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PROPERTY ADDRESS: LOT 4 LEGOE ROAD, BUCKLAND PARK SA
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TITLE: CT-5864/501
VALUATION NO: 2900373944
ASSESSMENT NO: 113808
OWNER: CITY OF PLAYFORD

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NRM Levy	\$0.00	
Payments/Adjustment	\$0.00	
TOTAL OUTSTANDING	\$0.00	

**OTHER MATTERS THIS PROPERTY IS CURRENTLY NON-RATEABLE AS IT IS
COUNCIL OWNED BUT UPON SALE THIS WILL NO LONGER APPLY**

Legal action taken	NO
Notice issued under the Local Government Act 1999	YES RATES
Easement, Right of Way, Restricted covenant, Lien or caveat in which council has an interest	REFER TO TITLE
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For Chief Executive Officer

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FAXED

CITY OF

Playford



8 May 2008

SEARCH NO: 14201

Connell Wagner (SA) Pty Ltd
55 Grenfell Street
ADELAIDE SA 5000

City of Playford
Civic Centre
10 Playford Boulevard
ELIZABETH
Mailing Address :
12 Bishopstone Road
DAVOREN PARK SA 5113
Ph 8256 0333 Fax 8256 0578

ALLOTMENT:	PART LOT 1 SEC 172 DP 58107 HD OF PORT ADELAIDE, PART LOT 2 SEC 172 DP 58107 HD OF PORT ADELAIDE, PART LOT 3 SEC 172 DP 58107 HD OF PORT ADELAIDE
PROPERTY ADDRESS:	PART LOT 1 BROOKS ROAD, BUCKLAND PARK SA 5120
TITLE:	CT-5864/499
VALUATION NO:	2900373928
ASSESSMENT NO:	113810
OWNER:	MR V H TRUONG AND N TRAN

In response to your enquiry, I supply the following information:

PARTICULARS OF COUNCIL RATES & OTHER LAWFUL CHARGES

Current rates declared on 26 June 2007

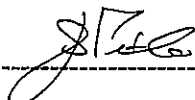
Current rates	\$873.35	LAST DAY TO PAY 03/09/07
Rebate/Remissions	\$0.00	
Current fines	\$0.00	
Arrears	\$0.00	
Legal Fees	\$0.00	
Property related debts	\$0.00	
NRM Levy	\$16.70	
Payments/Adjustment	\$-668.05	
TOTAL OUTSTANDING	\$222.00	

OTHER MATTERS

Legal action taken	NO
Notice issued under the Local Government Act 1999	YES RATES
Easement, Right of Way, Restricted covenant, Lien or caveat in which council has an interest	REFER TO TITLE
Pensioner Concession	NO

Please note: The above information is supplied for the purposes of Section 7 of the Land & Business (Sale and Conveyancing) Act 1994 and relates only to matters in which council has an interest.

For Chief Executive Officer



Part Lot 1 Brooks Road
BUCKLAND PARK SA 5120

Current zoning: Horticulture West HW

Local Heritage Listing / Registered item under the Development Act NO

Heritage Listing / Registered item under the SA Heritage Act NO

Subject to a Development Consent / Conditions which continue to apply NO

Plan Amendment Report submitted to Minister SEE ATTACHED
SUMMARY

Has Minister prepared PAR for public consultation NO

Development Act / Public & Environmental Health Act Notices NO


There are obligations to maintain a Septic Tank System SEE BELOW IF
APPLICABLE
Proclamations / Agreements SEE CERTIFICATE
OF TITLE

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For Chief Executive Officer



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<http://fredpedler.com/public/content/default.asp?xcid=399>

Development Applications

Nil

DEVELOPMENT PLAN AMENDMENTS SUMMARY

Pursuant to Section 24 of the Development Act 1993, several investigations are being undertaken in respect to amending Development Plan policies (e.g. land use zones) that may affect areas within the City of Playford.

As of a change to the Development Act gazetted on the 27th September 2007 all new amendments to the Development Plan will be implemented under a new Development Plan Amendment (DPA) process. However existing amendments to the Development Plan initiated before this time will be finalised under the Plan Amendment Report (PAR) process.

Investigations which have reached the stage of an agreed 'Statement of Intent' associated with either the PAR or DPA process include:

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A Townships and Environs PAR Statement of Intent has been agreed between Council and the Minister for Planning and Urban Development, and is currently being investigated and drafted. It affects the Townships of Virginia, Angle Vale and One Tree Hill and includes the following considerations:

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Munno Para District Centre PAR

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The PAR impacts on the following development issues:

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- Infrastructure provision, including storm water and bandwidth;
- Open space/landscaping, pedestrian links, car parking and signage to improve function, identity and character;

- development of public assets; and
- The relationship of Munno Para District Centre and Smithfield Township to Main North Road and Anderson Walk.

Munno Para Environs Plan Amendment Report

A PAR is currently being finalised for the area surrounding the Munno Para District Centre and will be available for public consultation in the near future.

The Study Area includes the land around the District Centre Zone, which totals 232 hectares, bounded by:

- Curtis Road to the north;
- Main North to the east;
- the southern boundary of the vacant Commonwealth Defence land; and
- Coventry Road to the west.

The study area does not include the Munno Para District Centre Zone.

The PAR will include considerations on the following issues:

- Integration of the locality with transport infrastructure, especially the Smithfield Train Station and other public transport facilities;
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- Improving land use mix, function and amenity around the District Centre through the inclusion of performance criteria;
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8 May 2008

SEARCH NO: 14203

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55 Grenfell Street
ADELAIDE SA 5000



City of Playford
Civic Centre
10 Playford Boulevard
ELIZABETH
Mailing Address :
12 Bishopstone Road
DAVOREN PARK SA 5113
Ph 8256 0333 Fax 8256 0578

ALLOTMENT: SEC 504 H 105800 HD OF PORT ADELAIDE
PROPERTY ADDRESS: PARK ROAD, BUCKLAND PARK SA 5120
TITLE: CR-5760/605
VALUATION NO: 2900370006
ASSESSMENT NO: 10399
OWNER: THE CROWN

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PARTICULARS OF COUNCIL RATES & OTHER LAWFUL CHARGES

Current rates declared on 26 June 2007

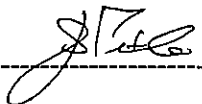
Current rates	\$0.00	LAST DAY TO PAY 03/09/07
Rebate/Remissions	\$0.00	
Current fines	\$0.00	
Arrears	\$0.00	
Legal Fees	\$0.00	
Property related debts	\$0.00	
NRM Levy	\$0.00	
Payments/Adjustment	\$0.00	
TOTAL OUTSTANDING	\$0.00	

OTHER MATTERS THIS PROPERTY IS CURRENTLY NON-RATEABLE AS OWNED BY THE CROWN BUT UPON SALE THIS WILL NOT APPLY

Legal action taken	NO
Notice issued under the Local Government Act 1999	YES RATES
Easement, Right of Way, Restricted covenant, Lien or caveat in which council has an interest	REFER TO TITLE
Pensioner Concession	NO

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For Chief Executive Officer



Park Road
BUCKLAND PARK SA 5120

Current zoning: Horticulture West HW

Local Heritage Listing / Registered item under the Development Act NO

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Subject to a Development Consent / Conditions which continue to apply NO

Plan Amendment Report submitted to Minister SEE ATTACHED SUMMARY

Has Minister prepared PAR for public consultation NO

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8 May 2008

SEARCH NO: 14204

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ADELAIDE SA 5000



City of Playford
Civic Centre
10 Playford Boulevard
ELIZABETH
Mailing Address :
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DAVOREN PARK SA 5113
Ph 8256 0333 Fax 8256 0578

ALLOTMENT: LOT 5 SEC 166 FP 16853 HD OF PORT
ADELAIDE
PROPERTY ADDRESS: LOT 5 BROOKS ROAD, BUCKLAND PARK
SA 5120
TITLE: CT-5447/579
VALUATION NO: 2900334136
ASSESSMENT NO: 114715
OWNER: MR P S KING AND MS C B CHEW

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NRM Levy	\$25.45	
Payments/Adjustment	\$-556.65	
TOTAL OUTSTANDING	\$564.15	

OTHER MATTERS

Legal action taken	NO
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Pensioner Concession	NO

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For Chief Executive Officer

A handwritten signature in black ink, appearing to be 'J. King', is written over a horizontal dashed line.

Lot 5 Brooks Road
BUCKLAND PARK SA 5120

Current zoning: Horticulture West HW

Local Heritage Listing / Registered item under the Development Act NO

Heritage Listing / Registered item under the SA Heritage Act NO

Subject to a Development Consent / Conditions which continue to apply YES
See Attached Document

Plan Amendment Report submitted to Minister SEE ATTACHED SUMMARY

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Development Applications

292/1557/2005 Dwelling

Date of Decision : 15-Dec-2005 Authority : Council

Continuing Condition(s)

1. Except where minor amendments may be required by other relevant Acts, or by conditions imposed by this application, the development shall be established in strict accordance with the details and plans submitted in this development application.
2. The applicant shall, within a period of 3 months of construction of the building, enclose the base thereof with brick or other suitable material to Council's satisfaction so as to improve the external appearance of the building and prevent the entry of vermin.
3. The builder shall at all times provide and maintain a waste receptacle to the reasonable satisfaction of Council on the site in which and at all times all builders waste shall be contained for the duration of the dwelling's construction and such receptacle shall be emptied as required and removed upon completion to licensed waste disposal depot.
4. The site is to be kept in an orderly condition to the satisfaction of Council.
5. The filling shall be placed as controlled filling in accordance with AS 2870 – 1996 Residential slabs and footings and AS 3798 and be certified by a qualified engineer and brought up to a level of 4.9m AHD.
6. Roof stormwater to be discharged a minimum of five (5) metres away from the building. (SA Housing Code 12.2)

CERTIFICATE OF INSURANCE DETAILS

CERTIFICATE NO.:	1222/2003
IN FAVOUR OF:	P King & C Chew
IN RESPECT OF:	Dwelling
AT:	Lot 5 Brooks Road, BUCKLAND PARK SA 5120
TO BE CARRIED OUT BY:	Summerplace Holdings Pty Ltd
BUILDER'S LICENCE NO.:	Dwelling
DATE:	05-Dec-2005
TYPE OF COVER:	Statutory
INSURER:	Vero Insurance Ltd

AW/73/2005 Aerobic Wastewater Treatment System

Date of Decision : 28-Jun-2006 Authority : Council

Continuing Condition(s)

Septic/Aerobic Conditions:

Where it is not practical to terminate the top of the septic tank at surface level it will be necessary to provide access shafts fitted with access covers and an inspection opening finishing at surface level.

The shafts shall be effectively sealed to prevent the ingress or egress of water or gas.

The access cover shall be fixed with non ferrous child proof fixings and shall be gas and water tight and removable for maintenance.

All under floor plumbing shall be inspected prior to back fill by the independent technical expert. A copy of the certificate of inspection shall be provided to Council prior to operation of plumbing.

The aerobic waste water system shall be inspected prior to back fill of the system by the independent technical expert. A copy of the certificate of inspection shall be provided to Council prior to operation of the system.

Effluent disposal area and aerobic waste water treatment systems shall not be located under or next to vehicular traffic areas.

The septic tank should be pumped out every 4 years to remove sludge. This must be carried out by a licensed waste disposal contractor.

DEVELOPMENT PLAN AMENDMENTS SUMMARY

Pursuant to Section 24 of the Development Act 1993, several investigations are being undertaken in respect to amending Development Plan policies (e.g. land use zones) that may affect areas within the City of Playford.

As of a change to the Development Act gazetted on the 27th September 2007 all new amendments to the Development Plan will be implemented under a new Development Plan Amendment (DPA) process. However existing amendments to the Development Plan initiated before this time will be finalised under the Plan Amendment Report (PAR) process.

Investigations which have reached the stage of an agreed 'Statement of Intent' associated with either the PAR or DPA process include:

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- Policies to guide the future growth of townships and promote the enhancement of their identity and character;
- The role of townships;
- Retail activity in nearby horticultural areas;
- How horticultural retail impacts on existing centres and value adding to horticultural production;
- Encourage the appropriate development of cellar door sales, restaurants and wineries;
- Tourist accommodation;
- Appropriate transport;
- Design and appearance enhancement to facilitate identity and character;
- Ecologically sensitive design;
- Arts and culture;
- Infrastructure provision; and
- Sustainable growth to facilitate regeneration of surrounding areas.

Minor amendments to the Angle Vale township are being considered to address anomalies, with no additional land for housing being included.

Munno Para District Centre PAR

A Munno Para District Centre PAR has been prepared by Council and has undertaken public consultation from 25th January 2006 to 27th March 2006. A revised PAR, as a result of consultation, has been approved by Council and is now with the Minister for Urban Development and Planning for consideration.

The PAR impacts on the following development issues:

- The relationship of Munno Para District Centre and Smithfield Township within the hierarchy of all centres within the City of Playford;
- How the Development Plan can assist in developing Munno Para District Centre and Smithfield Township complementary to the rezoned and redeveloped Elizabeth Regional Centre;
- Design and land use policies to promote appropriate activities and facilitate complementary opportunities;
- Integration of centres with transport infrastructure, especially the Smithfield Train Station and other public transport facilities;
- Appropriate shopping, community facilities and mixed land uses and development to meet the needs of the community and the District Centre role;
- Ecologically sustainable design;
- Arts and cultural expression to reflect community values;
- The possibility for higher density housing in proximity to the centre;
- Infrastructure provision, including storm water and bandwidth;
- Open space/landscaping, pedestrian links, car parking and signage to improve function, identity and character;

- development of public assets; and
- The relationship of Munno Para District Centre and Smithfield Township to Main North Road and Anderson Walk.

Munno Para Environs Plan Amendment Report

A PAR is currently being finalised for the area surrounding the Munno Para District Centre and will be available for public consultation in the near future.

The Study Area includes the land around the District Centre Zone, which totals 232 hectares, bounded by:

- Curtis Road to the north;
- Main North to the east;
- the southern boundary of the vacant Commonwealth Defence land; and
- Coventry Road to the west.

The study area does not include the Munno Para District Centre Zone.

The PAR will include considerations on the following issues:

- Integration of the locality with transport infrastructure, especially the Smithfield Train Station and other public transport facilities;
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- Site contamination and noise impact considerations; and
- Development of public assets.

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- Increased medium density residential development opportunities in the immediate locality;
- Improving connections and relationships to Smithfield Township and Train Station;
- Reinforcing a desired future character for Anderson Walk and the Smithfield township;
- Improving land use mix, function and amenity around the District Centre through the inclusion of performance criteria;
- Improvement of transportation movement (especially heavy vehicles), including gateway identification and appropriate buffers; and
- Incorporating and defining the Smith Creek open space network.

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- the DPA identifies the existing policy that forms the basis of all included 'local addition' Objectives/Principles of Development Control.
- the policy referred to as 'local additions' does not undertake or encompass new policy directions.
- all appropriate BDP modules covering the range of issues and land uses pertinent to the council area are taken up and included as the policy core of the new Development Plan.
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Neighbourhood Centres Development Plan Amendment

The 2003 City of Playford Development Plan Review identified Centres as a high development policy priority. It included recommendations identifying the need to consider:

- **How the Development Plan can assist in redevelopment, including design and land use issues to promote complementary facilities;**
- The role and hierarchy of centres;
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- Shopping and community facilities;
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The primary aim of the Neighbourhood Activity Centres DPA is to review the appropriateness of the nominated centres and identify opportunities for improvement and rationalisation. This process includes investigating the potential for the accommodation of mixed use development which is considered one way of reversing the decline in viability and vibrancy of the centres.

A Neighbourhood Activity Centres DPA Statement of Intent has been prepared and is currently with the Minister for Planning and Urban Development for his consideration.

The following Neighbourhood Centres will be the focus of the DPA:

- **Elizabeth Park**
- **Elizabeth Grove**
- **Elizabeth Downs**
- **Elizabeth South**
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Andrews Farm Local Centre was also reviewed as part of the project, considering an immediate need to support development in the area.

Investigations into the neighbourhood centres in the process of preparing the DPA are underway and will be considered by Council in the second half of 2008.

If you have any queries regarding any of the above Plan Amendment Reports, please contact Stephen Yarwood, Principal Policy Planner on 8256 0345 (direct).

8 May 2008

SEARCH NO: 14205

Connell Wagner (SA) Pty Ltd
55 Grenfell Street
ADELAIDE SA 5000



City of Playford
Civic Centre
10 Playford Boulevard
ELIZABETH
Mailing Address :
12 Bishopstone Road
DAVOREN PARK SA 5113
Ph 8256 0333 Fax 8256 0578

ALLOTMENT: LOT 4 SEC 158 FP 16853 HD OF PORT
ADELAIDE
PROPERTY ADDRESS: LOT 4 BROOKS ROAD, BUCKLAND PARK
SA 5120
TITLE: CT-5447/581
VALUATION NO: 2900334152
ASSESSMENT NO: 119918
OWNER: MR T T Q LE AND MS C N NGUYEN

In response to your enquiry, I supply the following information:

PARTICULARS OF COUNCIL RATES & OTHER LAWFUL CHARGES

Current rates declared on 26 June 2007

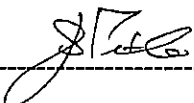
Current rates	\$969.65	LAST DAY TO PAY 03/09/07
Rebate/Remissions	\$0.00	
Current fines	\$0.00	
Arrears	\$0.00	
Legal Fees	\$0.00	
Property related debts	\$0.00	
NRM Levy	\$20.65	
Payments/Adjustment	\$-743.30	
TOTAL OUTSTANDING	\$247.00	

OTHER MATTERS

Legal action taken	NO
Notice issued under the Local Government Act 1999	YES RATES
Easement, Right of Way, Restricted covenant, Lien or caveat in which council has an interest	REFER TO TITLE
Pensioner Concession	NO

Please note: The above information is supplied for the purposes of Section 7 of the Land & Business (Sale and Conveyancing) Act 1994 and relates only to matters in which council has an interest.

For Chief Executive Officer



Lot 4 Brooks Road
BUCKLAND PARK SA 5120

Current zoning: Horticulture West HW

Local Heritage Listing / Registered item under the Development Act NO

Heritage Listing / Registered item under the SA Heritage Act NO

Subject to a Development Consent / Conditions which continue to apply NO

Plan Amendment Report submitted to Minister SEE ATTACHED
SUMMARY

Has Minister prepared PAR for public consultation NO

Development Act / Public & Environmental Health Act Notices NO


There are obligations to maintain a Septic Tank System SEE BELOW IF
APPLICABLE
Proclamations / Agreements SEE CERTIFICATE
OF TITLE

Please note: Where Section 34 of the Building Work Contractors Act 1995 requires that building indemnity insurance be taken out in respect of certain types of domestic building work commenced after 1st May 1987, intending purchasers of this property should contact the Council's Building Section for information on whether an insurance policy exists in respect of any building erected on this land.

You should contact the S A Housing Trust, Riverside Centre, North Tce, Adelaide 5000 for information regarding Housing Improvement Act 1940 notices.

You should contact the Adelaide & Mount Lofty Ranges Natural Resource Management, 205 Greenhill Road, Eastwood 5063 for information regarding the Animal and Plant Control Act 1986. Ph. 8273 9100

For Chief Executive Officer



PLEASE TAKE NOTE: Various areas within the Council are at risk of flooding. The Council is not required by Section 7 of the *Land and Business (Sale and Conveyancing) Act 1994* to provide information in relation to whether this property is within a flood risk area or the possible extent of any flood risk as part of this Statement. Nevertheless, the Council can inform you that it has received a report by the Department for Transport, Energy & Infrastructure containing new hydrological data for the Gawler River Flood Plain area which may result in the boundaries of the flood risk area being amended. Flood mapping and modelling has been undertaken using this new hydrological data. The Floodplain Mapping Report is available at the following website:

<http://fredpedler.com/public/content/default.asp?xcid=399>

Development Applications

Nil

DEVELOPMENT PLAN AMENDMENTS SUMMARY

Pursuant to Section 24 of the Development Act 1993, several investigations are being undertaken in respect to amending Development Plan policies (e.g. land use zones) that may affect areas within the City of Playford.

As of a change to the Development Act gazetted on the 27th September 2007 all new amendments to the Development Plan will be implemented under a new Development Plan Amendment (DPA) process. However existing amendments to the Development Plan initiated before this time will be finalised under the Plan Amendment Report (PAR) process.

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A Townships and Environs PAR Statement of Intent has been agreed between Council and the Minister for Planning and Urban Development, and is currently being investigated and drafted. It affects the Townships of Virginia, Angle Vale and One Tree Hill and includes the following considerations:

- Policies to guide the future growth of townships and promote the enhancement of their identity and character;
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- Tourist accommodation;
- Appropriate transport;
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- Ecologically sensitive design;
- Arts and culture;
- Infrastructure provision; and
- Sustainable growth to facilitate regeneration of surrounding areas.

Minor amendments to the Angle Vale township are being considered to address anomalies, with no additional land for housing being included.

Munno Para District Centre PAR

A Munno Para District Centre PAR has been prepared by Council and has undertaken public consultation from 25th January 2006 to 27th March 2006. A revised PAR, as a result of consultation, has been approved by Council and is now with the Minister for Urban Development and Planning for consideration.

The PAR impacts on the following development issues:

- The relationship of Munno Para District Centre and Smithfield Township within the hierarchy of all centres within the City of Playford;
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- development of public assets; and
- The relationship of Munno Para District Centre and Smithfield Township to Main North Road and Anderson Walk.

Munno Para Environs Plan Amendment Report

A PAR is currently being finalised for the area surrounding the Munno Para District Centre and will be available for public consultation in the near future.

The Study Area includes the land around the District Centre Zone, which totals 232 hectares, bounded by:

- Curtis Road to the north;
- Main North to the east;
- the southern boundary of the vacant Commonwealth Defence land; and
- Coventry Road to the west.

The study area does not include the Munno Para District Centre Zone.

The PAR will include considerations on the following issues:

- Integration of the locality with transport infrastructure, especially the Smithfield Train Station and other public transport facilities;
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- Infrastructure provision; and
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A Neighbourhood Activity Centres DPA Statement of Intent has been prepared and is currently with the Minister for Planning and Urban Development for his consideration.

The following Neighbourhood Centres will be the focus of the DPA:

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- **Elizabeth Grove**
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Investigations into the neighbourhood centres in the process of preparing the DPA are underway and will be considered by Council in the second half of 2008.

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8 May 2008

SEARCH NO: 14206

Connell Wagner (SA) Pty Ltd
55 Grenfell Street
ADELAIDE SA 5000



City of Playford
Civic Centre
10 Playford Boulevard
ELIZABETH
Mailing Address :
12 Bishopstone Road
DAVOREN PARK SA 5113
Ph 8256 0333 Fax 8256 0578

ALLOTMENT: LOT 6 SEC 252 FP 16853 HD OF PORT
PROPERTY ADDRESS: ADELAIDE
LOT 6 THOMPSON ROAD, BUCKLAND PARK
SA 5120
TITLE: CT-5447/585
VALUATION NO: 2900334179
ASSESSMENT NO: 115913
OWNER: MR M J M MAYBANK

In response to your enquiry, I supply the following information:

PARTICULARS OF COUNCIL RATES & OTHER LAWFUL CHARGES

Current rates declared on 26 June 2007

Current rates	\$844.50	LAST DAY TO PAY 03/09/07
Rebate/Remissions	\$0.00	
Current fines	\$4.30	
Arrears	\$0.00	
Legal Fees	\$0.00	
Property related debts	\$0.00	
NRM Levy	\$15.50	
Payments/Adjustment	\$-860.00	
TOTAL OUTSTANDING	\$4.30	

OTHER MATTERS

Legal action taken NO

Notice issued under the Local Government Act 1999 YES RATES

Easement, Right of Way, Restricted covenant, Lien or caveat in which council has an interest REFER TO TITLE

Pensioner Concession NO

Please note: The above information is supplied for the purposes of Section 7 of the Land & Business (Sale and Conveyancing) Act 1994 and relates only to matters in which council has an interest.

For Chief Executive Officer

Lot 6 Thompson Road
BUCKLAND PARK SA 5120

Current zoning: Horticulture West HW

Local Heritage Listing / Registered item under the Development Act NO

Heritage Listing / Registered item under the SA Heritage Act NO

Subject to a Development Consent / Conditions which continue to apply NO

Plan Amendment Report submitted to Minister SEE ATTACHED
SUMMARY

Has Minister prepared PAR for public consultation NO

Development Act / Public & Environmental Health Act Notices NO


There are obligations to maintain a Septic Tank System SEE BELOW IF
APPLICABLE
Proclamations / Agreements SEE CERTIFICATE
Flood Plain Area OF TITLE

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8 May 2008

SEARCH NO: 14207

Connell Wagner (SA) Pty Ltd
55 Grenfell Street
ADELAIDE SA 5000



City of Playford
Civic Centre
10 Playford Boulevard
ELIZABETH
Mailing Address :
12 Bishopstone Road
DAVOREN PARK SA 5113
Ph 8256 0333 Fax 8256 0578

ALLOTMENT: SEC 173 H 105800 HD OF PORT ADELAIDE,
SEC 503 H 105800 HD OF PORT ADELAIDE
PROPERTY ADDRESS: LEGOE ROAD, BUCKLAND PARK SA 5120
TITLE: CT-5909/379, CT-5909/380
VALUATION NO: 2900373856
ASSESSMENT NO: 105552
OWNER: HYDROPONICS FARM PTY LTD

In response to your enquiry, I supply the following information:

PARTICULARS OF COUNCIL RATES & OTHER LAWFUL CHARGES

Current rates declared on 26 June 2007

Current rates	\$1,220.00	LAST DAY TO PAY 03/09/07
Rebate/Remissions	\$0.00	
Current fines	\$0.00	
Arrears	\$0.00	
Legal Fees	\$0.00	
Property related debts	\$0.00	
NRM Levy	\$31.00	
Payments/Adjustment	\$-939.00	
TOTAL OUTSTANDING	\$312.00	

OTHER MATTERS

Legal action taken	NO
Notice issued under the Local Government Act 1999	YES RATES
Easement, Right of Way, Restricted covenant, Lien or caveat in which council has an interest	REFER TO TITLE
Pensioner Concession	NO

Please note: The above information is supplied for the purposes of Section 7 of the Land & Business (Sale and Conveyancing) Act 1994 and relates only to matters in which council has an interest.

For Chief Executive Officer

A handwritten signature in black ink, appearing to be 'J. T. ...', is written over a horizontal dashed line.

Legoe Road
BUCKLAND PARK SA 5120

Current zoning: Horticulture West HW

Local Heritage Listing / Registered item under the Development Act NO

Heritage Listing / Registered item under the SA Heritage Act NO

Subject to a Development Consent / Conditions which continue to apply YES
See Attached Document

Plan Amendment Report submitted to Minister SEE ATTACHED SUMMARY

Has Minister prepared PAR for public consultation NO

Development Act / Public & Environmental Health Act Notices NO

There are obligations to maintain a Septic Tank System SEE BELOW IF APPLICABLE
Proclamations / Agreements SEE CERTIFICATE OF TITLE

Please note: Where Section 34 of the Building Work Contractors Act 1995 requires that building indemnity insurance be taken out in respect of certain types of domestic building work commenced after 1st May 1987, intending purchasers of this property should contact the Council's Building Section for information on whether an insurance policy exists in respect of any building erected on this land.

You should contact the S A Housing Trust, Riverside Centre, North Tce, Adelaide 5000 for information regarding Housing Improvement Act 1940 notices.

You should contact the Adelaide & Mount Lofty Ranges Natural Resource Management, 205 Greenhill Road, Eastwood 5063 for information regarding the Animal and Plant Control Act 1986. Ph. 8273 9100

For Chief Executive Officer



PLEASE TAKE NOTE: Various areas within the Council are at risk of flooding. The Council is not required by Section 7 of the *Land and Business (Sale and Conveyancing) Act 1994* to provide information in relation to whether this property is within a flood risk area or the possible extent of any flood risk as part of this Statement. Nevertheless, the Council can inform you that it has received a report by the Department for Transport, Energy & Infrastructure containing new hydrological data for the Gawler River Flood Plain area which may result in the boundaries of the flood risk area being amended. Flood mapping and modelling has been undertaken using this new hydrological data. The Floodplain Mapping Report is available at the following website:

<http://fredpedler.com/public/content/default.asp?xcid=399>

Development Applications

292/404/2006 Storage Shed

Date of Decision : 04-Sep-2006 Authority : Council

Continuing Condition(s)

1. Except where minor amendments may be required by other relevant Acts, or by conditions imposed by this application, the development shall be established in strict accordance with the details and plans submitted in this development application.
2. The building shall not be used for human habitation.
3. Roof stormwater is to be discharged a minimum of five (5) metres away from the building (F1.1 of BCA).
4. The proposed storage shed shall be separated from the existing building by a minimum of 3.0m as per the amended plan received by council on 4/9/2006.

DEVELOPMENT PLAN AMENDMENTS SUMMARY

Pursuant to Section 24 of the Development Act 1993, several investigations are being undertaken in respect to amending Development Plan policies (e.g. land use zones) that may affect areas within the City of Playford.

As of a change to the Development Act gazetted on the 27th September 2007 all new amendments to the Development Plan will be implemented under a new Development Plan Amendment (DPA) process. However existing amendments to the Development Plan initiated before this time will be finalised under the Plan Amendment Report (PAR) process.

Investigations which have reached the stage of an agreed 'Statement of Intent' associated with either the PAR or DPA process include:

Townships and Environs PAR

A Townships and Environs PAR Statement of Intent has been agreed between Council and the Minister for Planning and Urban Development, and is currently being investigated and drafted. It affects the Townships of Virginia, Angle Vale and One Tree Hill and includes the following considerations:

- Policies to guide the future growth of townships and promote the enhancement of their identity and character;
- The role of townships;
- Retail activity in nearby horticultural areas;
- How horticultural retail impacts on existing centres and value adding to horticultural production;
- Encourage the appropriate development of cellar door sales, restaurants and wineries;
- Tourist accommodation;
- Appropriate transport;
- Design and appearance enhancement to facilitate identity and character;
- Ecologically sensitive design;
- Arts and culture;
- Infrastructure provision; and
- Sustainable growth to facilitate regeneration of surrounding areas.

Minor amendments to the Angle Vale township are being considered to address anomalies, with no additional land for housing being included.

Munno Para District Centre PAR

A Munno Para District Centre PAR has been prepared by Council and has undertaken public consultation from 25th January 2006 to 27th March 2006. A revised PAR, as a result of consultation, has been approved by Council and is now with the Minister for Urban Development and Planning for consideration.

The PAR impacts on the following development issues:

- The relationship of Munno Para District Centre and Smithfield Township within the hierarchy of all centres within the City of Playford;
- How the Development Plan can assist in developing Munno Para District Centre and Smithfield Township complementary to the rezoned and redeveloped Elizabeth Regional Centre;
- Design and land use policies to promote appropriate activities and facilitate complementary opportunities;
- Integration of centres with transport infrastructure, especially the Smithfield Train Station and other public transport facilities;
- Appropriate shopping, community facilities and mixed land uses and development to meet the needs of the community and the District Centre role;
- Ecologically sustainable design;
- Arts and cultural expression to reflect community values;
- The possibility for higher density housing in proximity to the centre;
- Infrastructure provision, including storm water and bandwidth;
- Open space/landscaping, pedestrian links, car parking and signage to improve function, identity and character;

- development of public assets; and
- The relationship of Munno Para District Centre and Smithfield Township to Main North Road and Anderson Walk.

Munno Para Environs Plan Amendment Report

A PAR is currently being finalised for the area surrounding the Munno Para District Centre and will be available for public consultation in the near future.

The Study Area includes the land around the District Centre Zone, which totals 232 hectares, bounded by:

- Curtis Road to the north;
- Main North to the east;
- the southern boundary of the vacant Commonwealth Defence land; and
- Coventry Road to the west.

The study area does not include the Munno Para District Centre Zone.

The PAR will include considerations on the following issues:

- Integration of the locality with transport infrastructure, especially the Smithfield Train Station and other public transport facilities;
- Appropriate land uses and development to meet the needs of the community and the District Centre role based on appropriate performance criteria;
- Ecologically sustainable design;
- Arts and cultural expression to reflect community values;
- Infrastructure provision, including storm water;
- Open space/landscaping, pedestrian links and signage to improve function, identity and character;
- Site contamination and noise impact considerations; and
- Development of public assets.

A new Structure Plan will be introduced to optimise opportunities presented by recent and potential development. Particular elements of the draft structure plan will include:

- Increased medium density residential development opportunities in the immediate locality;
- Improving connections and relationships to Smithfield Township and Train Station;
- Reinforcing a desired future character for Anderson Walk and the Smithfield township;
- Improving land use mix, function and amenity around the District Centre through the inclusion of performance criteria;
- Improvement of transportation movement (especially heavy vehicles), including gateway identification and appropriate buffers; and
- Incorporating and defining the Smith Creek open space network.

Better Development Plan Development Plan Amendment

The City of Playford proposes to review and amend the policies of the City of Playford Development Plan in order to adopt the policy modules, structure and format for Development Plans promoted by Planning SA as part of the Better Development Plans (BDP) project.

In adopting the BDP approach, council will ensure the resulting Development Plan will suitably implement the State Planning Strategy, as well as carry clearly defined local policy directions.

Council expects that the overall understanding of its Development Plan will be improved by adopting the new BDP form and structure. This will represent an improvement on the current Development Plan, making it easier to navigate and comprehend by addressing the clarity and readability issues that have developed over time with the current plan.

The investigations will ensure:

- the DPA identifies how all included Desired Character Statements have been derived from the existing text or Objectives/Principles of Development Control of the current Development Plan.

- the DPA identifies the existing policy that forms the basis of all included 'local addition' Objectives/Principles of Development Control.
- the policy referred to as 'local additions' does not undertake or encompass new policy directions.
- all appropriate BDP modules covering the range of issues and land uses pertinent to the council area are taken up and included as the policy core of the new Development Plan.
- the DPA identifies all locally relevant Ministerial policy not directly addressed by the BDP module policy and demonstrates its continued inclusion in the new BDP Development Plan.

Neighbourhood Centres Development Plan Amendment

The 2003 City of Playford Development Plan Review identified Centres as a high development policy priority. It included recommendations identifying the need to consider:

- **How the Development Plan can assist in redevelopment, including design and land use issues to promote complementary facilities;**
- The role and hierarchy of centres;
- Integration with transport infrastructure, especially public transport;
- Shopping and community facilities;
- Higher density housing adjacent centres;
- Design and appearance enhancement including landscaping and maintenance of properties, to facilitate identity and character;
- Ecologically sustainable design;
- Arts and culture;
- Infrastructure provision; and
- Sustainable growth to facilitate regeneration of surrounding areas.

The primary aim of the Neighbourhood Activity Centres DPA is to review the appropriateness of the nominated centres and identify opportunities for improvement and rationalisation. This process includes investigating the potential for the accommodation of mixed use development which is considered one way of reversing the decline in viability and vibrancy of the centres.

A Neighbourhood Activity Centres DPA Statement of Intent has been prepared and is currently with the Minister for Planning and Urban Development for his consideration.

The following Neighbourhood Centres will be the focus of the DPA:

- **Elizabeth Park**
- **Elizabeth Grove**
- **Elizabeth Downs**
- **Elizabeth South**
- **Craigmore (Yorketown Road)**
- **Elizabeth Vale**
- **Elizabeth East**
- **Elizabeth North**

Andrews Farm Local Centre was also reviewed as part of the project, considering an immediate need to support development in the area.

Investigations into the neighbourhood centres in the process of preparing the DPA are underway and will be considered by Council in the second half of 2008.

If you have any queries regarding any of the above Plan Amendment Reports, please contact Stephen Yarwood, Principal Policy Planner on 8256 0345 (direct).

Connell Wagner Pty Ltd
55 Grenfell Street
ADELAIDE SA 5000

Contact: Rosslyn Farquharson
Telephone: (08)8204 2179

Contact: Gayle Brookshaw
Telephone: (08)8204 1112
Fax: (08)8124 4672

07 April, 2008

Dear Sir/Madam,

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

I refer to your enquiry concerning the parcel of land comprised in

Title Reference CT Volume 5399 Folio 96

Address Section 174, Park Road, BUCKLAND PARK SA 5120

I advise as follows:

**PARTICULARS OF MORTGAGES, CHARGES & PRESCRIBED ENCUMBRANCES
AFFECTING THE LAND**

- | | | |
|-----|--|----|
| 53. | Environment performance agreement under section 59 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 54. | Environment protection order issued under section 93 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 55. | Clean-up order issued under section 99 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 56. | Clean-up authorisation issued under section 100 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |

PARTICULARS RELATING TO ENVIRONMENT PROTECTION

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

The answers to the following questions are shown:

Environmental assessments

2. (3) Does the Environment Protection Authority hold a copy of a report on any environmental assessment of the land or a part of the land carried out at any time -
- (a) by or on behalf of the owner or occupier of the land -
 - (i) pursuant to an authorisation, agreement or order under section 52(1)(b), 59, 93, 99, or 100 of the *Environment Protection Act 1993*;
 - or
 - (ii) for the purposes of a notification given under section 83 of that Act;
 - or
 - (b) by the Environment Protection Authority (whether alone or jointly with another authority);
 - or
 - (c) by a Contaminated Site Auditor recognised by the Environment Protection Authority for the purposes of carrying out such an assessment?
- NO

Waste depots

3. (1) Was a licence to operate a waste depot on the land ever issued under the repealed *South Australian Waste Management Commission Act 1979*, a record of which is on the Public Register?
- NO
- (2) Was a licence to operate a waste depot on the land ever issued under the repealed *Waste Management Act 1987*, a record of which is on the Public Register?
- NO
- (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, a record of which is on the Public Register?
- NO
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, being a licence that is no longer in force and a record of which is on the Public Register?
- NO

Production of certain waste

4. (1) Was a licence under the repealed *South Australian Waste Management Commission Act 1979* ever issued for the production of waste of a prescribed kind (within the meaning of that Act) on the land, a record of which is on the Public Register?
- NO
- (2) Was a licence under the repealed *Waste Management Act 1987* ever issued for the production of prescribed waste (within the meaning of that Act) on the land, a record of which is on the Public Register?
- NO

4. (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, a record of which is on the Public Register?

NO

(4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, being a licence that is no longer in force and a record of which is on the Public Register?

NO

Waste on land

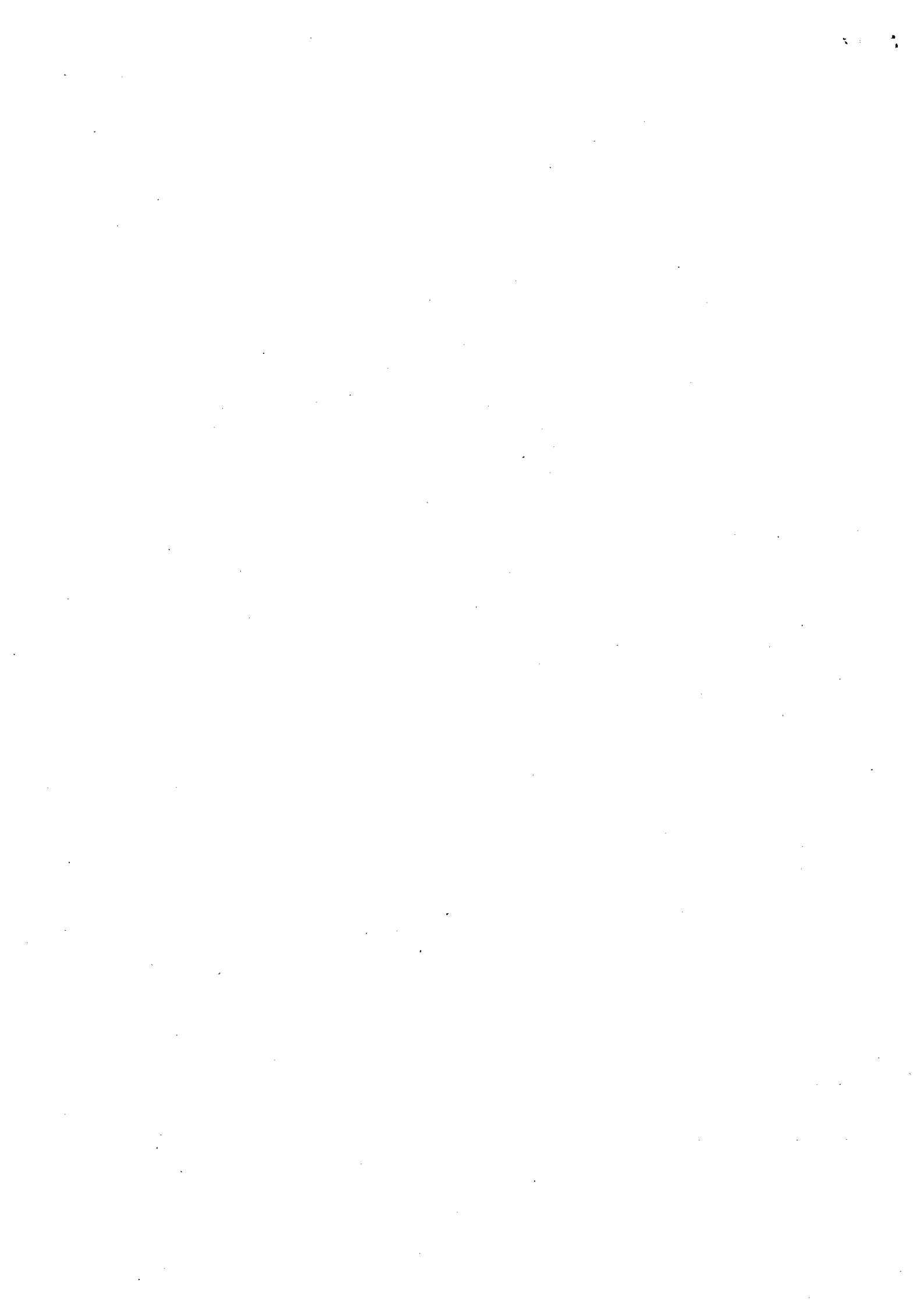
5. Did the former Waste Management Commission under the repealed *Waste Management Act 1987* have any record of waste (within the meaning of that Act) being deposited on the land between 1 January 1983 and 30 April 1995, details of which are on the Public Register?

NO

All care and diligence has been taken to access the above information from available records. Historical records provided to the EPA concerning matters arising prior to 1 May 1995 are limited and may not be accurate or complete and therefore the EPA cannot confirm the accuracy of the historical information provided.



Delegate for
ENVIRONMENT PROTECTION AUTHORITY



Connell Wagner Pty Ltd
55 Grenfell Street
ADELAIDE SA 5000

Contact: Rosslyn Farquharson
Telephone: (08)8204 2179

Contact: Gayle Brookshaw
Telephone: (08)8204 1112
Fax: (08)8124 4672

07 April, 2008

Dear Sir/Madam,

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

I refer to your enquiry concerning the parcel of land comprised in

Title Reference CT Volume 5399 Folio 95

Address Section 179, Legoe Road, BUCKLAND PARK SA 5120

I advise as follows:

**PARTICULARS OF MORTGAGES, CHARGES & PRESCRIBED ENCUMBRANCES
AFFECTING THE LAND**

- | | | |
|-----|--|----|
| 53. | Environment performance agreement under section 59 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 54. | Environment protection order issued under section 93 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 55. | Clean-up order issued under section 99 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 56. | Clean-up authorisation issued under section 100 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |

PARTICULARS RELATING TO ENVIRONMENT PROTECTION

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

The answers to the following questions are shown:

Environmental assessments

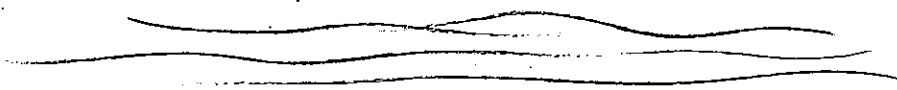
2. (3) Does the Environment Protection Authority hold a copy of a report on any environmental assessment of the land or a part of the land carried out at any time -
- (a) by or on behalf of the owner or occupier of the land -
 - (i) pursuant to an authorisation, agreement or order under section 52(1)(b), 59, 93, 99, or 100 of the *Environment Protection Act 1993*;
 - or
 - (ii) for the purposes of a notification given under section 83 of that Act;
 - or
 - (b) by the Environment Protection Authority (whether alone or jointly with another authority);
 - or
 - (c) by a Contaminated Site Auditor recognised by the Environment Protection Authority for the purposes of carrying out such an assessment? NO

Waste depots

3. (1) Was a licence to operate a waste depot on the land ever issued under the repealed *South Australian Waste Management Commission Act 1979*, a record of which is on the Public Register? NO
- (2) Was a licence to operate a waste depot on the land ever issued under the repealed *Waste Management Act 1987*, a record of which is on the Public Register? NO
- (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, a record of which is on the Public Register? NO
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, being a licence that is no longer in force and a record of which is on the Public Register? NO

Production of certain waste

4. (1) Was a licence under the repealed *South Australian Waste Management Commission Act 1979* ever issued for the production of waste of a prescribed kind (within the meaning of that Act) on the land, a record of which is on the Public Register? NO
- (2) Was a licence under the repealed *Waste Management Act 1987* ever issued for the production of prescribed waste (within the meaning of that Act) on the land, a record of which is on the Public Register? NO



4. (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, a record of which is on the Public Register? NO
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, being a licence that is no longer in force and a record of which is on the Public Register? NO

Waste on land

5. Did the former Waste Management Commission under the repealed *Waste Management Act 1987* have any record of waste (within the meaning of that Act) being deposited on the land between 1 January 1983 and 30 April 1995, details of which are on the Public Register? NO

All care and diligence has been taken to access the above information from available records. Historical records provided to the EPA concerning matters arising prior to 1 May 1995 are limited and may not be accurate or complete and therefore the EPA cannot confirm the accuracy of the historical information provided.



Delegate for
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Fax: (08)8124 4672

07 April, 2008

Dear Sir/Madam,

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

I refer to your enquiry concerning the parcel of land comprised in

Title Reference CT Volume 5868 Folio 780

Address Allotment 92, Legoe Road, BUCKLAND PARK SA 5120

I advise as follows:

**PARTICULARS OF MORTGAGES, CHARGES & PRESCRIBED ENCUMBRANCES
AFFECTING THE LAND**

- | | | |
|-----|--|----|
| 53. | Environment performance agreement under section 59 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 54. | Environment protection order issued under section 93 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 55. | Clean-up order issued under section 99 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 56. | Clean-up authorisation issued under section 100 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |

PARTICULARS RELATING TO ENVIRONMENT PROTECTION

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

The answers to the following questions are shown:

Environmental assessments

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 - or
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 - (c) by a Contaminated Site Auditor recognised by the Environment Protection Authority for the purposes of carrying out such an assessment?

NO

Waste depots

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- (2) Was a licence to operate a waste depot on the land ever issued under the repealed *Waste Management Act 1987*, a record of which is on the Public Register?
- (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, a record of which is on the Public Register?
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, being a licence that is no longer in force and a record of which is on the Public Register?

NO

NO

NO

NO

Production of certain waste

4. (1) Was a licence under the repealed *South Australian Waste Management Commission Act 1979* ever issued for the production of waste of a prescribed kind (within the meaning of that Act) on the land, a record of which is on the Public Register?
- (2) Was a licence under the repealed *Waste Management Act 1987* ever issued for the production of prescribed waste (within the meaning of that Act) on the land, a record of which is on the Public Register?

NO

NO

4. (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, a record of which is on the Public Register?

NO

(4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, being a licence that is no longer in force and a record of which is on the Public Register?

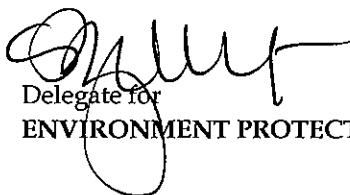
NO

Waste on land

5. Did the former Waste Management Commission under the repealed *Waste Management Act 1987* have any record of waste (within the meaning of that Act) being deposited on the land between 1 January 1983 and 30 April 1995, details of which are on the Public Register?

NO

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Delegate for
ENVIRONMENT PROTECTION AUTHORITY

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ADELAIDE SA 5000

Contact: Rosslyn Farquharson
Telephone: (08)8204 2179

Contact: Gayle Brookshaw
Telephone: (08)8204 1112
Fax: (08)8124 4672

07 April, 2008

Dear Sir/Madam,

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

I refer to your enquiry concerning the parcel of land comprised in

Title Reference CT Volume 5868 Folio 781

Address Block S (D1671), Legoe Road, BUCKLAND PARK SA 5120

I advise as follows:

**PARTICULARS OF MORTGAGES, CHARGES & PRESCRIBED ENCUMBRANCES
AFFECTING THE LAND**

- | | | |
|-----|--|----|
| 53. | Environment performance agreement under section 59 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 54. | Environment protection order issued under section 93 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 55. | Clean-up order issued under section 99 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
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PARTICULARS RELATING TO ENVIRONMENT PROTECTION

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

The answers to the following questions are shown:

Environmental assessments

- 2. (3) Does the Environment Protection Authority hold a copy of a report on any environmental assessment of the land or a part of the land carried out at any time -
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 - (ii) for the purposes of a notification given under section 83 of that Act;
 - or
 - (b) by the Environment Protection Authority (whether alone or jointly with another authority);
 - or
 - (c) by a Contaminated Site Auditor recognised by the Environment Protection Authority for the purposes of carrying out such an assessment?

NO

Waste depots

- 3. (1) Was a licence to operate a waste depot on the land ever issued under the repealed *South Australian Waste Management Commission Act 1979*, a record of which is on the Public Register?
- (2) Was a licence to operate a waste depot on the land ever issued under the repealed *Waste Management Act 1987*, a record of which is on the Public Register?
- (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, a record of which is on the Public Register?
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, being a licence that is no longer in force and a record of which is on the Public Register?

NO

NO

NO

NO

Production of certain waste

- 4. (1) Was a licence under the repealed *South Australian Waste Management Commission Act 1979* ever issued for the production of waste of a prescribed kind (within the meaning of that Act) on the land, a record of which is on the Public Register?
- (2) Was a licence under the repealed *Waste Management Act 1987* ever issued for the production of prescribed waste (within the meaning of that Act) on the land, a record of which is on the Public Register?

NO

NO

4. (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, a record of which is on the Public Register? NO
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, being a licence that is no longer in force and a record of which is on the Public Register? NO

Waste on Land

5. Did the former Waste Management Commission under the repealed *Waste Management Act 1987* have any record of waste (within the meaning of that Act) being deposited on the land between 1 January 1983 and 30 April 1995, details of which are on the Public Register? NO

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Delegate for
ENVIRONMENT PROTECTION AUTHORITY



Connell Wagner Pty Ltd
55 Grenfell Street
ADELAIDE SA 5000

Contact: Rosslyn Farquharson
Telephone: (08)8204 2179

Contact: Gayle Brookshaw
Telephone: (08)8204 1112
Fax: (08)8124 4672

07 April, 2008

Dear Sir/Madam,

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

I refer to your enquiry concerning the parcel of land comprised in

Title Reference CT Volume 5868 Folio 777

Address Block 62 (D1671), Legoe Road, BUCKLAND PARK SA 5120

I advise as follows:

**PARTICULARS OF MORTGAGES, CHARGES & PRESCRIBED ENCUMBRANCES
AFFECTING THE LAND**

- | | | |
|-----|--|----|
| 53. | Environment performance agreement under section 59 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 54. | Environment protection order issued under section 93 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 55. | Clean-up order issued under section 99 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 56. | Clean-up authorisation issued under section 100 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |

PARTICULARS RELATING TO ENVIRONMENT PROTECTION

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

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Environmental assessments

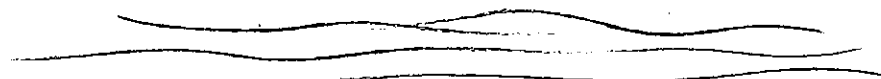
2. (3) Does the Environment Protection Authority hold a copy of a report on any environmental assessment of the land or a part of the land carried out at any time -
- (a) by or on behalf of the owner or occupier of the land -
 - (i) pursuant to an authorisation, agreement or order under section 52(1)(b), 59, 93, 99, or 100 of the *Environment Protection Act 1993*;
 - or
 - (ii) for the purposes of a notification given under section 83 of that Act;
 - or
 - (b) by the Environment Protection Authority (whether alone or jointly with another authority);
 - or
 - (c) by a Contaminated Site Auditor recognised by the Environment Protection Authority for the purposes of carrying out such an assessment? NO

Waste depots

3. (1) Was a licence to operate a waste depot on the land ever issued under the repealed *South Australian Waste Management Commission Act 1979*, a record of which is on the Public Register? NO
- (2) Was a licence to operate a waste depot on the land ever issued under the repealed *Waste Management Act 1987*, a record of which is on the Public Register? NO
- (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, a record of which is on the Public Register? NO
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, being a licence that is no longer in force and a record of which is on the Public Register? NO

Production of certain waste

4. (1) Was a licence under the repealed *South Australian Waste Management Commission Act 1979* ever issued for the production of waste of a prescribed kind (within the meaning of that Act) on the land, a record of which is on the Public Register? NO
- (2) Was a licence under the repealed *Waste Management Act 1987* ever issued for the production of prescribed waste (within the meaning of that Act) on the land, a record of which is on the Public Register? NO





4. (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, a record of which is on the Public Register? NO
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, being a licence that is no longer in force and a record of which is on the Public Register? NO

Waste on land

5. Did the former Waste Management Commission under the repealed *Waste Management Act 1987* have any record of waste (within the meaning of that Act) being deposited on the land between 1 January 1983 and 30 April 1995, details of which are on the Public Register? NO

All care and diligence has been taken to access the above information from available records. Historical records provided to the EPA concerning matters arising prior to 1 May 1995 are limited and may not be accurate or complete and therefore the EPA cannot confirm the accuracy of the historical information provided.


Delegate for
ENVIRONMENT PROTECTION AUTHORITY

Connell Wagner Pty Ltd
55 Grenfell Street
ADELAIDE SA 5000

Contact: Rosslyn Farquharson
Telephone: (08)8204 2179

Contact: Gayle Brookshaw
Telephone: (08)8204 1112
Fax: (08)8124 4672

07 April, 2008

Dear Sir/Madam,

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

I refer to your enquiry concerning the parcel of land comprised in

Title Reference CT Volume 5868 Folio 771

Address Allotment 93, Legoe Road, BUCKLAND PARK SA 5120

I advise as follows:

**PARTICULARS OF MORTGAGES, CHARGES & PRESCRIBED ENCUMBRANCES
AFFECTING THE LAND**

- | | | |
|-----|--|----|
| 53. | Environment performance agreement under section 59 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 54. | Environment protection order issued under section 93 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 55. | Clean-up order issued under section 99 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 56. | Clean-up authorisation issued under section 100 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |



PARTICULARS RELATING TO ENVIRONMENT PROTECTION

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

The answers to the following questions are shown:

Environmental assessments

2. (3) Does the Environment Protection Authority hold a copy of a report on any environmental assessment of the land or a part of the land carried out at any time -
- (a) by or on behalf of the owner or occupier of the land -
- (i) pursuant to an authorisation, agreement or order under section 52(1)(b), 59, 93, 99, or 100 of the *Environment Protection Act 1993*;
- or
- (ii) for the purposes of a notification given under section 83 of that Act;
- or
- (b) by the Environment Protection Authority (whether alone or jointly with another authority);
- or
- (c) by a Contaminated Site Auditor recognised by the Environment Protection Authority for the purposes of carrying out such an assessment?

NO

Waste depots

3. (1) Was a licence to operate a waste depot on the land ever issued under the repealed *South Australian Waste Management Commission Act 1979*, a record of which is on the Public Register?
- (2) Was a licence to operate a waste depot on the land ever issued under the repealed *Waste Management Act 1987*, a record of which is on the Public Register?
- (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, a record of which is on the Public Register?
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, being a licence that is no longer in force and a record of which is on the Public Register?

NO

NO

NO

NO

Production of certain waste

4. (1) Was a licence under the repealed *South Australian Waste Management Commission Act 1979* ever issued for the production of waste of a prescribed kind (within the meaning of that Act) on the land, a record of which is on the Public Register?
- (2) Was a licence under the repealed *Waste Management Act 1987* ever issued for the production of prescribed waste (within the meaning of that Act) on the land, a record of which is on the Public Register?

NO

NO

4. (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, a record of which is on the Public Register? NO
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, being a licence that is no longer in force and a record of which is on the Public Register? NO

Waste on land

5. Did the former Waste Management Commission under the repealed *Waste Management Act 1987* have any record of waste (within the meaning of that Act) being deposited on the land between 1 January 1983 and 30 April 1995, details of which are on the Public Register? NO

All care and diligence has been taken to access the above information from available records. Historical records provided to the EPA concerning matters arising prior to 1 May 1995 are limited and may not be accurate or complete and therefore the EPA cannot confirm the accuracy of the historical information provided.


Delegate for
ENVIRONMENT PROTECTION AUTHORITY



Connell Wagner Pty Ltd
55 Grenfell Street
ADELAIDE SA 5000

Contact: Rosslyn Farquharson
Telephone: (08)8204 2179

Contact: Gayle Brookshaw
Telephone: (08)8204 1112
Fax: (08)8124 4672

07 April, 2008

Dear Sir/Madam,

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

I refer to your enquiry concerning the parcel of land comprised in

Title Reference CT Volume 5868 Folio 776

Address Allotment 94, Legoe Road, BUCKLAND PARK SA 5120

I advise as follows:

**PARTICULARS OF MORTGAGES, CHARGES & PRESCRIBED ENCUMBRANCES
AFFECTING THE LAND**

- | | | |
|-----|--|----|
| 53. | Environment performance agreement under section 59 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 54. | Environment protection order issued under section 93 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 55. | Clean-up order issued under section 99 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 56. | Clean-up authorisation issued under section 100 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |

PARTICULARS RELATING TO ENVIRONMENT PROTECTION

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

The answers to the following questions are shown:

Environmental assessments

2. (3) Does the Environment Protection Authority hold a copy of a report on any environmental assessment of the land or a part of the land carried out at any time -
- (a) by or on behalf of the owner or occupier of the land -
 - (i) pursuant to an authorisation, agreement or order under section 52(1)(b), 59, 93, 99, or 100 of the *Environment Protection Act 1993*;
 - or
 - (ii) for the purposes of a notification given under section 83 of that Act;
 - or
 - (b) by the Environment Protection Authority (whether alone or jointly with another authority);
 - or
 - (c) by a Contaminated Site Auditor recognised by the Environment Protection Authority for the purposes of carrying out such an assessment?

NO

Waste depots

3. (1) Was a licence to operate a waste depot on the land ever issued under the repealed *South Australian Waste Management Commission Act 1979*, a record of which is on the Public Register?
- (2) Was a licence to operate a waste depot on the land ever issued under the repealed *Waste Management Act 1987*, a record of which is on the Public Register?
- (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, a record of which is on the Public Register?
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, being a licence that is no longer in force and a record of which is on the Public Register?

NO

NO

NO

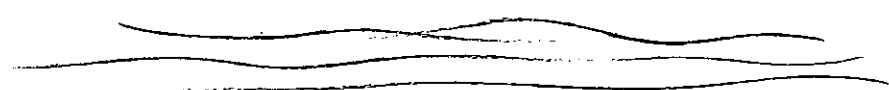
NO

Production of certain waste

4. (1) Was a licence under the repealed *South Australian Waste Management Commission Act 1979* ever issued for the production of waste of a prescribed kind (within the meaning of that Act) on the land, a record of which is on the Public Register?
- (2) Was a licence under the repealed *Waste Management Act 1987* ever issued for the production of prescribed waste (within the meaning of that Act) on the land, a record of which is on the Public Register?

NO

NO





4. (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, a record of which is on the Public Register? NO
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, being a licence that is no longer in force and a record of which is on the Public Register? NO

Waste on land

5. Did the former Waste Management Commission under the repealed *Waste Management Act 1987* have any record of waste (within the meaning of that Act) being deposited on the land between 1 January 1983 and 30 April 1995, details of which are on the Public Register? NO

All care and diligence has been taken to access the above information from available records. Historical records provided to the EPA concerning matters arising prior to 1 May 1995 are limited and may not be accurate or complete and therefore the EPA cannot confirm the accuracy of the historical information provided.


Delegate for
ENVIRONMENT PROTECTION AUTHORITY

Connell Wagner Pty Ltd
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ADELAIDE SA 5000

Contact: Rosslyn Farquharson
Telephone: (08)8204 2179

Contact: Gayle Brookshaw
Telephone: (08)8204 1112
Fax: (08)8124 4672

07 April, 2008

Dear Sir/Madam,

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

I refer to your enquiry concerning the parcel of land comprised in

Title Reference CT Volume 5399 Folio 96

Address Section 174, Park Road, BUCKLAND PARK SA 5120

I advise as follows:

**PARTICULARS OF MORTGAGES, CHARGES & PRESCRIBED ENCUMBRANCES
AFFECTING THE LAND**

- | | | |
|-----|--|----|
| 53. | Environment performance agreement under section 59 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 54. | Environment protection order issued under section 93 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 55. | Clean-up order issued under section 99 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 56. | Clean-up authorisation issued under section 100 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |

PARTICULARS RELATING TO ENVIRONMENT PROTECTION

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

The answers to the following questions are shown:

Environmental assessments

2. (3) Does the Environment Protection Authority hold a copy of a report on any environmental assessment of the land or a part of the land carried out at any time -
- (a) by or on behalf of the owner or occupier of the land -
 - (i) pursuant to an authorisation, agreement or order under section 52(1)(b), 59, 93, 99, or 100 of the *Environment Protection Act 1993*;
 - or
 - (ii) for the purposes of a notification given under section 83 of that Act;
 - or
 - (b) by the Environment Protection Authority (whether alone or jointly with another authority);
 - or
 - (c) by a Contaminated Site Auditor recognised by the Environment Protection Authority for the purposes of carrying out such an assessment?
- NO

Waste depots

3. (1) Was a licence to operate a waste depot on the land ever issued under the repealed *South Australian Waste Management Commission Act 1979*, a record of which is on the Public Register?
- NO
- (2) Was a licence to operate a waste depot on the land ever issued under the repealed *Waste Management Act 1987*, a record of which is on the Public Register?
- NO
- (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, a record of which is on the Public Register?
- NO
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, being a licence that is no longer in force and a record of which is on the Public Register?
- NO

Production of certain waste

4. (1) Was a licence under the repealed *South Australian Waste Management Commission Act 1979* ever issued for the production of waste of a prescribed kind (within the meaning of that Act) on the land, a record of which is on the Public Register?
- NO
- (2) Was a licence under the repealed *Waste Management Act 1987* ever issued for the production of prescribed waste (within the meaning of that Act) on the land, a record of which is on the Public Register?
- NO

4. (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, a record of which is on the Public Register? NO
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, being a licence that is no longer in force and a record of which is on the Public Register? NO

Waste on land

5. Did the former Waste Management Commission under the repealed *Waste Management Act 1987* have any record of waste (within the meaning of that Act) being deposited on the land between 1 January 1983 and 30 April 1995, details of which are on the Public Register? NO

All care and diligence has been taken to access the above information from available records. Historical records provided to the EPA concerning matters arising prior to 1 May 1995 are limited and may not be accurate or complete and therefore the EPA cannot confirm the accuracy of the historical information provided.


Delegate for
ENVIRONMENT PROTECTION AUTHORITY

Connell Wagner Pty Ltd
55 Grenfell Street
ADELAIDE SA 5000

Contact: Rosslyn Farquharson
Telephone: (08)8204 2179

Contact: Gayle Brookshaw
Telephone: (08)8204 1112
Fax: (08)8124 4672

07 April, 2008

Dear Sir/Madam,

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

I refer to your enquiry concerning the parcel of land comprised in

Title Reference CT Volume 5399 Folio 95

Address Section 179, Legoe Road, BUCKLAND PARK SA 5120

I advise as follows:

**PARTICULARS OF MORTGAGES, CHARGES & PRESCRIBED ENCUMBRANCES
AFFECTING THE LAND**

- | | | |
|-----|--|----|
| 53. | Environment performance agreement under section 59 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 54. | Environment protection order issued under section 93 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 55. | Clean-up order issued under section 99 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 56. | Clean-up authorisation issued under section 100 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |

PARTICULARS RELATING TO ENVIRONMENT PROTECTION

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

The answers to the following questions are shown:

Environmental assessments

2. (3) Does the Environment Protection Authority hold a copy of a report on any environmental assessment of the land or a part of the land carried out at any time -
- (a) by or on behalf of the owner or occupier of the land -
 - (i) pursuant to an authorisation, agreement or order under section 52(1)(b), 59, 93, 99, or 100 of the *Environment Protection Act 1993*;
 - or
 - (ii) for the purposes of a notification given under section 83 of that Act;
 - or
 - (b) by the Environment Protection Authority (whether alone or jointly with another authority);
 - or
 - (c) by a Contaminated Site Auditor recognised by the Environment Protection Authority for the purposes of carrying out such an assessment? NO

Waste depots

3. (1) Was a licence to operate a waste depot on the land ever issued under the repealed *South Australian Waste Management Commission Act 1979*, a record of which is on the Public Register? NO
- (2) Was a licence to operate a waste depot on the land ever issued under the repealed *Waste Management Act 1987*, a record of which is on the Public Register? NO
- (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, a record of which is on the Public Register? NO
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, being a licence that is no longer in force and a record of which is on the Public Register? NO

Production of certain waste


4. (1) Was a licence under the repealed *South Australian Waste Management Commission Act 1979* ever issued for the production of waste of a prescribed kind (within the meaning of that Act) on the land, a record of which is on the Public Register? NO
- (2) Was a licence under the repealed *Waste Management Act 1987* ever issued for the production of prescribed waste (within the meaning of that Act) on the land, a record of which is on the Public Register? NO

4. (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, a record of which is on the Public Register? NO
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, being a licence that is no longer in force and a record of which is on the Public Register? NO

Waste on land

5. Did the former Waste Management Commission under the repealed *Waste Management Act 1987* have any record of waste (within the meaning of that Act) being deposited on the land between 1 January 1983 and 30 April 1995, details of which are on the Public Register? NO

All care and diligence has been taken to access the above information from available records. Historical records provided to the EPA concerning matters arising prior to 1 May 1995 are limited and may not be accurate or complete and therefore the EPA cannot confirm the accuracy of the historical information provided.


Delegate for
ENVIRONMENT PROTECTION AUTHORITY

Connell Wagner Pty Ltd
55 Grenfell Street
ADELAIDE SA 5000

Contact: Rosslyn Farquharson
Telephone: (08)8204 2179

Contact: Gayle Brookshaw
Telephone: (08)8204 1112
Fax: (08)8124 4672

07 April, 2008

Dear Sir/Madam,

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

I refer to your enquiry concerning the parcel of land comprised in

Title Reference CT Volume 5868 Folio 780

Address Allotment 92, Legoe Road, BUCKLAND PARK SA 5120

I advise as follows:

**PARTICULARS OF MORTGAGES, CHARGES & PRESCRIBED ENCUMBRANCES
AFFECTING THE LAND**

- | | | |
|-----|--|----|
| 53. | Environment performance agreement under section 59 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 54. | Environment protection order issued under section 93 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 55. | Clean-up order issued under section 99 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 56. | Clean-up authorisation issued under section 100 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |

PARTICULARS RELATING TO ENVIRONMENT PROTECTION

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

The answers to the following questions are shown:

Environmental assessments

2. (3) Does the Environment Protection Authority hold a copy of a report on any environmental assessment of the land or a part of the land carried out at any time -
- (a) by or on behalf of the owner or occupier of the land -
- (i) pursuant to an authorisation, agreement or order under section 52(1)(b), 59, 93, 99, or 100 of the *Environment Protection Act 1993*;
- or
- (ii) for the purposes of a notification given under section 83 of that Act;
- or
- (b) by the Environment Protection Authority (whether alone or jointly with another authority);
- or
- (c) by a Contaminated Site Auditor recognised by the Environment Protection Authority for the purposes of carrying out such an assessment?

NO

Waste depots

3. (1) Was a licence to operate a waste depot on the land ever issued under the repealed *South Australian Waste Management Commission Act 1979*, a record of which is on the Public Register?
- (2) Was a licence to operate a waste depot on the land ever issued under the repealed *Waste Management Act 1987*, a record of which is on the Public Register?
- (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, a record of which is on the Public Register?
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, being a licence that is no longer in force and a record of which is on the Public Register?

NO

NO

NO

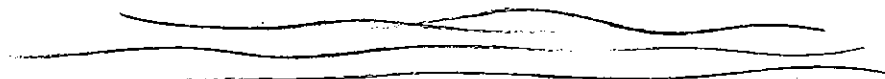
NO

Production of certain waste

4. (1) Was a licence under the repealed *South Australian Waste Management Commission Act 1979* ever issued for the production of waste of a prescribed kind (within the meaning of that Act) on the land, a record of which is on the Public Register?
- (2) Was a licence under the repealed *Waste Management Act 1987* ever issued for the production of prescribed waste (within the meaning of that Act) on the land, a record of which is on the Public Register?

NO

NO



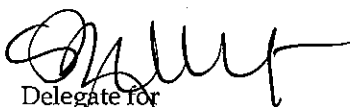
4. (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, a record of which is on the Public Register? NO

(4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, being a licence that is no longer in force and a record of which is on the Public Register? NO

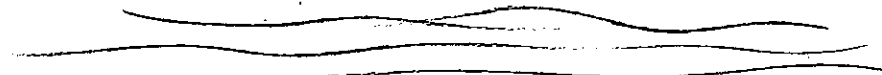
Waste on land

5. Did the former Waste Management Commission under the repealed *Waste Management Act 1987* have any record of waste (within the meaning of that Act) being deposited on the land between 1 January 1983 and 30 April 1995, details of which are on the Public Register? NO

All care and diligence has been taken to access the above information from available records. Historical records provided to the EPA concerning matters arising prior to 1 May 1995 are limited and may not be accurate or complete and therefore the EPA cannot confirm the accuracy of the historical information provided.



Delegate for
ENVIRONMENT PROTECTION AUTHORITY



Cornell Wagner Pty Ltd
55 Grenfell Street
ADELAIDE SA 5000

Contact: Rosslyn Farquharson
Telephone: (08)8204 2179

Contact: Gayle Brookshaw
Telephone: (08)8204 1112
Fax: (08)8124 4672

07 April, 2008

Dear Sir/Madam,

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

I refer to your enquiry concerning the parcel of land comprised in

Title Reference CT Volume 5868 Folio 781

Address Block S (D1671), Legoe Road, BUCKLAND PARK SA 5120

I advise as follows:

**PARTICULARS OF MORTGAGES, CHARGES & PRESCRIBED ENCUMBRANCES
AFFECTING THE LAND**

- | | | |
|-----|--|----|
| 53. | Environment performance agreement under section 59 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 54. | Environment protection order issued under section 93 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 55. | Clean-up order issued under section 99 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 56. | Clean-up authorisation issued under section 100 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |

PARTICULARS RELATING TO ENVIRONMENT PROTECTION

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

The answers to the following questions are shown:

Environmental assessments

2. (3) Does the Environment Protection Authority hold a copy of a report on any environmental assessment of the land or a part of the land carried out at any time -
- (a) by or on behalf of the owner or occupier of the land -
 - (i) pursuant to an authorisation, agreement or order under section 52(1)(b), 59, 93, 99, or 100 of the *Environment Protection Act 1993*;
 - or
 - (ii) for the purposes of a notification given under section 83 of that Act;
 - or
 - (b) by the Environment Protection Authority (whether alone or jointly with another authority);
 - or
 - (c) by a Contaminated Site Auditor recognised by the Environment Protection Authority for the purposes of carrying out such an assessment? NO

Waste depots

3. (1) Was a licence to operate a waste depot on the land ever issued under the repealed *South Australian Waste Management Commission Act 1979*, a record of which is on the Public Register? NO
- (2) Was a licence to operate a waste depot on the land ever issued under the repealed *Waste Management Act 1987*, a record of which is on the Public Register? NO
- (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, a record of which is on the Public Register? NO
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, being a licence that is no longer in force and a record of which is on the Public Register? NO

Production of certain waste

4. (1) Was a licence under the repealed *South Australian Waste Management Commission Act 1979* ever issued for the production of waste of a prescribed kind (within the meaning of that Act) on the land, a record of which is on the Public Register? NO
- (2) Was a licence under the repealed *Waste Management Act 1987* ever issued for the production of prescribed waste (within the meaning of that Act) on the land, a record of which is on the Public Register? NO

4. (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, a record of which is on the Public Register?

NO

(4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, being a licence that is no longer in force and a record of which is on the Public Register?

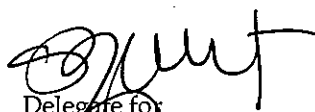
NO

Waste on land

5. Did the former Waste Management Commission under the repealed *Waste Management Act 1987* have any record of waste (within the meaning of that Act) being deposited on the land between 1 January 1983 and 30 April 1995, details of which are on the Public Register?

NO

All care and diligence has been taken to access the above information from available records. Historical records provided to the EPA concerning matters arising prior to 1 May 1995 are limited and may not be accurate or complete and therefore the EPA cannot confirm the accuracy of the historical information provided.



Delegate for
ENVIRONMENT PROTECTION AUTHORITY

Connell Wagner Pty Ltd
55 Grenfell Street
ADELAIDE SA 5000

Contact: Rosslyn Farquharson
Telephone: (08)8204 2179

Contact: Gayle Brookshaw
Telephone: (08)8204 1112
Fax: (08)8124 4672

07 April, 2008

Dear Sir/Madam,

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

I refer to your enquiry concerning the parcel of land comprised in

Title Reference CT Volume 5868 Folio 777

Address Block 62 (D1671), Legoe Road, BUCKLAND PARK SA 5120

I advise as follows:

**PARTICULARS OF MORTGAGES, CHARGES & PRESCRIBED ENCUMBRANCES
AFFECTING THE LAND**

- | | | |
|-----|--|----|
| 53. | Environment performance agreement under section 59 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 54. | Environment protection order issued under section 93 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 55. | Clean-up order issued under section 99 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 56. | Clean-up authorisation issued under section 100 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |

PARTICULARS RELATING TO ENVIRONMENT PROTECTION

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

The answers to the following questions are shown:

Environmental assessments

- 2. (3) Does the Environment Protection Authority hold a copy of a report on any environmental assessment of the land or a part of the land carried out at any time -
 - (a) by or on behalf of the owner or occupier of the land -
 - (i) pursuant to an authorisation, agreement or order under section 52(1)(b), 59, 93, 99, or 100 of the *Environment Protection Act 1993*;
 - or
 - (ii) for the purposes of a notification given under section 83 of that Act;
 - or
 - (b) by the Environment Protection Authority (whether alone or jointly with another authority);
 - or
 - (c) by a Contaminated Site Auditor recognised by the Environment Protection Authority for the purposes of carrying out such an assessment?

NO

Waste depots

- 3. (1) Was a licence to operate a waste depot on the land ever issued under the repealed *South Australian Waste Management Commission Act 1979*, a record of which is on the Public Register?
- (2) Was a licence to operate a waste depot on the land ever issued under the repealed *Waste Management Act 1987*, a record of which is on the Public Register?
- (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, a record of which is on the Public Register?
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, being a licence that is no longer in force and a record of which is on the Public Register?

NO

NO

NO

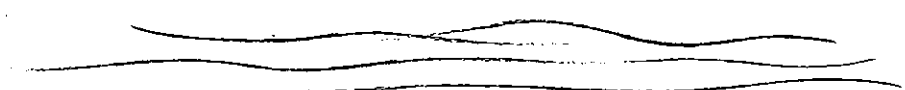
NO

Production of certain waste

- 4. (1) Was a licence under the repealed *South Australian Waste Management Commission Act 1979* ever issued for the production of waste of a prescribed kind (within the meaning of that Act) on the land, a record of which is on the Public Register?
- (2) Was a licence under the repealed *Waste Management Act 1987* ever issued for the production of prescribed waste (within the meaning of that Act) on the land, a record of which is on the Public Register?

NO

NO



- 4. (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, a record of which is on the Public Register? NO

- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, being a licence that is no longer in force and a record of which is on the Public Register? NO

Waste on land

- 5. Did the former Waste Management Commission under the repealed *Waste Management Act 1987* have any record of waste (within the meaning of that Act) being deposited on the land between 1 January 1983 and 30 April 1995, details of which are on the Public Register? NO

All care and diligence has been taken to access the above information from available records. Historical records provided to the EPA concerning matters arising prior to 1 May 1995 are limited and may not be accurate or complete and therefore the EPA cannot confirm the accuracy of the historical information provided.


Delegate for
ENVIRONMENT PROTECTION AUTHORITY

Connell Wagner Pty Ltd
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ADELAIDE SA 5000

Contact: Rosslyn Farquharson
Telephone: (08)8204 2179

Contact: Gayle Brookshaw
Telephone: (08)8204 1112
Fax: (08)8124 4672

07 April, 2008

Dear Sir/Madam,

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

I refer to your enquiry concerning the parcel of land comprised in

Title Reference CT Volume 5868 Folio 771

Address Allotment 93, Legoe Road, BUCKLAND PARK SA 5120

I advise as follows:

**PARTICULARS OF MORTGAGES, CHARGES & PRESCRIBED ENCUMBRANCES
AFFECTING THE LAND**

- | | | |
|-----|--|----|
| 53. | Environment performance agreement under section 59 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 54. | Environment protection order issued under section 93 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 55. | Clean-up order issued under section 99 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 56. | Clean-up authorisation issued under section 100 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |

PARTICULARS RELATING TO ENVIRONMENT PROTECTION

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

The answers to the following questions are shown:

Environmental assessments

2. (3) Does the Environment Protection Authority hold a copy of a report on any environmental assessment of the land or a part of the land carried out at any time -
- (a) by or on behalf of the owner or occupier of the land -
 - (i) pursuant to an authorisation, agreement or order under section 52(1)(b), 59, 93, 99, or 100 of the *Environment Protection Act 1993*;
 - or
 - (ii) for the purposes of a notification given under section 83 of that Act;
 - or
 - (b) by the Environment Protection Authority (whether alone or jointly with another authority);
 - or
 - (c) by a Contaminated Site Auditor recognised by the Environment Protection Authority for the purposes of carrying out such an assessment?

NO

Waste depots

3. (1) Was a licence to operate a waste depot on the land ever issued under the repealed *South Australian Waste Management Commission Act 1979*, a record of which is on the Public Register?
- (2) Was a licence to operate a waste depot on the land ever issued under the repealed *Waste Management Act 1987*, a record of which is on the Public Register?
- (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, a record of which is on the Public Register?
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, being a licence that is no longer in force and a record of which is on the Public Register?

NO

NO

NO

NO

Production of certain waste

4. (1) Was a licence under the repealed *South Australian Waste Management Commission Act 1979* ever issued for the production of waste of a prescribed kind (within the meaning of that Act) on the land, a record of which is on the Public Register?
- (2) Was a licence under the repealed *Waste Management Act 1987* ever issued for the production of prescribed waste (within the meaning of that Act) on the land, a record of which is on the Public Register?

NO

NO

- 4. (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, a record of which is on the Public Register? NO

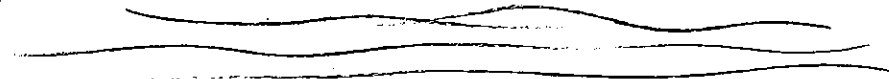
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, being a licence that is no longer in force and a record of which is on the Public Register? NO

Waste on land

- 5. Did the former Waste Management Commission under the repealed *Waste Management Act 1987* have any record of waste (within the meaning of that Act) being deposited on the land between 1 January 1983 and 30 April 1995, details of which are on the Public Register? NO

All care and diligence has been taken to access the above information from available records. Historical records provided to the EPA concerning matters arising prior to 1 May 1995 are limited and may not be accurate or complete and therefore the EPA cannot confirm the accuracy of the historical information provided.


Delegate for
ENVIRONMENT PROTECTION AUTHORITY



Connell Wagner Pty Ltd
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ADELAIDE SA 5000

Contact: Rosslyn Farquharson
Telephone: (08)8204 2179

Contact: Gayle Brookshaw
Telephone: (08)8204 1112
Fax: (08)8124 4672

07 April, 2008

Dear Sir/Madam,

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

I refer to your enquiry concerning the parcel of land comprised in

Title Reference CT Volume 5868 Folio 776

Address Allotment 94, Legoe Road, BUCKLAND PARK SA 5120

I advise as follows:

**PARTICULARS OF MORTGAGES, CHARGES & PRESCRIBED ENCUMBRANCES
AFFECTING THE LAND**

- | | | |
|-----|--|----|
| 53. | Environment performance agreement under section 59 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 54. | Environment protection order issued under section 93 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 55. | Clean-up order issued under section 99 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 56. | Clean-up authorisation issued under section 100 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |

PARTICULARS RELATING TO ENVIRONMENT PROTECTION

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

The answers to the following questions are shown:

Environmental assessments

2. (3) Does the Environment Protection Authority hold a copy of a report on any environmental assessment of the land or a part of the land carried out at any time -
- (a) by or on behalf of the owner or occupier of the land -
 - (i) pursuant to an authorisation, agreement or order under section 52(1)(b), 59, 93, 99, or 100 of the *Environment Protection Act 1993*;
 - or
 - (ii) for the purposes of a notification given under section 83 of that Act;
 - or
 - (b) by the Environment Protection Authority (whether alone or jointly with another authority);
 - or
 - (c) by a Contaminated Site Auditor recognised by the Environment Protection Authority for the purposes of carrying out such an assessment?
- NO

Waste depots

3. (1) Was a licence to operate a waste depot on the land ever issued under the repealed *South Australian Waste Management Commission Act 1979*, a record of which is on the Public Register?
- NO
- (2) Was a licence to operate a waste depot on the land ever issued under the repealed *Waste Management Act 1987*, a record of which is on the Public Register?
- NO
- (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, a record of which is on the Public Register?
- NO
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, being a licence that is no longer in force and a record of which is on the Public Register?
- NO

Production of certain waste

4. (1) Was a licence under the repealed *South Australian Waste Management Commission Act 1979* ever issued for the production of waste of a prescribed kind (within the meaning of that Act) on the land, a record of which is on the Public Register?
- NO
- (2) Was a licence under the repealed *Waste Management Act 1987* ever issued for the production of prescribed waste (within the meaning of that Act) on the land, a record of which is on the Public Register?
- NO



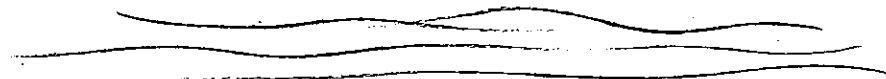
4. (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, a record of which is on the Public Register? NO
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, being a licence that is no longer in force and a record of which is on the Public Register? NO

Waste on land

5. Did the former Waste Management Commission under the repealed *Waste Management Act 1987* have any record of waste (within the meaning of that Act) being deposited on the land between 1 January 1983 and 30 April 1995, details of which are on the Public Register? NO

All care and diligence has been taken to access the above information from available records. Historical records provided to the EPA concerning matters arising prior to 1 May 1995 are limited and may not be accurate or complete and therefore the EPA cannot confirm the accuracy of the historical information provided.


Delegate for
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Telephone: (08)8204 2179

Contact: Gayle Brookshaw
Telephone: (08)8204 1112
Fax: (08)8124 4672

07 April, 2008

Dear Sir/Madam,

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

I refer to your enquiry concerning the parcel of land comprised in

Title Reference CT Volume 5868 Folio 784

Address Block 63 (D1671), Legoe Road, BUCKLAND PARK SA 5120

I advise as follows:

**PARTICULARS OF MORTGAGES, CHARGES & PRESCRIBED ENCUMBRANCES
AFFECTING THE LAND**

53.	Environment performance agreement under section 59 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land.	NO
54.	Environment protection order issued under section 93 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land.	NO
55.	Clean-up order issued under section 99 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land.	NO
56.	Clean-up authorisation issued under section 100 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land.	NO

PARTICULARS RELATING TO ENVIRONMENT PROTECTION

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

The answers to the following questions are shown:

Environmental assessments

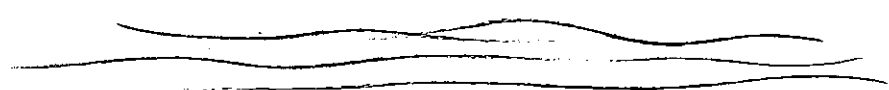
2. (3) Does the Environment Protection Authority hold a copy of a report on any environmental assessment of the land or a part of the land carried out at any time -
- (a) by or on behalf of the owner or occupier of the land -
 - (i) pursuant to an authorisation, agreement or order under section 52(1)(b), 59, 93, 99, or 100 of the *Environment Protection Act 1993*;
 - or
 - (ii) for the purposes of a notification given under section 83 of that Act;
 - or
 - (b) by the Environment Protection Authority (whether alone or jointly with another authority);
 - or
 - (c) by a Contaminated Site Auditor recognised by the Environment Protection Authority for the purposes of carrying out such an assessment? NO

Waste depots

3. (1) Was a licence to operate a waste depot on the land ever issued under the repealed *South Australian Waste Management Commission Act 1979*, a record of which is on the Public Register? NO
- (2) Was a licence to operate a waste depot on the land ever issued under the repealed *Waste Management Act 1987*, a record of which is on the Public Register? NO
- (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, a record of which is on the Public Register? NO
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, being a licence that is no longer in force and a record of which is on the Public Register? NO

Production of certain waste

4. (1) Was a licence under the repealed *South Australian Waste Management Commission Act 1979* ever issued for the production of waste of a prescribed kind (within the meaning of that Act) on the land, a record of which is on the Public Register? NO
- (2) Was a licence under the repealed *Waste Management Act 1987* ever issued for the production of prescribed waste (within the meaning of that Act) on the land, a record of which is on the Public Register? NO



Environment Protection Authority

4. (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, a record of which is on the Public Register? NO
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, being a licence that is no longer in force and a record of which is on the Public Register? NO

Waste on land

5. Did the former Waste Management Commission under the repealed *Waste Management Act 1987* have any record of waste (within the meaning of that Act) being deposited on the land between 1 January 1983 and 30 April 1995, details of which are on the Public Register? NO

All care and diligence has been taken to access the above information from available records. Historical records provided to the EPA concerning matters arising prior to 1 May 1995 are limited and may not be accurate or complete and therefore the EPA cannot confirm the accuracy of the historical information provided.


Delegate for
ENVIRONMENT PROTECTION AUTHORITY

Connell Wagner Pty Ltd
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ADELAIDE SA 5000

Contact: Rosslyn Farquharson
Telephone: (08)8204 2179

Contact: Gayle Brookshaw
Telephone: (08)8204 1112
Fax: (08)8124 4672

07 April, 2008

Dear Sir/Madam,

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

I refer to your enquiry concerning the parcel of land comprised in

Title Reference CT Volume 5868 Folio 783

Address Block 61 (D1671), Legoe Road, BUCKLAND PARK SA 5120

I advise as follows:

**PARTICULARS OF MORTGAGES, CHARGES & PRESCRIBED ENCUMBRANCES
AFFECTING THE LAND**

- | | | |
|-----|--|----|
| 53. | Environment performance agreement under section 59 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 54. | Environment protection order issued under section 93 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 55. | Clean-up order issued under section 99 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 56. | Clean-up authorisation issued under section 100 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |

PARTICULARS RELATING TO ENVIRONMENT PROTECTION

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

The answers to the following questions are shown:

Environmental assessments

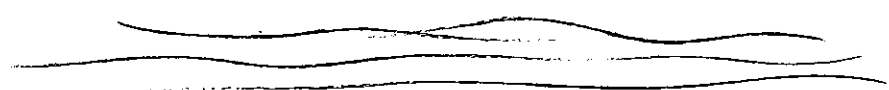
2. (3) Does the Environment Protection Authority hold a copy of a report on any environmental assessment of the land or a part of the land carried out at any time -
- (a) by or on behalf of the owner or occupier of the land -
 - (i) pursuant to an authorisation, agreement or order under section 52(1)(b), 59, 93, 99, or 100 of the *Environment Protection Act 1993*;
 - or
 - (ii) for the purposes of a notification given under section 83 of that Act;
 - or
 - (b) by the Environment Protection Authority (whether alone or jointly with another authority);
 - or
 - (c) by a Contaminated Site Auditor recognised by the Environment Protection Authority for the purposes of carrying out such an assessment?
- NO

Waste depots

3. (1) Was a licence to operate a waste depot on the land ever issued under the repealed *South Australian Waste Management Commission Act 1979*, a record of which is on the Public Register?
- NO
- (2) Was a licence to operate a waste depot on the land ever issued under the repealed *Waste Management Act 1987*, a record of which is on the Public Register?
- NO
- (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, a record of which is on the Public Register?
- NO
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, being a licence that is no longer in force and a record of which is on the Public Register?
- NO

Production of certain waste

4. (1) Was a licence under the repealed *South Australian Waste Management Commission Act 1979* ever issued for the production of waste of a prescribed kind (within the meaning of that Act) on the land, a record of which is on the Public Register?
- NO
- (2) Was a licence under the repealed *Waste Management Act 1987* ever issued for the production of prescribed waste (within the meaning of that Act) on the land, a record of which is on the Public Register?
- NO



4. (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, a record of which is on the Public Register? NO
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, being a licence that is no longer in force and a record of which is on the Public Register? NO

Waste on land

5. Did the former Waste Management Commission under the repealed *Waste Management Act 1987* have any record of waste (within the meaning of that Act) being deposited on the land between 1 January 1983 and 30 April 1995, details of which are on the Public Register? NO

All care and diligence has been taken to access the above information from available records. Historical records provided to the EPA concerning matters arising prior to 1 May 1995 are limited and may not be accurate or complete and therefore the EPA cannot confirm the accuracy of the historical information provided.


Delegate for
ENVIRONMENT PROTECTION AUTHORITY

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Telephone: (08)8204 2179

Contact: Gayle Brookshaw
Telephone: (08)8204 1112
Fax: (08)8124 4672

07 April, 2008

Dear Sir/Madam,

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

I refer to your enquiry concerning the parcel of land comprised in

Title Reference CT Volume 5868 Folio 766

Address Block 68 (D1671), Legoe Road, BUCKLAND PARK SA 5120

I advise as follows:

**PARTICULARS OF MORTGAGES, CHARGES & PRESCRIBED ENCUMBRANCES
AFFECTING THE LAND**

- | | | |
|-----|--|----|
| 53. | Environment performance agreement under section 59 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 54. | Environment protection order issued under section 93 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 55. | Clean-up order issued under section 99 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 56. | Clean-up authorisation issued under section 100 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |

PARTICULARS RELATING TO ENVIRONMENT PROTECTION

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

The answers to the following questions are shown:

Environmental assessments

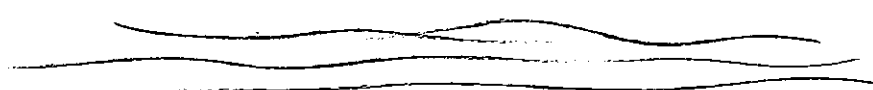
2. (3) Does the Environment Protection Authority hold a copy of a report on any environmental assessment of the land or a part of the land carried out at any time -
- (a) by or on behalf of the owner or occupier of the land -
- (i) pursuant to an authorisation, agreement or order under section 52(1)(b), 59, 93, 99, or 100 of the *Environment Protection Act 1993*;
or
- (ii) for the purposes of a notification given under section 83 of that Act;
or
- (b) by the Environment Protection Authority (whether alone or jointly with another authority);
or
- (c) by a Contaminated Site Auditor recognised by the Environment Protection Authority for the purposes of carrying out such an assessment? NO

Waste depots

3. (1) Was a licence to operate a waste depot on the land ever issued under the repealed *South Australian Waste Management Commission Act 1979*, a record of which is on the Public Register? NO
- (2) Was a licence to operate a waste depot on the land ever issued under the repealed *Waste Management Act 1987*, a record of which is on the Public Register? NO
- (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, a record of which is on the Public Register? NO
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, being a licence that is no longer in force and a record of which is on the Public Register? NO

Production of certain waste

4. (1) Was a licence under the repealed *South Australian Waste Management Commission Act 1979* ever issued for the production of waste of a prescribed kind (within the meaning of that Act) on the land, a record of which is on the Public Register? NO
- (2) Was a licence under the repealed *Waste Management Act 1987* ever issued for the production of prescribed waste (within the meaning of that Act) on the land, a record of which is on the Public Register? NO



4. (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, a record of which is on the Public Register?

NO

(4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, being a licence that is no longer in force and a record of which is on the Public Register?

NO

Waste on land

5. Did the former Waste Management Commission under the repealed *Waste Management Act 1987* have any record of waste (within the meaning of that Act) being deposited on the land between 1 January 1983 and 30 April 1995, details of which are on the Public Register?

NO

All care and diligence has been taken to access the above information from available records. Historical records provided to the EPA concerning matters arising prior to 1 May 1995 are limited and may not be accurate or complete and therefore the EPA cannot confirm the accuracy of the historical information provided.


Delegate for
ENVIRONMENT PROTECTION AUTHORITY

Connell Wagner Pty Ltd
55 Grenfell Street
ADELAIDE SA 5000

Contact: Rosslyn Farquharson
Telephone: (08)8204 2179

Contact: Gayle Brookshaw
Telephone: (08)8204 1112
Fax: (08)8124 4672

07 April, 2008

Dear Sir/Madam,

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

I refer to your enquiry concerning the parcel of land comprised in

Title Reference CT Volume 5868 Folio 772

Address Block 65 (D1671), Legoe Road, BUCKLAND PARK SA 5120

I advise as follows:

**PARTICULARS OF MORTGAGES, CHARGES & PRESCRIBED ENCUMBRANCES
AFFECTING THE LAND**

- | | | |
|-----|--|----|
| 53. | Environment performance agreement under section 59 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 54. | Environment protection order issued under section 93 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 55. | Clean-up order issued under section 99 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 56. | Clean-up authorisation issued under section 100 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |

PARTICULARS RELATING TO ENVIRONMENT PROTECTION

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

The answers to the following questions are shown:

Environmental assessments

- 2. (3) Does the Environment Protection Authority hold a copy of a report on any environmental assessment of the land or a part of the land carried out at any time -
 - (a) by or on behalf of the owner or occupier of the land -
 - (i) pursuant to an authorisation, agreement or order under section 52(1)(b), 59, 93, 99, or 100 of the *Environment Protection Act 1993*;
 - or
 - (ii) for the purposes of a notification given under section 83 of that Act;
 - or
 - (b) by the Environment Protection Authority (whether alone or jointly with another authority);
 - or
 - (c) by a Contaminated Site Auditor recognised by the Environment Protection Authority for the purposes of carrying out such an assessment?

NO

Waste depots

- 3. (1) Was a licence to operate a waste depot on the land ever issued under the repealed *South Australian Waste Management Commission Act 1979*, a record of which is on the Public Register?
- (2) Was a licence to operate a waste depot on the land ever issued under the repealed *Waste Management Act 1987*, a record of which is on the Public Register?
- (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, a record of which is on the Public Register?
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, being a licence that is no longer in force and a record of which is on the Public Register?

NO

NO

NO

NO

Production of certain waste

- 4. (1) Was a licence under the repealed *South Australian Waste Management Commission Act 1979* ever issued for the production of waste of a prescribed kind (within the meaning of that Act) on the land, a record of which is on the Public Register?
- (2) Was a licence under the repealed *Waste Management Act 1987* ever issued for the production of prescribed waste (within the meaning of that Act) on the land, a record of which is on the Public Register?

NO

NO

4. (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, a record of which is on the Public Register?

NO

(4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, being a licence that is no longer in force and a record of which is on the Public Register?

NO

Waste on land

5. Did the former Waste Management Commission under the repealed *Waste Management Act 1987* have any record of waste (within the meaning of that Act) being deposited on the land between 1 January 1983 and 30 April 1995, details of which are on the Public Register?

NO

All care and diligence has been taken to access the above information from available records. Historical records provided to the EPA concerning matters arising prior to 1 May 1995 are limited and may not be accurate or complete and therefore the EPA cannot confirm the accuracy of the historical information provided.



Delegate for
ENVIRONMENT PROTECTION AUTHORITY

Connell Wagner Pty Ltd
55 Grenfell Street
ADELAIDE SA 5000

Contact: Rosslyn Farquharson
Telephone: (08)8204 2179

Contact: Gayle Brookshaw
Telephone: (08)8204 1112
Fax: (08)8124 4672

07 April, 2008

Dear Sir/Madam,

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

I refer to your enquiry concerning the parcel of land comprised in

Title Reference CT Volume 5868 Folio 778

Address Block 66 (D1671), Legoe Road, BUCKLAND PARK SA 5120

I advise as follows:

**PARTICULARS OF MORTGAGES, CHARGES & PRESCRIBED ENCUMBRANCES
AFFECTING THE LAND**

- | | | |
|-----|--|----|
| 53. | Environment performance agreement under section 59 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 54. | Environment protection order issued under section 93 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 55. | Clean-up order issued under section 99 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 56. | Clean-up authorisation issued under section 100 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |

PARTICULARS RELATING TO ENVIRONMENT PROTECTION

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

The answers to the following questions are shown:

Environmental assessments

- 2. (3) Does the Environment Protection Authority hold a copy of a report on any environmental assessment of the land or a part of the land carried out at any time -
 - (a) by or on behalf of the owner or occupier of the land -
 - (i) pursuant to an authorisation, agreement or order under section 52(1)(b), 59, 93, 99, or 100 of the *Environment Protection Act 1993*;
 - or
 - (ii) for the purposes of a notification given under section 83 of that Act;
 - or
 - (b) by the Environment Protection Authority (whether alone or jointly with another authority);
 - or
 - (c) by a Contaminated Site Auditor recognised by the Environment Protection Authority for the purposes of carrying out such an assessment?

NO

Waste depots

- 3. (1) Was a licence to operate a waste depot on the land ever issued under the repealed *South Australian Waste Management Commission Act 1979*, a record of which is on the Public Register?
- (2) Was a licence to operate a waste depot on the land ever issued under the repealed *Waste Management Act 1987*, a record of which is on the Public Register?
- (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, a record of which is on the Public Register?
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, being a licence that is no longer in force and a record of which is on the Public Register?

NO

NO

NO

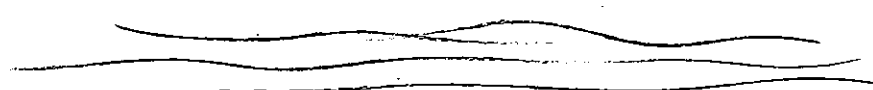
NO

Production of certain waste

- 4. (1) Was a licence under the repealed *South Australian Waste Management Commission Act 1979* ever issued for the production of waste of a prescribed kind (within the meaning of that Act) on the land, a record of which is on the Public Register?
- (2) Was a licence under the repealed *Waste Management Act 1987* ever issued for the production of prescribed waste (within the meaning of that Act) on the land, a record of which is on the Public Register?

NO

NO



4. (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, a record of which is on the Public Register?

NO

(4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, being a licence that is no longer in force and a record of which is on the Public Register?


NO

Waste on land

5. Did the former Waste Management Commission under the repealed *Waste Management Act 1987* have any record of waste (within the meaning of that Act) being deposited on the land between 1 January 1983 and 30 April 1995, details of which are on the Public Register?

NO

All care and diligence has been taken to access the above information from available records. Historical records provided to the EPA concerning matters arising prior to 1 May 1995 are limited and may not be accurate or complete and therefore the EPA cannot confirm the accuracy of the historical information provided.


Delegate for
ENVIRONMENT PROTECTION AUTHORITY

Connell Wagner Pty Ltd
55 Grenfell Street
ADELAIDE SA 5000

Contact: Rosslyn Farquharson
Telephone: (08)8204 2179

Contact: Gayle Brookshaw
Telephone: (08)8204 1112
Fax: (08)8124 4672

07 April, 2008

Dear Sir/Madam,

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

I refer to your enquiry concerning the parcel of land comprised in

Title Reference CT Volume 5868 Folio 767

Address Block 67 (D1671), Legoe Road, BUCKLAND PARK SA 5120

I advise as follows:

**PARTICULARS OF MORTGAGES, CHARGES & PRESCRIBED ENCUMBRANCES
AFFECTING THE LAND**

- | | | |
|-----|--|----|
| 53. | Environment performance agreement under section 59 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 54. | Environment protection order issued under section 93 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 55. | Clean-up order issued under section 99 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 56. | Clean-up authorisation issued under section 100 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |

PARTICULARS RELATING TO ENVIRONMENT PROTECTION

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

The answers to the following questions are shown:

Environmental assessments

2. (3) Does the Environment Protection Authority hold a copy of a report on any environmental assessment of the land or a part of the land carried out at any time -
- (a) by or on behalf of the owner or occupier of the land -
 - (i) pursuant to an authorisation, agreement or order under section 52(1)(b), 59, 93, 99, or 100 of the *Environment Protection Act 1993*;
 - or
 - (ii) for the purposes of a notification given under section 83 of that Act;
 - or
 - (b) by the Environment Protection Authority (whether alone or jointly with another authority);
 - or
 - (c) by a Contaminated Site Auditor recognised by the Environment Protection Authority for the purposes of carrying out such an assessment?

NO

Waste depots

3. (1) Was a licence to operate a waste depot on the land ever issued under the repealed *South Australian Waste Management Commission Act 1979*, a record of which is on the Public Register?
- (2) Was a licence to operate a waste depot on the land ever issued under the repealed *Waste Management Act 1987*, a record of which is on the Public Register?
- (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, a record of which is on the Public Register?
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, being a licence that is no longer in force and a record of which is on the Public Register?

NO

NO

NO

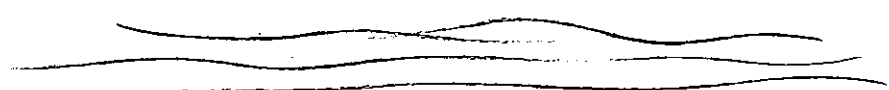
NO

Production of certain waste

4. (1) Was a licence under the repealed *South Australian Waste Management Commission Act 1979* ever issued for the production of waste of a prescribed kind (within the meaning of that Act) on the land, a record of which is on the Public Register?
- (2) Was a licence under the repealed *Waste Management Act 1987* ever issued for the production of prescribed waste (within the meaning of that Act) on the land, a record of which is on the Public Register?

NO

NO



4. (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, a record of which is on the Public Register? NO
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, being a licence that is no longer in force and a record of which is on the Public Register? NO

Waste on land

5. Did the former Waste Management Commission under the repealed *Waste Management Act 1987* have any record of waste (within the meaning of that Act) being deposited on the land between 1 January 1983 and 30 April 1995, details of which are on the Public Register? NO

All care and diligence has been taken to access the above information from available records. Historical records provided to the EPA concerning matters arising prior to 1 May 1995 are limited and may not be accurate or complete and therefore the EPA cannot confirm the accuracy of the historical information provided.


Delegate for
ENVIRONMENT PROTECTION AUTHORITY

Connell Wagner Pty Ltd
55 Grenfell Street
ADELAIDE SA 5000

Contact: Rosslyn Farquharson
Telephone: (08)8204 2179

Contact: Gayle Brookshaw
Telephone: (08)8204 1112
Fax: (08)8124 4672

07 April, 2008

Dear Sir/Madam,

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

I refer to your enquiry concerning the parcel of land comprised in

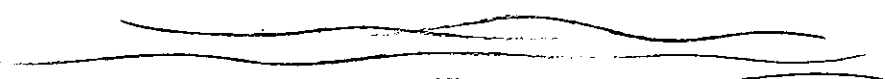
Title Reference CT Volume 5868 Folio 770

Address Block 59 (D1671), Legoe Road, BUCKLAND PARK SA 5120

I advise as follows:

**PARTICULARS OF MORTGAGES, CHARGES & PRESCRIBED ENCUMBRANCES
AFFECTING THE LAND**

- | | | |
|-----|--|----|
| 53. | Environment performance agreement under section 59 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 54. | Environment protection order issued under section 93 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 55. | Clean-up order issued under section 99 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 56. | Clean-up authorisation issued under section 100 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |



PARTICULARS RELATING TO ENVIRONMENT PROTECTION

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

The answers to the following questions are shown:

Environmental assessments

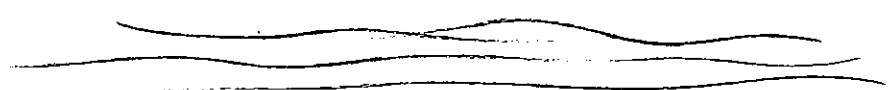
2. (3) Does the Environment Protection Authority hold a copy of a report on any environmental assessment of the land or a part of the land carried out at any time -
- (a) by or on behalf of the owner or occupier of the land -
 - (i) pursuant to an authorisation, agreement or order under section 52(1)(b), 59, 93, 99, or 100 of the *Environment Protection Act 1993*;
 - or
 - (ii) for the purposes of a notification given under section 83 of that Act;
 - or
 - (b) by the Environment Protection Authority (whether alone or jointly with another authority);
 - or
 - (c) by a Contaminated Site Auditor recognised by the Environment Protection Authority for the purposes of carrying out such an assessment?
- NO

Waste depots

3. (1) Was a licence to operate a waste depot on the land ever issued under the repealed *South Australian Waste Management Commission Act 1979*, a record of which is on the Public Register?
- NO
- (2) Was a licence to operate a waste depot on the land ever issued under the repealed *Waste Management Act 1987*, a record of which is on the Public Register?
- NO
- (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, a record of which is on the Public Register?
- NO
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, being a licence that is no longer in force and a record of which is on the Public Register?
- NO

Production of certain waste

4. (1) Was a licence under the repealed *South Australian Waste Management Commission Act 1979* ever issued for the production of waste of a prescribed kind (within the meaning of that Act) on the land, a record of which is on the Public Register?
- NO
- (2) Was a licence under the repealed *Waste Management Act 1987* ever issued for the production of prescribed waste (within the meaning of that Act) on the land, a record of which is on the Public Register?
- NO



4. (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, a record of which is on the Public Register? NO
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, being a licence that is no longer in force and a record of which is on the Public Register? NO

Waste on land

5. Did the former Waste Management Commission under the repealed *Waste Management Act 1987* have any record of waste (within the meaning of that Act) being deposited on the land between 1 January 1983 and 30 April 1995, details of which are on the Public Register? NO

All care and diligence has been taken to access the above information from available records. Historical records provided to the EPA concerning matters arising prior to 1 May 1995 are limited and may not be accurate or complete and therefore the EPA cannot confirm the accuracy of the historical information provided.


Delegate for
ENVIRONMENT PROTECTION AUTHORITY

Receipt No :
Admin No : 28727 (4376)
File Reference : EPA/1540; EPA/15079

Connell Wagner Pty Ltd
55 Grenfell Street
ADELAIDE SA 5000

Contact: Rosslyn Farquharson
Telephone: (08)8204 2179

Contact: Gayle Brookshaw
Telephone: (08)8204 1112
Fax: (08)8124 4672

07 April, 2008

Dear Sir/Madam,

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

I refer to your enquiry concerning the parcel of land comprised in

Title Reference CT Volume 5875 Folio 910

Address Pieces 1-4, Beagle Hole Road, BUCKLAND PARK SA 5120

I advise as follows:

**PARTICULARS OF MORTGAGES, CHARGES & PRESCRIBED ENCUMBRANCES
AFFECTING THE LAND**

- | | | |
|-----|--|----|
| 53. | Environment performance agreement under section 59 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 54. | Environment protection order issued under section 93 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 55. | Clean-up order issued under section 99 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 56. | Clean-up authorisation issued under section 100 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |

PARTICULARS RELATING TO ENVIRONMENT PROTECTION

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

The answers to the following questions are shown:

Environmental assessments

2. (3) Does the Environment Protection Authority hold a copy of a report on any environmental assessment of the land or a part of the land carried out at any time -
- (a) by or on behalf of the owner or occupier of the land -
- (i) pursuant to an authorisation, agreement or order under section 52(1)(b), 59, 93, 99, or 100 of the *Environment Protection Act 1993*;
or
- (ii) for the purposes of a notification given under section 83 of that Act;
or
- (b) by the Environment Protection Authority (whether alone or jointly with another authority);
or
- (c) by a Contaminated Site Auditor recognised by the Environment Protection Authority for the purposes of carrying out such an assessment? NO

Waste depots

3. (1) Was a licence to operate a waste depot on the land ever issued under the repealed *South Australian Waste Management Commission Act 1979*, a record of which is on the Public Register? NO
- (2) Was a licence to operate a waste depot on the land ever issued under the repealed *Waste Management Act 1987*, a record of which is on the Public Register? NO
- (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, a record of which is on the Public Register? NO
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, being a licence that is no longer in force and a record of which is on the Public Register? NO

Production of certain waste

4. (1) Was a licence under the repealed *South Australian Waste Management Commission Act 1979* ever issued for the production of waste of a prescribed kind (within the meaning of that Act) on the land, a record of which is on the Public Register? NO
- (2) Was a licence under the repealed *Waste Management Act 1987* ever issued for the production of prescribed waste (within the meaning of that Act) on the land, a record of which is on the Public Register? NO

4. (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, a record of which is on the Public Register? NO
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, being a licence that is no longer in force and a record of which is on the Public Register? NO

Waste on land

5. Did the former Waste Management Commission under the repealed *Waste Management Act 1987* have any record of waste (within the meaning of that Act) being deposited on the land between 1 January 1983 and 30 April 1995, details of which are on the Public Register? NO

A summary of the activities relating to wastes may be appended. Should you require any further information regarding this land (outside the Public Register details) please contact the Environment Protection Authority to make necessary arrangements.

Details and/or copies of environmental assessments, licences and records on the Public Register may be obtained from the Environment Protection Authority on payment of the prescribed fee.

Prior to arranging an examination and/or copies of the required above information please telephone (08) 8204 9128 to contact the Public Register Administrator to ensure the required details are available upon arrival.

All care and diligence has been taken to access the above information from available records. Historical records provided to the EPA concerning matters arising prior to 1 May 1995 are limited and may not be accurate or complete and therefore the EPA cannot confirm the accuracy of the historical information provided.



Delegate for
ENVIRONMENT PROTECTION AUTHORITY

NOTE

General

Although the answers to questions 3(4) and 4(4) are "NO", the Environment Protection Authority is aware of a non active licence for the activities of 1) Chemical Storage and Warehousing Facilities and 2) Chemical Works on this land. This information may be available by contacting the Public Register Administrator on telephone number 8204 9128 (a prescribed fee will apply).

NOTE

General

Although the answers to questions 3(3) and 4(3) are "NO", the Environment Protection Authority is aware of a current licence for the activities of 1) Chemical Storage and Warehousing Facilities and 2) Chemical Works on this land. This information may be available by contacting the Public Register Administrator on telephone number 8204 9128 (a prescribed fee will apply).

Connell Wagner Pty Ltd
55 Grenfell Street
ADELAIDE SA 5000

Contact: Rosslyn Farquharson
Telephone: (08)8204 2179

Contact: Gayle Brookshaw
Telephone: (08)8204 1112
Fax: (08)8124 4672

07 April, 2008

Dear Sir/Madam,

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

I refer to your enquiry concerning the parcel of land comprised in

Title Reference CT Volume 5868 Folio 785

Address Block 58 (D1671), Legoe Road, BUCKLAND PARK SA 5120

I advise as follows:

**PARTICULARS OF MORTGAGES, CHARGES & PRESCRIBED ENCUMBRANCES
AFFECTING THE LAND**

- | | | |
|-----|--|----|
| 53. | Environment performance agreement under section 59 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 54. | Environment protection order issued under section 93 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 55. | Clean-up order issued under section 99 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 56. | Clean-up authorisation issued under section 100 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |

PARTICULARS RELATING TO ENVIRONMENT PROTECTION

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

The answers to the following questions are shown:

Environmental assessments

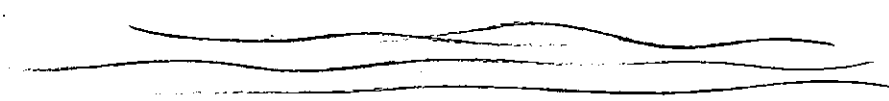
- 2. (3) Does the Environment Protection Authority hold a copy of a report on any environmental assessment of the land or a part of the land carried out at any time -
 - (a) by or on behalf of the owner or occupier of the land -
 - (i) pursuant to an authorisation, agreement or order under section 52(1)(b), 59, 93, 99, or 100 of the *Environment Protection Act 1993*;
 - or
 - (ii) for the purposes of a notification given under section 83 of that Act;
 - or
 - (b) by the Environment Protection Authority (whether alone or jointly with another authority);
 - or
 - (c) by a Contaminated Site Auditor recognised by the Environment Protection Authority for the purposes of carrying out such an assessment? NO

Waste depots

- 3. (1) Was a licence to operate a waste depot on the land ever issued under the repealed *South Australian Waste Management Commission Act 1979*, a record of which is on the Public Register? NO
- (2) Was a licence to operate a waste depot on the land ever issued under the repealed *Waste Management Act 1987*, a record of which is on the Public Register? NO
- (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, a record of which is on the Public Register? NO
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, being a licence that is no longer in force and a record of which is on the Public Register? NO

Production of certain waste

- 4. (1) Was a licence under the repealed *South Australian Waste Management Commission Act 1979* ever issued for the production of waste of a prescribed kind (within the meaning of that Act) on the land, a record of which is on the Public Register? NO
- (2) Was a licence under the repealed *Waste Management Act 1987* ever issued for the production of prescribed waste (within the meaning of that Act) on the land, a record of which is on the Public Register? NO



Environment Protection Authority

4. (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, a record of which is on the Public Register? NO

(4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, being a licence that is no longer in force and a record of which is on the Public Register? NO

Waste on land

5. Did the former Waste Management Commission under the repealed *Waste Management Act 1987* have any record of waste (within the meaning of that Act) being deposited on the land between 1 January 1983 and 30 April 1995, details of which are on the Public Register? NO

All care and diligence has been taken to access the above information from available records. Historical records provided to the EPA concerning matters arising prior to 1 May 1995 are limited and may not be accurate or complete and therefore the EPA cannot confirm the accuracy of the historical information provided.


Delegate for
ENVIRONMENT PROTECTION AUTHORITY

Connell Wagner Pty Ltd
55 Grenfell Street
ADELAIDE SA 5000

Contact: Rosilyn Farquharson
Telephone: (08)8204 2179

Contact: Gayle Brookshaw
Telephone: (08)8204 1112
Fax: (08)8124 4672

07 April, 2008

Dear Sir/Madam,

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

I refer to your enquiry concerning the parcel of land comprised in

Title Reference CT Volume 5868 Folio 782

Address Block 60 (D1671), Legoe Road, BUCKLAND PARK SA 5120

I advise as follows:

**PARTICULARS OF MORTGAGES, CHARGES & PRESCRIBED ENCUMBRANCES
AFFECTING THE LAND**

- | | | |
|-----|--|----|
| 53. | Environment performance agreement under section 59 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 54. | Environment protection order issued under section 93 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 55. | Clean-up order issued under section 99 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 56. | Clean-up authorisation issued under section 100 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |

PARTICULARS RELATING TO ENVIRONMENT PROTECTION

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

The answers to the following questions are shown:

Environmental assessments

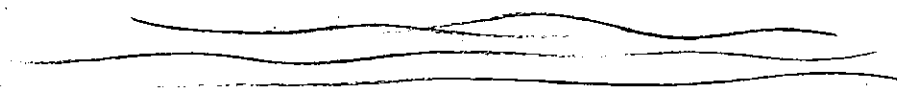
2. (3) Does the Environment Protection Authority hold a copy of a report on any environmental assessment of the land or a part of the land carried out at any time -
- (a) by or on behalf of the owner or occupier of the land -
 - (i) pursuant to an authorisation, agreement or order under section 52(1)(b), 59, 93, 99, or 100 of the *Environment Protection Act 1993*;
 - or
 - (ii) for the purposes of a notification given under section 83 of that Act;
 - or
 - (b) by the Environment Protection Authority (whether alone or jointly with another authority);
 - or
 - (c) by a Contaminated Site Auditor recognised by the Environment Protection Authority for the purposes of carrying out such an assessment? NO

Waste depots

- 3. (1) Was a licence to operate a waste depot on the land ever issued under the repealed *South Australian Waste Management Commission Act 1979*, a record of which is on the Public Register? NO
- (2) Was a licence to operate a waste depot on the land ever issued under the repealed *Waste Management Act 1987*, a record of which is on the Public Register? NO
- (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, a record of which is on the Public Register? NO
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, being a licence that is no longer in force and a record of which is on the Public Register? NO

Production of certain waste

- 4. (1) Was a licence under the repealed *South Australian Waste Management Commission Act 1979* ever issued for the production of waste of a prescribed kind (within the meaning of that Act) on the land, a record of which is on the Public Register? NO
- (2) Was a licence under the repealed *Waste Management Act 1987* ever issued for the production of prescribed waste (within the meaning of that Act) on the land, a record of which is on the Public Register? NO



4. (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, a record of which is on the Public Register? NO
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, being a licence that is no longer in force and a record of which is on the Public Register? NO

Waste on land

5. Did the former Waste Management Commission under the repealed *Waste Management Act 1987* have any record of waste (within the meaning of that Act) being deposited on the land between 1 January 1983 and 30 April 1995, details of which are on the Public Register? NO

All care and diligence has been taken to access the above information from available records. Historical records provided to the EPA concerning matters arising prior to 1 May 1995 are limited and may not be accurate or complete and therefore the EPA cannot confirm the accuracy of the historical information provided.


Delegate for
ENVIRONMENT PROTECTION AUTHORITY

Contact: Rosslyn Farquharson
Telephone: (08)8204 2179

Connell Wagner Pty Ltd
55 Grenfell Street
ADELAIDE SA 5000

Contact: Gayle Brookshaw
Telephone: (08)8204 1112
Fax: (08)8124 4672

07 April, 2008

Dear Sir/Madam,

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

I refer to your enquiry concerning the parcel of land comprised in

Title Reference CT Volume 5868 Folio 779

Address Allotment 91 (F174402), Legoe Road, BUCKLAND PARK SA 5120

I advise as follows:

**PARTICULARS OF MORTGAGES, CHARGES & PRESCRIBED ENCUMBRANCES
AFFECTING THE LAND**

- | | | |
|-----|--|----|
| 53. | Environment performance agreement under section 59 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 54. | Environment protection order issued under section 93 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 55. | Clean-up order issued under section 99 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 56. | Clean-up authorisation issued under section 100 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |

PARTICULARS RELATING TO ENVIRONMENT PROTECTION

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

The answers to the following questions are shown:

Environmental assessments

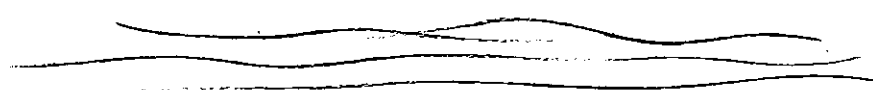
2. (3) Does the Environment Protection Authority hold a copy of a report on any environmental assessment of the land or a part of the land carried out at any time -
- (a) by or on behalf of the owner or occupier of the land -
- (i) pursuant to an authorisation, agreement or order under section 52(1)(b), 59, 93, 99, or 100 of the *Environment Protection Act 1993*;
- or
- (ii) for the purposes of a notification given under section 83 of that Act;
- or
- (b) by the Environment Protection Authority (whether alone or jointly with another authority);
- or
- (c) by a Contaminated Site Auditor recognised by the Environment Protection Authority for the purposes of carrying out such an assessment? NO

Waste depots

3. (1) Was a licence to operate a waste depot on the land ever issued under the repealed *South Australian Waste Management Commission Act 1979*, a record of which is on the Public Register? NO
- (2) Was a licence to operate a waste depot on the land ever issued under the repealed *Waste Management Act 1987*, a record of which is on the Public Register? NO
- (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, a record of which is on the Public Register? NO
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, being a licence that is no longer in force and a record of which is on the Public Register? NO

Production of certain waste

4. (1) Was a licence under the repealed *South Australian Waste Management Commission Act 1979* ever issued for the production of waste of a prescribed kind (within the meaning of that Act) on the land, a record of which is on the Public Register? NO
- (2) Was a licence under the repealed *Waste Management Act 1987* ever issued for the production of prescribed waste (within the meaning of that Act) on the land, a record of which is on the Public Register? NO



4. (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, a record of which is on the Public Register?

NO

(4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, being a licence that is no longer in force and a record of which is on the Public Register?

NO

Waste on land

5. Did the former Waste Management Commission under the repealed *Waste Management Act 1987* have any record of waste (within the meaning of that Act) being deposited on the land between 1 January 1983 and 30 April 1995, details of which are on the Public Register?

NO

All care and diligence has been taken to access the above information from available records. Historical records provided to the EPA concerning matters arising prior to 1 May 1995 are limited and may not be accurate or complete and therefore the EPA cannot confirm the accuracy of the historical information provided.



Delegate for
ENVIRONMENT PROTECTION AUTHORITY

Connell Wagner Pty Ltd
55 Grenfell Street
ADELAIDE SA 5000

Contact: Rosslyn Farquharson
Telephone: (08)8204 2179

Contact: Gayle Brookshaw
Telephone: (08)8204 1112
Fax: (08)8124 4672

07 April, 2008

Dear Sir/Madam,

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

I refer to your enquiry concerning the parcel of land comprised in

Title Reference CT Volume 5868 Folio 769

Address Allotment 91 (F163644), Legoe Road, BUCKLAND PARK SA 5120

I advise as follows:

**PARTICULARS OF MORTGAGES, CHARGES & PRESCRIBED ENCUMBRANCES
AFFECTING THE LAND**

- | | | |
|-----|--|----|
| 53: | Environment performance agreement under section 59 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 54: | Environment protection order issued under section 93 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 55: | Clean-up order issued under section 99 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 56: | Clean-up authorisation issued under section 100 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |

PARTICULARS RELATING TO ENVIRONMENT PROTECTION

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

The answers to the following questions are shown:

Environmental assessments

2. (3) Does the Environment Protection Authority hold a copy of a report on any environmental assessment of the land or a part of the land carried out at any time -
- (a) by or on behalf of the owner or occupier of the land -
- (i) pursuant to an authorisation, agreement or order under section 52(1)(b), 59, 93, 99, or 100 of the *Environment Protection Act 1993*;
or
- (ii) for the purposes of a notification given under section 83 of that Act;
or
- (b) by the Environment Protection Authority (whether alone or jointly with another authority);
or
- (c) by a Contaminated Site Auditor recognised by the Environment Protection Authority for the purposes of carrying out such an assessment? NO

Waste depots

3. (1) Was a licence to operate a waste depot on the land ever issued under the repealed *South Australian Waste Management Commission Act 1979*, a record of which is on the Public Register? NO
- (2) Was a licence to operate a waste depot on the land ever issued under the repealed *Waste Management Act 1987*, a record of which is on the Public Register? NO
- (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, a record of which is on the Public Register? NO
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, being a licence that is no longer in force and a record of which is on the Public Register? NO

Production of certain waste

4. (1) Was a licence under the repealed *South Australian Waste Management Commission Act 1979* ever issued for the production of waste of a prescribed kind (within the meaning of that Act) on the land, a record of which is on the Public Register? NO
- (2) Was a licence under the repealed *Waste Management Act 1987* ever issued for the production of prescribed waste (within the meaning of that Act) on the land, a record of which is on the Public Register? NO

4. (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, a record of which is on the Public Register? NO

(4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, being a licence that is no longer in force and a record of which is on the Public Register? NO

Waste on land

5. Did the former Waste Management Commission under the repealed *Waste Management Act 1987* have any record of waste (within the meaning of that Act) being deposited on the land between 1 January 1983 and 30 April 1995, details of which are on the Public Register? NO

All care and diligence has been taken to access the above information from available records. Historical records provided to the EPA concerning matters arising prior to 1 May 1995 are limited and may not be accurate or complete and therefore the EPA cannot confirm the accuracy of the historical information provided.



Delegate for
ENVIRONMENT PROTECTION AUTHORITY

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Connell Wagner Pty Ltd
55 Grenfell Street
ADELAIDE SA 5000

Contact: Gayle Brookshaw
Telephone: (08)8204 1112
Fax: (08)8124 4672

07 April, 2008

Dear Sir/Madam,

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

I refer to your enquiry concerning the parcel of land comprised in

Title Reference CT Volume 5868 Folio 774

Address Allotment 91 (F174425), Legoe Road, BUCKLAND PARK SA 5120

I advise as follows:

**PARTICULARS OF MORTGAGES, CHARGES & PRESCRIBED ENCUMBRANCES
AFFECTING THE LAND**

- | | | |
|-----|--|----|
| 53. | Environment performance agreement under section 59 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 54. | Environment protection order issued under section 93 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 55. | Clean-up order issued under section 99 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 56. | Clean-up authorisation issued under section 100 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |

PARTICULARS RELATING TO ENVIRONMENT PROTECTION

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

The answers to the following questions are shown:

Environmental assessments

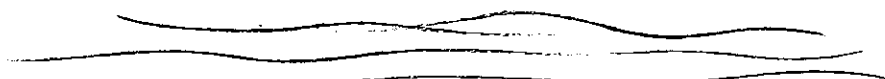
- 2. (3) Does the Environment Protection Authority hold a copy of a report on any environmental assessment of the land or a part of the land carried out at any time -
 - (a) by or on behalf of the owner or occupier of the land -
 - (i) pursuant to an authorisation, agreement or order under section 52(1)(b), 59, 93, 99, or 100 of the *Environment Protection Act 1993*;
 - or
 - (ii) for the purposes of a notification given under section 83 of that Act;
 - or
 - (b) by the Environment Protection Authority (whether alone or jointly with another authority);
 - or
 - (c) by a Contaminated Site Auditor recognised by the Environment Protection Authority for the purposes of carrying out such an assessment? NO

Waste depots

- 3. (1) Was a licence to operate a waste depot on the land ever issued under the repealed *South Australian Waste Management Commission Act 1979*, a record of which is on the Public Register? NO
- (2) Was a licence to operate a waste depot on the land ever issued under the repealed *Waste Management Act 1987*, a record of which is on the Public Register? NO
- (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, a record of which is on the Public Register? NO
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, being a licence that is no longer in force and a record of which is on the Public Register? NO

Production of certain waste

- 4. (1) Was a licence under the repealed *South Australian Waste Management Commission Act 1979* ever issued for the production of waste of a prescribed kind (within the meaning of that Act) on the land, a record of which is on the Public Register? NO
- (2) Was a licence under the repealed *Waste Management Act 1987* ever issued for the production of prescribed waste (within the meaning of that Act) on the land, a record of which is on the Public Register? NO



Environment Protection Authority

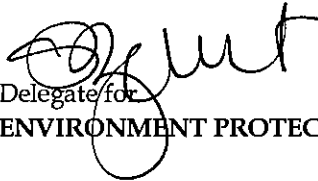
4. (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, a record of which is on the Public Register? NO

~~(4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, being a licence that is no longer in force and a record of which is on the Public Register?~~ NO

Waste on land

5. Did the former Waste Management Commission under the repealed *Waste Management Act 1987* have any record of waste (within the meaning of that Act) being deposited on the land between 1 January 1983 and 30 April 1995, details of which are on the Public Register? NO

All care and diligence has been taken to access the above information from available records. Historical records provided to the EPA concerning matters arising prior to 1 May 1995 are limited and may not be accurate or complete and therefore the EPA cannot confirm the accuracy of the historical information provided.


Delegate for
ENVIRONMENT PROTECTION AUTHORITY

Contact: Rosslyn Farquharson
Telephone: (08)8204 2179

Connell-Wagner Pty Ltd
55 Grenfell Street
ADELAIDE SA 5000

Contact: Gayle Brookshaw
Telephone: (08)8204 1112
Fax: (08)8124 4672

07 April, 2008

Dear Sir/Madam,

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

I refer to your enquiry concerning the parcel of land comprised in

Title Reference CT Volume 5868 Folio 773

Address Allotment 91 (F174403), Legoe Road, BUCKLAND PARK SA 5120

I advise as follows:

**PARTICULARS OF MORTGAGES, CHARGES & PRESCRIBED ENCUMBRANCES
AFFECTING THE LAND**

- | | | |
|-----|--|----|
| 53. | Environment performance agreement under section 59 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 54. | Environment protection order issued under section 93 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 55. | Clean-up order issued under section 99 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 56. | Clean-up authorisation issued under section 100 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |

PARTICULARS RELATING TO ENVIRONMENT PROTECTION

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

The answers to the following questions are shown:

Environmental assessments

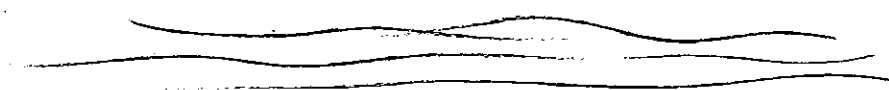
2. (3) Does the Environment Protection Authority hold a copy of a report on any environmental assessment of the land or a part of the land carried out at any time -
- (a) by or on behalf of the owner or occupier of the land -
 - (i) pursuant to an authorisation, agreement or order under section 52(1)(b), 59, 93, 99, or 100 of the *Environment Protection Act 1993*;
 - or
 - (ii) for the purposes of a notification given under section 83 of that Act;
 - or
 - (b) by the Environment Protection Authority (whether alone or jointly with another authority);
 - or
 - (c) by a Contaminated Site Auditor recognised by the Environment Protection Authority for the purposes of carrying out such an assessment?
- NO

Waste depots

3. (1) Was a licence to operate a waste depot on the land ever issued under the repealed *South Australian Waste Management Commission Act 1979*, a record of which is on the Public Register? NO
- (2) Was a licence to operate a waste depot on the land ever issued under the repealed *Waste Management Act 1987*, a record of which is on the Public Register? NO
- (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, a record of which is on the Public Register? NO
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, being a licence that is no longer in force and a record of which is on the Public Register? NO

Production of certain waste

4. (1) Was a licence under the repealed *South Australian Waste Management Commission Act 1979* ever issued for the production of waste of a prescribed kind (within the meaning of that Act) on the land, a record of which is on the Public Register? NO
- (2) Was a licence under the repealed *Waste Management Act 1987* ever issued for the production of prescribed waste (within the meaning of that Act) on the land, a record of which is on the Public Register? NO




4. (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, a record of which is on the Public Register? NO

(4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, being a licence that is no longer in force and a record of which is on the Public Register? NO

Waste on land

5. Did the former Waste Management Commission under the repealed *Waste Management Act 1987* have any record of waste (within the meaning of that Act) being deposited on the land between 1 January 1983 and 30 April 1995, details of which are on the Public Register? NO

All care and diligence has been taken to access the above information from available records. Historical records provided to the EPA concerning matters arising prior to 1 May 1995 are limited and may not be accurate or complete and therefore the EPA cannot confirm the accuracy of the historical information provided.



Delegate for
ENVIRONMENT PROTECTION AUTHORITY

Connell Wagner Pty Ltd
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ADELAIDE SA 5000

Contact: Rosslyn Farquharson
Telephone: (08)8204 2179

Contact: Gayle Brookshaw
Telephone: (08)8204 1112
Fax: (08)8124 4672

07 April, 2008

Dear Sir/Madam,

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

I refer to your enquiry concerning the parcel of land comprised in

Title Reference CT Volume 5916 Folio 60

Address Allotment 2 (D63928), Legoe Road, BUCKLAND PARK SA 5120

I advise as follows:

**PARTICULARS OF MORTGAGES, CHARGES & PRESCRIBED ENCUMBRANCES
AFFECTING THE LAND**

- | | | |
|-----|--|----|
| 53. | Environment performance agreement under section 59 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 54. | Environment protection order issued under section 93 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 55. | Clean-up order issued under section 99 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 56. | Clean-up authorisation issued under section 100 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |

PARTICULARS RELATING TO ENVIRONMENT PROTECTION

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

The answers to the following questions are shown:

Environmental assessments

2. (3) Does the Environment Protection Authority hold a copy of a report on any environmental assessment of the land or a part of the land carried out at any time -
- (a) by or on behalf of the owner or occupier of the land -
 - (i) pursuant to an authorisation, agreement or order under section 52(1)(b), 59, 93, 99, or 100 of the *Environment Protection Act 1993*;
 - or
 - (ii) for the purposes of a notification given under section 83 of that Act;
 - or
 - (b) by the Environment Protection Authority (whether alone or jointly with another authority);
 - or
 - (c) by a Contaminated Site Auditor recognised by the Environment Protection Authority for the purposes of carrying out such an assessment?

NO

Waste depots

3. (1) Was a licence to operate a waste depot on the land ever issued under the repealed *South Australian Waste Management Commission Act 1979*, a record of which is on the Public Register?
- (2) Was a licence to operate a waste depot on the land ever issued under the repealed *Waste Management Act 1987*, a record of which is on the Public Register?
- (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, a record of which is on the Public Register?
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, being a licence that is no longer in force and a record of which is on the Public Register?

NO

NO

NO

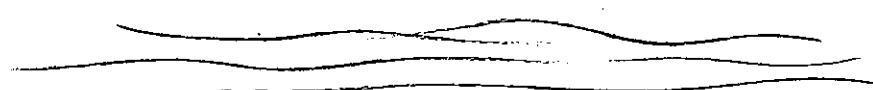
NO

Production of certain waste

4. (1) Was a licence under the repealed *South Australian Waste Management Commission Act 1979* ever issued for the production of waste of a prescribed kind (within the meaning of that Act) on the land, a record of which is on the Public Register?
- (2) Was a licence under the repealed *Waste Management Act 1987* ever issued for the production of prescribed waste (within the meaning of that Act) on the land, a record of which is on the Public Register?

NO

NO

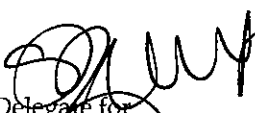


4. (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, a record of which is on the Public Register? NO
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, being a licence that is no longer in force and a record of which is on the Public Register? NO

Waste on land

5. Did the former Waste Management Commission under the repealed *Waste Management Act 1987* have any record of waste (within the meaning of that Act) being deposited on the land between 1 January 1983 and 30 April 1995, details of which are on the Public Register? NO

All care and diligence has been taken to access the above information from available records. Historical records provided to the EPA concerning matters arising prior to 1 May 1995 are limited and may not be accurate or complete and therefore the EPA cannot confirm the accuracy of the historical information provided.


Delegate for
ENVIRONMENT PROTECTION AUTHORITY

Connell Wagner Pty Ltd
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ADELAIDE SA 5000

Contact: Rosslyn Farquharson
Telephone: (08)8204 2179

Contact: Gayle Brookshaw
Telephone: (08)8204 1112
Fax: (08)8124 4672

07 April, 2008

Dear Sir/Madam,

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

I refer to your enquiry concerning the parcel of land comprised in

Title Reference CT Volume 5916 Folio 61

Address Allotment 3 (D63928), Virginia Bypass, BUCKLAND PARK SA 5120

I advise as follows:

**PARTICULARS OF MORTGAGES, CHARGES & PRESCRIBED ENCUMBRANCES
AFFECTING THE LAND**

53.	Environment performance agreement under section 59 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land.	NO
54.	Environment protection order issued under section 93 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land.	NO
55.	Clean-up order issued under section 99 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land.	NO
56.	Clean-up authorisation issued under section 100 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land.	NO

PARTICULARS RELATING TO ENVIRONMENT PROTECTION

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

The answers to the following questions are shown:

Environmental assessments

2. (3) Does the Environment Protection Authority hold a copy of a report on any environmental assessment of the land or a part of the land carried out at any time -
- (a) by or on behalf of the owner or occupier of the land -
 - (i) pursuant to an authorisation, agreement or order under section 52(1)(b), 59, 93, 99, or 100 of the *Environment Protection Act 1993*;
 - or
 - (ii) for the purposes of a notification given under section 83 of that Act;
 - or
 - (b) by the Environment Protection Authority (whether alone or jointly with another authority);
 - or
 - (c) by a Contaminated Site Auditor recognised by the Environment Protection Authority for the purposes of carrying out such an assessment?

NO

Waste depots

3. (1) Was a licence to operate a waste depot on the land ever issued under the repealed *South Australian Waste Management Commission Act 1979*, a record of which is on the Public Register?
- (2) Was a licence to operate a waste depot on the land ever issued under the repealed *Waste Management Act 1987*, a record of which is on the Public Register?
- (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, a record of which is on the Public Register?
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, being a licence that is no longer in force and a record of which is on the Public Register?

NO

NO

NO

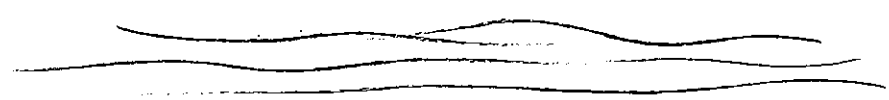
NO

Production of certain waste

4. (1) Was a licence under the repealed *South Australian Waste Management Commission Act 1979* ever issued for the production of waste of a prescribed kind (within the meaning of that Act) on the land, a record of which is on the Public Register?
- (2) Was a licence under the repealed *Waste Management Act 1987* ever issued for the production of prescribed waste (within the meaning of that Act) on the land, a record of which is on the Public Register?

NO

NO



Environment Protection Authority

4. (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, a record of which is on the Public Register? NO
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, being a licence that is no longer in force and a record of which is on the Public Register? NO

Waste on land

5. Did the former Waste Management Commission under the repealed *Waste Management Act 1987* have any record of waste (within the meaning of that Act) being deposited on the land between 1 January 1983 and 30 April 1995, details of which are on the Public Register? NO

All care and diligence has been taken to access the above information from available records. Historical records provided to the EPA concerning matters arising prior to 1 May 1995 are limited and may not be accurate or complete and therefore the EPA cannot confirm the accuracy of the historical information provided.



Delegate for
ENVIRONMENT PROTECTION AUTHORITY

Connell Wagner Pty Ltd
55 Grenfell Street
ADELAIDE SA 5000

Contact: Rosslyn Farquharson
Telephone: (08)8204 2179

Contact: Gayle Brookshaw
Telephone: (08)8204 1112
Fax: (08)8124 4672

07 April, 2008

Dear Sir/Madam,

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

I refer to your enquiry concerning the parcel of land comprised in

Title Reference CT Volume 5251 Folio 815

Address Allotment 3 (D41548), Park Road, BUCKLAND PARK SA 5120

I advise as follows:

**PARTICULARS OF MORTGAGES, CHARGES & PRESCRIBED ENCUMBRANCES
AFFECTING THE LAND**

- | | | |
|-----|--|----|
| 53. | Environment performance agreement under section 59 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 54. | Environment protection order issued under section 93 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 55. | Clean-up order issued under section 99 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 56. | Clean-up authorisation issued under section 100 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |

PARTICULARS RELATING TO ENVIRONMENT PROTECTION

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

The answers to the following questions are shown:

Environmental assessments

2. (3) Does the Environment Protection Authority hold a copy of a report on any environmental assessment of the land or a part of the land carried out at any time -
- (a) by or on behalf of the owner or occupier of the land -
 - (i) pursuant to an authorisation, agreement or order under section 52(1)(b), 59, 93, 99, or 100 of the *Environment Protection Act 1993*;
 - or
 - (ii) for the purposes of a notification given under section 83 of that Act;
 - or
 - (b) by the Environment Protection Authority (whether alone or jointly with another authority);
 - or
 - (c) by a Contaminated Site Auditor recognised by the Environment Protection Authority for the purposes of carrying out such an assessment?

NO

Waste depots

3. (1) Was a licence to operate a waste depot on the land ever issued under the repealed *South Australian Waste Management Commission Act 1979*, a record of which is on the Public Register?
- (2) Was a licence to operate a waste depot on the land ever issued under the repealed *Waste Management Act 1987*, a record of which is on the Public Register?
- (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, a record of which is on the Public Register?
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, being a licence that is no longer in force and a record of which is on the Public Register?

NO

NO

NO

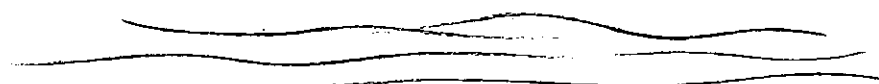
NO

Production of certain waste

4. (1) Was a licence under the repealed *South Australian Waste Management Commission Act 1979* ever issued for the production of waste of a prescribed kind (within the meaning of that Act) on the land, a record of which is on the Public Register?
- (2) Was a licence under the repealed *Waste Management Act 1987* ever issued for the production of prescribed waste (within the meaning of that Act) on the land, a record of which is on the Public Register?

NO

NO



Environment Protection Authority

4. (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, a record of which is on the Public Register? NO
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, being a licence that is no longer in force and a record of which is on the Public Register? NO

Waste on land

5. Did the former Waste Management Commission under the repealed *Waste Management Act 1987* have any record of waste (within the meaning of that Act) being deposited on the land between 1 January 1983 and 30 April 1995, details of which are on the Public Register? NO

All care and diligence has been taken to access the above information from available records. Historical records provided to the EPA concerning matters arising prior to 1 May 1995 are limited and may not be accurate or complete and therefore the EPA cannot confirm the accuracy of the historical information provided.


Delegate for
ENVIRONMENT PROTECTION AUTHORITY

Connell Wagner Pty Ltd
55 Grenfell Street
ADELAIDE SA 5000

Contact: Rosslyn Farquharson
Telephone: (08)8204 2179

Contact: Gayle Brookshaw
Telephone: (08)8204 1112
Fax: (08)8124 4672

07 April, 2008

Dear Sir/Madam,

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

I refer to your enquiry concerning the parcel of land comprised in

Title Reference CT Volume 5251 Folio 814

Address Allotment 2 (D41548), Park Road, BUCKLAND PARK SA 5120

I advise as follows:

**PARTICULARS OF MORTGAGES, CHARGES & PRESCRIBED ENCUMBRANCES
AFFECTING THE LAND**

- | | | |
|-----|--|----|
| 53. | Environment performance agreement under section 59 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 54. | Environment protection order issued under section 93 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 55. | Clean-up order issued under section 99 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 56. | Clean-up authorisation issued under section 100 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |

PARTICULARS RELATING TO ENVIRONMENT PROTECTION

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

The answers to the following questions are shown:

Environmental assessments

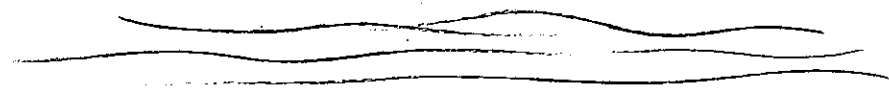
2. (3) Does the Environment Protection Authority hold a copy of a report on any environmental assessment of the land or a part of the land carried out at any time -
- (a) by or on behalf of the owner or occupier of the land -
 - (i) pursuant to an authorisation, agreement or order under section 52(1)(b), 59, 93, 99, or 100 of the *Environment Protection Act 1993*;
 - or
 - (ii) for the purposes of a notification given under section 83 of that Act;
 - or
 - (b) by the Environment Protection Authority (whether alone or jointly with another authority);
 - or
 - (c) by a Contaminated Site Auditor recognised by the Environment Protection Authority for the purposes of carrying out such an assessment? NO

Waste depots

3. (1) Was a licence to operate a waste depot on the land ever issued under the repealed *South Australian Waste Management Commission Act 1979*, a record of which is on the Public Register? NO
- (2) Was a licence to operate a waste depot on the land ever issued under the repealed *Waste Management Act 1987*, a record of which is on the Public Register? NO
- (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, a record of which is on the Public Register? NO
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, being a licence that is no longer in force and a record of which is on the Public Register? NO

Production of certain waste

4. (1) Was a licence under the repealed *South Australian Waste Management Commission Act 1979* ever issued for the production of waste of a prescribed kind (within the meaning of that Act) on the land, a record of which is on the Public Register? NO
- (2) Was a licence under the repealed *Waste Management Act 1987* ever issued for the production of prescribed waste (within the meaning of that Act) on the land, a record of which is on the Public Register? NO



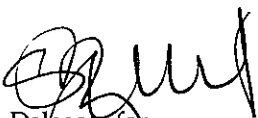
Environment Protection Authority

4. (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, a record of which is on the Public Register? NO
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, being a licence that is no longer in force and a record of which is on the Public Register? NO

Waste on land

5. Did the former Waste Management Commission under the repealed *Waste Management Act 1987* have any record of waste (within the meaning of that Act) being deposited on the land between 1 January 1983 and 30 April 1995, details of which are on the Public Register? NO

All care and diligence has been taken to access the above information from available records. Historical records provided to the EPA concerning matters arising prior to 1 May 1995 are limited and may not be accurate or complete and therefore the EPA cannot confirm the accuracy of the historical information provided.



Delegate for
ENVIRONMENT PROTECTION AUTHORITY

Connell Wagner Pty Ltd
55 Grenfell Street
ADELAIDE SA 5000

Contact: Rosslyn Farquharson
Telephone: (08)8204 2179

Contact: Gayle Brookshaw
Telephone: (08)8204 1112
Fax: (08)8124 4672

07 April, 2008

Dear Sir/Madam,

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

I refer to your enquiry concerning the parcel of land comprised in

Title Reference CT Volume 5251 Folio 813

Address Allotment 1 (D41548), Park Road, BUCKLAND PARK SA 5120

I advise as follows:

**PARTICULARS OF MORTGAGES, CHARGES & PRESCRIBED ENCUMBRANCES
AFFECTING THE LAND**

- | | | |
|-----|--|----|
| 53. | Environment performance agreement under section 59 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 54. | Environment protection order issued under section 93 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 55. | Clean-up order issued under section 99 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 56. | Clean-up authorisation issued under section 100 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |

PARTICULARS RELATING TO ENVIRONMENT PROTECTION

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

The answers to the following questions are shown:

Environmental assessments

2. (3) Does the Environment Protection Authority hold a copy of a report on any environmental assessment of the land or a part of the land carried out at any time -
- (a) by or on behalf of the owner or occupier of the land -
 - (i) pursuant to an authorisation, agreement or order under section 52(1)(b), 59, 93, 99, or 100 of the *Environment Protection Act 1993*;
 - or
 - (ii) for the purposes of a notification given under section 83 of that Act;
 - or
 - (b) by the Environment Protection Authority (whether alone or jointly with another authority);
 - or
 - (c) by a Contaminated Site Auditor recognised by the Environment Protection Authority for the purposes of carrying out such an assessment?

NO

Waste depots

3. (1) Was a licence to operate a waste depot on the land ever issued under the repealed *South Australian Waste Management Commission Act 1979*, a record of which is on the Public Register?
- (2) Was a licence to operate a waste depot on the land ever issued under the repealed *Waste Management Act 1987*, a record of which is on the Public Register?
- (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, a record of which is on the Public Register?
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, being a licence that is no longer in force and a record of which is on the Public Register?

NO

NO

NO

NO

Production of certain waste

4. (1) Was a licence under the repealed *South Australian Waste Management Commission Act 1979* ever issued for the production of waste of a prescribed kind (within the meaning of that Act) on the land, a record of which is on the Public Register?
- (2) Was a licence under the repealed *Waste Management Act 1987* ever issued for the production of prescribed waste (within the meaning of that Act) on the land, a record of which is on the Public Register?

NO

NO

4. (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, a record of which is on the Public Register?

NO

(4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, being a licence that is no longer in force and a record of which is on the Public Register?

NO

Waste on land

5. Did the former Waste Management Commission under the repealed *Waste Management Act 1987* have any record of waste (within the meaning of that Act) being deposited on the land between 1 January 1983 and 30 April 1995, details of which are on the Public Register?

NO

All care and diligence has been taken to access the above information from available records. Historical records provided to the EPA concerning matters arising prior to 1 May 1995 are limited and may not be accurate or complete and therefore the EPA cannot confirm the accuracy of the historical information provided.


Delegate for
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Contact: Rosslyn Farquharson
Telephone: (08)8204 2179

Contact: Gayle Brookshaw
Telephone: (08)8204 1112
Fax: (08)8124 4672

07 April, 2008

Dear Sir/Madam,

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

I refer to your enquiry concerning the parcel of land comprised in

Title Reference CT Volume 5759 Folio 187

Address Allotment 249, Park Road, BUCKLAND PARK SA 5120

I advise as follows:

**PARTICULARS OF MORTGAGES, CHARGES & PRESCRIBED ENCUMBRANCES
AFFECTING THE LAND**

- | | | |
|-----|--|----|
| 53. | Environment performance agreement under section 59 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 54. | Environment protection order issued under section 93 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 55. | Clean-up order issued under section 99 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 56. | Clean-up authorisation issued under section 100 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |

PARTICULARS RELATING TO ENVIRONMENT PROTECTION

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

The answers to the following questions are shown:

Environmental assessments

2. (3) Does the Environment Protection Authority hold a copy of a report on any environmental assessment of the land or a part of the land carried out at any time -
- (a) by or on behalf of the owner or occupier of the land -
 - (i) pursuant to an authorisation, agreement or order under section 52(1)(b), 59, 93, 99, or 100 of the *Environment Protection Act 1993*;
 - or
 - (ii) for the purposes of a notification given under section 83 of that Act;
 - or
 - (b) by the Environment Protection Authority (whether alone or jointly with another authority);
 - or
 - (c) by a Contaminated Site Auditor recognised by the Environment Protection Authority for the purposes of carrying out such an assessment?

NO

Waste depots

3. (1) Was a licence to operate a waste depot on the land ever issued under the repealed *South Australian Waste Management Commission Act 1979*, a record of which is on the Public Register?
- (2) Was a licence to operate a waste depot on the land ever issued under the repealed *Waste Management Act 1987*, a record of which is on the Public Register?
- (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, a record of which is on the Public Register?
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, being a licence that is no longer in force and a record of which is on the Public Register?

NO

NO

NO

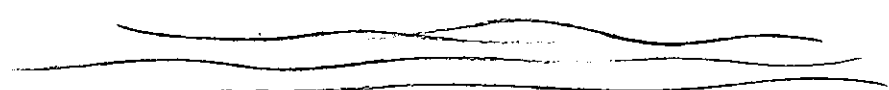
NO

Production of certain waste

4. (1) Was a licence under the repealed *South Australian Waste Management Commission Act 1979* ever issued for the production of waste of a prescribed kind (within the meaning of that Act) on the land, a record of which is on the Public Register?
- (2) Was a licence under the repealed *Waste Management Act 1987* ever issued for the production of prescribed waste (within the meaning of that Act) on the land, a record of which is on the Public Register?

NO

NO



4. (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, a record of which is on the Public Register? NO

(4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, being a licence that is no longer in force and a record of which is on the Public Register? NO

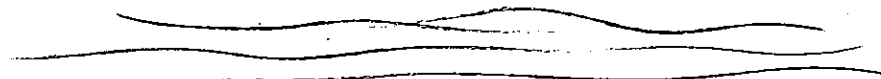
Waste on land

5. Did the former Waste Management Commission under the repealed *Waste Management Act 1987* have any record of waste (within the meaning of that Act) being deposited on the land between 1 January 1983 and 30 April 1995, details of which are on the Public Register? NO

All care and diligence has been taken to access the above information from available records. Historical records provided to the EPA concerning matters arising prior to 1 May 1995 are limited and may not be accurate or complete and therefore the EPA cannot confirm the accuracy of the historical information provided.



Delegated for
ENVIRONMENT PROTECTION AUTHORITY



Connell Wagner Pty Ltd
55 Grenfell Street
ADELAIDE SA 5000

Contact: Rosslyn Farquharson
Telephone: (08)8204 2179

Contact: Gayle Brookshaw
Telephone: (08)8204 1112
Fax: (08)8124 4672

07 April, 2008

Dear Sir/Madam,

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

I refer to your enquiry concerning the parcel of land comprised in

Title Reference CT Volume 5916 Folio 62

Address Allotment 4 (D63928), Park Road, BUCKLAND PARK SA 5120

I advise as follows:

**PARTICULARS OF MORTGAGES, CHARGES & PRESCRIBED ENCUMBRANCES
AFFECTING THE LAND**

- | | | |
|-----|--|----|
| 53. | Environment performance agreement under section 59 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 54. | Environment protection order issued under section 93 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 55. | Clean-up order issued under section 99 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 56. | Clean-up authorisation issued under section 100 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |

PARTICULARS RELATING TO ENVIRONMENT PROTECTION

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

The answers to the following questions are shown:

Environmental assessments

2. (3) Does the Environment Protection Authority hold a copy of a report on any environmental assessment of the land or a part of the land carried out at any time -
- (a) by or on behalf of the owner or occupier of the land -
- (i) pursuant to an authorisation, agreement or order under section 52(1)(b), 59, 93, 99, or 100 of the *Environment Protection Act 1993*;
or
- (ii) for the purposes of a notification given under section 83 of that Act;
or
- (b) by the Environment Protection Authority (whether alone or jointly with another authority);
or
- (c) by a Contaminated Site Auditor recognised by the Environment Protection Authority for the purposes of carrying out such an assessment?

NO

Waste depots

3. (1) Was a licence to operate a waste depot on the land ever issued under the repealed *South Australian Waste Management Commission Act 1979*, a record of which is on the Public Register?
- (2) Was a licence to operate a waste depot on the land ever issued under the repealed *Waste Management Act 1987*, a record of which is on the Public Register?
- (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, a record of which is on the Public Register?
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, being a licence that is no longer in force and a record of which is on the Public Register?

NO

NO

NO

NO

Production of certain waste

4. (1) Was a licence under the repealed *South Australian Waste Management Commission Act 1979* ever issued for the production of waste of a prescribed kind (within the meaning of that Act) on the land, a record of which is on the Public Register?
- (2) Was a licence under the repealed *Waste Management Act 1987* ever issued for the production of prescribed waste (within the meaning of that Act) on the land, a record of which is on the Public Register?

NO

NO

4. (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, a record of which is on the Public Register? NO

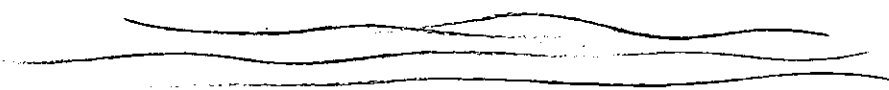
(4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, being a licence that is no longer in force and a record of which is on the Public Register? NO

Waste on land

5. Did the former Waste Management Commission under the repealed *Waste Management Act 1987* have any record of waste (within the meaning of that Act) being deposited on the land between 1 January 1983 and 30 April 1995, details of which are on the Public Register? NO

All care and diligence has been taken to access the above information from available records. Historical records provided to the EPA concerning matters arising prior to 1 May 1995 are limited and may not be accurate or complete and therefore the EPA cannot confirm the accuracy of the historical information provided.


Delegator
ENVIRONMENT PROTECTION AUTHORITY



Connell Wagner Pty Ltd
55 Grenfell Street
ADELAIDE SA 5000

Contact: Rosslyn Farquharson
Telephone: (08)8204 2179

Contact: Gayle Brookshaw
Telephone: (08)8204 1112
Fax: (08)8124 4672

07 April, 2008

Dear Sir/Madam,

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

I refer to your enquiry concerning the parcel of land comprised in

Title Reference CT Volume 5916 Folio 59

Address Allotment 1 (D63928), Legoe Road, BUCKLAND PARK SA 5120

I advise as follows:

**PARTICULARS OF MORTGAGES, CHARGES & PRESCRIBED ENCUMBRANCES
AFFECTING THE LAND**

- | | | |
|-----|--|----|
| 53. | Environment performance agreement under section 59 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 54. | Environment protection order issued under section 93 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 55. | Clean-up order issued under section 99 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 56. | Clean-up authorisation issued under section 100 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |

PARTICULARS RELATING TO ENVIRONMENT PROTECTION

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

The answers to the following questions are shown:

Environmental assessments

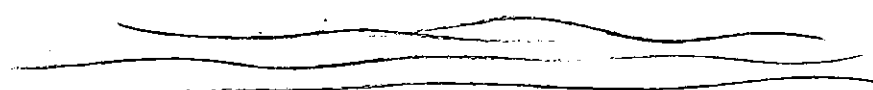
2. (3) Does the Environment Protection Authority hold a copy of a report on any environmental assessment of the land or a part of the land carried out at any time -
- (a) by or on behalf of the owner or occupier of the land -
 - (i) pursuant to an authorisation, agreement or order under section 52(1)(b), 59, 93, 99, or 100 of the *Environment Protection Act 1993*;
 - or
 - (ii) for the purposes of a notification given under section 83 of that Act;
 - or
 - (b) by the Environment Protection Authority (whether alone or jointly with another authority);
 - or
 - (c) by a Contaminated Site Auditor recognised by the Environment Protection Authority for the purposes of carrying out such an assessment?
- NO

Waste depots

3. (1) Was a licence to operate a waste depot on the land ever issued under the repealed *South Australian Waste Management Commission Act 1979*, a record of which is on the Public Register?
- NO
- (2) Was a licence to operate a waste depot on the land ever issued under the repealed *Waste Management Act 1987*, a record of which is on the Public Register?
- NO
- (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, a record of which is on the Public Register?
- NO
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, being a licence that is no longer in force and a record of which is on the Public Register?
- NO

Production of certain waste

4. (1) Was a licence under the repealed *South Australian Waste Management Commission Act 1979* ever issued for the production of waste of a prescribed kind (within the meaning of that Act) on the land, a record of which is on the Public Register?
- NO
- (2) Was a licence under the repealed *Waste Management Act 1987* ever issued for the production of prescribed waste (within the meaning of that Act) on the land, a record of which is on the Public Register?
- NO



Environment Protection Authority


4. (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, a record of which is on the Public Register? NO

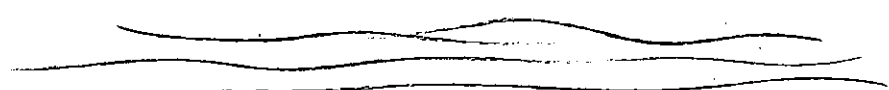
(4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, being a licence that is no longer in force and a record of which is on the Public Register? NO

Waste on land

5. Did the former Waste Management Commission under the repealed *Waste Management Act 1987* have any record of waste (within the meaning of that Act) being deposited on the land between 1 January 1983 and 30 April 1995, details of which are on the Public Register? NO

All care and diligence has been taken to access the above information from available records. Historical records provided to the EPA concerning matters arising prior to 1 May 1995 are limited and may not be accurate or complete and therefore the EPA cannot confirm the accuracy of the historical information provided.


Delegate for
ENVIRONMENT PROTECTION AUTHORITY



Connell Wagner Pty Ltd
55 Grenfell Street
ADELAIDE SA 5000

Contact: Rosslyn Farquharson
Telephone: (08)8204 2179

Contact: Gayle Brookshaw
Telephone: (08)8204 1112
Fax: (08)8124 4672

07 April, 2008

Dear Sir/Madam,

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

I refer to your enquiry concerning the parcel of land comprised in

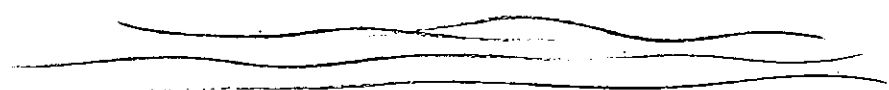
Title Reference CT Volume 5144 Folio 148

Address Allotment 101, Legoe Road, BUCKLAND PARK SA 5120

I advise as follows:

**PARTICULARS OF MORTGAGES, CHARGES & PRESCRIBED ENCUMBRANCES
AFFECTING THE LAND**

- | | | |
|-----|--|----|
| 53. | Environment performance agreement under section 59 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 54. | Environment protection order issued under section 93 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 55. | Clean-up order issued under section 99 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 56. | Clean-up authorisation issued under section 100 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |



PARTICULARS RELATING TO ENVIRONMENT PROTECTION

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

The answers to the following questions are shown:

Environmental assessments

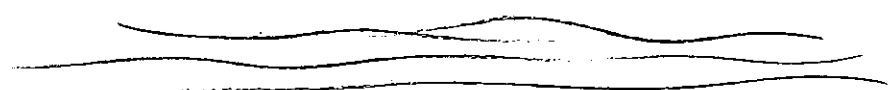
2. (3) Does the Environment Protection Authority hold a copy of a report on any environmental assessment of the land or a part of the land carried out at any time -
- (a) by or on behalf of the owner or occupier of the land -
 - (i) pursuant to an authorisation, agreement or order under section 52(1)(b), 59, 93, 99, or 100 of the *Environment Protection Act 1993*;
 - or
 - (ii) for the purposes of a notification given under section 83 of that Act;
 - or
 - (b) by the Environment Protection Authority (whether alone or jointly with another authority);
 - or
 - (c) by a Contaminated Site Auditor recognised by the Environment Protection Authority for the purposes of carrying out such an assessment?
- NO

Waste depots

3. (1) Was a licence to operate a waste depot on the land ever issued under the repealed *South Australian Waste Management Commission Act 1979*, a record of which is on the Public Register?
- NO
- (2) Was a licence to operate a waste depot on the land ever issued under the repealed *Waste Management Act 1987*, a record of which is on the Public Register?
- NO
- (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, a record of which is on the Public Register?
- NO
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, being a licence that is no longer in force and a record of which is on the Public Register?
- NO

Production of certain waste

4. (1) Was a licence under the repealed *South Australian Waste Management Commission Act 1979* ever issued for the production of waste of a prescribed kind (within the meaning of that Act) on the land, a record of which is on the Public Register?
- NO
- (2) Was a licence under the repealed *Waste Management Act 1987* ever issued for the production of prescribed waste (within the meaning of that Act) on the land, a record of which is on the Public Register?
- NO



Environment Protection Authority

4. (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, a record of which is on the Public Register?

NO

(4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, being a licence that is no longer in force and a record of which is on the Public Register?

NO

Waste on land

5. Did the former Waste Management Commission under the repealed *Waste Management Act 1987* have any record of waste (within the meaning of that Act) being deposited on the land between 1 January 1983 and 30 April 1995, details of which are on the Public Register?

NO

All care and diligence has been taken to access the above information from available records. Historical records provided to the EPA concerning matters arising prior to 1 May 1995 are limited and may not be accurate or complete and therefore the EPA cannot confirm the accuracy of the historical information provided.



Delegate for
ENVIRONMENT PROTECTION AUTHORITY

Connell Wagner Pty Ltd
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ADELAIDE SA 5000

Contact: Rosslyn Farquharson
Telephone: (08)8204 2179

Contact: Gayle Brookshaw
Telephone: (08)8204 1112
Fax: (08)8124 4672

07 April, 2008

Dear Sir/Madam,

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

I refer to your enquiry concerning the parcel of land comprised in

Title Reference CT Volume 5144 Folio 147

Address Allotment 100, Legoe Road, BUCKLAND PARK SA 5120

I advise as follows:

**PARTICULARS OF MORTGAGES, CHARGES & PRESCRIBED ENCUMBRANCES
AFFECTING THE LAND**

- | | | |
|-----|--|----|
| 53. | Environment performance agreement under section 59 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 54. | Environment protection order issued under section 93 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 55. | Clean-up order issued under section 99 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 56. | Clean-up authorisation issued under section 100 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |

PARTICULARS RELATING TO ENVIRONMENT PROTECTION

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

The answers to the following questions are shown:

Environmental assessments

2. (3) Does the Environment Protection Authority hold a copy of a report on any environmental assessment of the land or a part of the land carried out at any time -
- (a) by or on behalf of the owner or occupier of the land -
- (i) pursuant to an authorisation, agreement or order under section 52(1)(b), 59, 93, 99, or 100 of the *Environment Protection Act 1993*;
or
- (ii) for the purposes of a notification given under section 83 of that Act;
or
- (b) by the Environment Protection Authority (whether alone or jointly with another authority);
or
- (c) by a Contaminated Site Auditor recognised by the Environment Protection Authority for the purposes of carrying out such an assessment?

NO

Waste depots

3. (1) Was a licence to operate a waste depot on the land ever issued under the repealed *South Australian Waste Management Commission Act 1979*, a record of which is on the Public Register?
- (2) Was a licence to operate a waste depot on the land ever issued under the repealed *Waste Management Act 1987*, a record of which is on the Public Register?
- (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, a record of which is on the Public Register?
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, being a licence that is no longer in force and a record of which is on the Public Register?

NO

NO

NO

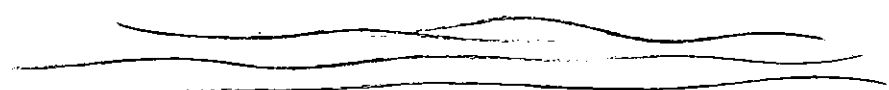
NO

Production of certain waste

4. (1) Was a licence under the repealed *South Australian Waste Management Commission Act 1979* ever issued for the production of waste of a prescribed kind (within the meaning of that Act) on the land, a record of which is on the Public Register?
- (2) Was a licence under the repealed *Waste Management Act 1987* ever issued for the production of prescribed waste (within the meaning of that Act) on the land, a record of which is on the Public Register?

NO

NO



4. (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, a record of which is on the Public Register? NO
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, being a licence that is no longer in force and a record of which is on the Public Register? NO

Waste on land

5. Did the former Waste Management Commission under the repealed *Waste Management Act 1987* have any record of waste (within the meaning of that Act) being deposited on the land between 1 January 1983 and 30 April 1995, details of which are on the Public Register? NO

All care and diligence has been taken to access the above information from available records. Historical records provided to the EPA concerning matters arising prior to 1 May 1995 are limited and may not be accurate or complete and therefore the EPA cannot confirm the accuracy of the historical information provided.


Delegate for
ENVIRONMENT PROTECTION AUTHORITY

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ADELAIDE SA 5000

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Contact: Gayle Brookshaw
Telephone: (08)8204 1112
Fax: (08)8124 4672

07 April, 2008

Dear Sir/Madam,

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

I refer to your enquiry concerning the parcel of land comprised in

Title Reference CT Volume 5916 Folio 63

Address Allotment 5 (D63928), Park Road, BUCKLAND PARK SA 5120

I advise as follows:

**PARTICULARS OF MORTGAGES, CHARGES & PRESCRIBED ENCUMBRANCES
AFFECTING THE LAND**

- | | | |
|-----|--|----|
| 53. | Environment performance agreement under section 59 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 54. | Environment protection order issued under section 93 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 55. | Clean-up order issued under section 99 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 56. | Clean-up authorisation issued under section 100 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |

PARTICULARS RELATING TO ENVIRONMENT PROTECTION

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

The answers to the following questions are shown:

Environmental assessments

2. (3) Does the Environment Protection Authority hold a copy of a report on any environmental assessment of the land or a part of the land carried out at any time -
- (a) by or on behalf of the owner or occupier of the land -
 - (i) pursuant to an authorisation, agreement or order under section 52(1)(b), 59, 93, 99, or 100 of the *Environment Protection Act 1993*;
 - or
 - (ii) for the purposes of a notification given under section 83 of that Act;
 - or
 - (b) by the Environment Protection Authority (whether alone or jointly with another authority);
 - or
 - (c) by a Contaminated Site Auditor recognised by the Environment Protection Authority for the purposes of carrying out such an assessment?

NO

Waste depots

3. (1) Was a licence to operate a waste depot on the land ever issued under the repealed *South Australian Waste Management Commission Act 1979*, a record of which is on the Public Register?
- (2) Was a licence to operate a waste depot on the land ever issued under the repealed *Waste Management Act 1987*, a record of which is on the Public Register?
- (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, a record of which is on the Public Register?
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, being a licence that is no longer in force and a record of which is on the Public Register?

NO

NO

NO

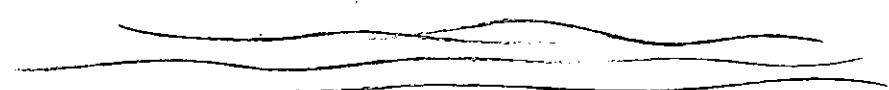
NO

Production of certain waste

4. (1) Was a licence under the repealed *South Australian Waste Management Commission Act 1979* ever issued for the production of waste of a prescribed kind (within the meaning of that Act) on the land, a record of which is on the Public Register?
- (2) Was a licence under the repealed *Waste Management Act 1987* ever issued for the production of prescribed waste (within the meaning of that Act) on the land, a record of which is on the Public Register?

NO

NO



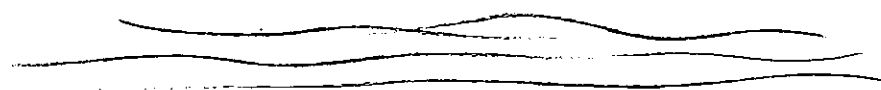
4. (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, a record of which is on the Public Register? NO
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, being a licence that is no longer in force and a record of which is on the Public Register? NO

Waste on land

5. Did the former Waste Management Commission under the repealed *Waste Management Act 1987* have any record of waste (within the meaning of that Act) being deposited on the land between 1 January 1983 and 30 April 1995, details of which are on the Public Register? NO

All care and diligence has been taken to access the above information from available records. Historical records provided to the EPA concerning matters arising prior to 1 May 1995 are limited and may not be accurate or complete and therefore the EPA cannot confirm the accuracy of the historical information provided.


Delegate for
ENVIRONMENT PROTECTION AUTHORITY



Connell Wagner Pty Ltd
55 Grenfell Street
ADELAIDE SA 5000

Contact: Rosslyn Farquharson
Telephone: (08)8204 2179

Contact: Gayle Brookshaw
Telephone: (08)8204 1112
Fax: (08)8124 4672

07 April, 2008

Dear Sir/Madam,

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

I refer to your enquiry concerning the parcel of land comprised in

Title Reference CT Volume 5883 Folio 980

Address Allotment 18, Park Road, BUCKLAND PARK SA 5120

I advise as follows:

**PARTICULARS OF MORTGAGES, CHARGES & PRESCRIBED ENCUMBRANCES
AFFECTING THE LAND**

- | | | |
|-----|--|----|
| 53. | Environment performance agreement under section 59 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 54. | Environment protection order issued under section 93 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 55. | Clean-up order issued under section 99 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 56. | Clean-up authorisation issued under section 100 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |

PARTICULARS RELATING TO ENVIRONMENT PROTECTION

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

The answers to the following questions are shown:

Environmental assessments

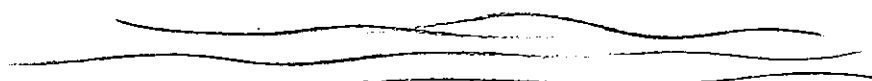
2. (3) Does the Environment Protection Authority hold a copy of a report on any environmental assessment of the land or a part of the land carried out at any time -
- (a) by or on behalf of the owner or occupier of the land -
- (i) pursuant to an authorisation, agreement or order under section 52(1)(b), 59, 93, 99, or 100 of the *Environment Protection Act 1993*;
or
- (ii) for the purposes of a notification given under section 83 of that Act;
or
- (b) by the Environment Protection Authority (whether alone or jointly with another authority);
or
- (c) by a Contaminated Site Auditor recognised by the Environment Protection Authority for the purposes of carrying out such an assessment? NO

Waste depots

3. (1) Was a licence to operate a waste depot on the land ever issued under the repealed *South Australian Waste Management Commission Act 1979*, a record of which is on the Public Register? NO
- (2) Was a licence to operate a waste depot on the land ever issued under the repealed *Waste Management Act 1987*, a record of which is on the Public Register? NO
- (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, a record of which is on the Public Register? NO
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, being a licence that is no longer in force and a record of which is on the Public Register? NO

Production of certain waste

4. (1) Was a licence under the repealed *South Australian Waste Management Commission Act 1979* ever issued for the production of waste of a prescribed kind (within the meaning of that Act) on the land, a record of which is on the Public Register? NO
- (2) Was a licence under the repealed *Waste Management Act 1987* ever issued for the production of prescribed waste (within the meaning of that Act) on the land, a record of which is on the Public Register? NO



Environment Protection Authority

- 4. (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, a record of which is on the Public Register? NO

- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, being a licence that is no longer in force and a record of which is on the Public Register? NO

Waste on land

- 5. Did the former Waste Management Commission under the repealed *Waste Management Act 1987* have any record of waste (within the meaning of that Act) being deposited on the land between 1 January 1983 and 30 April 1995, details of which are on the Public Register? NO

All care and diligence has been taken to access the above information from available records. Historical records provided to the EPA concerning matters arising prior to 1 May 1995 are limited and may not be accurate or complete and therefore the EPA cannot confirm the accuracy of the historical information provided.


Delegate for
ENVIRONMENT PROTECTION AUTHORITY

Connell Wagner Pty Ltd
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ADELAIDE SA 5000

Contact: Rosslyn Farquharson
Telephone: (08)8204 2179

Contact: Gayle Brookshaw
Telephone: (08)8204 1112
Fax: (08)8124 4672

07 April, 2008

Dear Sir/Madam,

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

I refer to your enquiry concerning the parcel of land comprised in

Title Reference CT Volume 5883 Folio 979

Address Allotment 17, Park Road, BUCKLAND PARK SA 5120

I advise as follows:

**PARTICULARS OF MORTGAGES, CHARGES & PRESCRIBED ENCUMBRANCES
AFFECTING THE LAND**

- | | | |
|-----|--|----|
| 53. | Environment performance agreement under section 59 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 54. | Environment protection order issued under section 93 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 55. | Clean-up order issued under section 99 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 56. | Clean-up authorisation issued under section 100 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |

PARTICULARS RELATING TO ENVIRONMENT PROTECTION

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

The answers to the following questions are shown:

Environmental assessments

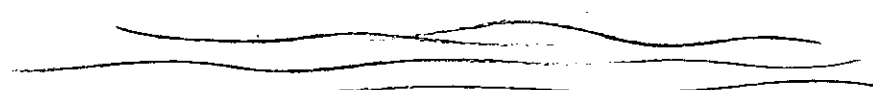
- 2. (3) Does the Environment Protection Authority hold a copy of a report on any environmental assessment of the land or a part of the land carried out at any time -
 - (a) by or on behalf of the owner or occupier of the land -
 - (i) pursuant to an authorisation, agreement or order under section 52(1)(b), 59, 93, 99, or 100 of the *Environment Protection Act 1993*;
or
 - (ii) for the purposes of a notification given under section 83 of that Act;
or
 - (b) by the Environment Protection Authority (whether alone or jointly with another authority);
or
 - (c) by a Contaminated Site Auditor recognised by the Environment Protection Authority for the purposes of carrying out such an assessment? NO

Waste depots

- 3. (1) Was a licence to operate a waste depot on the land ever issued under the repealed *South Australian Waste Management Commission Act 1979*, a record of which is on the Public Register? NO
- (2) Was a licence to operate a waste depot on the land ever issued under the repealed *Waste Management Act 1987*, a record of which is on the Public Register? NO
- (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, a record of which is on the Public Register? NO
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, being a licence that is no longer in force and a record of which is on the Public Register? NO

Production of certain waste

- 4. (1) Was a licence under the repealed *South Australian Waste Management Commission Act 1979* ever issued for the production of waste of a prescribed kind (within the meaning of that Act) on the land, a record of which is on the Public Register? NO
- (2) Was a licence under the repealed *Waste Management Act 1987* ever issued for the production of prescribed waste (within the meaning of that Act) on the land, a record of which is on the Public Register? NO



4. (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, a record of which is on the Public Register? NO
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, being a licence that is no longer in force and a record of which is on the Public Register? NO

Waste on land

5. Did the former Waste Management Commission under the repealed *Waste Management Act 1987* have any record of waste (within the meaning of that Act) being deposited on the land between 1 January 1983 and 30 April 1995, details of which are on the Public Register? NO

All care and diligence has been taken to access the above information from available records. Historical records provided to the EPA concerning matters arising prior to 1 May 1995 are limited and may not be accurate or complete and therefore the EPA cannot confirm the accuracy of the historical information provided.


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Telephone: (08)8204 2179

Contact: Gayle Brookshaw
Telephone: (08)8204 1112
Fax: (08)8124 4672

07 April, 2008

Dear Sir/Madam,

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

I refer to your enquiry concerning the parcel of land comprised in

Title Reference CT Volume 5883 Folio 978

Address Allotment 2 (D60145), Buckland Road, BUCKLAND PARK SA 5120

I advise as follows:

**PARTICULARS OF MORTGAGES, CHARGES & PRESCRIBED ENCUMBRANCES
AFFECTING THE LAND**

- | | | |
|-----|--|----|
| 53. | Environment performance agreement under section 59 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 54. | Environment protection order issued under section 93 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 55. | Clean-up order issued under section 99 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 56. | Clean-up authorisation issued under section 100 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |

PARTICULARS RELATING TO ENVIRONMENT PROTECTION

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

The answers to the following questions are shown:

Environmental assessments

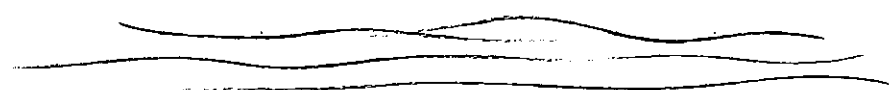
2. (3) Does the Environment Protection Authority hold a copy of a report on any environmental assessment of the land or a part of the land carried out at any time -
- (a) by or on behalf of the owner or occupier of the land -
 - (i) pursuant to an authorisation, agreement or order under section 52(1)(b), 59, 93, 99, or 100 of the *Environment Protection Act 1993*;
 - or
 - (ii) for the purposes of a notification given under section 83 of that Act;
 - or
 - (b) by the Environment Protection Authority (whether alone or jointly with another authority);
 - or
 - (c) by a Contaminated Site Auditor recognised by the Environment Protection Authority for the purposes of carrying out such an assessment?
- NO

Waste depots

3. (1) Was a licence to operate a waste depot on the land ever issued under the repealed *South Australian Waste Management Commission Act 1979*, a record of which is on the Public Register?
- NO
- (2) Was a licence to operate a waste depot on the land ever issued under the repealed *Waste Management Act 1987*, a record of which is on the Public Register?
- NO
- (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, a record of which is on the Public Register?
- NO
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, being a licence that is no longer in force and a record of which is on the Public Register?
- NO

Production of certain waste

4. (1) Was a licence under the repealed *South Australian Waste Management Commission Act 1979* ever issued for the production of waste of a prescribed kind (within the meaning of that Act) on the land, a record of which is on the Public Register?
- NO
- (2) Was a licence under the repealed *Waste Management Act 1987* ever issued for the production of prescribed waste (within the meaning of that Act) on the land, a record of which is on the Public Register?
- NO




4. (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, a record of which is on the Public Register? NO
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, being a licence that is no longer in force and a record of which is on the Public Register? NO

Waste on land

5. Did the former Waste Management Commission under the repealed *Waste Management Act 1987* have any record of waste (within the meaning of that Act) being deposited on the land between 1 January 1983 and 30 April 1995, details of which are on the Public Register? NO

All care and diligence has been taken to access the above information from available records. Historical records provided to the EPA concerning matters arising prior to 1 May 1995 are limited and may not be accurate or complete and therefore the EPA cannot confirm the accuracy of the historical information provided.


Delegate for
ENVIRONMENT PROTECTION AUTHORITY

Connell Wagner Pty Ltd
55 Grenfell Street
ADELAIDE SA 5000

Contact: Rosslyn Farquharson
Telephone: (08)8204 2179

Contact: Gayle Brookshaw
Telephone: (08)8204 1112
Fax: (08)8124 4672

07 April, 2008

Dear Sir/Madam,

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

I refer to your enquiry concerning the parcel of land comprised in

Title Reference CT Volume 5883 Folio 977

Address Allotment 1 (D60145), Buckland Road, BUCKLAND PARK SA 5120

I advise as follows:

**PARTICULARS OF MORTGAGES, CHARGES & PRESCRIBED ENCUMBRANCES
AFFECTING THE LAND**

- | | | |
|-----|--|----|
| 53. | Environment performance agreement under section 59 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 54. | Environment protection order issued under section 93 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 55. | Clean-up order issued under section 99 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 56. | Clean-up authorisation issued under section 100 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |

PARTICULARS RELATING TO ENVIRONMENT PROTECTION

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

The answers to the following questions are shown:

Environmental assessments

- 2. (3) Does the Environment Protection Authority hold a copy of a report on any environmental assessment of the land or a part of the land carried out at any time -
 - (a) by or on behalf of the owner or occupier of the land -
 - (i) pursuant to an authorisation, agreement or order under section 52(1)(b), 59, 93, 99, or 100 of the *Environment Protection Act 1993*;
 - or
 - (ii) for the purposes of a notification given under section 83 of that Act;
 - or
 - (b) by the Environment Protection Authority (whether alone or jointly with another authority);
 - or
 - (c) by a Contaminated Site Auditor recognised by the Environment Protection Authority for the purposes of carrying out such an assessment?

NO

Waste depots

- 3. (1) Was a licence to operate a waste depot on the land ever issued under the repealed *South Australian Waste Management Commission Act 1979*, a record of which is on the Public Register?
- (2) Was a licence to operate a waste depot on the land ever issued under the repealed *Waste Management Act 1987*, a record of which is on the Public Register?
- (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, a record of which is on the Public Register?
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, being a licence that is no longer in force and a record of which is on the Public Register?

NO

NO

NO

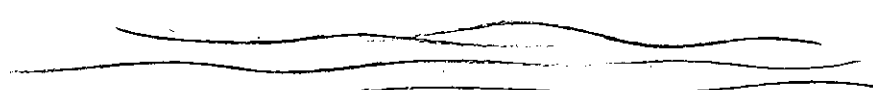
NO

Production of certain waste

- 4. (1) Was a licence under the repealed *South Australian Waste Management Commission Act 1979* ever issued for the production of waste of a prescribed kind (within the meaning of that Act) on the land, a record of which is on the Public Register?
- (2) Was a licence under the repealed *Waste Management Act 1987* ever issued for the production of prescribed waste (within the meaning of that Act) on the land, a record of which is on the Public Register?

NO

NO



Environment Protection Authority

- 4. (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, a record of which is on the Public Register? NO

- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, being a licence that is no longer in force and a record of which is on the Public Register? NO

Waste on land

- 5. Did the former Waste Management Commission under the repealed *Waste Management Act 1987* have any record of waste (within the meaning of that Act) being deposited on the land between 1 January 1983 and 30 April 1995, details of which are on the Public Register? NO

All care and diligence has been taken to access the above information from available records. Historical records provided to the EPA concerning matters arising prior to 1 May 1995 are limited and may not be accurate or complete and therefore the EPA cannot confirm the accuracy of the historical information provided.


Delegate for
ENVIRONMENT PROTECTION AUTHORITY

Connell Wagner Pty Ltd
55 Grenfell Street
ADELAIDE SA 5000

Contact: Rosslyn Farquharson
Telephone: (08)8204 2179

Contact: Gayle Brookshaw
Telephone: (08)8204 1112
Fax: (08)8124 4672

07 April, 2008

Dear Sir/Madam,

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

I refer to your enquiry concerning the parcel of land comprised in

Title Reference CT Volume 5864 Folio 500

Address Allotment 5 (D58107), Legoe Road, BUCKLAND PARK SA 5120

I advise as follows:

**PARTICULARS OF MORTGAGES, CHARGES & PRESCRIBED ENCUMBRANCES
AFFECTING THE LAND**

- | | | |
|-----|--|----|
| 53. | Environment performance agreement under section 59 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 54. | Environment protection order issued under section 93 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 55. | Clean-up order issued under section 99 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 56. | Clean-up authorisation issued under section 100 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |

PARTICULARS RELATING TO ENVIRONMENT PROTECTION

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

The answers to the following questions are shown:

Environmental assessments

2. (3) Does the Environment Protection Authority hold a copy of a report on any environmental assessment of the land or a part of the land carried out at any time -
- (a) by or on behalf of the owner or occupier of the land -
 - (i) pursuant to an authorisation, agreement or order under section 52(1)(b), 59, 93, 99, or 100 of the *Environment Protection Act 1993*;
 - or
 - (ii) for the purposes of a notification given under section 83 of that Act;
 - or
 - (b) by the Environment Protection Authority (whether alone or jointly with another authority);
 - or
 - (c) by a Contaminated Site Auditor recognised by the Environment Protection Authority for the purposes of carrying out such an assessment?
- NO

Waste depots

3. (1) Was a licence to operate a waste depot on the land ever issued under the repealed *South Australian Waste Management Commission Act 1979*, a record of which is on the Public Register?
- NO
- (2) Was a licence to operate a waste depot on the land ever issued under the repealed *Waste Management Act 1987*, a record of which is on the Public Register?
- NO
- (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, a record of which is on the Public Register?
- NO
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, being a licence that is no longer in force and a record of which is on the Public Register?
- NO

Production of certain waste

4. (1) Was a licence under the repealed *South Australian Waste Management Commission Act 1979* ever issued for the production of waste of a prescribed kind (within the meaning of that Act) on the land, a record of which is on the Public Register?
- NO
- (2) Was a licence under the repealed *Waste Management Act 1987* ever issued for the production of prescribed waste (within the meaning of that Act) on the land, a record of which is on the Public Register?
- NO


- 4. (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, a record of which is on the Public Register? NO

- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, being a licence that is no longer in force and a record of which is on the Public Register? NO

Waste on land

- 5. Did the former Waste Management Commission under the repealed *Waste Management Act 1987* have any record of waste (within the meaning of that Act) being deposited on the land between 1 January 1983 and 30 April 1995, details of which are on the Public Register? NO

All care and diligence has been taken to access the above information from available records. Historical records provided to the EPA concerning matters arising prior to 1 May 1995 are limited and may not be accurate or complete and therefore the EPA cannot confirm the accuracy of the historical information provided.


Delegate for
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Contact: Rosslyn Farquharson
Telephone: (08)8204 2179

Contact: Gayle Brookshaw
Telephone: (08)8204 1112
Fax: (08)8124 4672

07 April, 2008

Dear Sir/Madam,

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

I refer to your enquiry concerning the parcel of land comprised in

Title Reference CT Volume 5864 Folio 501

Address Allotment 4 (D58107), Legoe Road, BUCKLAND PARK SA 5120

I advise as follows:

**PARTICULARS OF MORTGAGES, CHARGES & PRESCRIBED ENCUMBRANCES
AFFECTING THE LAND**

- | | | |
|-----|--|----|
| 53. | Environment performance agreement under section 59 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 54. | Environment protection order issued under section 93 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 55. | Clean-up order issued under section 99 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 56. | Clean-up authorisation issued under section 100 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |

PARTICULARS RELATING TO ENVIRONMENT PROTECTION

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

The answers to the following questions are shown:

Environmental assessments

2. (3) Does the Environment Protection Authority hold a copy of a report on any environmental assessment of the land or a part of the land carried out at any time -
- (a) by or on behalf of the owner or occupier of the land -
 - (i) pursuant to an authorisation, agreement or order under section 52(1)(b), 59, 93, 99, or 100 of the *Environment Protection Act 1993*;
 - or
 - (ii) for the purposes of a notification given under section 83 of that Act;
 - or
 - (b) by the Environment Protection Authority (whether alone or jointly with another authority);
 - or
 - (c) by a Contaminated Site Auditor recognised by the Environment Protection Authority for the purposes of carrying out such an assessment?

NO

Waste depots

3. (1) Was a licence to operate a waste depot on the land ever issued under the repealed *South Australian Waste Management Commission Act 1979*, a record of which is on the Public Register?
- (2) Was a licence to operate a waste depot on the land ever issued under the repealed *Waste Management Act 1987*, a record of which is on the Public Register?
- (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, a record of which is on the Public Register?
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, being a licence that is no longer in force and a record of which is on the Public Register?

NO

NO

NO

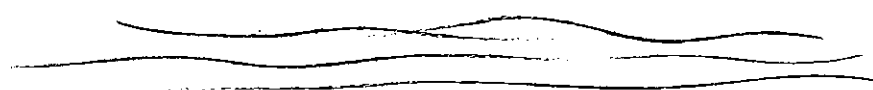
NO

Production of certain waste

4. (1) Was a licence under the repealed *South Australian Waste Management Commission Act 1979* ever issued for the production of waste of a prescribed kind (within the meaning of that Act) on the land, a record of which is on the Public Register?
- (2) Was a licence under the repealed *Waste Management Act 1987* ever issued for the production of prescribed waste (within the meaning of that Act) on the land, a record of which is on the Public Register?

NO

NO



- 4. (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, a record of which is on the Public Register? NO

- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, being a licence that is no longer in force and a record of which is on the Public Register? NO

Waste on land

- 5. Did the former Waste Management Commission under the repealed *Waste Management Act 1987* have any record of waste (within the meaning of that Act) being deposited on the land between 1 January 1983 and 30 April 1995, details of which are on the Public Register? NO

All care and diligence has been taken to access the above information from available records. Historical records provided to the EPA concerning matters arising prior to 1 May 1995 are limited and may not be accurate or complete and therefore the EPA cannot confirm the accuracy of the historical information provided.


Delegate for
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Contact: Rosslyn Farquharson
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Contact: Gayle Brookshaw
Telephone: (08)8204 1112
Fax: (08)8124 4672

07 April, 2008

Dear Sir/Madam,

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

I refer to your enquiry concerning the parcel of land comprised in

Title Reference CT Volume 5864 Folio 499

Address Pieces 1-3 (D58107), Legoe Road, BUCKLAND PARK SA 5120

I advise as follows:

**PARTICULARS OF MORTGAGES, CHARGES & PRESCRIBED ENCUMBRANCES
AFFECTING THE LAND**

- | | | |
|-----|--|----|
| 53. | Environment performance agreement under section 59 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 54. | Environment protection order issued under section 93 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 55. | Clean-up order issued under section 99 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 56. | Clean-up authorisation issued under section 100 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |

PARTICULARS RELATING TO ENVIRONMENT PROTECTION

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

The answers to the following questions are shown:

Environmental assessments

2. (3) Does the Environment Protection Authority hold a copy of a report on any environmental assessment of the land or a part of the land carried out at any time -
- (a) by or on behalf of the owner or occupier of the land -
 - (i) pursuant to an authorisation, agreement or order under section 52(1)(b), 59, 93, 99, or 100 of the *Environment Protection Act 1993*;
 - or
 - (ii) for the purposes of a notification given under section 83 of that Act;
 - or
 - (b) by the Environment Protection Authority (whether alone or jointly with another authority);
 - or
 - (c) by a Contaminated Site Auditor recognised by the Environment Protection Authority for the purposes of carrying out such an assessment?

NO

Waste depots

3. (1) Was a licence to operate a waste depot on the land ever issued under the repealed *South Australian Waste Management Commission Act 1979*, a record of which is on the Public Register?
- (2) Was a licence to operate a waste depot on the land ever issued under the repealed *Waste Management Act 1987*, a record of which is on the Public Register?
- (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, a record of which is on the Public Register?
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, being a licence that is no longer in force and a record of which is on the Public Register?

NO

NO

NO

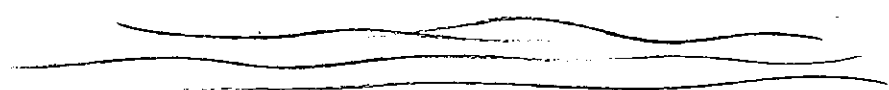
NO

Production of certain waste

4. (1) Was a licence under the repealed *South Australian Waste Management Commission Act 1979* ever issued for the production of waste of a prescribed kind (within the meaning of that Act) on the land, a record of which is on the Public Register?
- (2) Was a licence under the repealed *Waste Management Act 1987* ever issued for the production of prescribed waste (within the meaning of that Act) on the land, a record of which is on the Public Register?

NO

NO



4. (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, a record of which is on the Public Register? NO
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, being a licence that is no longer in force and a record of which is on the Public Register? NO

Waste on Land

5. Did the former Waste Management Commission under the repealed *Waste Management Act 1987* have any record of waste (within the meaning of that Act) being deposited on the land between 1 January 1983 and 30 April 1995, details of which are on the Public Register? NO

All care and diligence has been taken to access the above information from available records. Historical records provided to the EPA concerning matters arising prior to 1 May 1995 are limited and may not be accurate or complete and therefore the EPA cannot confirm the accuracy of the historical information provided.


Delegate for
ENVIRONMENT PROTECTION AUTHORITY

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ADELAIDE SA 5000

Contact: Rosslyn Farquharson
Telephone: (08)8204 2179

Contact: Gayle Brookshaw
Telephone: (08)8204 1112
Fax: (08)8124 4672

07 April, 2008

Dear Sir/Madam,

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

I refer to your enquiry concerning the parcel of land comprised in

Title Reference CT Volume 5909 Folio 379

Address Section 173, Legoe Road, BUCKLAND PARK SA 5120

I advise as follows:

**PARTICULARS OF MORTGAGES, CHARGES & PRESCRIBED ENCUMBRANCES
AFFECTING THE LAND**

- | | | |
|-----|--|----|
| 53. | Environment performance agreement under section 59 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 54. | Environment protection order issued under section 93 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 55. | Clean-up order issued under section 99 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 56. | Clean-up authorisation issued under section 100 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |

PARTICULARS RELATING TO ENVIRONMENT PROTECTION

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

The answers to the following questions are shown:

Environmental assessments

2. (3) Does the Environment Protection Authority hold a copy of a report on any environmental assessment of the land or a part of the land carried out at any time -
- (a) by or on behalf of the owner or occupier of the land -
 - (i) pursuant to an authorisation, agreement or order under section 52(1)(b), 59, 93, 99, or 100 of the *Environment Protection Act 1993*;
 - or
 - (ii) for the purposes of a notification given under section 83 of that Act;
 - or
 - (b) by the Environment Protection Authority (whether alone or jointly with another authority);
 - or
 - (c) by a Contaminated Site Auditor recognised by the Environment Protection Authority for the purposes of carrying out such an assessment?

NO

Waste depots

3. (1) Was a licence to operate a waste depot on the land ever issued under the repealed *South Australian Waste Management Commission Act 1979*, a record of which is on the Public Register?
- (2) Was a licence to operate a waste depot on the land ever issued under the repealed *Waste Management Act 1987*, a record of which is on the Public Register?
- (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, a record of which is on the Public Register?
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, being a licence that is no longer in force and a record of which is on the Public Register?

NO

NO

NO

NO

Production of certain waste

4. (1) Was a licence under the repealed *South Australian Waste Management Commission Act 1979* ever issued for the production of waste of a prescribed kind (within the meaning of that Act) on the land, a record of which is on the Public Register?
- (2) Was a licence under the repealed *Waste Management Act 1987* ever issued for the production of prescribed waste (within the meaning of that Act) on the land, a record of which is on the Public Register?

NO

NO

4. (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, a record of which is on the Public Register?

NO

(4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, being a licence that is no longer in force and a record of which is on the Public Register?

NO

Waste on land

5. Did the former Waste Management Commission under the repealed *Waste Management Act 1987* have any record of waste (within the meaning of that Act) being deposited on the land between 1 January 1983 and 30 April 1995, details of which are on the Public Register?

NO

All care and diligence has been taken to access the above information from available records. Historical records provided to the EPA concerning matters arising prior to 1 May 1995 are limited and may not be accurate or complete and therefore the EPA cannot confirm the accuracy of the historical information provided.



Delegate for
ENVIRONMENT PROTECTION AUTHORITY

Connell Wagner Pty Ltd
55 Grenfell Street
ADELAIDE SA 5000

Contact: Rosslyn Farquharson
Telephone: (08)8204 2179

Contact: Gayle Brookshaw
Telephone: (08)8204 1112
Fax: (08)8124 4672

07 April, 2008

Dear Sir/Madam,

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

I refer to your enquiry concerning the parcel of land comprised in

Title Reference CR Volume 5760 Folio 605

Address Section 504, Park Road, BUCKLAND PARK SA 5120

I advise as follows:

**PARTICULARS OF MORTGAGES, CHARGES & PRESCRIBED ENCUMBRANCES
AFFECTING THE LAND**

53.	Environment performance agreement under section 59 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land.	NO
54.	Environment protection order issued under section 93 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land.	NO
55.	Clean-up order issued under section 99 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land.	NO
56.	Clean-up authorisation issued under section 100 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land.	NO

PARTICULARS RELATING TO ENVIRONMENT PROTECTION

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

The answers to the following questions are shown:

Environmental assessments

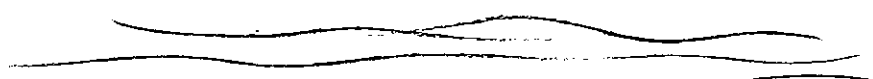
2. (3) Does the Environment Protection Authority hold a copy of a report on any environmental assessment of the land or a part of the land carried out at any time -
- (a) by or on behalf of the owner or occupier of the land -
 - (i) pursuant to an authorisation, agreement or order under section 52(1)(b), 59, 93, 99, or 100 of the *Environment Protection Act 1993*;
 - or
 - (ii) for the purposes of a notification given under section 83 of that Act;
 - or
 - (b) by the Environment Protection Authority (whether alone or jointly with another authority);
 - or
 - (c) by a Contaminated Site Auditor recognised by the Environment Protection Authority for the purposes of carrying out such an assessment?
- NO

Waste depots

3. (1) Was a licence to operate a waste depot on the land ever issued under the repealed *South Australian Waste Management Commission Act 1979*, a record of which is on the Public Register?
- NO
- (2) Was a licence to operate a waste depot on the land ever issued under the repealed *Waste Management Act 1987*, a record of which is on the Public Register?
- NO
- (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, a record of which is on the Public Register?
- NO
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, being a licence that is no longer in force and a record of which is on the Public Register?
- NO

Production of certain waste

4. (1) Was a licence under the repealed *South Australian Waste Management Commission Act 1979* ever issued for the production of waste of a prescribed kind (within the meaning of that Act) on the land, a record of which is on the Public Register?
- NO
- (2) Was a licence under the repealed *Waste Management Act 1987* ever issued for the production of prescribed waste (within the meaning of that Act) on the land, a record of which is on the Public Register?
- NO



4. (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, a record of which is on the Public Register? NO
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, being a licence that is no longer in force and a record of which is on the Public Register? NO

Waste on land

5. Did the former Waste Management Commission under the repealed *Waste Management Act 1987* have any record of waste (within the meaning of that Act) being deposited on the land between 1 January 1983 and 30 April 1995, details of which are on the Public Register? NO

All care and diligence has been taken to access the above information from available records. Historical records provided to the EPA concerning matters arising prior to 1 May 1995 are limited and may not be accurate or complete and therefore the EPA cannot confirm the accuracy of the historical information provided.


Delegated for
ENVIRONMENT PROTECTION AUTHORITY

Connell Wagner Pty Ltd
55 Grenfell Street
ADELAIDE SA 5000

Contact: Rosslyn Farquharson
Telephone: (08)8204 2179

Contact: Gayle Brookshaw
Telephone: (08)8204 1112
Fax: (08)8124 4672

07 April, 2008

Dear Sir/Madam,

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

I refer to your enquiry concerning the parcel of land comprised in

Title Reference CT Volume 5447 Folio 579

Address Allotment 5 (F16853), Brooks Road, BUCKLAND PARK SA 5120

I advise as follows:

**PARTICULARS OF MORTGAGES, CHARGES & PRESCRIBED ENCUMBRANCES
AFFECTING THE LAND**

- | | | |
|-----|--|----|
| 53. | Environment performance agreement under section 59 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 54. | Environment protection order issued under section 93 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 55. | Clean-up order issued under section 99 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 56. | Clean-up authorisation issued under section 100 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |

PARTICULARS RELATING TO ENVIRONMENT PROTECTION

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

The answers to the following questions are shown:

Environmental assessments

2. (3) Does the Environment Protection Authority hold a copy of a report on any environmental assessment of the land or a part of the land carried out at any time -
- (a) by or on behalf of the owner or occupier of the land -
 - (i) pursuant to an authorisation, agreement or order under section 52(1)(b), 59, 93, 99, or 100 of the *Environment Protection Act 1993*;
 - or
 - (ii) for the purposes of a notification given under section 83 of that Act;
 - (b) by the Environment Protection Authority (whether alone or jointly with another authority);
 - or
 - (c) by a Contaminated Site Auditor recognised by the Environment Protection Authority for the purposes of carrying out such an assessment?

NO

Waste depots

3. (1) Was a licence to operate a waste depot on the land ever issued under the repealed *South Australian Waste Management Commission Act 1979*, a record of which is on the Public Register?
- (2) Was a licence to operate a waste depot on the land ever issued under the repealed *Waste Management Act 1987*, a record of which is on the Public Register?
- (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, a record of which is on the Public Register?
- (4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to operate a waste depot on the land, being a licence that is no longer in force and a record of which is on the Public Register?

NO

NO

NO

NO

Production of certain waste

4. (1) Was a licence under the repealed *South Australian Waste Management Commission Act 1979* ever issued for the production of waste of a prescribed kind (within the meaning of that Act) on the land, a record of which is on the Public Register?
- (2) Was a licence under the repealed *Waste Management Act 1987* ever issued for the production of prescribed waste (within the meaning of that Act) on the land, a record of which is on the Public Register?

NO

NO

4. (3) Is an environmental authorisation currently in force under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, a record of which is on the Public Register?

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(4) Was an environmental authorisation ever issued under the *Environment Protection Act 1993* in the form of a licence to carry out an activity that produces listed waste (within the meaning of that Act) on the land, being a licence that is no longer in force and a record of which is on the Public Register?

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Waste on land

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Delegate for
ENVIRONMENT PROTECTION AUTHORITY

Connell Wagner Pty Ltd
55 Grenfell Street
ADELAIDE SA 5000

Contact: Rosslyn Farquharson
Telephone: (08)8204 2179

Contact: Gayle Brookshaw
Telephone: (08)8204 1112
Fax: (08)8124 4672

07 April, 2008

Dear Sir/Madam,

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

I refer to your enquiry concerning the parcel of land comprised in

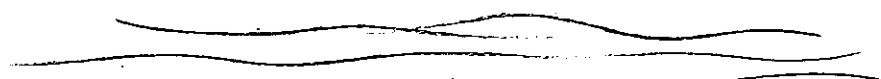
Title Reference CT Volume 5447 Folio 581

Address Allotment 4 (F16853), Brooks Road, BUCKLAND PARK SA 5120

I advise as follows:

**PARTICULARS OF MORTGAGES, CHARGES & PRESCRIBED ENCUMBRANCES
AFFECTING THE LAND**

- | | | |
|-----|--|----|
| 53. | Environment performance agreement under section 59 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 54. | Environment protection order issued under section 93 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 55. | Clean-up order issued under section 99 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |
| 56. | Clean-up authorisation issued under section 100 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land. | NO |



Environment Protection Authority

PARTICULARS RELATING TO ENVIRONMENT PROTECTION

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The answers to the following questions are shown:

Environmental assessments

- 2. (3) Does the Environment Protection Authority hold a copy of a report on any environmental assessment of the land or a part of the land carried out at any time -
 - (a) by or on behalf of the owner or occupier of the land -
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NO

NO

NO

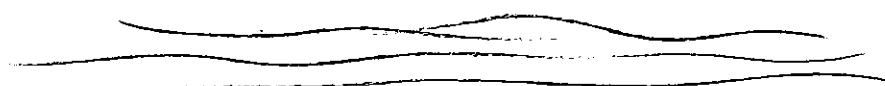
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Production of certain waste

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Delegate for
ENVIRONMENT PROTECTION AUTHORITY

Receipt No :
Admin No : 4189 (4412)
File Reference :

Connell Wagner Pty Ltd
55 Grenfell Street
ADELAIDE SA 5000

Contact: Rosslyn Farquharson
Telephone: (08)8204 2179

Contact: Gayle Brookshaw
Telephone: (08)8204 1112
Fax: (08)8124 4672

07 April, 2008

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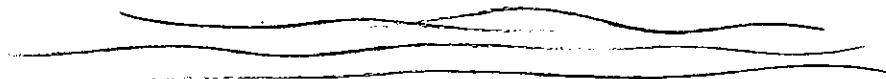
Title Reference CT Volume 5447 Folio 585
Address Allotment 6 (F16853), Thompson Road, BUCKLAND PARK SA 5120

I advise as follows:

Summary of land use:
Land on which Waste was Deposited NEC

**PARTICULARS OF MORTGAGES, CHARGES & PRESCRIBED ENCUMBRANCES
AFFECTING THE LAND**

53.	Environment performance agreement under section 59 of the <i>Environment Protection Act 1993</i> that is registered in relation to the land.	NO
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Environment Protection Authority

PARTICULARS RELATING TO ENVIRONMENT PROTECTION

Section 7 - Land and Business (Sale and Conveyancing) Act 1994

The answers to the following questions are shown:

Environmental assessments

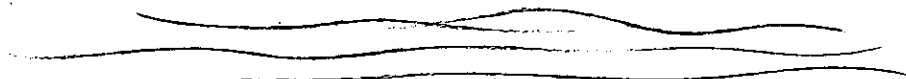
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Environment Protection Authority

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YES

A summary of the activities relating to wastes may be appended. Should you require any further information regarding this land (outside the Public Register details) please contact the Environment Protection Authority to make necessary arrangements.

Details and/or copies of environmental assessments, licences and records on the Public Register may be obtained from the Environment Protection Authority on payment of the prescribed fee.

Prior to arranging an examination and/or copies of the required above information please telephone (08) 8204 9128 to contact the Public Register Administrator to ensure the required details are available upon arrival.

All care and diligence has been taken to access the above information from available records. Historical records provided to the EPA concerning matters arising prior to 1 May 1995 are limited and may not be accurate or complete and therefore the EPA cannot confirm the accuracy of the historical information provided.



Delegate for
ENVIRONMENT PROTECTION AUTHORITY

NOTE

This parcel of land was used for the deposition of waste without being licensed or controlled by the South Australian Waste Management Commission.

Type Of Waste Received

Demolition, Building And Construction Wastes

Connell Wagner Pty Ltd
55 Grenfell Street
ADELAIDE SA 5000

Contact: Rosslyn Farquharson
Telephone: (08)8204 2179

Contact: Gayle Brookshaw
Telephone: (08)8204 1112
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07 April, 2008

Dear Sir/Madam,

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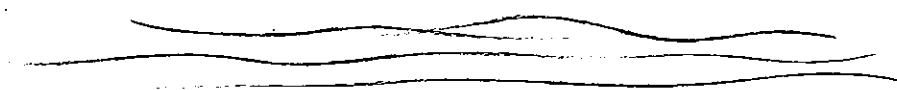
I refer to your enquiry concerning the parcel of land comprised in

Title Reference CT Volume 5909 Folio 380
Address Section 503, Legoe Road, BUCKLAND PARK SA 5120

I advise as follows:

**PARTICULARS OF MORTGAGES, CHARGES & PRESCRIBED ENCUMBRANCES
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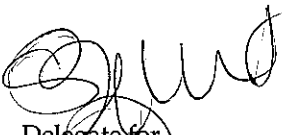
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Delegate for
ENVIRONMENT PROTECTION AUTHORITY

Mosquitoes at Buckland Park, South Australia

An analysis of mosquito communities, future nuisance and disease threats, potential management strategies, and the impact of climate change

Dr Craig Williams PhD

Dr Michael Kokkinn PhD

Oct 29, 2008



Mosquito and Plant Research Group
Sansom Institute
University of South Australia
GPO Box 2471, Adelaide SA 5001



Sansom
Institute



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 - 2.1.3 Rangeland communities
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 - 2.2.2 Mosquito survey of Buckland Park and environs
 - 2.3 RESULTS
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 - 4.2.2 Rainfall Changes
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1. INTRODUCTION

Joint venture partners Walker Corporation and Daycorp are proposing the creation of a new urban area on a site of 1,308 hectares at Buckland Park within Playford City area, north of Adelaide.

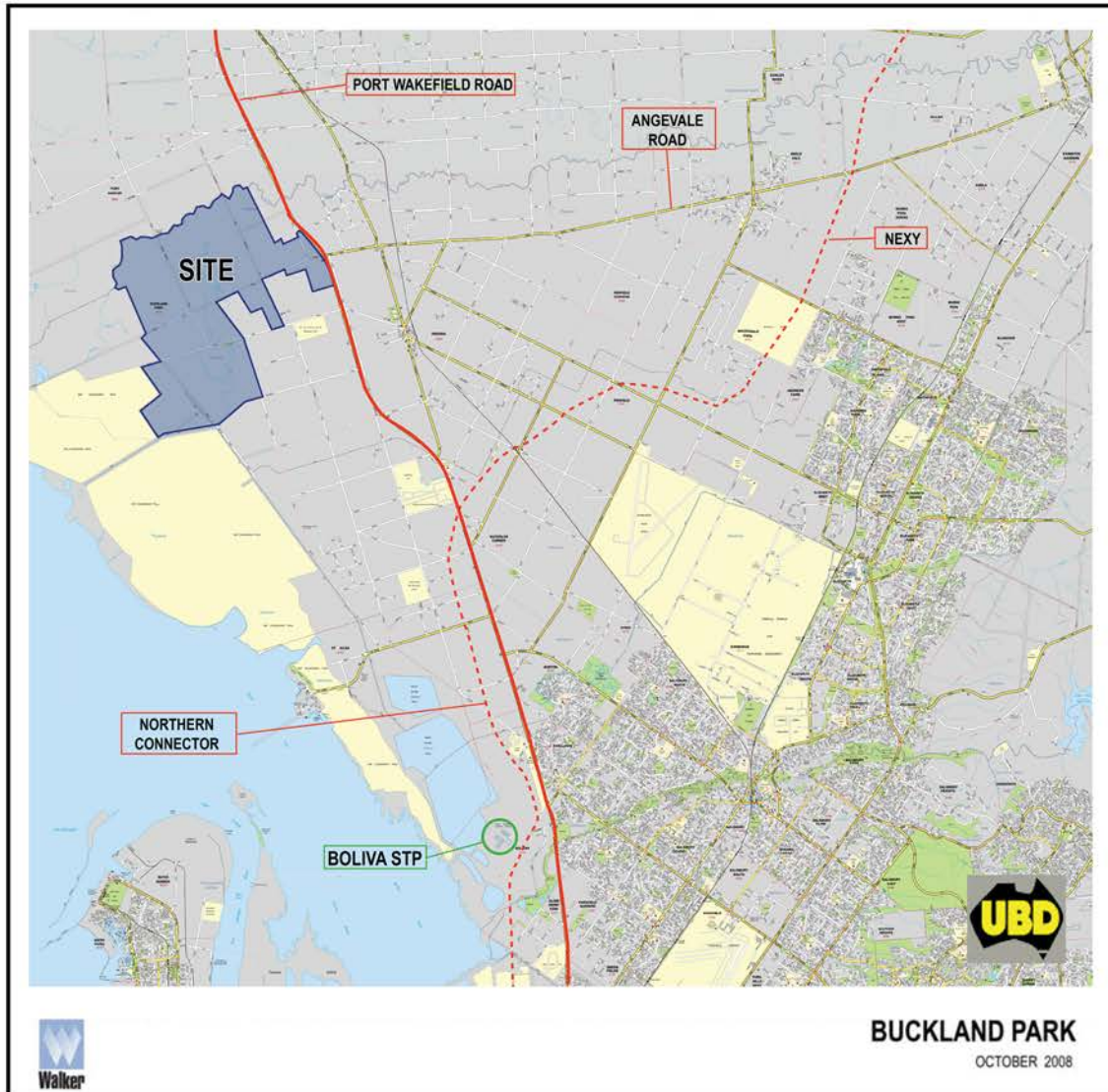


Figure 1: Locality Plan

The site is currently undeveloped. It is bounded by the Gawler River to the north, and Port Wakefield Road to the east.

It is located approximately 2 kilometres from the Gulf St Vincent coast. The area between the site and the coast is characterised by samphire and mangrove communities. These communities provide for a range of native invertebrates, the ecology of which is heavily influenced by tidal action.

Cheetham's salt pans are located between the coast and the site.

A site plan is overleaf.



Figure 2: Site Plan

The proposal comprises 12,000 residential allotments, with supporting commercial, retail, community and open space facilities. The proposal is illustrated in the Masterplan below.

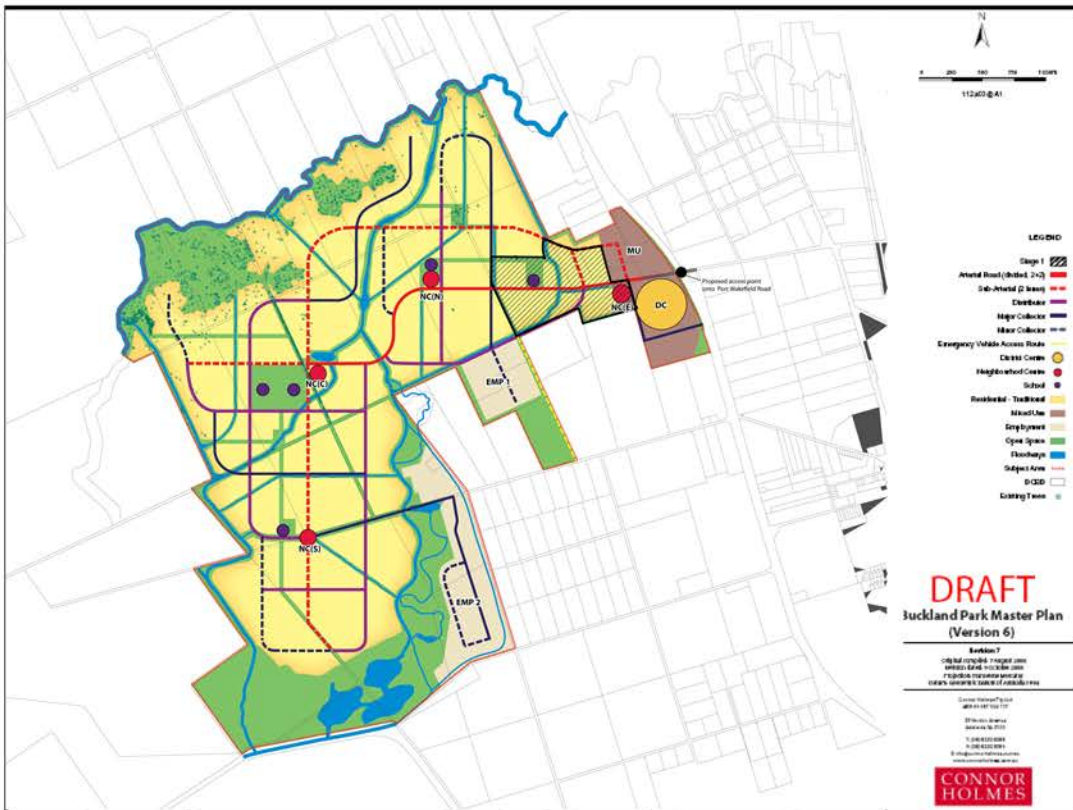


Figure 3: Masterplan

A 25 year construction time frame is anticipated.

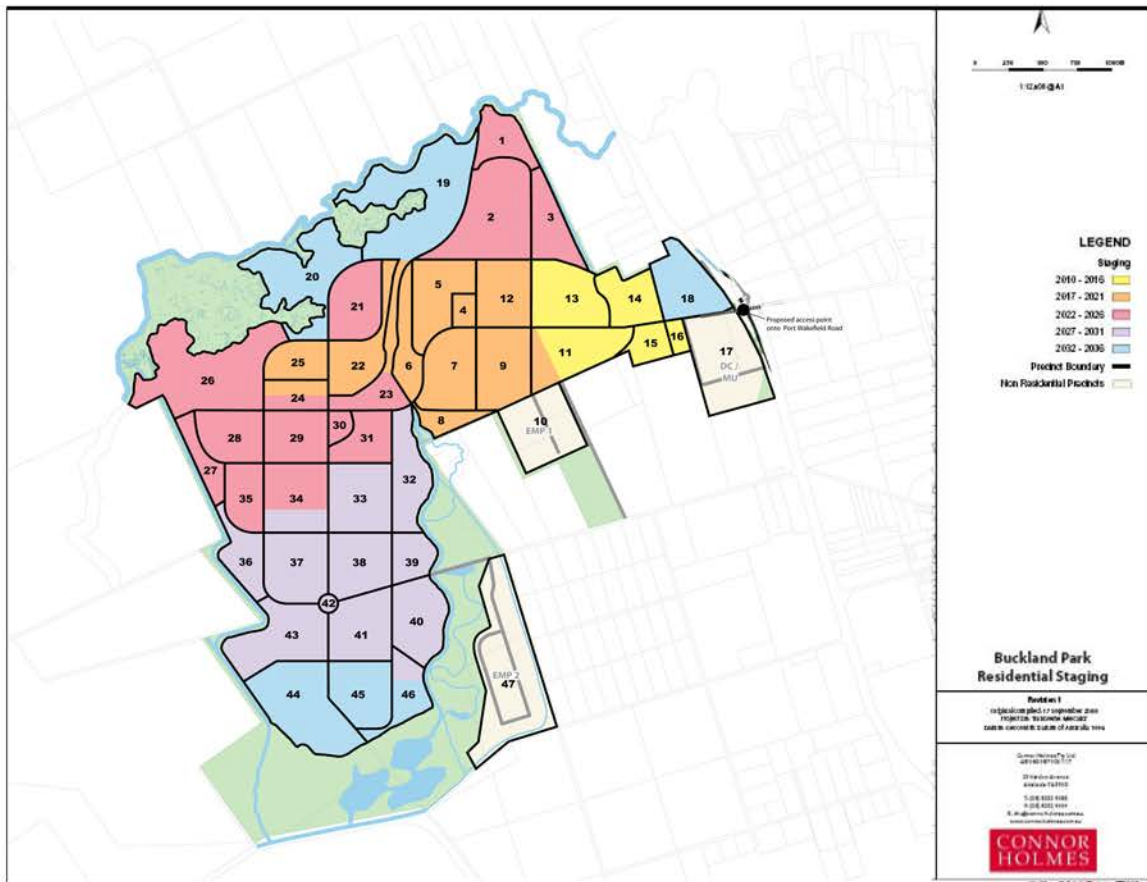


Figure 4: Staging Plan

The University of South Australia has been briefed to assess the future likely scale and impacts of mosquitoes on the site and proposal, and to recommend appropriate monitoring and management techniques that may be implemented.

In August 2008, the Development Assessment Commission issued revised guidelines for the environmental impact assessment of the proposal.

Of relevance to this assessment are the following guidelines.

- 4.3.19** Describe measures that may be undertaken to control mosquitoes in and near the site to reduce the possible health risks.
- 4.3.20** Describe how the mosquito control measures will impact on species that require insects for food.
- 4.3.21** Describe the impact of insect control measures on recreational fishing and local ecology.

In November 2007, Walker Corporation briefed University of South Australia to undertake the necessary assessment. The main tasks in that brief were as follows.

- Determine the size of the mosquito population on the site, and any risks to human health associated with this population, by desktop study and field work.
- Evaluate potential public health risk associated with mosquitoes and mosquito borne diseases, considering potential changes associated with global and local climatic change.
- Identify monitoring and control measures to be implemented.
- Describe how proposed mosquito control measures will impact on indigenous fish and fauna in the locality that rely on mosquitoes for food. In particular, the potential impacts on recreational fishing and local ecology should be considered.

This assessment addresses the EIS Guidelines and the tasks listed above.

2. NATURE AND SCALE OF MOSQUITO COMMUNITIES

2.1 INTRODUCTION

Mosquitoes usually occur as communities; namely groups of populations of different species. Each species may vary in the nature of the ecological niche it occupies, resulting in variable habitat and climate requirements. For this reason, each mosquito species in a given location will vary in terms of when it is abundant and the extent of nuisance and disease risk it poses to humans.

Furthermore, because the environmental conditions (including weather) will vary from year to year, so will the size of mosquito populations. So, the 'mosquito population' at a particular site is actually a diverse community of species that is spatially and temporally dynamic.

Only by studying mosquito communities over several years at a location can we hope to fully understand it. Thankfully, much is known about nearby mosquito communities in the region of the site, along the coast north of Adelaide, meaning that with a small amount of data collection a great deal about mosquitoes in Buckland Park and its environs can be surmised.

Two types of risks to human well-being are posed by mosquitoes: nuisance biting and disease. Although disease is always considered serious, the problem of nuisance biting cannot be discounted, as it may impact on lifestyle and community morale.

The nature of mosquito risks to human well-being is dependent upon the composition of the mosquito community; i.e. what species of mosquitoes are present and in what numbers.

Within urban areas there are two major sources of mosquitoes capable of causing a nuisance and transmitting disease.

Urbanised species, which could breed within the site.

Rangeland species, such as:

- Coastal mosquitoes, which may move into the site from the west;
- Peri-urban mosquitoes which may move into the site from adjacent areas (horticulture, compost production, horse agistment etc.).
- Mosquitoes which move into the site under the influence of regional phenomena, for example long distance transport (trucks and trains).

The direction of these potential incursions by rangeland species is shown at Figure 7 below.

2.1.2 Urbanised communities

Urbanised species can breed in habitats unwittingly provided by humans. Such habitats include drains, artificial containers, and roof gutters that

become filled with water. There are particular mosquito species that are adapted to these habitats.

Aedes notoscriptus is a native species distributed throughout Australia. It breeds well in natural water-filled tree holes and phytotelmata, and has made a successful shift into urban environments as a result of the ability to exploit artificial containers for breeding.

It is the major rainwater tank-breeding species in Adelaide, and colonises blocked gutters, self-watering pots and other containers.

It is likely that with a residential development at Buckland Park, there will be an increase in *Ae. notoscriptus* numbers.

However, we estimate that the nuisance and disease risk posed by *Ae. notoscriptus* would not be any greater at Buckland Park than for any other residential area in Adelaide.

Culex quinquefasciatus* and *Culex molestus are cosmopolitan species that breed in a variety of artificial containers, drains, tanks and groundpools. They prefer eutrophic water, so are well suited to nutrient-rich conditions such as septic tanks and run-off from well-fertilized areas.

As with *Ae. notoscriptus*, the disease and nuisance risk posed by these species in a Buckland Park development should be no greater than for any other residential area in Adelaide.

Culex globocoxitus* and *Tripteroides atripes may increase in abundance as a result of the proposal.

2.1.3 Rangeland communities

Rangeland species can breed in naturally occurring habitat, that may be fresh, brackish or saline. These habitats include water-filled tree holes and ground pools. Ground pools may be filled by rainfall, groundwater or tidal action.

Mosquitoes breeding in brackish and saline habitat in low lying marshy areas can breed in enormous numbers and create nuisance and disease risks of significant magnitude.

Although they do not originate in urban areas, rangeland species may breed in nearby habitat and fly into them.

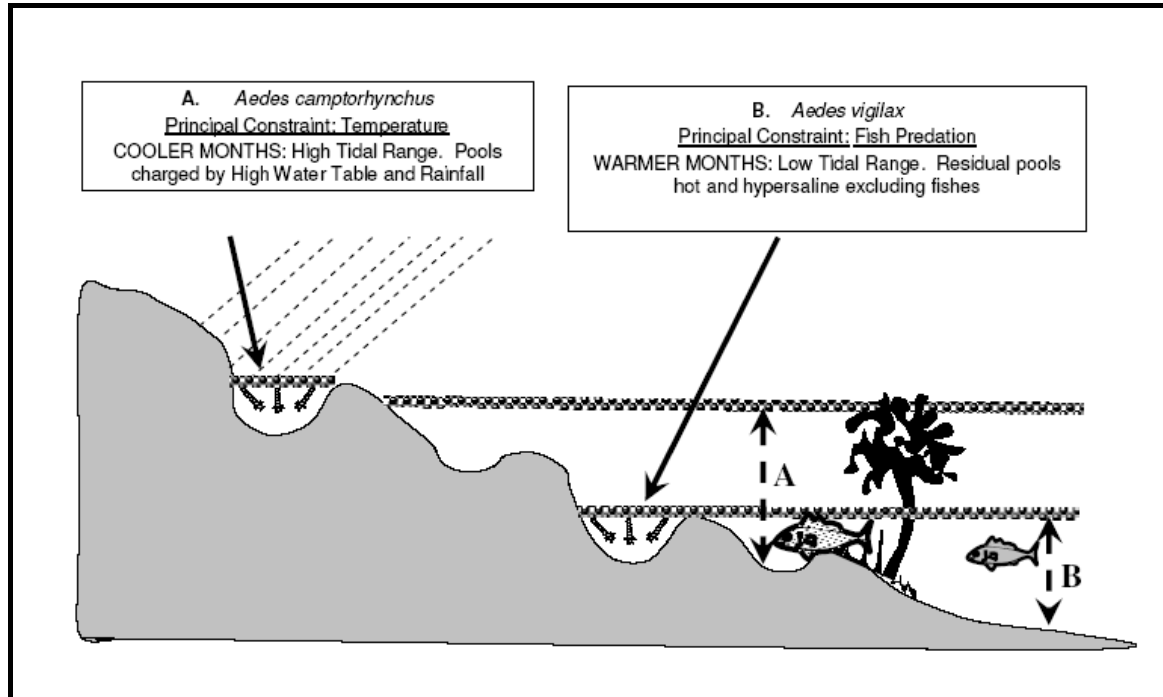
In Australia, non-urban mosquitoes are responsible for the majority of vector-borne disease. At particular risk are communities at the fringes of urban areas, as these tend to be closer to non-urban mosquito breeding grounds.

Furthermore, suitable habitats may be provided in suburban areas; for instance by run-off from drains into grassy depressions.

In any proposed housing development near the coast, the risk of incursions from coastal mosquitoes must be considered.

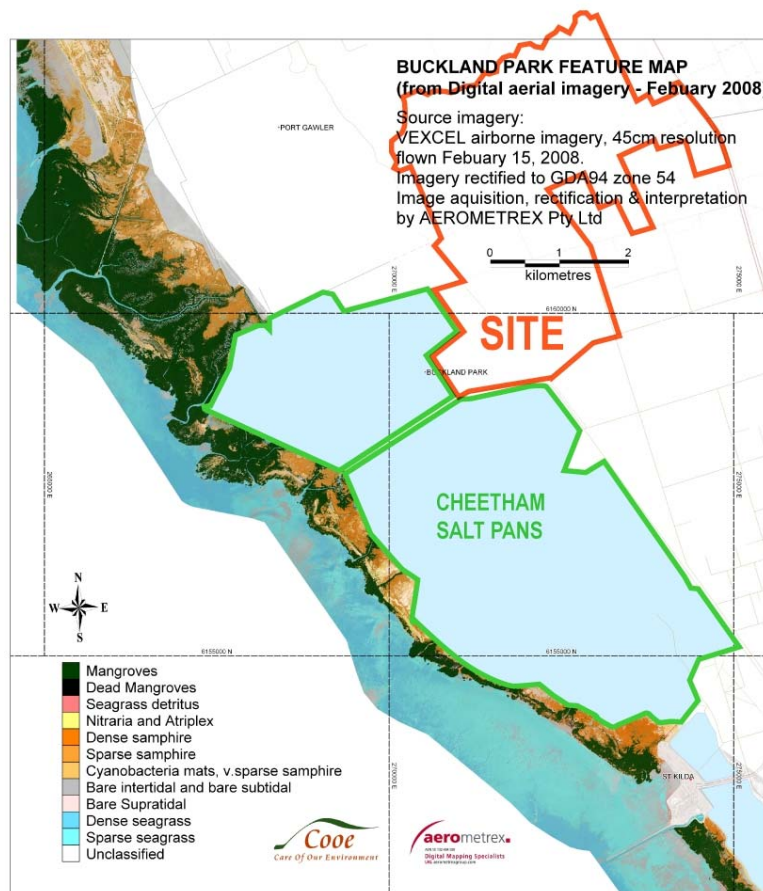
The figure below shows the likely breeding places for these mosquitoes within the site's environs. It illustrates the role of tide height, temperature and fish predation on the population dynamics of these coastal mosquitoes.

Figure 5: Profile of the niches of the two dominant coastal mosquitoes west of Buckland Park



Samphire and mangrove forest are located to the immediate west of the site (Fig. 6). Given the proximity of the site and proposal to extensive samphire swamp, it is considered likely that coastal mosquitoes may pose a risk to humans.

Figure 6: Mapping of vegetation types in the Buckland Park environs.



Southern Australia is home to two important coastal species. The northern salt marsh mosquito (*Aedes vigilax*) and southern salt marsh mosquito (*Aedes camptorhynchus*). They are both competent vectors of arboviruses and can episodically occur in very high numbers.

Both species are known to be responsible for Ross River virus transmission throughout Australia (Ballard & Marshall 1986; Mackenzie et al. 1998).

However, the role of these species as disease vectors in South Australia (SA) is unclear.

Both types are well recognised as pest species in areas north of Adelaide (Williams et al. 2001), and are known to be capable of dispersing several kilometres from breeding grounds (Lee et al. 1984).

They are therefore a potential concern for the Buckland Park proposal.

Aedes camptorhynchus, is a large, vicious biter that breeds in brackish ground pools in both coastal and inland areas.

In SA it is most abundant in spring and early summer and is common in low-lying areas with some ground salinity. *Aedes camptorhynchus* breeds particularly well amongst inundated samphire, which can be found to the west of the site (Fig. 6). Abundance of this species is determined particularly by rainfall and cooler temperatures.

Aedes camptorhynchus is known to fly several kilometres from breeding sites (Lee et al. 1984, M. Lindsay WA Dept Health, pers. comm. 2007) and thus may make incursions into the proposal's future residential areas causing nuisance and disease impacts.

Aedes vigilax, is a medium-sized vicious biter that breeds in brackish, saline and hypersaline groundpools. It breeds in inundated samphire and in pools amongst mangrove forest (see Figure 6).

In SA it is most abundant in mid-late Summer and Autumn. Abundance of this species is determined particularly by tidal action and higher temperatures. This species is known to fly up to 50 kilometres from breeding sites (Lee et al. 1984) and thus may make incursions into the proposal's future residential areas causing nuisance and disease impacts.

The abundance of *Ae. vigilax* is unlikely to be greatly affected by the proposal. However, poor drainage and movement of stormwater into adjacent undeveloped areas may create breeding habitat for *Ae. camptorhynchus*, particularly after rainfall in spring and early summer.

Both *Ae. camptorhynchus* and *Ae. vigilax* will make seasonal incursion into the site from coastal areas to the west, as illustrated in Figure 7, creating a risk of nuisance and disease in spring and early summer.

Any recommendations for management should focus on these species and these times of the year.

2.3 STUDY METHOD

Our initial aim was to characterise the composition of the mosquito community at Buckland Park, through analysis of previous data and literature and new field investigations. With this information we then aimed to analyse the community for its potential risks posed to human health and well-being in the event that a population of many thousands of people become resident there.

We used two modes of investigation.

2.3.1 Analysis of historical records for northern Adelaide mosquitoes

In-house records of the Mosquito and Plant Research Laboratory at University of South Australia (UniSA) were analysed. These records comprise mosquito collection data from coastal areas north of Adelaide from 1997 onwards. A large number of records were from suburban areas in the City of Salisbury, particularly Globe Derby Park (approx. 10km south of the site), which is adjacent to several freshwater wetlands, samphire swamp and mangrove forest. The conditions at Globe Derby Park are extremely similar to those in Buckland Park in terms of nearby vegetation.

Records of *ad hoc* collections from the St Kilda region and Buckland Park estate were also examined. Mosquito collection records from Torrens Island and nearby samphire swamp areas were obtained from the SA Department of Health and analysed. Previous publications concerning mosquitoes in

Adelaide (Williams et al. 1999, 2001; Williams and Proctor 2002) were consulted to determine species that could plausibly occur at Buckland Park.

2.4.1 Mosquito survey of Buckland Park and environs

Collections of mosquitoes were made at the proposal's site and nearby environs during Jan-Feb 2008. Carbon dioxide baited light traps (EVS type, Rohe and Fall 1979) were used.

These devices collect adult female mosquitoes that are searching for bloodmeal hosts, meaning that this form of sampling gives a good representation of the species likely to be posing the greatest nuisance or disease risk.

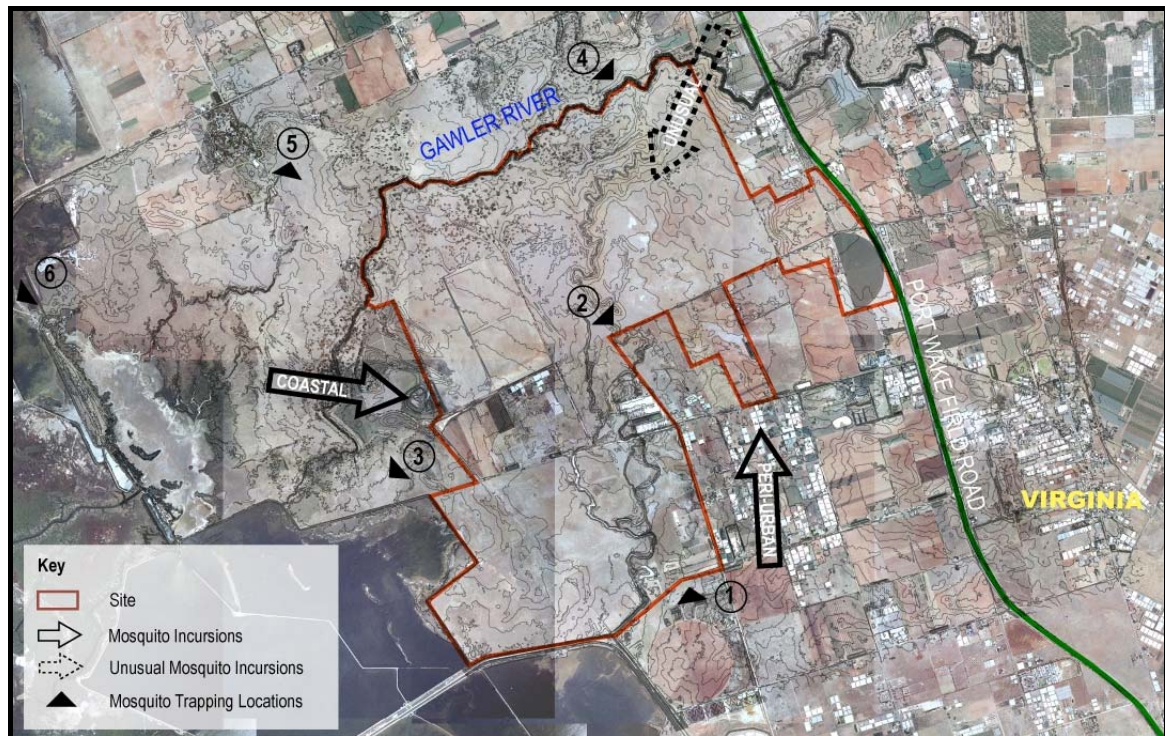


Figure 7: Mosquito Trapping Locations and Anticipated Direction of Incursions.

2.4 RESULTS

2.4.1 The mosquito community

We found mosquitoes at Buckland Park from within the urban and rangeland communities.

2.4.2 Urban mosquitoes

Urban mosquitoes were present in only small numbers during our survey. This was expected due to the lack of current development at the site.

2.4.3 Rangeland mosquitoes

Rangeland mosquitoes were abundant during our survey, especially *Ae. camptorhynchus* and *Ae. vigilax*. The latter was most abundant, at a level far exceeding the generally accepted 'nuisance threshold' of 100 per trap per night (165 per trap were collected during survey work in Jan-Feb 2008).

2.4.4 Predicted seasonality and abundance of major mosquito species

Systematic longitudinal studies of mosquito communities over several years at nearby coastal areas were available.

Our analysis of historical data enabled us to construct seasonality curves of major species which we have confirmed as occurring at Buckland Park. Of particular interest are the rangeland *Ae. camptorhynchus* and *Ae. vigilax*.

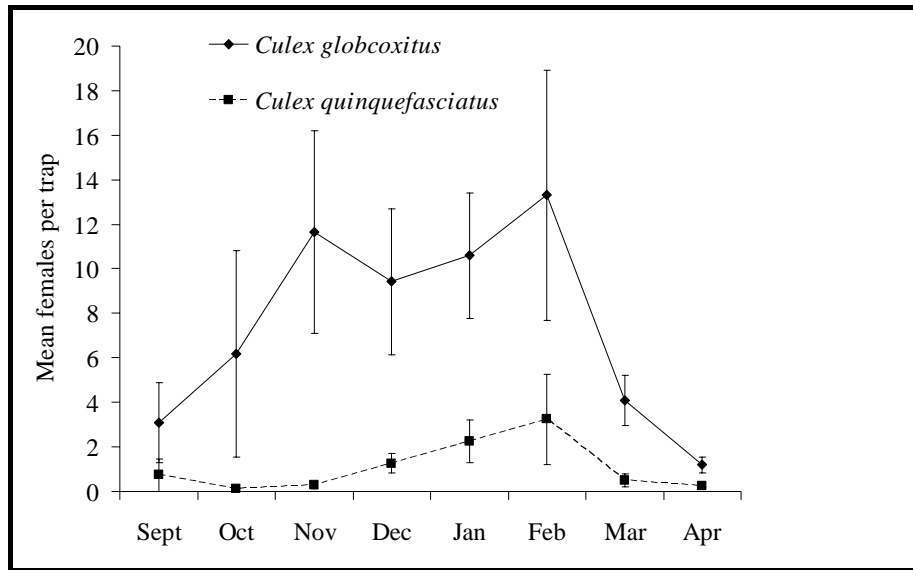
Given the close proximity of these previous studies, we expect very similar or identical seasonal patterns to apply at Buckland Park. The situation at Globe Derby Park is extremely similar to that proposed Buckland Park in many respects. It consists of a residential development built on low elevation land immediately to the east of samphire swamp and mangrove forest. Such proximity between residential development and mosquito habitat can be seen at various points along the South Australian coastline. Townships such as Whyalla, Pt Pirie, Pt Broughton and Cowell all suffer from periodic mosquito nuisance due to the close proximity of coastal mosquito breeding habitat.

Urban Species: Informative seasonality data was available for *Cx. globocoxitus* and *Cx. quinquefasciatus*. Abundance of *Cx. quinquefasciatus*, a prolific urban species, peaked in late summer (Fig. 8). By contrast, *Cx. globocoxitus* was more common from late spring until the start of autumn.

In general, the abundance of both species at Globe Derby Park did not exceed 20 mosquitoes per trap per night, a level well below typical 'nuisance biting' thresholds (approx. 100 per trap per night).

There is no cause to suspect a greatly different seasonal pattern for *Culex* species at the site.

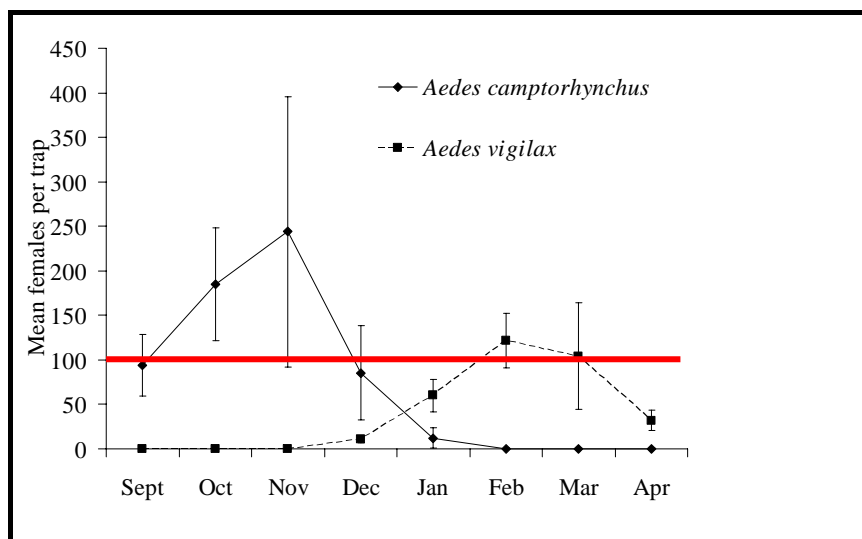
Figure 8: Seasonality of *Culex globocoxitus* and *Culex quinquefasciatus* for the period 2000-2007 at coastal Adelaide sites approx. 10km south of Buckland Park. Mean trap collection +/- SEM is presented



Rangeland coastal *Aedes* mosquitoes: both *Ae. camptorhynchus* and *Ae. vigilax* demonstrated strong seasonality (Fig. 9). The abundance of both species was consistently above threshold nuisance levels of 100 per trap per night, with *Ae. camptorhynchus* a major pest from September to December, and *Ae. vigilax* a pest after the new year.

We would expect similar seasonal patterns and nuisance biting problems at Buckland Park.

Figure 9 Seasonality of *Aedes camptorhynchus* and *Aedes vigilax* for the period 2000-2007 at coastal Adelaide sites approx. 10km south of Buckland Park. Mean trap collection +/- SEM is presented. The nuisance threshold of 100 per trap per night is also shown.



2.5 CONCLUSION

The most abundant members of the mosquito community at Buckland Park are rangeland coastal mosquitoes that breed in samphire and mangrove swamps to the west. At comparable sites nearby, such mosquitoes are present at nuisance levels (i.e. > 100 per trap per night) for much of the period from September to April. In particular, we would expect *Ae. camptorhynchus* to be a nuisance from Sep-Dec, and *Ae. vigilax* from Feb-Mar. While some variation to this timing would be expected, our analysis reveals a reasonable amount of predictability to such nuisance. With the development of human habitation and infrastructure, it is likely that some increased abundance of urban breeding mosquitoes in the area will occur.

(Table 1 below summarises the mosquito community composition and the risks posed by each member species).

Table 1: Mosquito species that occur (or are likely to occur) at Buckland Park. Asterisk denotes collection during 2008 survey.

SPECIES	SEASONALITY	HABITAT	LIKELY NUISANCE RATING	LIKELY VECTOR STATUS
<i>Aedes australis</i>	Summer months	Coastal saline	Low	-
<i>Aedes camptorhynchus</i>	Spring, early summer	Coastal brackish	High	Ross River virus, Barmah Forest virus
<i>Aedes notoscriptus</i> *	Summer, Autumn	Urban / sylvan	High	Ross River virus
<i>Aedes vigilax</i> *	Mid-late Summer and autumn	Coastal saline	High	Ross River virus
<i>Anopheles annulipes</i> *	Summer	Non-urban groundpools	Low	-
<i>Culex annulirostris</i> *	Summer	Non-urban groundpools	Medium	Ross River virus
<i>Culex australicus</i>	Summer	Non-urban groundpools	Low	-
<i>Culex globocoxitus</i> *	Spring, summer, autumn	Urban and non-urban goundpools and drains	Low	-
<i>Culex molestus</i> *	Spring, summer, autumn	Urban drains, tanks and sumps	High	-
<i>Culex quinquefasciatus</i> *	Spring, summer, autumn	Urban drains, tanks and sumps	High	-
<i>Tripteroides atripes</i>	Spring, Autumn	Urban/sylvan	Low	-

3. DISEASE RISK POSED BY MOSQUITOES

Following the characterisation of the local mosquito fauna and given knowledge of the disease vector status of each species, we provide the following risk assessment for potential mosquito-borne disease at Buckland Park.

3.1 ROSS RIVER AND BARMAH FOREST VIRUSES

Ross River and Barmah Forest viruses are the most likely vector-borne diseases to cause human infection at Buckland Park.

There are regular human notifications of locally acquired infections for both viruses throughout metropolitan Adelaide. Notification data for Ross River virus infection for the period Jan 1 – Dec 31 2007 in the nearby Salisbury local government area revealed an infection rate of 7.2 per 100,000 population (source, SA Department of Health, Communicable Disease Control Branch).

Likely local vectors of these viruses are the abundant rangeland coastal mosquitoes, *Ae. camptorhynchus* and *Ae. vigilax*, making these species an important focus for management in Buckland Park.

3.2 MURRAY VALLEY ENCEPHALITIS, WEST NILE AND KUNJIN VIRUSES

The risk posed by the flaviviruses, Murray Valley Encephalitis virus, West Nile virus / Kunjin virus, is predicted to be very low for Buckland Park.

While local mosquitoes may be competent vectors of these pathogens, there is little recorded transmission of these viruses in SA. The reasons for the absence of transmission in SA is not well understood. However, it is likely to be related to the behaviour and ecology of the reservoir viral hosts (such as waterfowl).

The last recorded human Murray Valley Encephalitis infection in SA was in 2000, in the far north west of the state (Conan Liu, Office of Health Protection, Dept. of Health and Ageing, pers. comm. July 2008).

There is no reason to believe the risk of infection at Buckland Park posed by these viruses is any different to that elsewhere in metropolitan Adelaide.

3.3 DENGUE AND CHIKUNGUNYA VIRUSES

There is little to no perceived risk of local Dengue or Chikungunya transmission at Buckland Park, as there is a complete absence of known competent mosquito vectors there (*Aedes aegypti* and *Aedes albopictus*).

3.4 MALARIA

Despite the presence of a potential malaria vector at Buckland Park, *Anopheles annulipes*, the risk of local malaria transmission is extremely small. The abundance of *An. annulipes* is extremely low.

The low frequency of malaria-positive people in SA supports the conclusion that infection with malaria will present only a low risk to future Buckland Park

residents. Virtually all malaria in Australia is brought in by travellers returning from overseas (Liu et al. 2006).

3.5 CONCLUSION

It is likely that some transmission of Ross River virus will occur at Buckland Park in the future. Ross River virus transmission regularly occurs in metropolitan Adelaide. De-identified notification data for Ross River virus infection for the period Jan 1 – Dec 31 2007 in the nearby Salisbury local government area, revealed an infection rate of 7.2 per 100,000 population (source, SA Department of Health, Communicable Disease Control Branch). This was during a non-epidemic year, and may be considered a typical baseline transmission level. If such a level of transmission was maintained, it would be reasonable to expect 1 notified case per annum in a Buckland Park population of 15,000 people, and approximately 2 cases per annum in 30,000 people. Predicting the exact amount of future transmission is not possible, although it would be reasonable to state that some years no transmission would occur, while in others there may be several cases.

4. POTENTIAL IMPACT OF GLOBAL AND LOCAL CLIMATIC CHANGE

4.1 INTRODUCTION

Mosquito abundance is determined largely by local climate and ecology. Thus, any changes to local climate are likely to have some influence on mosquito abundance, and therefore nuisance and disease risk. While it is impossible to predict these changes with a high level of confidence, we can make some broad predictions of likely mosquito fauna changes as a result of a changed climate.

Changes in global and regional climates over the 21st century are predicted due to the history of, and ongoing human-induced, greenhouse gas and sulphate aerosol emissions (CSIRO 2001) altering atmospheric composition (McInnes et al. 2003). An altered radiative balance caused by such emissions has led to increasing air temperatures, which in turn influences the global hydrological cycle, causing changes in rainfall patterns (Preston & Jones 2006). There is evidence to suggest these altered rainfall patterns, combined with low pressure systems and associated storm surges, can contribute to sea level rise (McInnes et al. 2000). Predictions of climate changes for the Adelaide region have been compiled with the use of various global and regional climate models (McInnes et al. 2003; CSIRO 2001).

4.2 CLIMATE CHANGE PREDICTIONS FOR ADELAIDE REGION

4.2.1 Temperature Changes

On average, the Earth has warmed by $0.6 \pm 0.2^{\circ}\text{C}$ since 1900 (CSIRO 2001; Preston & Jones 2006). Between 1910 and 2001, Australia's average temperature rose by 0.08°C per decade. Australia's minimum temperature increased by 0.11°C , while the maximum temperature increased by 0.06°C per decade. Between 1950 and 2003, SA's maximum temperature has increased more rapidly than national trends, at a rate of 0.17°C per decade, while the minimum has increased at a rate of 0.18°C per decade. The average temperature increase for SA has been 0.17°C per decade (McInnes et al. 2003).

Predicted temperature increases for the Adelaide region, relative to 1990 averages are detailed in Appendix One.

4.2.2 Rainfall Changes

Between 1950 and 2001, Australia's average annual rainfall generally decreased, however, there is regional and climatic variability (drier and wetter periods) (McInnes et al. 2003). Predicted rainfall decreases for the Adelaide region relative to 1990 averages are detailed in Appendix One.

4.2.3 Predicted quantitative effects of temperature and rainfall changes

In the light of the predicted changes to Adelaide's rainfall and temperature in a future climate, some variations to the composition and abundance of the local

mosquito fauna are predicted. These can only be discussed only in general terms, given the current understanding of local mosquito ecology.

There are, however, some more precise predictions that may be made with respect to the locally abundant coastal mosquitoes, *Ae. camptorhynchus* and *Ae. vigilax*.

***Aedes vigilax*:** We have developed a logistic regression model that describes the probability of *Ae. vigilax* population spikes in response to environmental variables.

This model has been developed from seven years of historic mosquito surveillance data in the northern Adelaide coastal region. The formulation used STATA statistical software (Ver. 9.2) and locally available meteorological data.

The resultant model identifies the key predictive drivers for *Ae. vigilax* in northern Adelaide and enables the calculation of spike probabilities. In this case we define a population spike as abundance over 100 female mosquitoes per trap (Rohe & Fall 1979) per night. This figure is a good correlate with abundance required to create noticeable nuisance biting in nearby human residences. The methods used and the resultant algorithm describing *Ae. vigilax* population spike probability is given in Appendix One.

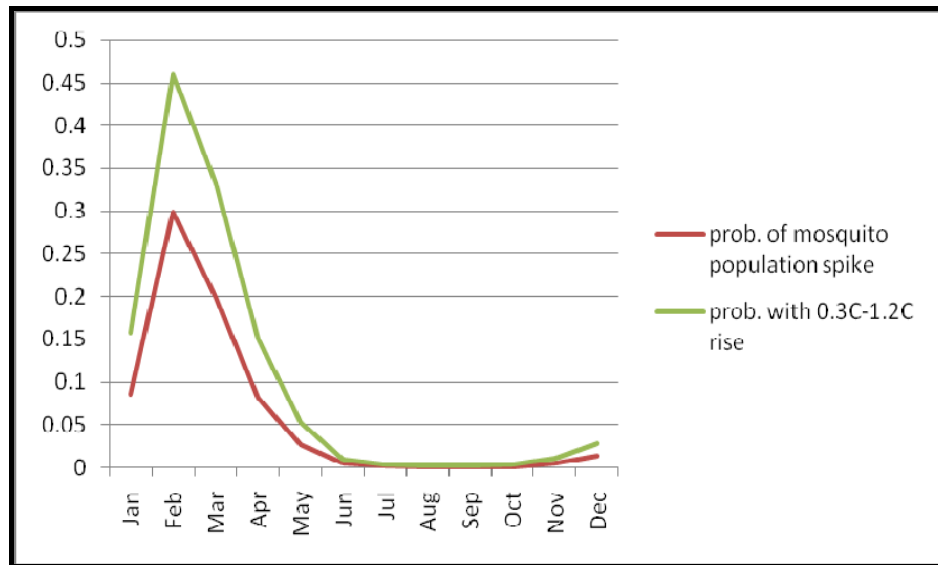
To calculate predicted climate change impacts for the year 2030, 0.3°C was added to the monthly average daily minima temperatures, and 1.2°C was added to the average daily maxima.

The result is an increased probability of *Ae. vigilax* population spikes throughout summer, autumn and late spring (Fig. 10). The models predict an approximately 15% increased risk of *Ae. vigilax* nuisance problems in February and March, and approximate 5% probability increases in January and April. There is no suggestion of a longer *Ae. vigilax* season.

Thus, we expect residents at Buckland Park to have a greater probability of experiencing *Ae. vigilax* mosquito biting in Summer and Autumn in 2030 compared with today. We have insufficient information to determine whether this poses an increased risk of arboviral disease, as impacts of climate change on other aspects of the virus transmission cycle could not be modelled.

NOTE: These predictions assume no significant change in *Ae. vigilax* physiology and ecology between now and 2030.

Figure 10: Probability of *Aedes vigilax* population spikes occurring in each month in northern Adelaide. Curves for current climatic conditions and those under a climate change scenario for 2030 are shown.



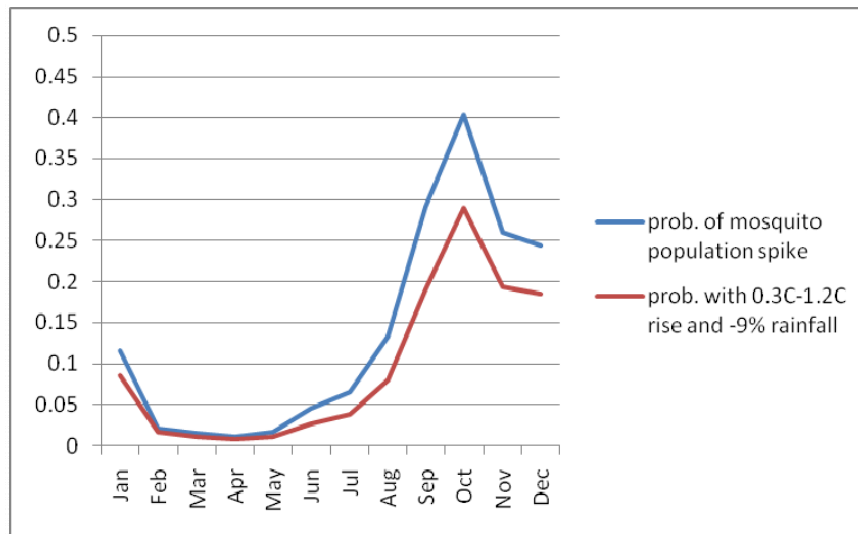
***Aedes camptorhynchus*:** As for *Ae. vigilax*, a logistic regression model was developed that describes the probability of *Ae. camptorhynchus* population spikes in response to changed environmental variables. This model has been developed for the northern Adelaide coastal region, based on seven years of historic mosquito surveillance data, using STATA statistical software and locally available meteorological data. The methods used and the resultant algorithm describing *Ae. camptorhynchus* population spike probability is given in Appendix One.

To calculate predicted climate change impacts for the year 2030, 0.3°C was added to the monthly average daily minima temperatures, and 1.2°C was added to the average daily maxima. We used the maximum predicted annual rainfall decrease, -9%, to generate predicted monthly rainfall. The result is a decreased probability of *Ae. camptorhynchus* population spikes throughout Winter, Spring and early Summer (Fig. 11). The models predict an approximately 12% decreased risk of *Ae. camptorhynchus* nuisance problems in October, and an approximate 5% probability decrease in December.

Thus, we expect residents at Buckland Park to have a reduced probability of experiencing *Ae. camptorhynchus* nuisance mosquito biting in Winter, Spring and early Summer in 2030 compared with today. We have insufficient information to determine whether this poses a decreased risk of arboviral disease, as impacts of climate change on other aspects of the virus transmission cycle have not been modelled.

NOTE: These predictions assume no significant change in *Ae. camptorhynchus* physiology and ecology between now and 2030.

Figure 11: Probability of *Aedes camptorhynchus* population spikes occurring in each month in northern Adelaide. Curves for current climatic conditions and those under a climate change scenario for 2030 are shown.



General comments about predicted climate change and local mosquito fauna (excluding *Ae. camptorhynchus* and *Ae. vigilax*)

Without detailed ecological modelling, it is impossible to make quantitative predictions about how mosquito fauna may change in response to an altered climate. However, given the overall prediction of slightly higher temperatures and lower rainfall in Adelaide, we can make some informed speculation about the potential impacts.

Higher temperatures will shorten generation time and potentially allow greater numbers of urbanised mosquitoes, especially *Ae. notoscriptus*, to emerge and pose a nuisance and/or disease threat. By contrast, *Cx. molestus* and *Cx. quinquefasciatus* may increase in response to greater water-storing, or decrease in response to reduced rainfall run-off into drains and sumps. Mosquitoes breeding in habitats unwittingly provided by humans may increase or decrease in response to altered climate. Species breeding in rainwater tanks may increase as these devices are increasingly utilised by water-storing residents.

Rangeland species may be expected to decrease as rainfall decreases. Species affected would include *Cx. annulirostris*, *Cx. australicus* and *An. annulipes*.

4.3 CONCLUSION

Modelling of the ecological drivers of the two main pest mosquito species at Buckland Park, *Ae. camptorhynchus* and *Ae. vigilax* has permitted the potential impact of climate change on their seasonal abundance to be assessed.

Increases in *Ae. vigilax* pest effects are predicted to occur by 2030 in late Summer. By contrast, *Ae. camptorhynchus* pest effects are likely to be reduced by 2030. Effects of altered climate on other species cannot be quantified at this stage.

Nonetheless, it is likely that some will decrease and possibly disappear entirely, while others will continue to flourish.

5. POTENTIAL MONITORING AND CONTROL MEASURES

5.1 INTRODUCTION

Mosquito control measures need to be applied within the framework of a strategic plan. All too often, the trigger for mosquito control measures is a series of complaints from residents. By this time, there is very little which can be done to ameliorate the problem and, in fact, these measures are frequently only effective in addressing the public's perception of the impacts.

We propose the establishment (and intelligent modification) of an Integrated Vector Management Strategy (IVMS) for Buckland Park. The main reason for taking a wider approach is because mosquito problems are more easily solved by pre-emptive action. Such action must be taken in the light of useful data gathered from monitoring programs.

An IVMS for Buckland Park would be based on the following guiding principles:

- Control measures are preferably pre-emptive and not reactive;
- The strategy is dynamic and is constantly modified in the light of new insights;
- The vision taken is contextual for both local and regional issues;
- Sufficient resources are provided to conduct effective mosquito surveillance and control;
- Mosquito management is conducted by individuals with vision and imagination who keep up to date with current mosquito trends and intelligence.

Our previous discussion has established that urbanised mosquitoes may be a problem in Buckland Park, though no greater than in any other urban area in Adelaide.

Coastal rangeland mosquitoes, particularly *Ae. vigilax* and *Ae. camptorhynchus*, pose a risk of nuisance and disease for future residents. As previously stated, this nuisance is most likely to occur in the period Sep-Dec (*Ae. camptorhynchus*) and Feb-Mar (*Ae. vigilax*).

Different management methods apply to the two different types of communities.

In South Australia there are various stakeholders involved in the management of mosquitoes (Environmental Health Service 2007). These include:

- The community
- Land owners
- Local Government
- State government
- Commonwealth government

- Others such as research institutions, tourism interests.

Each stakeholder has its own responsibilities and concerns. An IVMS approach ensures that each works together to achieve the most effective results.

The *South Australian Integrated Mosquito Management Strategy 2007* is being applied to the management of mosquitoes throughout South Australia.

It is considered that application of its principles to a future urban area at Buckland Park will assist in effectively managing mosquitoes at the site.

5.2 MONITORING

In order to provide appropriate data for the IVMS, particular monitoring is required. This should take four forms.

5.2.1 Mosquito Population and Disease Intelligence

Mosquito management should be undertaken in the light of data from a variety of sources. While the gathering of data specific to the site of interest from larval and adult mosquito collection is vital, it is also important for mosquito managers to monitor and assemble information from the following sources:

- Arboviral disease notifications from the South Australian Health authorities.
- Literature about new mosquito introductions.
- Literature about emerging arboviral diseases.
- A network of environmental health personnel and academics working in government and universities within South Australia.

5.2.2 Environmental Parameters

Arrangements should be made to gather daily temperature, rainfall and tide height data for the coastline immediately west of Buckland Park for the mosquito active period (Sep-Apr). These data are particularly important for the prediction of problem outbreaks of coastal mosquitoes (*Aedes vigilax* in summer and *Aedes camptorhynchus* in winter) in light of patterns observed in very similar environs close to the site. The collection and analysis of such data would not necessarily be the work of one person, but would be part of an integrated management strategy involving several people.

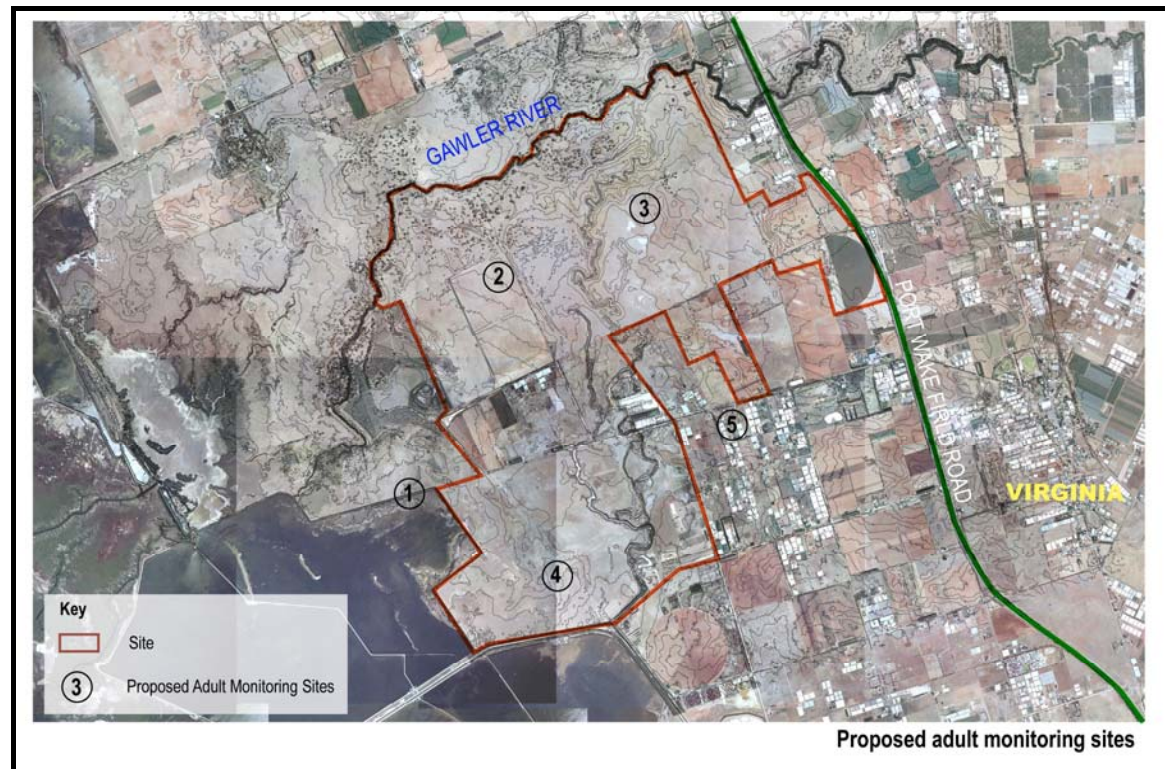
5.2.3 Weekly Larval Dipping

'Sentinel' larval locations should be semi-quantitatively dipped on a weekly basis in the mosquito season, September to May. This should involve taking ten random dips from the water using the appropriate method and recording the average number per dip. We recommend that sentinel locations be selected in the following areas: along the coast west of Buckland Park; within drains and ephemeral ponds in the site; in depressions and ephemeral water bodies associated with Thompsons Creek; and in areas adjacent to horticultural, horse agistment and composting activities.

5.2.4 Weekly Adult Trapping

Carbon Dioxide-baited adult mosquito traps should be deployed on a weekly basis at locations shown below during the period Sep-Apr.

Figure 12: Proposed Adult Monitoring Locations



- Trap 1** At a secure location west of the site in order to monitor the eastward movement of problem coastal mosquitoes.
- Traps 2 & 3** Two traps within the site in order to monitor both urban (endogenous) and rangeland (exogenous) mosquito species.
- Trap 4** In association with Thompson Creek in order to monitor mosquito activity associated with ephemeral waters of that drainage.
- Trap 5** A trap which may be moved to any location on the periphery of the site in order to gauge the extent of mosquito incursions from: greenhouses; composting activities and horse agistment.

Over and above the patterns which will be revealed by the adult mosquito trapping above, there will be regular data available that will indicate any unusual mosquito incursions which may signal possible disease risk. Such unusual incursions may include exotic species or and/important disease vectors hitherto unknown in the region.

5.2.5 Translating Monitoring into Action

The framework below operates on an 'If, Then' principle. The 'If' component is supplied from the various monitoring activities outlined above and the 'Then' component denotes the recommended action (control measure or otherwise).

Table 2: Framework for Monitoring Activities

MONITORING AND SURVEILLANCE	IF	THEN	ACTION
Environmental Parameters	Cool weather, High Tidal Range	Inspect perched coastal pools for <i>Aedes camptorhynchus</i> breeding	Low larval numbers (< 1 per dip) will not require treatment. Otherwise treat pools with S-Methoprene.
Environmental Parameters	Hot weather, Low Tidal Range	Inspect mangrove coastal pools for <i>Aedes vigilax</i> breeding	Low larval numbers (< 1 per dip) will not require treatment. Otherwise treat pools with containing many small instars with S-Methoprene. If there are many large larval instars apply knockdown with <i>B. thuringiensis</i> formulations.
Environmental Parameters	Sustained and heavy winter rainfall	Inspect perched coastal pools for <i>Aedes camptorhynchus</i> breeding	Low larval numbers (< 1 per dip) will not require treatment. Otherwise treat pools with containing many small instars with S-Methoprene. If there are many large larval instars apply knockdown with <i>B. thuringiensis</i> formulations.
Environmental Parameters	Sustained and heavy summer rainfall	Inspect urban area for ephemeral pools	Treat pools prophylactically with S-Methoprene. If there are many large larval instars apply knockdown with <i>B. thuringiensis</i> formulations.
Arboviral Disease Notifications	Several cases reported in the area (radius 10 km)	Inspect all larval habitat in the suburb and surrounds for breeding.	Take pre-emptive action to reduce larval populations by knockdown spraying and installing S-Methoprene briquettes
Arboviral Disease Notifications	Arboviral epidemic reported in the area (radius 10 km)	Activate Emergency Plan and coopt additional personnel	<ul style="list-style-type: none"> • Broadscale larvicidal treatments; • Adult Mosquito Knockdown; • Public Education; • Media Releases
Trap 1. Monitoring	Numbers of coastal mosquitoes exceed 50 per trap	Check coastal larval habitat for breeding	Low larval numbers (< 1 per dip) will not require treatment. Otherwise treat pools with containing many small instars with S-Methoprene. If there are many large larval instars apply knockdown with <i>B. thuringiensis</i> formulations.
Traps 2 & 3 Monitoring	Numbers of common pest urban species are high	Search for urban larval habitat	Undertake spot control in urban habitats (rainwater tanks; drains, puddles etc.); News release for local radio or newspaper; Public education
Traps 2 & 3 Monitoring	Numbers of coastal species are high	Check coastal larval habitat for breeding	Low larval numbers (< 1 per dip) will not require treatment. Otherwise treat pools with containing many

			small instars with S-Methoprene. If there are many large larval instars apply knockdown with <i>B. thuringiensis</i> formulations.
Traps 2 & 3 Monitoring	Numbers of unusual disease vector species are high	Consult with health authorities for concerted action. Decide on whether the Emergency Plan should be activated.	Check all larval habitats for unusual larval species and apply control measures; Consult with neighbouring suburbs for similar outbreaks; Issue warnings through media; Public Education.
Traps 4. Monitoring	Numbers of open drainage species are high	Survey open spaces associated with surface drainage related to Thompson's Creek	Low larval numbers (< 1 per dip) will not require treatment. Otherwise treat pools with containing many small instars with S-Methoprene. If there are many large larval instars apply knockdown with <i>B. thuringiensis</i> formulations.
Traps 5. Monitoring (Moved according to indicated need)	Numbers of species associated with peripheral industries are high	Survey adjacent facilities (with owner permission) for mosquito breeding sites	Arrange for the implementation of appropriate control measures and supply necessary information for the reduction of mosquito breeding sites.
All Larval Dipping	Overall patterns of larval abundance indicate future problems	Document different patterns; take advice	Take appropriate control measures
All adult trapping	Overall patterns of adult abundance indicate future problems	Document different patterns; take advice	Take appropriate control measures

5.3 MANAGEMENT

A variety of mosquito control measures is available. Each situation involves the application of the appropriate control measure. For example, in an extreme medical emergency where there is a mosquito-borne disease epidemic, it would be appropriate to contemplate using broad acre aerial spraying. On the other hand, for minor local nuisance mosquitoes, limited larvaciding may be appropriate.

A major principle of mosquito control usually rules all actions: source reduction (reducing larval populations) should be the primary aim.

Given the potential environmental and economic costs of broadacre insecticide application for mosquito control, it is prudent to consider alternative mosquito control options. One such option is the use of natural and/or artificial barriers treated with insecticide to kill and/or impede mosquito incursions into the site.

5.3.1 Larval Control Measures

Larval Knockdown:

The use of *Bacillus thuringiensis* var. *israeliensis* toxins in different formulations (under different trade names) is currently the preferred method of

mosquito larval knockdown. The formulation is either sprayed as a liquid or broadcast as pellets into water bodies where it will kill most larvae within days as they ingest the toxin. The scale of the application operation can range from single puddles from a back-pack to boom-sprayers or application from fixed-wing aircraft.

Control of mosquitoes by application of larvicide may involve extensive treatment of sensitive coastal intertidal environments, something which may not be acceptable on ecological grounds. Based on the risk of nuisance and disease evident at the time (as determined by monitoring), the decision to spray extensively would be the subject of negotiation with coastal protection authorities.

Larval Development Stasis:

The Insect Growth Regulator (IGR), S-Methoprene can be used, formulated as pellets or briquettes, to prevent the pupation of mosquito larvae. If applied when larvae are young, they will continue to grow and develop until they reach last larval stage where they will fail to pupate and emerge as problem adults. Similar possibilities to the knockdown methods described above for the application of IGR's are available.

5.3.2 Adult Control Measures

Adult Knockdown:

In extreme situations it is possible to spray areas with short half-life pyrethroid insecticides in order to kill adult mosquitoes. This is the equivalent of a large scale 'fly spray' operation and is seldom justified.

An Insecticidal Treated Barrier:

In recent times, particularly in situations where larval control is almost impossible, persistent, 90 days, formulations of the contact insecticide bifenthrin has been applied to vegetation or mesh barriers erected between the larval habitat (coastal salt marshes) and the adjacent human populations. These have proved to be surprisingly effective, however, there remain concerns about their impacts on non-target insect species.

The use of an intercept barrier may be useful, given Buckland Park is at risk of incursions by coastal mosquitoes *Ae. camptorhynchus* and *Ae. vigilax* from breeding grounds to the west.

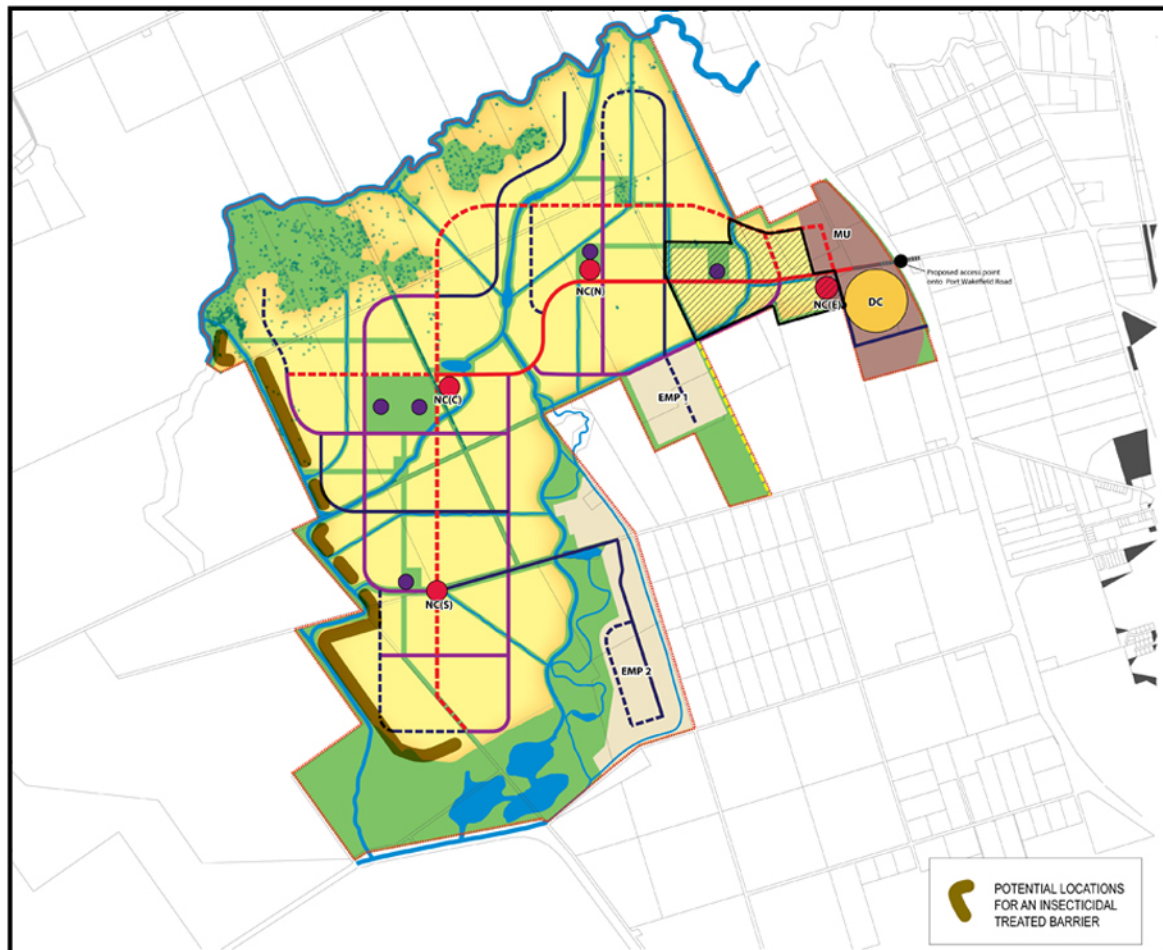
Application of insecticide (malathion) to barrier vegetation has been demonstrated to provide control of coastal mosquitoes in the United States (Anderson et al. 1991). A similar application of a pyrethroid insecticide (bifenthrin) to a natural vegetation barrier between residential areas in Buckland Park and the coastal mosquito breeding grounds to the west could be used.

Insecticide-treated barriers may consist of vegetation, or artificial structures such as fencing. Both could be used within the proposal. The proposed residential areas will include extensive fencing around houses, and parks where vegetated barriers could be grown.

A vegetated barrier should consist of dense, fine-leaved, woody foliage. Shrubs and trees with foliage from near ground level to at least 2 metres high, densely planted, would work best. Such foliage would provide a natural resting place for migrating mosquitoes, which would then be killed upon contact with residual insecticide previously applied.

The barrier should be planted to intercept migrating coastal mosquitoes from areas to the west.

Figure 13: Potential locations for a barrier



The potential off target impact on other species is not known at this time, as this approach has not been tried in Australia before.

However, the locations in which the barrier could be considered are staged for construction in some 14 to 20 years.

It is considered that this approach to mosquito control will be further developed when the detailed design of those residential areas most likely to be impacted on by mosquito incursions from the coast occurs.

Research will need to consider these issues.

- Impact on non-target species.

- Optimal configuration for physical deployment (mesh screens, vegetation barriers special plantings).
- Comparison of ecological impact with coastal insecticide application.
- Impact on nuisance and disease-vector mosquitoes.
- Costs relative to with broadcast insecticidal applications, particularly as implementation and maintenance will be the responsibility of home owners and Playford City Council.

5.3.3 Individuals and land owners

New residents should be required to provide mosquito screens to windows.

New residents should be educated about keeping their gutters clear and garden free of potential receptacles for water which may provide mosquito breeding places.

These requirements will be included in the Design Guidelines which will be provided to future residents.

5.4 CONCLUSION

Monitoring of mosquito communities will be essential, as such work will inform as to the current level of nuisance and disease risk, allowing decisions concerning the extent of mosquito control operations to be made. Future planning for resource allocation for any future mosquito management strategies should involve local government health officers. Discussion with personnel in the SA Department of Health (who provide partial funding for local government mosquito management programs) is also advised.

6. POTENTIAL IMPACTS ON LOCAL ECOSYSTEMS INDIGENOUS FISH, FAUNA AND RECREATIONAL FISHING

6.1 INTRODUCTION

Insecticides are pesticide compounds specifically applied to control insects and are easily absorbed through the cuticle of an insect (Davis et al. 2007).

Mosquito larvicides are insecticides that target juvenile mosquitoes (Agency for Toxic Substances and Disease Registry 2005) and prevent the larvae from emerging (Environmental Health Service 2006). The most common larvicide used in SA is (s)-methoprene (Products: Altosid®, PROLINK® and NOMOZ®), which is a synthetic analogue of the insect juvenile hormone which regulates growth (Environmental Health Service 2006), the use of which stunts larval development (Agency for Toxic Substances and Disease Registry 2005). *Bacillus thuringiensis israelensis* (Bti) (Products: VectoBac® and Bti®) contain a bacterially produced toxin, which upon consumption, is toxic to larvae of several insects (Glare & O'Callaghan 1998).

This microbial larvicide is used in SA, as is the organophosphate temephos (Product: Abate®), which interferes with nerve signal transmission (Environmental Health Service 2006). *Bacillus sphaericus* (Bs) (Product: VectoLex®) is a bacterial toxin effectively used as a larvicide and has a similar action to Bti (Environmental Health Service 2006). Mosquito adulticides are often broad spectrum insecticides, toxic to many insects (Davis et al. 2007) and their use in SA is therefore limited. Bifenthrin (Product: Bistar®) is an adulticide used in SA (Environmental Health Service 2006).

6.2 OFF-TARGET IMPACTS

6.2.1 Mosquito Larvicides

(S)-methoprene is an effective larvicide, delivered as either liquid, pellets, bricks, or bound to sand (Environmental Health Service 2006). However, many off-target impacts on biomass and species diversity of invertebrates have been reported, including termites, protozoa, aquatic macro invertebrates, and disruptions of normal foraging patterns and wax production in bees (Glare & O'Callaghan 1999). (S)-methoprene is moderately and slightly toxic to warm water and coldwater freshwater fish respectively, and is slightly toxic to birds (Extoxnet 1996; Agency for Toxic Substances and Disease Registry 2005). Reductions in the survival and metamorphosis of mud crabs (Glare & O'Callaghan 1999) and shrimps, has been reported, due to the use of this larvicide (McKenney & Matthews 1990).

(S)-methoprene takes effect generally at the fourth larval instar, preventing disruption of the food chain, unlike *Bacillus thuringiensis israelensis* which removes mosquito larvae from access to prey by taking effect as early as the first instar, leading to decreased predatory-insect biomass (Environmental Health Service 2006).

Bti toxicity also affects off-target invertebrate populations such as chironomids, blackflies (Glare & O'Callaghan 1998; Dickman 2000) and nematodes (Meadows et al. 1990) but has not been found to be toxic to birds

(Glare & O'Callaghan 1998). Temephos is an effective mosquito larvicide, often applied as a spray however, it has been found to be highly toxic to bird species (Exttoxnet 1996) and similar to (s)-methoprene, is also toxic to fish, crustaceans, bees and freshwater macro invertebrates (Environmental Health Service 2006).

Although *Bacillus sphaericus* acts similarly to Bti, it has not been found to have any off-target impacts on any invertebrates or vertebrates (Pham et al. 1998). However, this microbial larvicide has only been found effective against two mosquito genera (*Culex spp.* And *Anopheles spp.*) (Environmental Health Service 2006; Pham et al. 1998).

6.2.2 Mosquito Adulticides

Bifenthrin is used as a mosquito adulticide in barrier treatments and the toxic application can be applied to off-target organisms such as fish, crustaceans and aquatic macro invertebrates (Exttoxnet 1995), bees and is moderately toxic to several bird species (Briggs 1992). Bifenthrin can also be moderately toxic to mammals when ingested (Exttoxnet 1995). Although temephos, used as an adulticide is considered one of the least toxic organophosphate insecticides, it can be toxic to mammals (Agency for Toxic Substances and Disease Registry 2005).

6.2.3 Vegetative Barriers

The off-target environmental impacts have not been established.

It is possible that the sum environmental impact will be positive, as a successful barrier would reduce the need to apply broadacre larvicides to sensitive water bodies. However, the barrier would almost certainly expose off-target invertebrates and vertebrates.

6.3 POTENTIAL IMPACTS ON THE LOCAL ECOLOGY

There are currently no larvicides or adulticides registered for use in SA that target all desired mosquito species without having off-target impacts. Such off-target impacts can alter species diversity, biomass and abundance, and alter important food chains and ecosystems.

It is likely that mosquito control measures in the Buckland Park area will increase as a result of the proposal. The most likely control measures to be employed are broadacre larval site treatments with either Bti or s-methoprene, and application of residual pyrethroid adulticides (e.g. bifenthrin) to artificial and vegetation barriers.

The off-target impacts of Bti and s-methoprene are well understood. If applied at unnecessarily high doses in areas where mosquito breeding is not high, there is a potential for adverse effects on local aquatic life, particularly invertebrates and animals further up the food chain (e.g. fish).

This said, a well designed and implemented mosquito control program conducted by trained vector control officers will largely circumvent any significant effects on local fisheries.

The off-target impacts of residual adulticide treatment of barriers remains unquantified and we strongly recommend the support of research programs to quantify any such effects.

6.4 CONCLUSION

Any chemical or biological agent used for mosquito control will have some off-target impacts. However, a well-designed and managed mosquito control program will minimise these impacts.

7. OVERALL CONCLUSION

The Mosquito and Plant Research Group has studied the nature of the current mosquito community present in and around the proposed Buckland Park development site. Longer term studies of very similar nearby environs have been analysed in order to make inferences about the future impact and control of mosquito communities in the region.

Like most mosquito communities, the one at Buckland Park is seasonally variable, yet predictable in that the peak periods for mosquito nuisance and disease transmission risk (Sep – Dec; Feb - Mar) are identifiable. Mosquitoes in Buckland Park will be locally produced on-site and will also emigrate from breeding grounds immediately to the west. These latter coastal mosquitoes pose a nuisance risk.

As known vectors of Ross River virus, these coastal mosquitoes (*Ae. camptorhynchus* and *Ae. vigilax*) also pose a real disease transmission risk. However, the extent of future transmission of mosquito borne diseases at the site cannot be predicted with accuracy. Nonetheless, if current baseline transmission levels in the region are maintained (approx. 7 Ross River virus cases per 100,000 population per annum), then some small number of notifications may be expected in Buckland Park residents each year.

Based on recently derived models describing the interaction between coastal mosquitoes and climate and conservative regional warming estimates, we predict that some mosquitoes in the area are likely to become less abundant by 2030 (*Ae. camptorhynchus*), whereas some will become more abundant (*Ae. vigilax*). Thus, the net effect of climate warming and reduced rainfall on local mosquito populations is likely to be neutral.

The best way to minimise the nuisance and disease risk posed by mosquitoes to people is to implement a well designed mosquito surveillance and control program. Such a program, if run properly, will provide information permitting targeted control of problem mosquito species, thereby minimising ecological impacts of extensive, non-targeted mosquito spraying. The application of modern mosquito control products (e.g. s-methoprene) coupled with insecticide-treated foliage barriers will also act to reduce such adverse ecological impacts of mosquito control.

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APPENDIX 1 PREDICTED CHANGES TO CLIMATE IN NORTHERN ADELAIDE

1.1 PREDICTED TEMPERATURE CHANGES

Predicted temperature changes (Table 1.3), are most severe for Summer and Spring. Summer temperatures were 15.2 – 29.1°C between 1977 - 1997 (ABS 1999) and predictions see a temperature increase of 0.3 – 1.2°C by 2030, and 0.8 – 3.7°C by 2070 (McInnes et al. 2003). Spring temperatures were 11.4 – 26.8°C between 1977 – 1997 (ABS 1999) and are predicted to increase by 0.3 – 1.3°C by 2030, and by 0.9 – 3.9°C by 2070 (McInnes et al. 2003). The annual average temperatures for the Adelaide region between 1977 - 1997 were 12.1 – 22.0°C and are predicted to increase by 0.3 – 1.2°C by 2030, and by 0.8 – 3.7°C by 2070, compared to the national averages of 0.4 – 2.0°C by 2030 and 1.0 – 6.0°C by 2070 (McInnes et al. 2003).

Table 1 Predicted temperature changes for the Adelaide region.

Season	1977-1997 (min-max°C)	2030 Predicted Increase (°C)	2070 Predicted Increase (°C)
Summer	15.2 - 29.1	0.3 - 1.2	0.8 - 3.7
Spring	11.4 - 26.8	0.3 - 1.3	0.9 - 3.9
Annual Average	12.1 - 22.0	0.3 - 1.2	0.8 - 3.7

1.2 PREDICTED RAINFALL CHANGES

Predicted rainfall changes (Table 1.4), are most severe for Summer and Spring. Mean Summer rainfall between 1979 – 1997 was 22 – 26 mm (ABS 1999) and this is predicted to decrease by -11 (drier periods) to +5% (wetter periods) by 2030, and -35 to +15% by 2070 (McInnes et al. 2003). Mean spring rainfall between 1979 and 1997 was 28 – 51 mm (ABS 1999) and is predicted to decrease by -17 to -2% by 2030, and by -55 to -4% by 2070 (McInnes et al. 2003). The annual average rainfall for the Adelaide region is predicted to decrease by -9 to -1% by 2030, and by -30 to -2% by 2070, compared to the regional average for the south-west of Australia of -20 to +5% by 2030 and -60 to +10% by 2070 (McInnes et al. 2003).

Table 2 Predicted rainfall changes for the Adelaide region.

Season	1977-1997 (mm)	2030 Predicted Increase (%)	2070 Predicted Increase (%)
Summer	22 - 26 mm	-11 + 5	-35 + 15
Spring	28 - 51 mm	-17 - 2	-55 - 4
Annual Average	585 mm	-9 - 1	-30 - 2

1.3 ALGORITHMS DESCRIBING THE PROBABILITY OF COASTAL MOSQUITO ABUNDANCE SPIKES IN NORTHERN ADELAIDE

1.3.1 Methods

Multivariate data analysis was employed to determine which environmental factors were significant determinants of *Ae. camptorhynchus* and *Ae. vigilax* abundance. Given that absolute abundance of coastal mosquitoes is known to be difficult to model accurately, we analysed the factors that were associated with spikes in abundance as determined from EVS trap collections using multiple logistic regression.

Before attempting this we wanted to reduce the number of factors used in the analysis so we performed stepwise negative binomial multiple regression (Intercooled Stata Ver 9.2 for Windows, StataCorp LP, College Station TX, USA) to examine the relationship between crude daily mosquito counts and a range of environmental variables. The choice of environmental variables was guided in part by personal observations of the Globe Derby Park environs, and previous attempts to model saltmarsh mosquito activity in other regions. Significant factors identified were used in subsequent logistic regressions. Temperature and rainfall data were obtained from the Australian Bureau of Meteorology for the nearest weather station (Edinburgh Air Force Base). Data used for tide height analysis were obtained for Outer Harbour from Flinders Ports.

Historic mean collections per trap per night of *Ae. camptorhynchus* and *Ae. vigilax* were calculated for the period 17 Nov 2000 to 25 Apr 2007 (n = 97 observations). The upper 95% confidence intervals for the two species were used as thresholds for population spikes. These thresholds were then applied to determine the onset and completion of mosquito abundance peaks through time. Abundance of each species was then converted to binomial data, with values above the threshold coded as '1', and values below coded as '0'.

Significant indicators determined from negative binomial regression were then used to create logistic models describing peaks in *Ae. camptorhynchus* and *Ae. vigilax* abundance. Binomial mosquito abundance data from the period 17 Nov 2000 to 26 Mar 2005 (n = 67 observations) were used. These data comprise the 'training set', with the remainder (n = 30 observations) used for validation. Multiple logistic regression (Intercooled Stata Ver 9.2) was used to create multinomial expressions

that could be potentially used to determine the onset or cessation of peak mosquito activity. These expressions take the form:

$$\log (P/[1-P]) = a + b_1x_1 + b_2x_2 + \dots + b_nx_n$$

in which P is the probability of a peak in mosquito abundance. Parameters with P > 0.10 significance were not included in the models.

The population 'spike' thresholds (historical upper CI95s) for *Ae. camptorhynchus* and *Ae. vigilax* were 122 per trap night and 70 per trap night respectively. After transforming abundance data for each species into binomial form, logistic regressions were then performed which revealed statistically significant (P < 0.10) factors determining saltmarsh mosquito abundance.

Significant determinants of *Ae. camptorhynchus* abundance were recent temperature, rainfall and current daylength. For *Ae. vigilax* these were recent temperature, current temperature and daylength. The logistic models that incorporate these variables explain 38% of variation in *Ae. camptorhynchus* abundance and 52% of variation in *Ae. vigilax* abundance.

1.3.2 Resultant algorithms

Aedes vigilax:

$$\log (P/[1-P]) = 0.269368 + \text{Maximum daily temp } (^{\circ}\text{C}) * 0.223475 + \text{Mean daily temp prev. 14 d} * 0.56446 + \text{daylight hours} * -1.57124$$

Aedes camptorhynchus:

$$\log (P/[1-P]) = -20.153 + \text{Mean daily temp prev. 14 d} * -0.84815 + \text{Mean daily temp prev. 7 d} * 0.594951 + \text{rainfall prev. 28 d} * 0.127609 + \text{rainfall prev. 14 d} * -0.085929 + \text{daylight hours} * 1.561743$$

2 January 2009

Job code: WAL.BLP.1

Principal Urban Planner
Walker Corporation Pty Ltd
Level 50, Governor Philip Tower
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Sydney NSW 200

Attention: Sally Lewis

Dear Sally,

**Buckland Park – Environmental Impact Statement
Implications of the mosquito control measures recommended for the Buckland
Park urban development project on the marine ecosystem.**

Drs Williams and Kokkinn suggest that it is difficult to control mosquitoes without having an impact on other animals particularly insects which in turn leads to impacts on higher order animals (fish, crabs, birds etc.). The most significant breeding grounds of mosquitoes in Buckland Park are the coastal intertidal areas and therefore are the likely targets of insecticide applications.

There are two pathways in which an insecticide can affect coastal and marine fauna (1) the reduction of food source since mosquitoes (particularly larvae) are a source of food for fish and (2) the introduction of potential toxic substances in the food chain.

The first pathway was considered to have a small to an undetectable impact on the marine fauna because no local marine species is thought to be wholly dependent on mosquitoes as a food source. The second pathway is more likely to have an unintended impact on marine species; the extent of this impact is dependent on the insecticide used, the frequency of usage and concentration reaching the marine environment.

We have reviewed available literature to investigate each substance proposed in the mosquito control measure recommended for Buckland Park by Drs Williams and Kokkinn, each insecticide will be discussed separately in the following:

Bacillus thuringiensis israelensis (Bti) is a mosquito larvicide (substances that kill the larval stage of insects) that is applied to water bodies (as a liquid, pellets or briquettes). It will kill most mosquito larvae within days of ingesting. Our literature review shows that Bti does not persist in the environment after application, although the solid form is more persistent. Generally, reports of activity after application show a decline in efficacy within days and little residual activity after several weeks.

In the literature reviewed we noted that over 40 tons of Bti were applied in West Africa, without any reports of safety or non-target concerns. The environmental threat posed by Bti would appear to be significantly less than that posed by most other forms of mosquito control which have a similar level of efficacy, T. R. Glare and M. O'Callaghan (1998). Personal observations in First Creek, Port Pirie noted a significant reduction in mosquitoes with no visible impact on non-target marine organisms.

Application of larvicide may involve extensive treatment. The recommended mosquito monitoring program will ensure that applications of larvicide are based on the risk of nuisance and disease evident at the time. As stated by Drs Williams and Kokkinn, the decision to spray extensively would be the subject of negotiation with coastal protection authorities.

Insect Growth Regulator (IGR) S-Methoprene can be used, formulated as pellets or briquettes, to prevent the pupation of mosquito larvae (Drs Williams and Kokkinn, 2008). Methoprenes are not harmful to birds or mammals, but can be "somewhat toxic to some fish and aquatic invertebrates" (US EPA, Fact sheet October 2008). Risk assessments by the US EPA show that concentrations of the active ingredient in aquatic environments, if the products are used according to label directions, should be well below the levels that are harmful in laboratory toxicity tests.

Extensive studies in New Zealand by Glare and O'Callaghan (1999) have shown that methoprene breaks down quickly in the environment and poses little hazard to humans. Methoprene was found to have little phytotoxicity and very low toxicity to mammals. However they found that methoprene is slightly toxic to coldwater fish and the examination of benthic communities (bottom dwelling animals) after application against mosquitoes had negative impacts on some organisms, however recovery after application was rapid.

Methoprene has longer residual activity than Bti, but is toxic to a greater range of species than Bti. However, the use of more than one agent during mosquito control is advisable, considering the risks of resistance developing and both methoprene and Bti should be considered (Glare and O'Callaghan, 1999)

Bifenthrin is a contact insecticide and one of the most popular pyrethroids used for home gardens. It is stable in light, has a long shelf life and has a residual effect. It is also effective in controlling ants, the number one problem insect for residential users. While this pesticide is highly toxic to fish and other aquatic organisms, it was originally thought that it would not pose a water quality problem because it is very insoluble in water and strongly binds to soil organic matter.

However, research conducted at the University of California Riverside and University of California Berkeley found that bifenthrin is carried on fine soil particles in surface runoff and is highly persistent in water bodies. This results in levels toxic to aquatic organisms.

Drs Williams and Kokkinn suggest that bifenthrin can be applied to vegetation or mesh barriers erected between the coastal salt marshes (larval habitat) and Buckland Park, but they caution that there remain concerns about their impacts on non-target insect species. However the strategic and monitored use of mosquito barriers may be important in controlling mosquitoes, given Buckland Park's proximity to the breeding grounds of the coastal mosquitoes *Aedes camptorhynchus* and *A. vigilax*.

Malathion is a broad-spectrum organophosphate (OP) insecticide first registered in 1956. It is used widely in agriculture and regional pest eradication programs. Risk assessments by the US EPA indicated some occupational handler and post-application, residential bystander, and ecological risks of concern. Occupational risks have been mitigated through personal protective equipment or engineering control requirements on the labels and extending re-entry intervals for some sites, and ecological risks have been addressed through adding buffer zone and spray drift requirements to the labels, and amending use patterns for many uses.

Drs Williams and Kokkinn suggested that the application of malathion to barrier vegetation has been demonstrated to provide control of coastal mosquitoes in the United States (Anderson et al. 1991). It was suggested that insecticide-treated barriers may consist of vegetation, or artificial structures such as fencing.

We endorse the research recommended by Drs Williams and Kokkinn:

- Impact on non-target species.
- Optimal configuration for physical deployment (mesh screens, vegetation barriers special plantings).
- Comparison of ecological impact with coastal insecticide application.
- Impact on nuisance and disease-vector mosquitoes.
- Costs relative to broadcast insecticidal applications.

We recommend using an integrated approach to pest management by;

- protecting species that feed on mosquitoes at all growth stages,
- applying pesticide only as recommended by the manufacturers,
- limiting the use of pesticides to only the affected area,
- strategically applying insecticides during the breeding season,
- ensuring that insecticides are not applied to impervious surfaces, like concrete, where it is easily washed into surface runoff,
- encouraging residents to use mosquito screens to windows and doors,
- educating residents about limiting opportunities for mosquito breeding grounds close to residential areas.

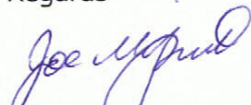
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Regards



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COOE (care of our environment)