

GTE549-Stage 1 Contamination  
7 May 2015

**LOGOS PROPERTY**  
Suite 1202, Level 12  
167 Macquarie Street,  
Sydney NSW 2000

**Attention:** Stephen Charnock  
E-mail: [stephencharnock@logosproperty.com](mailto:stephencharnock@logosproperty.com)

Dear Sir,

**RE: STAGE 1 CONTAMINATION ASSESSMENT at 34 Yarrunga Street, Prestons.**

This letter presents a Stage 1 Contamination report on the inspection and testing services associated with the contamination assessment undertaken at the above project.

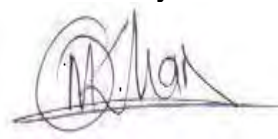
Should you have any questions related to this report please do not hesitate to contact the undersigned.

For and on behalf of  
**Ground Technologies Pty Ltd**



**A. Bennett**  
*Senior Geotechnical Engineer*

**Reviewed By**



**M. Khan AMIEAust**  
*Principal Engineering Officer  
(Geotechnical)*

## TABLE OF CONTENTS

Description	Page
<b>Table of Contents</b>	<b>2</b>
<b>Executive Summary</b>	<b>3</b>
<b>1.0 Introduction</b>	<b>4</b>
<b>2.0 Scope of Work</b>	<b>4</b>
<b>3.0 Site Description</b>	<b>4</b>
<b>4.0 Site History</b>	<b>7</b>
4.1 Land Use: Previous, Past and Proposed	7
4.2 Aerial Photographs	7
4.3 Search of Contaminated Land Management Records (NSW EPA)	10
4.4 Search of the Protection of the Environment Operations (POEO) Public Register of Licensed and Delicensed Premises	10
<b>5.0 Site Condition and Surrounding Environment</b>	<b>10</b>
<b>6.0 Site Geology, Topography and Hydrogeology</b>	<b>11</b>
6.1 Existing Site Filling	12
<b>7.0 Summary of Potential Sources of Contamination</b>	<b>12</b>
<b>8.0 Sampling and Analysis Plan and Sampling Methodology</b>	<b>12</b>
<b>9.0 Laboratory Quality Assessment and Quality Control</b>	<b>13</b>
9.1 Laboratory Accreditation	13
9.2 Sample Holding Times	13
9.3 Analytical Methods Used and Practical Quantitation Limits	13
9.4 Laboratory Blank Results	13
9.5 Laboratory Control Standards	13
<b>10.0 Basis for Assessment Criteria</b>	<b>14</b>
<b>11.0 Results</b>	<b>15</b>
11.1 Heavy Metals	15
11.2 Organochlorine Pesticides (OCP) and Organophosphosphate Pesticides (OPP)	15
<b>12.0 Conclusions and Recommendations</b>	<b>16</b>

### References

### Appendices

Appendix A – Aerial Photographs

Appendix B – Borehole Logs

Appendix C – Search results of EPA Contaminated Land Register

Appendix D – Search of POEO register of licensed and delicensed premises

Appendix E – Laboratory Test Certificates

Appendix F – Correspondance from Liverpool Council

## EXECUTIVE SUMMARY

This executive summary presents a synopsis of the Stage 1 Contamination Report for the site; No.34 Yarunga Street, Prestons. It is understood that the site is to be re-developed for industrial use.

The objective of the Stage 1 Contamination Report was to ascertain whether the site presents a risk to human health and/or the environment arising from any past/present activities at the site or neighbouring properties. Limited laboratory testing was undertaken to re-inforce the results of the desktop study. The conclusions of this Contamination Report are as follows:

- The site was used previously for a residential dwelling and market gardening / light agriculture.
- A review of aerial photography suggests that the neighbouring properties are rural / residential and not considered to have posed a risk for potential contamination to the site.
- A search of the NSW EPA Contaminated Land Management record of notices revealed that there were no notices issued to the subject site. No history of dangerous manufacturing utilizing heavy chemicals or metals was documented.
- According to the interpretation of the sub-surface soil profile for this site, clay soils are present beneath the site. This material would provide a relatively impermeable layer and prevent the migration of any contamination into deeper soils or groundwater.
- No industrial facilities undertaking heavy manufacturing are located within 500m of the subject site. The surrounding sites are residential / warehousing. Therefore the risk of contamination migration caused by surface run-off from adjoining sites is minimal.
- Filling was observed within the south-eastern corner of the site for the re-alignment of a drainage channel. Correspondence from council indicates that no fill was imported and the material was sourced from within the subject site.

A limited sampling and analysis program was undertaken in order to assess the nature, location and likely distribution of any contamination present at the subject site, and also any potential risk posed to human health or the environment. Test results were compared to the relevant assessment criteria, Hils D, and were well below the assessment criteria and as such, indicate a low risk of contamination throughout the site.

This report is a Stage 1 Contamination Assessment with limited chemical testing undertaken. Market gardening was observed within the desktop study. Preliminary testing indicates that the risk of contamination is low, however in accordance "Guidelines for Assessing Former Orchards and Market Gardens" Department of Environment and Conservation (NSW), it is recommended that these areas of environmental concern be further investigated for the development application process and any contaminants found be appropriately treated under a site management plan during construction.

## 1.0 INTRODUCTION

Ground Technologies Pty Ltd have undertaken a Stage 1 Contamination Report with limited testing and analysis as requested by Stephen Charnock of Logos Property at No.34 Yarunga Street, Prestons. It is understood that the site is to be re-developed as a commercial subdivision.

## 2.0 SCOPE OF WORK

The following scope of work was conducted:

- Desktop Study of the following to assist in identification of potential contamination issues:
  - Data from Environment Protection Authority
    - Scheduled premises
    - Section 35 notices
    - Unhealthy building land sites
    - Sites which are likely contaminated and not contaminated
  - Historical and current aerial photographs
  - Data from the Protection of the Environment Operations Public Register (POEO)
- Review of soils and geological maps.
- Review of councils development application records
- Site Inspection by a Geotechnical Engineer to ascertain current activities, and any visible signs of contamination.
- Collection of soil samples by a Geotechnical Engineer according to a sampling plan.
- Chemical analysis by a NATA accredited laboratory.
- Assessment of the results of the chemical analysis against the appropriate guidelines.
- Preparation of the Stage 1 Contamination Report.

## 3.0 SITE DESCRIPTION

The following information, presented in Table 1, describes the site.

**Table 1: Summary of Site Details**

<b>Site Address</b>	34 Yarunga Street, Prestons
<b>Lot &amp; Plan No.</b>	Lot 33, 34, 35, 43 DP2359 Lot 20 DP 117483
<b>Council Area</b>	Liverpool City Council

The subject property is irregular in shape, measuring approximately 625m wide along the Yarunga Street frontage, and 305m deep along the Bernera Road frontage.

**Figure 1 – Location of Site**



The subject property covers an area of approximately 20.7ha, with the majority of it vacant and grass covered. A high point is located within lot 34, behind the metal shed, with groundslopes falling away from this point in all directions by grades of up to 3° to 7°.

Lot 33 and 35 are grass covered and vacant. High voltage power lines traverse through the site in a north / south alignment.

**Photograph 1 – Lot 33**



Lot 34 contains a single storey residential house, a metal shed and equipment for loading cattle onto trucks within the northern (front) portion of the lots.

**Photograph 2 – House on Lot 33**



**Photograph 3 – Shed on Lot 33**





**Photograph 4 – Cattle Loading Equipment on Lot 33**



Lot 43 contains a metal shed located centrally within the lot

**Photograph 5 – Metal Shed on Lot 43**



Lot 20 of DP1173483 is predominately vacant. An old drainage line has been re-aligned within this site with a new culvert placed under Kurrajong Road.

**Photograph 6 – Fill area within Lot 20**



## 4.0 SITE HISTORY

In order to ascertain the site history, a documentary review of past and present land use at the subject site and the surrounding area has been undertaken as follows:

### 4.1 Land Use: Previous, Present and Proposed:

The site is currently being used for residential purposes. Anecdotal evidence suggests that the Prestons area was significantly utilized for market gardening / farming.

Liverpool City Council has two (2) Development Approvals for the subject Site;

1993 – The erection 15 Igloo Greenhouses

1993 – The erection 12 Igloo Greenhouses

### 4.2 Aerial Photographs:

A review of Historical Aerial Photographs was undertaken in order to provide a greater insight into the site history. A full set of aerial photographs is available within Appendix A

1947 – In 1947 the site is predominately vacant and covered in a light scattering of trees. A residential homestead has been constructed within the centre portion of the site. Adjoining sites are predominately vacant whilst the region appears to be rural / farming properties. No industrial or manufacturing plants could be identified within the aerial photograph. The subject site is highlighted in figure 2.

**Figure 2 – Aerial Photograph from 1947**



1970 – In 1970 the site is predominately vacant and covered in a light scattering of trees. The residential house within the centre of the site is still standing. Market Gardening appears to have been undertaken within the south-western portion of the site. No industrial or manufacturing plants could be identified within the aerial photograph. The subject site is highlighted in figure 3.

**Figure 3 – Aerial Photograph from 1970**



1982 – In 1982 the site is predominately vacant and covered in trees. The residential house within the centre of the site is still standing. Market Gardening appears to have been undertaken within the south-western portion of the site. No industrial or manufacturing plants could be identified within the aerial photograph. The subject site is highlighted in figure 4.

**Figure 4 – Aerial Photograph from 1982**



1994 – In 1994 the the original homestead, which was destroyed by fire, has been replaced by a new residential house and shed which have been constructed along the Yarunga Street frontage. The market gardening appears to have ceased and has been replaced by the green houses. No industrial or manufacturing plants could be identified within the aerial photograph. The subject site is highlighted in figure 5.

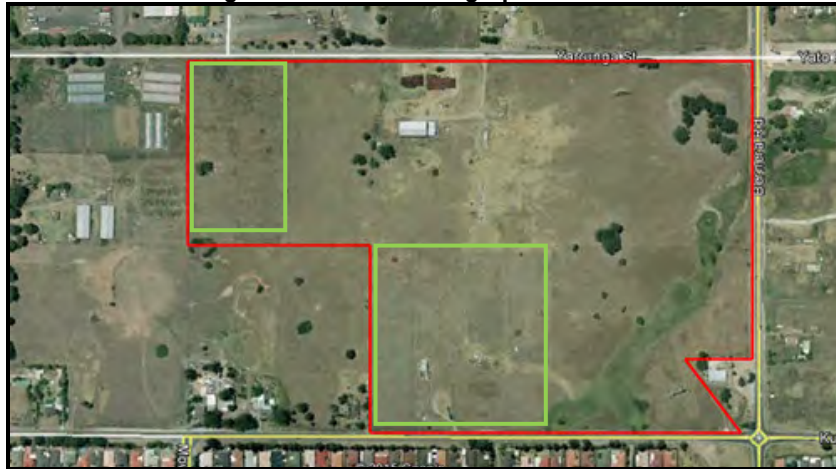
**Figure 5 – Aerial Photograph from 1994**





2006 – In 2006 the residential house and shed along the Yarunga Street frontage is still standing. The green houses have been removed. The remnants of market gardening can be observed within the western and south-western corners of the site. Industrial or manufacturing plants have started to be constructed within the region and new residential subdivisions have been constructed to the south of the site. The subject site is highlighted in figure 6.

**Figure 5 – Aerial Photograph from 2006**



2012 – In 2012 no significant changes to the land usage were observed from 2006, The subject site is highlighted in figure 7.

**Figure 7 – Aerial Photograph from 2012**



2015 – In 2015 no significant changes to the land usage were observed from 2006, however, the natural water course within the south-eastern corner of the site has been re-aligned and the previous channel has been backfilled. The location channel re-alignment is highlighted in figure 8.

**Figure 8 – Aerial Photograph from 2015**



#### 4.3 Search of Contaminated Land Management Register (NSW EPA):

A summary of the search of the NSW EPA Contaminated Land Management record of notices for the Liverpool City Council Area can be found in Appendix C. No notices have been issued to the subject site. Two (2) sites are listed on this register however they are situated at such a distance (greater than 200m) so as not to pose a potential contamination risk to the subject property.

#### 4.4 Search of Protection of the Environment Operations Public Register (POEO) of Licensed and Delicensed Premises:

A search of the POEO public register of licensed and delicensed premises (DECC) provided the details of 28 premises in the Liverpool City Council area (see appendix D), however no licensed or delicensed premises were located within the immediate surrounding area of the site (within 200m).

#### 5.0 SITE CONDITION AND SURROUNDING ENVIRONMENT

A detailed walk-over of the site was conducted on 8<sup>th</sup> of April 2015. The field observations are summarised in the table below:

**Table 2 – Summary of Field Observations**

Parameter	Observation
Visible observations on soil contamination	No visible evidence of contamination was observed. No staining of the soils or odours were documented.
Signs of plant stress	None observed.
Presence of drums, fill or waste materials	No visible indicators of underground fuel tanks (bowzers or venting pipes).
Presence of fill	Filling was observed at the location of the channel re-alignment (see figure 7).
Quality of surface waters	No ponding was present.
Flood potential	None observed
Relevant sensitive environments	Cabramatta Creek is located approximately 200m to the west of the subject site

## 6.0 SITE GEOLOGY AND HYDROGEOLOGY

The 1:100,000 scale Geological Series Map of the Penrith region indicates that the subject site is underlain by Bringelly Shale of the Wianamatta Group dating back to the Middle Triassic period and generally comprises *shale, carbonaceous claystone, claystone, laminate, fine to medium grained lithic sandstone, and rare coal / tuff.*

Initial fieldwork was undertaken on the 11<sup>th</sup> of November 2014 and included one deep borehole (TS1) and eleven shallow boreholes (TS2-12) using a truck mount solid flight auger drill rig at locations shown on Figure 9.

**Figure 9 – Borehole Locations**



Eight (8) distinct geological units were encountered during the field investigation. These units are detailed in table 3 and the depth of each unit is detailed in table 4. Full Borehole Logs are attached in Appendix B.

**Table 3 – Summary of Geological Units**

UNIT	SOIL TYPE
UNIT A	TOPDRESSING: Very Silty Clay Filling, grey/brown, brown
UNIT B	FILLING: Admixed Silty Gravelly Clay, brown, grey/brown, pale grey, orange/brown
UNIT C	NATURAL: Clayey SILT (topsoil), dark brown
UNIT D	NATURAL: Silty CLAY, medium plasticity, orange/brown, very stiff to hard
UNIT E	BEDROCK: SILTSTONE, completely weathered, very low strength, pale grey
UNIT F	BEDROCK: SILTSTONE / SHALE, extremely weathered, very low to low strength, grey/brown
UNIT G	BEDROCK: SHALE, extremely weathered, low strength, grey to grey/brown
UNIT H	BEDROCK: SHALE, moderately weathered, low to medium strength, dark grey

**Table 4 – Depth of each Geological Unit**

Borehole	Geological Unit							
	Unit A	Unit B	Unit C	Unit D	Unit E	Unit F	Unit G	Unit H
TS1	-	-	0-0.1m	0.1-0.8m	0.8-1.1m	1.1-3.8m	3.8-7.5m	7.5-9.0m
TS2	-	-	0-0.25m	0.25-1.0m	-	-	-	-
TS3	-	-	0-0.27m	0.15-0.8m	-	-	-	-
TS4	-	-	0-0.15m	0.15-0.7m	-	-	-	-
TS5	0-0.05m	0.05-0.8m	-	-	-	-	-	-
TS6	0-0.45m	0.45-0.7m	0.7-0.9m	-	-	-	-	-
TS7	-	-	0-0.12m	0.12-0.6m	-	-	-	-
TS8	-	-	0-0.24m	0.24-0.6m	-	-	-	-
TS9	-	-	0-0.2m	0.2-0.6m	-	-	-	-
TS10	-	-	0-0.2m	0.2-0.6m	-	-	-	-
TS11	-	-	0-0.2m	0.2-0.6m	-	-	-	-
TS12	-	-	0-0.2m	0.2-0.6m	-	-	-	-

No groundwater was encountered during the course of the investigation.

## 6.1 Site Filling

Filling was observed within the south-eastern corner of the site for the re-alignment of a drainage channel (see figure 10). Correspondence from council indicates that no fill was imported and the material was sourced from within the subject site (See Appendix F).

## 7.0 SUMMARY OF POTENTIAL SOURCES OF CONTAMINATION

A search of the NSW EPA Contaminated Land Management record of notices revealed that there were no notices issued to the subject site. No history of dangerous manufacturing utilizing heavy chemicals or metals was documented. No history of heavy chemicals or metals storage was documented. No industrial facilities undertaking heavy manufacturing are located within 500m of the subject site. The surrounding sites are residential / warehousing. Therefore, the risk of contamination migration caused by surface run-off from adjoining sites is minimal. The neighbouring properties are rural residential and not considered to have posed a risk for potential contamination to the site.

According to the interpretation of the sub-surface soil profile for this site, clay soils are present beneath the site. This material would provide a relatively impermeable layer and prevent the migration of any contamination into deeper soils or groundwater.

The subject site appears to have been used for significant market gardening. A review of aerial photography supports this assumption. With reference to "Contaminated Sites – Guidelines for Assessing Former Orchards and Market Gardens. Department of Environment and Conservation (NSW) 2005", the contaminants of concern within site used for market gardening are Metals (Arsenic, Copper, Lead) and Organochlorine Pesticides (OCP).

**Figure 10 – Location of Market Gardening and Filling**



## 8.0 SAMPLING & ANALYSIS PLAN AND SAMPLING METHODOLOGY

A limited sampling and analysis program was undertaken in order to assess the nature, location and likely distribution of any contamination present at the subject site, and also any potential risk posed to human health or the environment. Test results were compared to the relevant assessment criteria (see Section 10.0). Three (3) samples were recovered from within the site concentrating in the market garden areas.

Each sample location was excavated utilizing a truck mount drill rig to a depth of 0.2m (TS2, TS4 & TS8). The samples were collected from the auger using a stainless steel trowel, which had been decontaminated prior to use to prevent cross contamination occurring. Three (3) samples were extracted from the natural clayey silt material encountered.

The samples were placed in 250g laboratory prepared glass jars which were capped using Teflon-sealed screw caps and then placed in a chilled container. The sample jars were transported to our Hoxton Park office and placed in a



refrigerator. The following day the samples were forwarded to ALS Pty Ltd (ALS) for analysis along with a Chain of Custody which was subsequently returned to confirm the receipt of all samples.

## 9.0 LABORATORY QUALITY ASSESSMENT AND QUALITY CONTROL

### 9.1 Laboratory Accreditation

ALS are accredited by the National Association of Testing Authorities (NATA) for the analyses carried out and are also accredited for compliance with ISO/IEC 17025.

### 9.2 Sample Holding Times

The holding times for samples at ALS are presented in the table below, along with the allowable holding time, detailed in Schedule B (3) of the National Environment Protection (Assessment of Site Contamination) Measure (NEPM, 1999):

**Table 5 – Sample Holding Times**

Laboratory	Analyte	Date Sampled	Date Received	Date of Extraction/ Analysis	Holding Time	Allowable Holding Time
ALS	Metals	8/4/2015	8/4/2015	13/4/2015	5 days	6 months*
	Pesticides	8/4/2015	8/4/2015	14/4/2015	5 days	14 days

Note (\*) Metals excludes Mercury which has a holding time of 28 days.

### 9.3 Analytical Methods Used and Practical Quantitation Limits

The analytical methods and practical quantitation limits (PQL)/level of reporting (LOR) used by ALS are indicated on the test certificates located in Appendix E.

### 9.4 Laboratory Blank Results

During each analytical method reagents are carried through the preparation / extraction / digestion procedure. A reagent blank is prepared and analysed with every batch of samples plus with each new batch of solvent prior to use to ensure that there are no interferences with the test results.

Blank samples were analysed by ALS for metals and pesticides. The reported blank concentrations were below the relevant PQL/LOR.

### 9.5 Laboratory Control Standards

A known matrix spiked with compound(s) representative of the target analytes is used to document the laboratories performance. This is known as the Laboratory Control Standard (LCS). The LCS is analysed with the sample batch and the resultant concentrations reported as a percentage recovery of the expected concentration.

At ALS, the LCS was analysed for the same suite of analytes as the submitted samples (heavy metals, OCP and OPP) and the results are summarised in the table 4 below:

**Table 6 – Quality Control Spikes Summary**

Laboratory	Analyte	Percentage Recovery (%)	Acceptance Criteria	Comments
ALS	Metals	99-117%	70-130%	Achieved
	Pesticides	71-108%	60-140%	Achieved

The results from the LCS analysis met the acceptance criteria.

## 10.0 BASIS FOR ASSESMENT CRITERIA

The Assessment criteria used in this investigation have been obtained from the National Environment Protection (Assessment of Site Contamination) Measure (NEPM, 2013). This document presents risk-based Health Investigation Levels based on a variety of exposure settings for a number of organic and inorganic contaminants. To assess the risk to human health the results of the laboratory analysis are compared against the Health Investigation Levels (HIL) for the exposure setting; 'Commercial / Industrial' ('D').

The selected assessment criteria used in this assessment are summarized on table 7 below:

**Table 7 – Site Assessment Criteria**

<b>Contaminant</b>	<b>Health Based Investigation Level (HIL 'D')</b>
<b>Arsenic (total)</b>	3,000
<b>Cadmium</b>	900
<b>Chromium</b>	3,600
<b>Copper</b>	240,000
<b>Lead</b>	1,500
<b>Mercury</b>	730
<b>Nickel</b>	6,000
<b>Zinc</b>	400,000
<b>Aldrin + Dieldrin</b>	45
<b>Chlordane</b>	530
<b>Endosulfan</b>	2,000
<b>Endrin</b>	100
<b>Heptachlor</b>	50
<b>Methoxychlor</b>	2,500
<b>DDD+DDE+DDT</b>	3,600

## 11.0 RESULTS

### 11.1 Laboratory Test Results – Heavy Metals

Test results are tabulated and presented below (Tables 8) along with the relevant assessment criteria. Laboratory test certificates are located in Appendix E.

**Table 8: Heavy Metal Test Results**

Location	Sample No.	Depth (m)	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Zinc
TS2	E1	0.2m	15	<1	15	24	50	<0.1	8	181
TS4	E2	0.2m	8	<1	17	36	21	<0.1	19	52
TS8	E3	0.2m	8	<1	20	30	28	<0.1	13	52
<b>NEPM Health Investigation Level HILs</b>			<b>3000</b>	<b>900</b>	<b>3600</b>	<b>240000</b>	<b>1500</b>	<b>730</b>	<b>6000</b>	<b>400000</b>

Heavy metal concentrations for Arsenic, Cadmium, Chromium, Copper, Lead, Mercury, Nickel and Zinc are presented in Table 8. The concentrations of all metals were well below the relevant assessment criteria (HILs D). Preliminary testing indicates that there is a low risk that the heavy metal concentrations present in the soil profile are likely to pose a risk to human health or the environment under a 'Commercial / Industrial' setting.

### 11.2 Laboratory Test Results – Pesticides

Test results are tabulated and presented below (Tables 9) along with the relevant assessment criteria. Laboratory test certificates are located in Appendix E.

**Table 9: Pesticides and PCB's**

Location	Sample No.	Depth (m)	Aldrin + Dieldrin	Chlordane	Endosulfan	Endrin	Heptachlor	Mothoxychlor	DDD+DDE+DDT
TS2	E1	0.2m	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05
TS4	E2	0.2m	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05
TS8	E3	0.2m	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05
<b>NEPM Health Investigation Level HILs</b>			<b>45</b>	<b>530</b>	<b>2000</b>	<b>100</b>	<b>50</b>	<b>2500</b>	<b>3600</b>

The Organochlorine Pesticides concentrations, presented in Table 9, were below the relevant assessment criteria (HILs D). Preliminary testing indicates that there is a low risk that Organochlorine Pesticide concentrations present in the soil profile likely to pose a risk to human health or the environment under a 'Commercial / Industrial' setting.

## 12.0 CONCLUSIONS AND RECOMMENDATIONS

The conclusions of this Contamination Report are as follows:

- The site was used previously for a residential dwelling and market gardening / light agriculture.
- A review of aerial photography suggests that the neighbouring properties are rural / residential and not considered to have posed a risk for potential contamination to the site.
- A search of the NSW EPA Contaminated Land Management record of notices revealed that there were no notices issued to the subject site. No history of dangerous manufacturing utilizing heavy chemicals or metals was documented.
- According to the interpretation of the sub-surface soil profile for this site, clay soils are present beneath the site. This material would provide a relatively impermeable layer and prevent the migration of any contamination into deeper soils or groundwater.
- No industrial facilities undertaking heavy manufacturing are located within 500m of the subject site. The surrounding sites are residential / warehousing. Therefore the risk of contamination migration caused by surface run-off from adjoining sites is minimal.

A limited sampling and analysis program was undertaken in order to assess the nature, location and likely distribution of any contamination present at the subject site, and also any potential risk posed to human health or the environment. Test results were compared to the relevant assessment criteria, Hils D, and were well below the assessment criteria and as such, indicate a low risk of contamination throughout the site.

This report is a Stage 1 Contamination Assessment with limited chemical testing undertaken. Market gardening was observed within the desktop study, and filling of an unknown origin was identified. Preliminary testing indicates that the risk of contamination is low, however in accordance "Guidelines for Assessing Former Orchards and Market Gardens" Department of Environment and Conservation (NSW), it is recommended that these areas of environmental concern be further investigated for the development application process and any contaminants found be appropriately treated under a site management plan during construction.

**Figure 11 – Areas of Environmental Concern**





## REFERENCES:

Contaminated Sites – Guidelines for Assessing Former Orchards and Market Gardens. Department of Environment and Conservation (NSW) 2005.

Contaminated Sites – Guidelines for Assessing Service Stations. NSW Environment Protection Authority (EPA) 1994

Contaminated Sites – Guidelines for Consultants Reporting on Contaminated Sites. NSW Environment Protection Authority (EPA) 2000.

Contaminated Sites – Sampling Design Guidelines. NSW Environment Protection Authority (EPA) 1995

Geology of Wollongong – Port Hacking 1:100000 Geological Series Sheet 9029-9199, 1<sup>st</sup> Edition. Geological Survey of NSW Department of Minerals and Energy 1985.

Managing Land Contamination: Planning Guidelines SEPP55 – Remediation of Land - Department of Urban Affairs and Planning and Environment Protection Authority (DUAP and EPA) 1998.

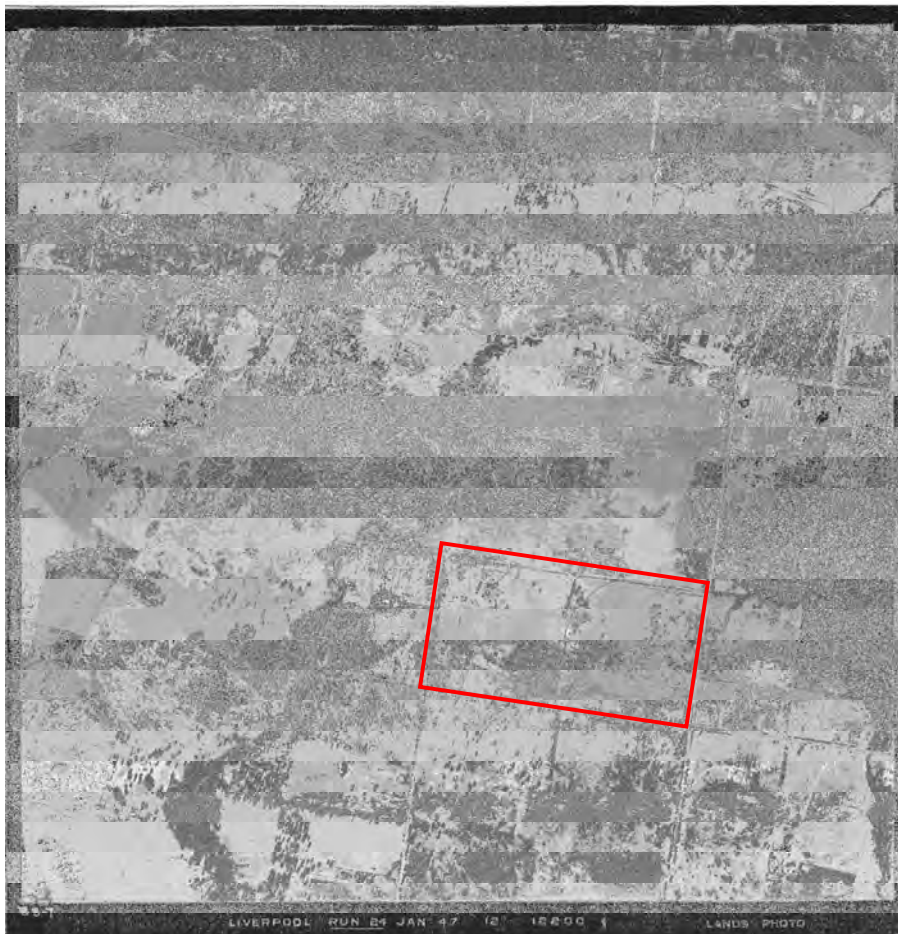
National Environment Protection (Assessment of Site Contamination) Measure – National Environmental Protection Council 1999.

## **APPENDIX A**

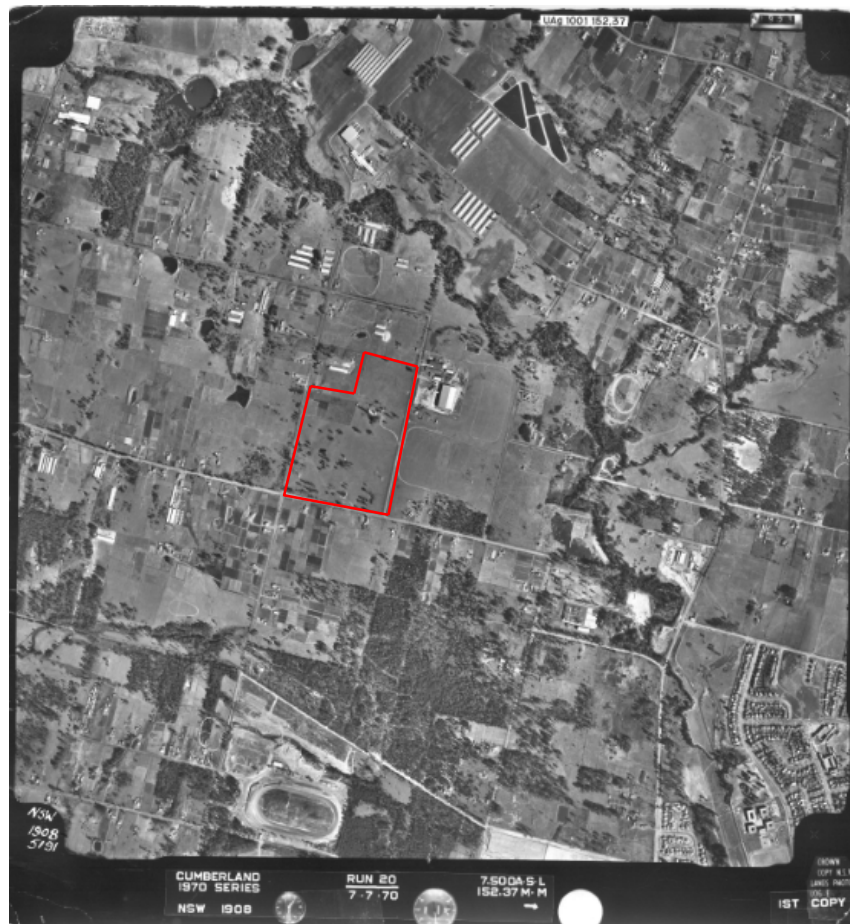
---

### **AERIAL PHOTOGRAPHS**

## Aerial Photograph - 1947



## Aerial Photograph - 1970





## Aerial Photograph - 1982



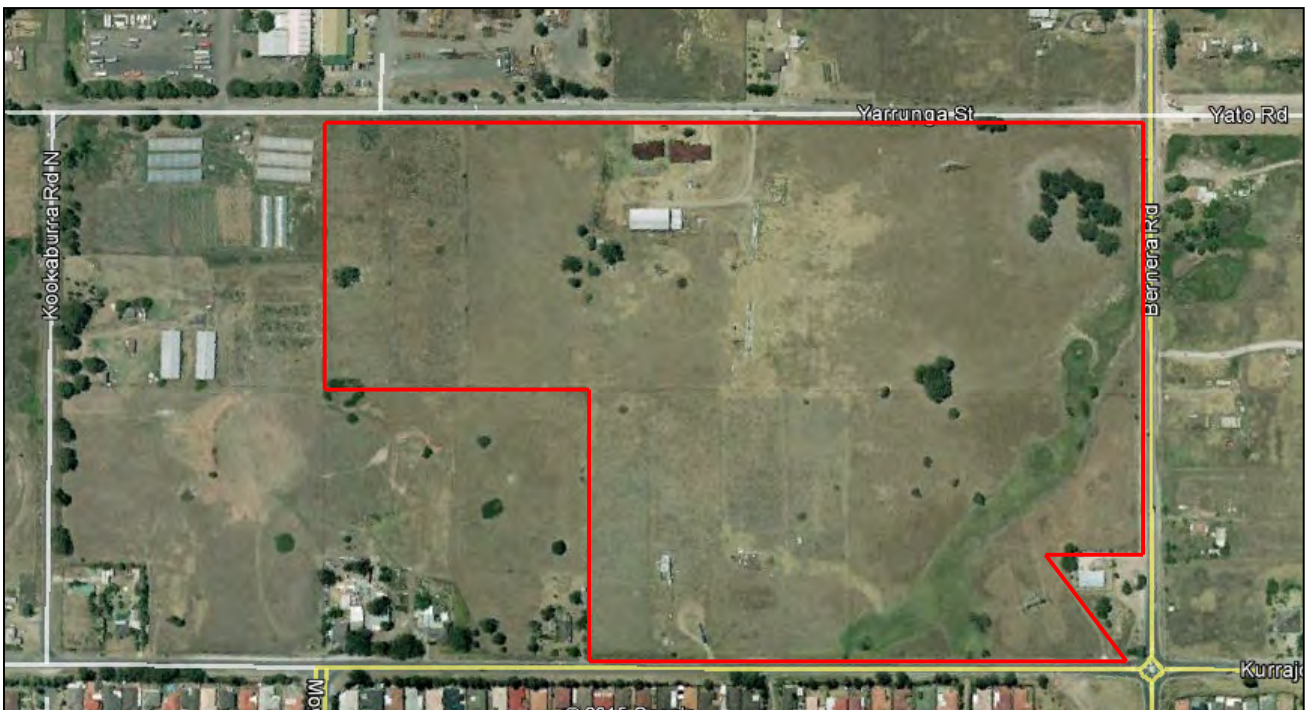


## Aerial Photograph - 1994





## Aerial Photograph - 2006





## Aerial Photograph - 2014





## **APPENDIX B**

---

### **BOREHOLE LOGS**

## BOREHOLE LOG REPORT

**GROUND  
TECHNOLOGIES**

Ground Technologies Pty Ltd  
ABN 25 089 213 294  
PO Box 1121 Green Valley NSW 2168  
Ph: (02) 8783 8200  
Fax: (02) 8783 8210  
Email: lab@groundtech.com.au





**Job No.** GTE458  
**Hole ID.** BH 01  
**Hole Depth:** 9.00 m  
**Sheet:** 1 of 2

**Project Name:** PROPOSED INDUSTRIAL SUB-DIVISION  
**Location / Site:** 34 Yarrunga Road, Prestons

**Start Date:** 10/11/2014

**Client:** AWJ Civil Pty Ltd  
**Drill Method:** Solid Flight Auger  
**Equipment:** Toyota Landcruiser Mounted 4WD Rig

**Easting :** -  
**Northing :** -  
**Ground Level :** approx. RL 50.0m

WATER	DEPTH (m)	USCS Symbol	GRAPHIC LOG	SOIL DESCRIPTION (SOIL TYPE, COLOUR, MOISTURE, CONSISTENCY)	REMARKS
				Start Surface: Grassed	
	0.5	TOPSOIL CI		Clayey SILT; low plasticity, dark brown, moist, firm. Silty CLAY; with minor ironstone gravel, medium plasticity, orange brown, moist, very stiff to hard	
	1	BEDROCK		SILTSTONE; completely weathered, pale brown mottled pale grey, dry, very low strength	
	1.5	BEDROCK		SILTSTONE/SHALE with interbedded SANDSTONE lenses; extremely weathered, fine to medium grained, grey - brown to brown, dry, very low to low strength	assessed as generally easy to excavate using mid-sized excavator with toothed digging bucket
	2				
	2.5				
	3				
	3.5				
	4	BEDROCK		SHALE; extremely weathered, highly fractured, grey to grey brown, dry, low strength	assessed as can be excavated using mid-sized excavator with toothed digging bucket with difficulty. Ripper attachment will required. easily rippable with dozer
	4.5			Continued over page on Sheet 2.....	

Logged by: M. Elmir

Date: 10/11/14

Checked By: M. Elmir Date: 10/11/14

## BOREHOLE LOG REPORT

**GROUND  
TECHNOLOGIES**

Ground Technologies Pty Ltd  
ABN 25 089 213 294  
PO Box 1121 Green Valley NSW 2168  
Ph: (02) 8783 8200  
Fax: (02) 8783 8210  
Email: lab@groundtech.com.au

**Job No.** GTE458  
**Hole ID.** BH 01  
Hole Depth: 9.00 m  
Sheet: 2 of 2

**Project Name:** PROPOSED INDUSTRIAL SUB-DIVISION  
**Location / Site:** 34 Yarrunga Road, Prestons

**Start Date:** 10/11/2014

**Client:** AWJ Civil Pty Ltd  
**Drill Method:** Solid Flight Auger  
**Equipment:** Toyota Landcruiser Mounted 4WD Rig

**Easting :** -  
**Northing :** -  
**Ground Level :** approx. RL 50.0m

WATER	DEPTH (m)	USCS Symbol	GRAPHIC LOG	SOIL DESCRIPTION (SOIL TYPE, COLOUR, MOISTURE, CONSISTENCY)	REMARKS
				Start Surface: Grassed	
				<i>continued from previous page - Sheet 1.....</i>	
	5			SHALE; extremely weathered, highly fractured, grey to grey brown, dry, low strength	assessed as can be excavated using mid-sized excavator with toothed digging bucket with difficulty. Ripper attachment will required. easily rippable with dozer
	5.5				
	6				
	6.5				
	7				
	7.5	BEDROCK		SHALE; moderately weathered, slightly fractured, dark grey, dry, low to medium strength	assessed as difficult to excavate using excavator and ripper attachment. Rock hammers required. rippable with D8 Dozer
	8				
	8.5				
	9			BOREHOLE TERMINATED AT 9.0m BEGL	

Logged by: M. Elmir

Date: 10/11/14

Checked By: M. Elmir Date: 10/11/14

# TOPSOIL LOG REPORT

**GROUND  
TECHNOLOGIES**

Ground Technologies Pty Ltd  
ABN 25 089 213 294  
PO Box 1121 Green Valley NSW 2168  
Ph: (02) 8783 8200  
Fax: (02) 8783 8210  
Email: lab@groundtech.com.au

Job No. **GTE458**

Sheet: 1 of 1

Project Name: **PROPOSED INDUSTRIAL SUB-DIVISION**

Start Date: **10/11/2014**

Location / Site: **34 Yarrunga Road, Prestons**

Client: **AWJ Civil Pty Ltd**

Easting : -

Drill Method: **Solid Flight Auger**

Northing : -

Equipment: **Toyota Landcruiser Mounted 4WD Rig**

Ground Level : **EXISTING**

BOREHOLE	DEPTH	DISCRIPTION
2	<b>0 - 0.25m</b> 0.25 - 1.00m	<b>TOPSOIL: Clayey SILT, Dark Brown</b> NATURAL: Silty CLAY, medium plasticity,orange brown
3	<b>0 - 0.27m</b> 0.27 - 0.80m	<b>TOPSOIL: Clayey SILT, Dark Brown</b> NATURAL: Silty CLAY, medium plasticity,orange brown
4	<b>0 - 0.15m</b> 0.15 - 0.70m	<b>TOPSOIL: Clayey SILT, Dark Brown</b> NATURAL: Silty CLAY, medium plasticity,orange brown
5	<b>0 - 0.05m</b> 0.05 - 0.80m	<b>TOP DRESSING: very Silty Clay Filling, grey brown - brown</b> FILLING: Admixed Silty Gravelly Clay, grey brown/pale grey/orange brown
6	<b>0 - 0.45m</b> 0.45 - 0.70m 0.70 - 0.90m	<b>TOP DRESSING: very Silty Clay/Clayey Silt Filling, dark brown</b> FILLING: Admixed Silty Clay with some Gravel, brown NATURAL: Silty CLAY, medium plasticity,orange brown
7	<b>0 - 0.12m</b> 0.12 - 0.60m	<b>TOPSOIL: Clayey SILT, Dark Brown</b> NATURAL: Silty CLAY, medium plasticity,orange brown
8	<b>0 - 0.24m</b> 0.24 - 0.60m	<b>TOPSOIL: Clayey SILT, Dark Brown</b> NATURAL: Silty CLAY, medium plasticity,orange brown
9	<b>0 - 0.20m</b> 0.20 - 0.60m	<b>TOPSOIL: Clayey SILT, Dark Brown</b> NATURAL: Silty CLAY, medium plasticity,orange brown
10	<b>0 - 0.20m</b> 0.20 - 0.60m	<b>TOPSOIL: Clayey SILT, Dark Brown</b> NATURAL: Silty CLAY, medium plasticity,orange brown
11	<b>0 - 0.20m</b> 0.20 - 0.60m	<b>TOPSOIL: Clayey SILT, Dark Brown</b> NATURAL: Silty CLAY, medium plasticity,orange brown
12	<b>0 - 0.20m</b> 0.20 - 0.60m	<b>TOPSOIL: Clayey SILT, Dark Brown</b> NATURAL: Silty CLAY, medium plasticity,orange brown

Logged by: **M. Elmir** Date: **10/11/14**

Checked By: **M. Elmir** Date: **10/11/14**

## **APPENDIX C**

---

### **SEARCH RESULTS OF EPA CONTAMINATED LAND REGISTER**



Contaminated land

[Home](#) > [Contaminated land](#) > [Record of notices](#)

## Search results

Your search for: LGA: Liverpool City Council

Matched 12 notices relating to 2 sites.

[Search Again](#)

[Refine Search](#)

Suburb	Address	Site Name	Notices related to this site
Chipping Norton	85-107 Alfred Road	<a href="#">Australian Chemical Refiners</a>	3 current
Moorebank	Bapaume Road	<a href="#">ABB Australia</a>	1 current and 8 former

## **APPENDIX D**

### **SEARCH OF POEO REGISTER OF LICENSED AND DELICENSED PREMISES**

Organisation Name	Location Address	Suburb	Local Govt Area	Fee-Based Activity
BORAL BRICKS PTY LTD	235 MARTIN ROAD	BADGERYS CREEK	LIVERPOOL	Ceramics production
INGHAMS ENTERPRISES PTY. LIMITED	LOT 23 BADGERYS CREEK ROAD	BADGERYS CREEK	LIVERPOOL	Bird accommodation
AUSTRALIAN NATIVE LANDSCAPES PTY LTD	210 MARTIN ROAD	BADGERYS CREEK	LIVERPOOL	Waste storage - other types of waste
LEPPINGTON PASTORAL CO PTY LTD	1675 THE NORTHERN ROAD	BRINGELLY	LIVERPOOL	Dairy animal accommodation
ONESTEEL RECYCLING PTY LIMITED	53-57 RIVERSIDE ROAD	CHIPPING NORTON	LIVERPOOL	Scrap metal processing
VERTIKOTE CORP. PTY LTD	85 GOVERNOR MACQUARIE DRIVE	CHIPPING NORTON	LIVERPOOL	Metal waste generation
BENEDICT RECYCLING PTY LIMITED	33-37 Riverside Road	CHIPPING NORTON	LIVERPOOL	Recovery of general waste
INGHAMS ENTERPRISES PTY. LIMITED	KURRAJONG ROAD	HOXTON PARK	LIVERPOOL	Slaughtering or processing animals
ROADS AND MARITIME SERVICES	Between Brooks Road, Ingleburn and	INGLEBURN	LIVERPOOL	Road construction
BRANDOWN PTY. LIMITED	LOT 90 ELIZABETH DRIVE	KEMPS CREEK	LIVERPOOL	Land-based extractive activity
PRYSMIAN POWER CABLES & SYSTEMS AUSTRALIA	1 HEATHCOTE ROAD	LIVERPOOL	LIVERPOOL	Metal coating
LIVERPOOL CITY COUNCIL	-	LIVERPOOL	LIVERPOOL	Other activities
BAE SYSTEMS AUSTRALIA LOGISTICS PTY LTD	Moorebank Road	LIVERPOOL	LIVERPOOL	Dangerous goods production
JOHN HOLLAND PTY LTD	Bigge Street	LIVERPOOL	LIVERPOOL	Railway systems activities
EPIC MINING PTY LIMITED	275 Adams Road	LUDDENHAM	LIVERPOOL	Other Land-Based Extraction
C&M MASONRY PRODUCTS PTY LTD	20 KELSO CRES	MOOREBANK	LIVERPOOL	Concrete works
BERESFORD CONCRETE PRODUCTS PTY LTD	2 FIELD CLOSE	MOOREBANK	LIVERPOOL	Concrete works
ABEL METAL SERVICES PTY LTD	16-18 KELSO CRESCENT	MOOREBANK	LIVERPOOL	Crushing, grinding or separating
JOYCE FOAM PTY LTD	5-9 BRIDGES ROAD	MOOREBANK	LIVERPOOL	Plastic resins production
BENEDICT INDUSTRIES PTY LIMITED	146 NEWBRIDGE ROAD	MOOREBANK	LIVERPOOL	Crushing, grinding or separating
MOOREBANK AEROSOL FILLERS PTY LIMITED	11 CUNNINGHAM STREET	MOOREBANK	LIVERPOOL	Dangerous goods production
SPHERE HEALTHCARE PTY. LIMITED	10-12 CHURCH ROAD	MOOREBANK	LIVERPOOL	Chemical production waste generation
BENEDICT INDUSTRIES PTY LIMITED	146 Newbridge Road	MOOREBANK	LIVERPOOL	Waste storage - waste tyres
TRANSPACIFIC INDUSTRIES PTY. LTD.	22 Centenary Avenue	MOOREBANK	LIVERPOOL	Waste storage - hazardous, restricted solid, liquid, clinical and related waste
ABB AUSTRALIA PTY LIMITED	Bapaume Road	MOOREBANK	LIVERPOOL	Non-thermal treatment of hazardous and other waste
Nulon Products Australia Pty Limited	17 Yulong Close	MOOREBANK	LIVERPOOL	Chemical storage waste generation
Nulon Products Australia Pty Limited	17 Yulong Close	MOOREBANK	LIVERPOOL	Petroleum products and fuel production
SYDNEY GALVANIZING PTY LIMITED	2/12 ASH ROAD	PRESTONS	LIVERPOOL	Metal waste generation
STATE ASPHALTS NSW PTY LTD	65-75 Yarrowa Street	PRESTONS	LIVERPOOL	Waste storage - other types of waste

## **APPENDIX E**

---

### **LABORATORY TEST CERTIFICATES**





## CERTIFICATE OF ANALYSIS

Work Order	: <b>ES1507963</b>	Page	: 1 of 5
Client	: <b>GROUND TECHNOLOGIES</b>	Laboratory	: Environmental Division Sydney
Contact	: MR MOUSTAFA ELMIR	Contact	: Client Services
Address	: PO BOX 1121 GREEN VALLEY NSW,AUSTRALIA 2168	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
E-mail	: moustafa@groundtech.com.au	E-mail	: sydney@alsglobal.com
Telephone	: +61 02 8783 8200	Telephone	: +61-2-8784 8555
Facsimile	: ----	Facsimile	: +61-2-8784 8500
Project	: GTE549 PRESTONS	QC Level	: NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Order number	: ----		
C-O-C number	: ----	Date Samples Received	: 08-APR-2015
Sampler	: M. ELMIR	Issue Date	: 13-APR-2015
Site	: ----		
Quote number	: SY/554/14	No. of samples received	: 3
		No. of samples analysed	: 3

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits



NATA Accredited Laboratory 825

Accredited for compliance with  
ISO/IEC 17025.

### Signatories

This document has been electronically signed by the authorized signatories indicated below. Electronic signing has been carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	Position	Accreditation Category
Celine Conceicao	Senior Spectroscopist	Sydney Inorganics
Pabi Subba	Senior Organic Chemist	Sydney Organics



---

### **General Comments**

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contact for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.  
LOR = Limit of reporting  
^ = This result is computed from individual analyte detections at or above the level of reporting



## Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)

Client sample ID

Client sampling date / time

				E1	E2	E3	----	----
				[08-APR-2015]	[08-APR-2015]	[08-APR-2015]	----	----
Compound	CAS Number	LOR	Unit	ES1507963-001	ES1507963-002	ES1507963-003	----	----
<b>EA055: Moisture Content</b>								
Moisture Content (dried @ 103°C)	----	1.0	%	2.8	15.8	16.4	----	----
<b>EG005T: Total Metals by ICP-AES</b>								
Arsenic	7440-38-2	5	mg/kg	15	8	8	----	----
Cadmium	7440-43-9	1	mg/kg	<1	<1	<1	----	----
Chromium	7440-47-3	2	mg/kg	15	17	20	----	----
Copper	7440-50-8	5	mg/kg	24	36	30	----	----
Lead	7439-92-1	5	mg/kg	50	21	28	----	----
Nickel	7440-02-0	2	mg/kg	8	19	13	----	----
Zinc	7440-66-6	5	mg/kg	181	52	52	----	----
<b>EG035T: Total Recoverable Mercury by FIMS</b>								
Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	<0.1	----	----
<b>EP068A: Organochlorine Pesticides (OC)</b>								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
^ Total Chlordane (sum)	----	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
4,4'-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
^ Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
4,4'-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
4,4'-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	<0.2	----	----





## Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)

Client sample ID

Client sampling date / time

				E1	E2	E3	----	----
				[08-APR-2015]	[08-APR-2015]	[08-APR-2015]	----	----
Compound	CAS Number	LOR	Unit	ES1507963-001	ES1507963-002	ES1507963-003	----	----
<b>EP068A: Organochlorine Pesticides (OC) - Continued</b>								
Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	<0.2	----	----
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
^ Sum of DDD + DDE + DDT	----	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
<b>EP068B: Organophosphorus Pesticides (OP)</b>								
Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	<0.2	----	----
Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	<0.2	----	----
Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	<0.2	----	----
Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	<0.05	----	----
<b>EP068S: Organochlorine Pesticide Surrogate</b>								
Dibromo-DDE	21655-73-2	0.1	%	101	95.2	95.7	----	----
<b>EP068T: Organophosphorus Pesticide Surrogate</b>								
DEF	78-48-8	0.1	%	100	99.2	97.7	----	----



Surrogate Control Limits

Sub-Matrix: SOIL		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP068S: Organochlorine Pesticide Surrogate			
Dibromo-DDE	21655-73-2	49	147
EP068T: Organophosphorus Pesticide Surrogate			
DEF	78-48-8	35	143

## **APPENDIX F**

---

### **CORRESPONDANCE FROM LIVERPOOL COUNCIL**

Anthony

One further matter on the report. We received this correspondence below today. Please would you remove the reference in the report to imported fill.

Thanks

Stephen

**From:** Trent Iliffe  
**Sent:** Wednesday, 6 May 2015 2:02 PM  
**To:** Stephen Charnock  
**Subject:** FW: 2015-05-06 E - To J Camilleri Re - fill material to repair disturbed area in your property off Kurrajong Road, Prestons

fyi

**From:** Bishop, Gavin [<mailto:Gavin.Bishop@colliers.com>]  
**Sent:** Wednesday, 6 May 2015 1:14 PM  
**To:** Trent Iliffe  
**Subject:** FW: 2015-05-06 E - To J Camilleri Re - fill material to repair disturbed area in your property off Kurrajong Road, Prestons

Trent,

Please see below email from Liverpool Council. There was no imported fill brought onsite.

regards

**Gavin Bishop**

National Director  
Industrial

Dir +61 2 9840 0233 | Mob +61 401 146 051 | [View My Profile](#)  
Main +61 2 9840 0222 | Fax +61 2 9761 7433 | [vCard](#)  
Level 8, 20 Smith Street, | Parramatta, NSW 2150 | Australia



**From:** Joe camilleri [<mailto:joe@camilleri.com.au>]  
**Sent:** Wednesday, 6 May 2015 9:02 AM  
**To:** Bishop, Gavin  
**Subject:** FW: 2015-05-06 E - To J Camilleri Re - fill material to repair disturbed area in your property off Kurrajong Road, Prestons

Hi Gavin

Enclosed is the response I received from Council. They said that no certification was required as the material was not brought in from outside.

Regards  
Joe

**From:** Mir Sadique Hossain [<mailto:ASSETRE@liverpool.nsw.gov.au>]  
**Sent:** 6 May 2015 8:48 AM  
**To:** Joe camilleri  
**Subject:** 2015-05-06 E - To J Camilleri Re - fill material to repair disturbed area in your property off Kurrajong Road, Prestons

Hi Joe,

As discussed, site owned material was used to repair the disturbed area which was obtained from the channel dug inside your property and clean topsoil was obtained from Bernera Road.

Hope this satisfactory. Should you have any more query please feel free to discuss with me.

Regards

Mir Sadique Hossain  
*Program Engineer - Roads  
Infrastructure & Environment*

Liverpool City Council  
1 Hoxton Park Rd, Liverpool NSW 2170  
Phone 9821 9542  
Mobile 0417 430 709  
Fax 9821 9333

*Creating our future together*

**From:** Joe camilleri [<mailto:joe@camilleri.com.au>]  
**Sent:** Thursday, 30 April 2015 10:08 AM  
**To:** Mir Sadique Hossain  
**Subject:** FW: Kurrajong Rd

Hi Mir

Hope your well.

Just following up on something. When we had those discussions in 2012 and 2013 about the drainage works on our property Council had organised to have fill brought in to repair the disturbed area. Can we be provided with certification that the fill imported to the site is clean.

Can you give me an idea of when we can expect to receive the certification.

Regards Joe



---

This e-mail and attachments (if any) is intended only for the addressee(s) and is subject to copyright. This email contains information which may be confidential or privileged. If you are not the intended recipient please advise the sender by return email, do not use or disclose the contents and delete the message and any attachments from your system. Unless specifically stated, this email does not constitute formal advice or commitment by the sender or Colliers International or any of its subsidiaries.

Colliers International respects your privacy. Our Australian privacy policy can be accessed by clicking here: <http://www.colliers.com.au/privacy>. If outside Australia, please refer to your local Colliers International website for more information.

Please let us know if you no longer wish to receive marketing material and other property information from us - send an email to our Chief Privacy Officer at [UnsubscribeAustralia@colliers.com](mailto:UnsubscribeAustralia@colliers.com). If possible, please include the name of the property and/or Colliers I